

DESCRIPTION

Low brightness 4-1/2" aperture LED adjustable accent fixture with choice of distribution. Adjustment mechanism enables the LED beam to pivot through the center of the aperture at the ceiling line, allowing maximum light output with no flashback. Offered with flat cut, adjustable accent, pinhole, and lensed wall wash trims. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Reflector

Spun 0.050" aluminum. Available in a variety of Alzak® and painted finishes. Two torsion springs pull trim tight to ceiling. Truncated adjustable cut cone allows for full tilt range and flexibility. Lensed wall wash provides even illumination on vertical surfaces. Pinhole includes black oculus to control glare.

Upper Reflector

Field interchangeable optics in 15°, 25° or 35° provides smooth beam without color separation. Media holder fits onto upper reflector and holds up to two lens media.

Trim Ring

Self flanged or white polymer trim ring.

Adjustment Mechanism

Stable aiming and locking mechanism allows smooth 362° rotation and 40° elevation adjustment. Aiming scale enables consistent setting across multiple fixtures.

Housing

One piece die cast 1-1/4" deep collar. 18 gauge CRS housing is painted matte black to eliminate stray light. Housing is toolless top accessible.

Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, T bar fasteners and hanger bars. Provides 5" total adjustment.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and longer life.

LED

LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector producing even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, or DMX. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinX tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

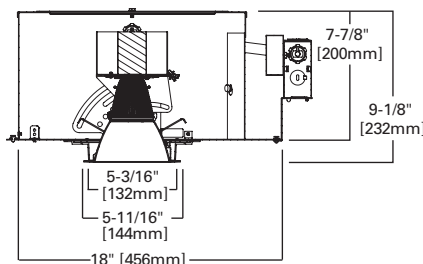
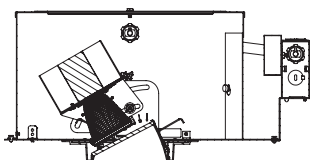
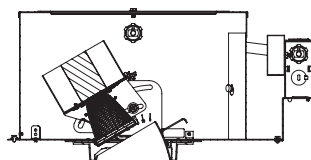
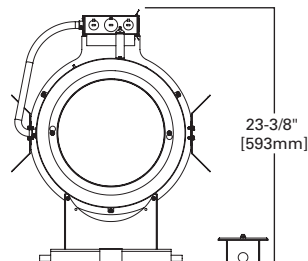
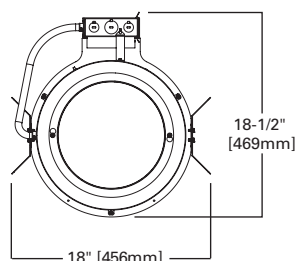
Code Compliance

Thermally protected and cULus listed for damp locations with flat cut, pinhole or angle cut and wet location covered ceiling with lensed or lensed wall wash. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2800 lumen Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1800 lumen. RoHS Compliant. 2800 lumen and above spacing and must follow spacing requirements. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5 year warranty.

D2W™



LDA4A 4L

900, 1300, 1800, 2800 Lumen LED

4-Inch
Adjustable
Slope
Wall Wash
New Construction

ENERGY DATA		
Sound Rating: Class A standards		
T ambient -40 + 40°C		
Power Factor: >0.90		
THD < 20%		
900 Lumen		
	120V	277V
Input Power	13.8W	15.0W
Input Current	0.12A	0.06A
Inrush Current	0.49A	0.85A
1300 Lumen		
	120V	277V
Input Power	22.9W	22.9W
Input Current	0.19A	0.09A
Inrush Current	0.72A	0.53A
1800 Lumen		
	120V	277V
Input Power	29.1W	29.4W
Input Current	0.24A	0.12A
Inrush Current	0.79A	1.09A
2800 Lumen		
	120V	277V
Input Power	44.5W	44.2W
Input Current	0.37A	0.17A
Inrush Current	1.09A	1.23A



Refer to ENERGY STAR® Qualified Products List.

powered by
fifthlight
technology

ORDERING INFORMATION

Example:

LDA4A09835D010TE LAR25NF 4LLWW1LI = 4" LED, 900 Lumen, Narrow Flood, 90CRI, 3500K, Self Flanged, Lensed Wall Wash

Housing	Lumens ¹	CRI	CCT	Driver	Options ^{3,7}
LDA4A =4" Aperture adjustable/slope LDA4ACP =4" Aperture adjustable/slope, Chicago Plenum	09 =900 (IC Rated) 13 =1300 (IC Rated) 18 =1800 (IC Rated) 28 =2800 (Non-IC) ⁶	8 =80 CRI 9 =90 CRI	27 =2700° K 30 =3000° K 35 =3500° K 40 =4000° K 30D2W = Dim to warm 3000° K to 1850° K (1800 lumen and below, 90 CRI) ⁸	900, 1300, 1800 and 2800 Lumen D010TE =120-277V 0-10V 10% dimming or trailing edge 120V D5LT =120-277V Fifth Light DALI 0% dimming DE010 =120-277V 0-10V 1% dimming DL3 =120-277V, 1-100% Lutron dimming DLT =Hi-Lume Forward Phase 2-wire dimming 120V DMX =120-277V DMX 0% dimming 900, 1300 and 1800 Lumen D010TR =120-277V 0-10V 10% dimming or leading edge 120V	EMBOD =7W Bodine® Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch

BEAM FORMING REFLECTOR

LAR15SP=15° Reflector
LAR25NF=25° Reflector
LAR35FL=35° Reflector

Reflector	Finish	Options	Accessories
4LA0 =4" Adjustable Accent, Polymer Trim Ring 4LA1 =4" Adjustable Accent, Self Flanged 4LLWW0 =4" Lensed Wall Wash, Polymer Trim Ring ⁹ 4LLWW1 =4" Lensed Wall Wash, Self Flanged ⁹ 4LAL0 =4" Lensed Adjustable Accent, Polymer Trim Ring 4LAL1 =4" Lensed Adjustable Accent, Self Flanged 4LFC0 =Flat Cut Cone, Polymer Trim Ring 4LFC1 =Flat Cut Cone, Self Flanged 4LAPIN =4" Pinhole ⁴	LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze G =Specular Gold WH =Wheat WHH =Wheat Haze GP =Graphite GPH =Graphite Haze B =Specular Black W =Gloss White	Self-Flanged Only WF =White Painted Flange	TRM4P =Metal Trim Ring, White ² TRM4MB =Metal Trim Ring, Black ² TRR4 =Rimless Trim Ring ² LGS T4IP66 =IP66 Gasket Kit ⁵ Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair Transformers H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Connected Lighting Systems PORLWTPD1 =LumaWatt Pro wireless sensor kit (0-10V only) TMSWPD1 =WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount) Color Filters F22-20 =Red F33-20 =Blue F44-20 =Green F55-20 =Yellow F66-20 =Mercury Dichronic Filters F71-20 =Peach F72-20 =Amber F73-20 =Green F74-20 =Medium Blue F75-20 =Yellow F76-20 =Red F77-20 =Dark Blue F78-20 =Light Blue F79-20 =Neutral Density F80-20 =Magenta Beam-Modifying Lenses LSL20 =Linear Spread Lens OSL20 =Overall Spread Lens DIF-20 =Diffused Lens Louvers L R-20 =Hex Cell Louver Snoot PLNC-SN-B =Snoot

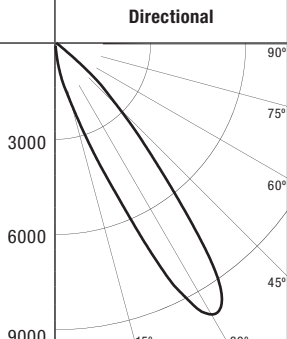
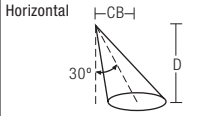
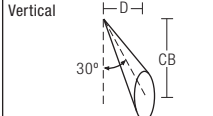
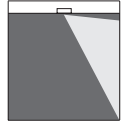
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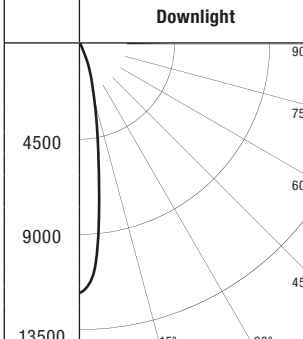
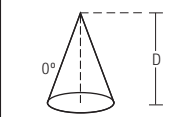
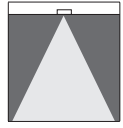
- 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
- 2 Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
- 3 Not available with Chicago Plenum and requires above ceiling access. Not for use with insulation.
- 4 Pinhole finish standard white with black occulus (omit finish code).
- 5 Required for T-24 compliance with lensed trims.
- 6 Product is marked spacing and must be installed with the following minimum spacing:
Center to center of adjacent luminaires: 36"
Center of luminaire to side of building member: 18"
Minimum overhead clearance: 1/2"
- 7 Not CSA approved.
- 8 Includes 30° distribution diffuse lens. Order with LARL15SP upper reflector. Reference ies files for output.
- 9 Use with narrow flood beam forming reflector and 30° tilt.

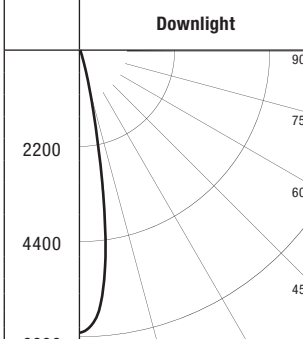
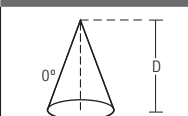
EM MULTIPLIER DATA

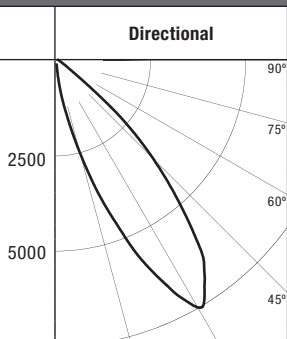
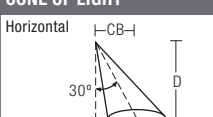
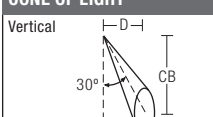
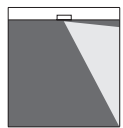
LUMENS	EM MULTIPLIER	
	7	14
900/1000	0.50	0.99
1300/1500	0.29	0.57
1800/2000	0.22	0.44
2800/3000	0.16	0.32

PHOTOMETRICS

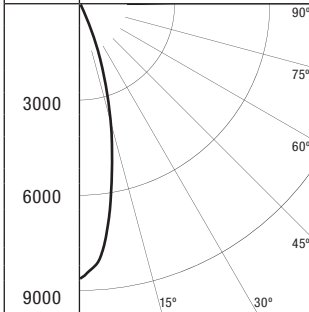
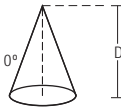
		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY																																																																	
Test Number P170903								<table><tr><th>Degrees Vertical</th><th>Candela</th></tr><tr><td>0</td><td>94</td></tr><tr><td>5</td><td>420</td></tr><tr><td>15</td><td>2152</td></tr><tr><td>25</td><td>7782</td></tr><tr><td>35</td><td>8815</td></tr><tr><td>45</td><td>2530</td></tr><tr><td>55</td><td>115</td></tr><tr><td>65</td><td>6</td></tr><tr><td>75</td><td>0</td></tr><tr><td>85</td><td>0</td></tr><tr><td>90</td><td>0</td></tr></table>		Degrees Vertical	Candela	0	94	5	420	15	2152	25	7782	35	8815	45	2530	55	115	65	6	75	0	85	0	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>%Fixture</th></tr><tr><td>0-30</td><td>714</td><td>44.3</td></tr><tr><td>0-40</td><td>1329</td><td>82.5</td></tr><tr><td>0-60</td><td>1604</td><td>99.6</td></tr><tr><td>0-90</td><td>1611</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1611</td><td>100</td></tr></table>			Zone	Lumens	%Fixture	0-30	714	44.3	0-40	1329	82.5	0-60	1604	99.6	0-90	1611	100	90-180	0	0	0-180	1611	100																		
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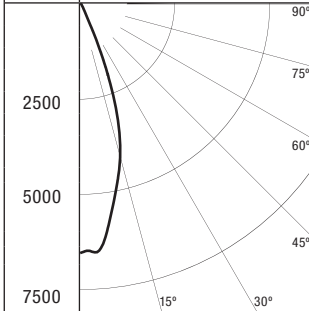
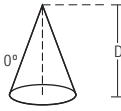
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Housing	LDA4A18835D010TE					Degrees Vertical	Candela	Zone	Lumens	%Fixture
Trim	LAR15SP 4LFC1					0	12099	0-30	1894	99.1
Lumens	1910 Lm					5	10191	0-40	1908	99.9
Efficacy	65.6 Lm/W					15	2956	0-60	1910	100
SC	0.32					25	357	0-90	1910	100
						35	18	90-180	0	0
						45	2	0-180	1910	100
						55	0			
						65	0			
						75	0			
						85	0			
						90	0			

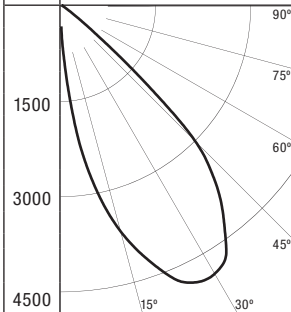
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Housing	LDA4A18835D010TE					Degrees Vertical	Candela	Zone	Lumens	%Fixture
Trim	LAR15SP 4LPIN					0	6521	0-30	737	99.8
Lumens	738 Lm					5	5842	0-40	738	100
Efficacy	25.3 Lm/W					15	767	0-60	738	100
SC	0.34					25	19	0-90	738	100
						35	1	90-180	0	0
						45	0	0-180	738	100
						55	0			
						65	0			
						75	0			
						85	0			
						90	0			
				MH	FC	L	W			
				5.5'	216	1.8	1.8			
				7'	133	2.2	2.2			
				8'	102	2.6	2.6			
				9'	81	3	3			
				10'	65	3.2	3.2			
				12'	45	4	4			

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Efficacy 60.1 Lm/W																																																																																											
							<table><tr><th>MH</th><th>FC</th><th>L</th><th>W</th><th>CB</th></tr><tr><td>5.5'</td><td>42</td><td>6.4</td><td>4.2</td><td>3.2</td></tr><tr><td>7'</td><td>26</td><td>8.1</td><td>5.2</td><td>4.0</td></tr><tr><td>8'</td><td>20</td><td>9.3</td><td>6.0</td><td>4.6</td></tr><tr><td>9'</td><td>16</td><td>10.5</td><td>6.8</td><td>5.2</td></tr><tr><td>10'</td><td>13</td><td>11.6</td><td>7.6</td><td>5.8</td></tr><tr><td>12'</td><td>9</td><td>14</td><td>9.2</td><td>6.9</td></tr></table>					MH	FC	L	W	CB	5.5'	42	6.4	4.2	3.2	7'	26	8.1	5.2	4.0	8'	20	9.3	6.0	4.6	9'	16	10.5	6.8	5.2	10'	13	11.6	7.6	5.8	12'	9	14	9.2	6.9	<table><tr><th>D</th><th>FC</th><th>L</th><th>W</th><th>CB</th></tr><tr><td>1'</td><td>5063</td><td>0.4</td><td>0.4</td><td>1.7</td></tr><tr><td>2'</td><td>1266</td><td>1</td><td>0.8</td><td>3.5</td></tr><tr><td>3'</td><td>563</td><td>1.5</td><td>1.4</td><td>5.2</td></tr><tr><td>4'</td><td>316</td><td>2.1</td><td>2</td><td>6.9</td></tr><tr><td>5'</td><td>203</td><td>2.7</td><td>2.4</td><td>8.7</td></tr><tr><td>6'</td><td>141</td><td>3.2</td><td>3</td><td>10.4</td></tr></table>					D	FC	L	W	CB	1'	5063	0.4	0.4	1.7	2'	1266	1	0.8	3.5	3'	563	1.5	1.4	5.2	4'	316	2.1	2	6.9	5'	203	2.7	2.4	8.7	6'	141	3.2	3	10.4					
MH	FC	L	W	CB																																																																																							
5.5'	42	6.4	4.2	3.2																																																																																							
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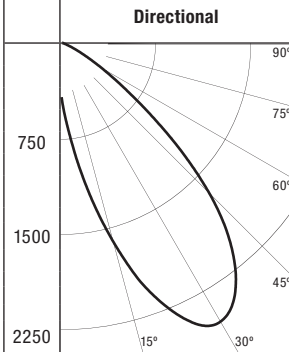
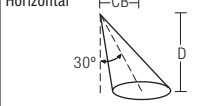
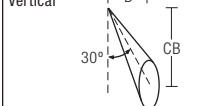
PHOTOMETRICS

Test Number P170615		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Housing	LDA4A18835D010TE					Degrees Vertical	Candela	Zone	Lumens	%Fixture
Trim	LAR25NF 4LFC1					0	8687	0-30	2044	98.8
Lumens	2070 Lm					5	7947	0-40	2067	99.9
Efficacy	71.1 Lm/W					15	3834	0-60	2070	100
SC	0.46					25	465	0-90	2070	100
						35	28	90-180	0	0
						45	3	0-180	2070	100
		55	0							
		65	0							
		75	0							
		85	0							
		90	0							

Test Number P170647		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Housing	LDA4A18835D010TE					Degrees Vertical	Candela	Zone	Lumens	%Fixture
Trim	LAR35FL 4LFC1					0	6625	0-30	2121	98.5
Lumens	2153 Lm					5	6511	0-40	2150	99.9
Efficacy	73.9 Lm/W					15	4203	0-60	2153	100
SC	0.6					25	623	0-90	2153	100
						35	34	90-180	0	0
						45	2	0-180	2153	100
		55	0							
		65	0							
		75	0							
		85	0							
		90	0							

Test Number P174896		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Housing	LDA4A18835D010TE							Degrees Vertical	Candela	Zone	Lumens	%Fixture
Trim	LAR35FL 4LA1 30° Tilt							0	342	0-30	948	51.4
Lumens	1843 Lm							5	1432	0-40	1514	82.1
Efficacy	63.3 Lm/W							15	3794	0-60	1837	99.7
								25	4914	0-90	1843	100
								35	4619	90-180	0	0
								45	2960	0-180	1843	100
		55	129									
		65	4									
		75	0									
		85	0									
		90	0									

PHOTOMETRICS

		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY																																																																								
Test Number P170871								<table><tr><th>Degrees Vertical</th><th>Canдела</th></tr><tr><td>0</td><td>427</td></tr><tr><td>5</td><td>726</td></tr><tr><td>15</td><td>1654</td></tr><tr><td>25</td><td>2420</td></tr><tr><td>35</td><td>2384</td></tr><tr><td>45</td><td>1609</td></tr><tr><td>55</td><td>551</td></tr><tr><td>65</td><td>108</td></tr><tr><td>75</td><td>8</td></tr><tr><td>85</td><td>3</td></tr><tr><td>90</td><td>0</td></tr></table>		Degrees Vertical	Canдела	0	427	5	726	15	1654	25	2420	35	2384	45	1609	55	551	65	108	75	8	85	3	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>%Fixture</th></tr><tr><td>0-30</td><td>596</td><td>37.2</td></tr><tr><td>0-40</td><td>1043</td><td>65.2</td></tr><tr><td>0-60</td><td>1556</td><td>97.3</td></tr><tr><td>0-90</td><td>1600</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1600</td><td>100</td></tr></table>			Zone	Lumens	%Fixture	0-30	596	37.2	0-40	1043	65.2	0-60	1556	97.3	0-90	1600	100	90-180	0	0	0-180	1600	100																									
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MH	FC	L	W	CB																																																																														
5.5'	19.4	6.5	6	3.2																																																																														
7'	12	8.2	7.6	4																																																																														
8'	9.2	9.4	8.8	4.6																																																																														
9'	7.2	10.6	9.8	5.2																																																																														
10'	5.9	11.8	11	5.8																																																																														
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SINGLE UNIT FOOTCANDLES								MULTIPLE UNIT FOOTCANDLES					
2' FROM WALL (Distance From Fixture Along Wall)								2' FROM WALL (Spacing Between Fixtures)			3' FROM WALL (Spacing Between Fixtures)		
DD	●	1'	2'	3'	4'	5'	6'	●	2' apart	●	●	3' apart	●
1'	26.7	10.8	1.2	0.1	0	0	0	27.9	21.6	27.9	2.3	1.5	2.3
2'	142.2	70.1	15	2.7	0.5	0.1	0	157.2	140.1	157.2	31.9	26.3	31.9
3'	103.8	66.8	23.4	6.7	1.7	0.4	0.2	127.3	133.6	127.3	69.9	62.3	69.9
4'	55.3	41	19.8	8.1	2.8	0.9	0.4	75.1	82	75.1	64.7	66.1	64.7
5'	28.6	23.1	13.8	7.1	3.2	1.3	0.6	42.4	46.2	42.4	48.1	51.4	48.1
6'	15.6	13.3	9.1	5.5	2.9	1.5	0.8	24.7	26.6	24.7	33.4	36.4	33.4
7'	9.1	8	5.9	4.1	2.5	1.4	0.8	15	16	15	22.7	24.9	22.7
8'	5.6	5	4	2.9	2	1.2	0.8	9.5	10	9.5	15.7	17	15.7
9'	3.6	3.3	2.8	2.1	1.6	1.1	0.7	6.4	6.6	6.4	11	11.8	11
10'	2.4	2.2	1.9	1.6	1.2	0.9	0.7	4.4	4.5	4.4	7.8	8.4	7.8