

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P588505

Luminaire Tested: **GAT-CA6-LED-70-740-U-55-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-70-740-U-55-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7075 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

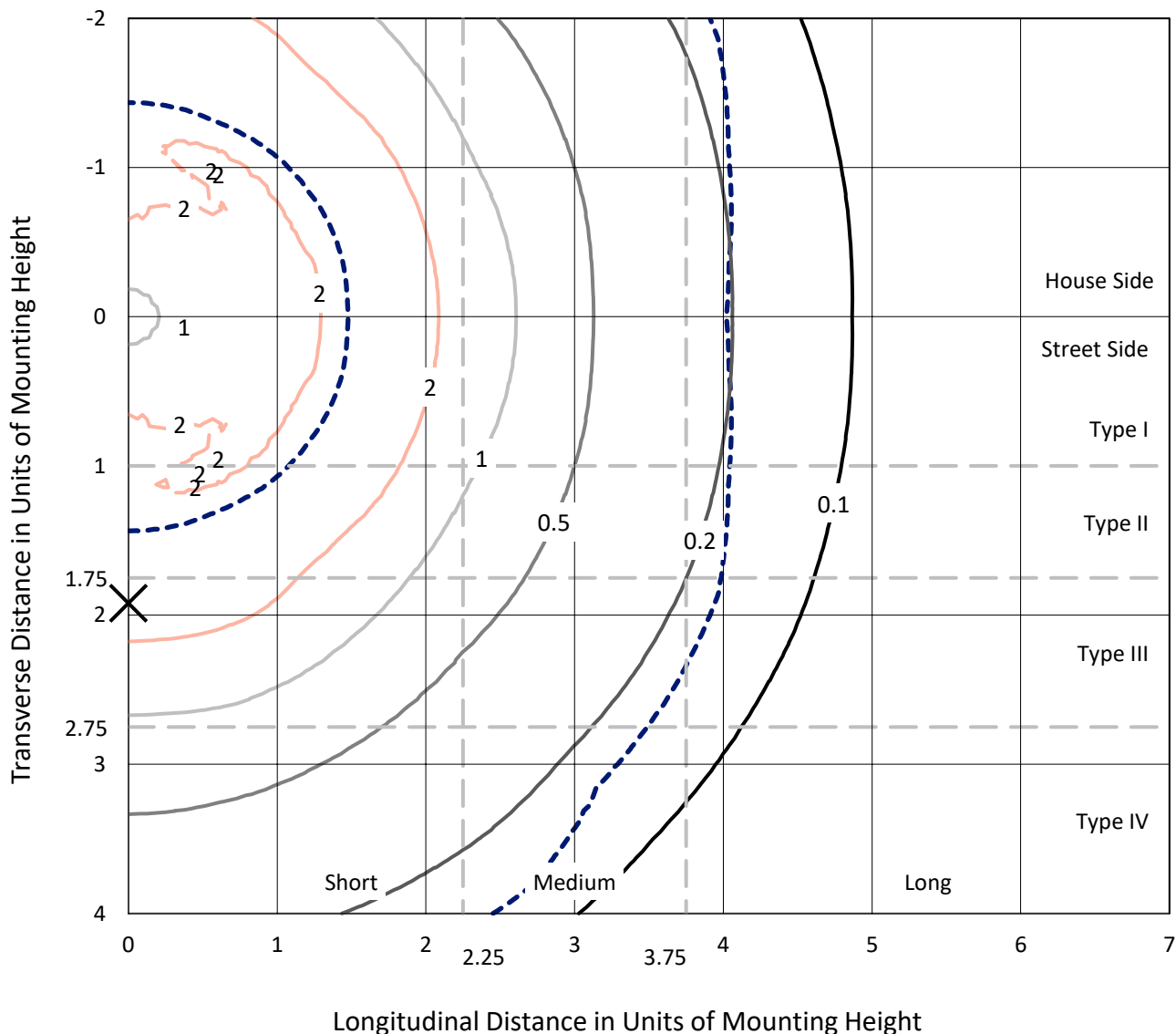
Input Watts (W): 73.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Semi-Cutoff

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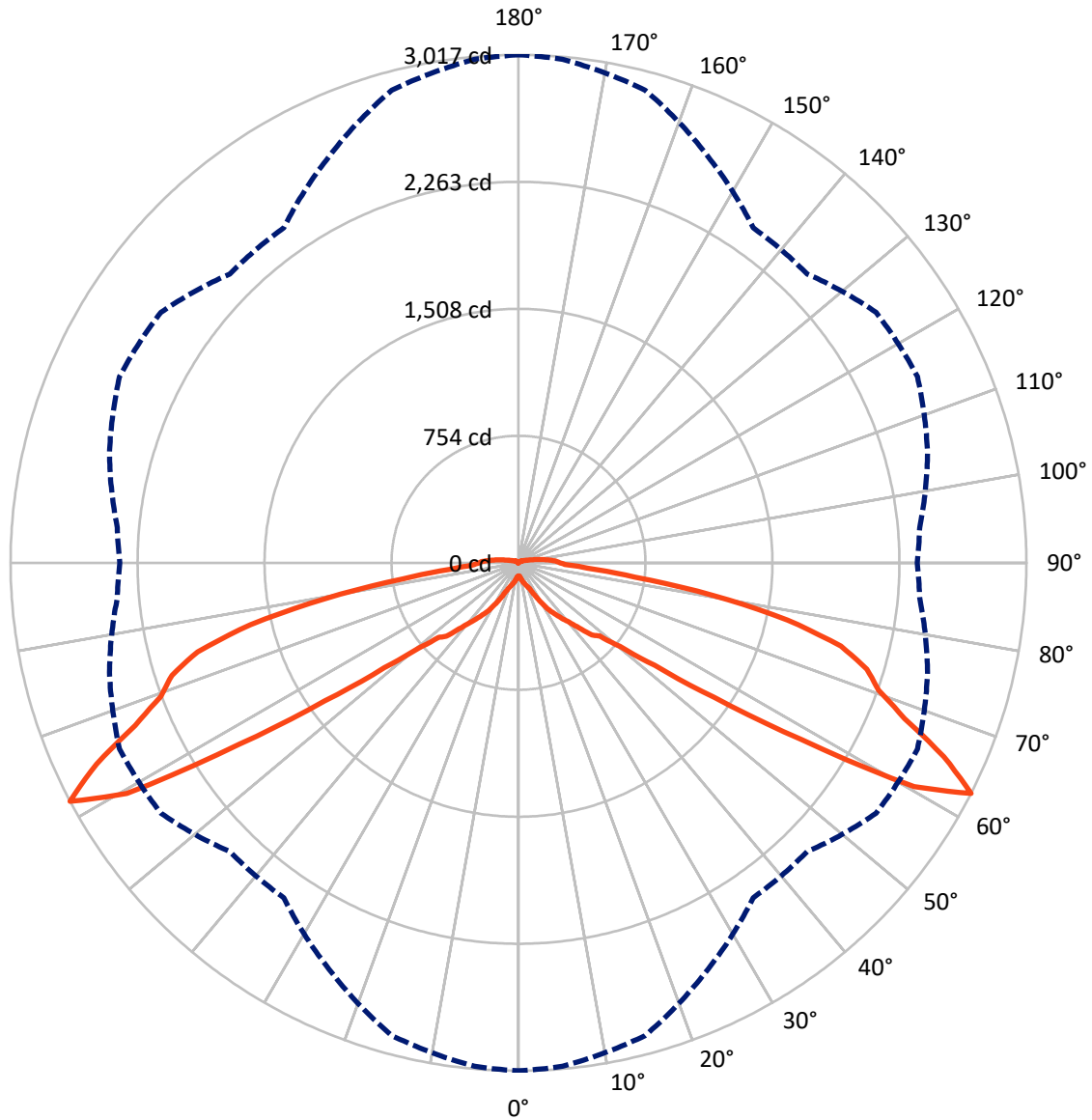
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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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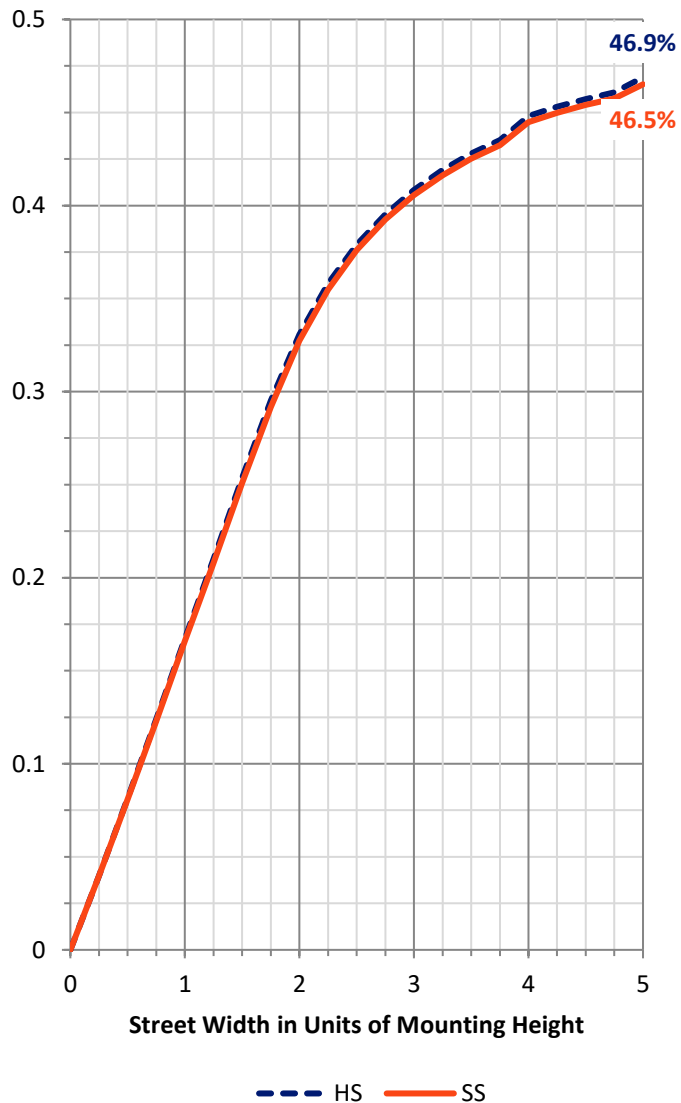
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3401.6	135.9	3537.5
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	3401.6	135.9	3537.5
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	6803.1	271.9	7075.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	35.6	0.5
20°-30°	94.1	1.3
30°-40°	214.0	3.0
40°-50°	432.9	6.1
50°-60°	1281.4	18.1
60°-70°	2407.3	34.0
70°-80°	1789.4	25.3
80°-90°	540.2	7.6
90°-100°	175.3	2.5
100°-110°	61.4	0.9
110°-120°	23.7	0.3
120°-130°	9.4	0.1
130°-140°	1.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	6803.1	96.2
0°-180°	7075.0	100.0

**Coefficient of Utilization**



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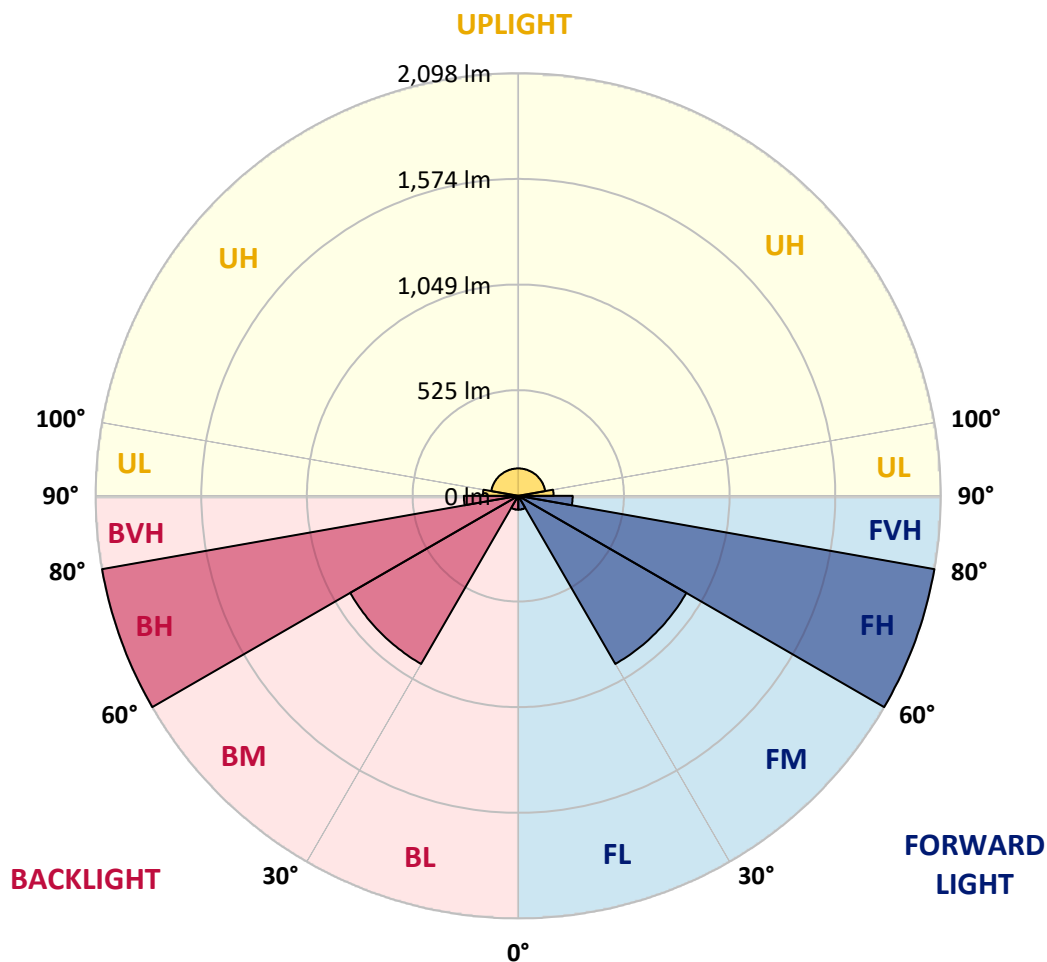
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	69.1	1.0			
FM (30°-60°)	964.1	13.6			
FH (60°-80°)	2098.3	29.7			G2/5000
FVH (80°-90°)	270.1	3.8			G3/500
BL (0°-30°)	69.1	1.0	B0/110		
BM (30°-60°)	964.1	13.6	B1/1000		
BH (60°-80°)	2098.3	29.7	B3/2500		G2/5000
BVH (80°-90°)	270.1	3.8			G3/500
UL (90°-100°)	175.3	2.5		U3/500	
UH (100°-180°)	135.9	1.9		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	79.1	79.1	79.1	77.8	76.5	76.5	76.5	76.5	75.1	75.1	75.1
5°	83.2	83.2	81.8	80.5	80.5	79.1	80.5	79.1	79.1	79.1	80.5
7.5°	92.6	92.6	91.2	91.2	91.2	89.9	89.9	89.9	89.9	88.5	89.9
10°	103.3	103.3	103.3	103.3	103.3	102.0	102.0	100.6	100.6	100.6	100.6
12.5°	115.4	114.0	114.0	115.4	114.0	112.7	112.7	112.7	111.3	111.3	111.3
15°	126.1	126.1	124.8	124.8	124.8	123.4	123.4	122.1	122.1	120.7	120.7
17.5°	136.8	136.8	135.5	134.1	134.1	134.1	132.8	132.8	131.5	131.5	131.5
20°	150.2	148.9	147.6	146.2	144.9	144.9	144.9	144.9	143.5	142.2	142.2
22.5°	165.0	163.7	162.3	161.0	161.0	159.6	159.6	158.3	158.3	156.9	155.6
25°	195.9	195.9	190.5	189.1	189.1	190.5	189.1	187.8	185.1	181.1	181.1
27.5°	237.4	238.8	240.1	246.8	245.5	236.1	230.7	228.0	226.7	226.7	228.0
30°	284.4	285.7	289.8	296.5	292.4	280.4	266.9	261.6	265.6	271.0	272.3
32.5°	334.0	334.0	326.0	316.6	307.2	299.1	295.1	292.4	291.1	287.1	287.1
35°	372.9	366.2	340.7	309.9	300.5	305.9	321.9	327.3	307.2	288.4	285.7
37.5°	417.2	415.8	395.7	372.9	355.5	352.8	370.2	375.6	354.1	342.1	340.7
40°	464.1	466.8	470.8	461.5	434.6	426.6	417.2	410.5	410.5	411.8	409.1
42.5°	527.2	531.2	531.2	532.6	511.1	492.3	473.5	462.8	461.5	472.2	476.2
45°	611.7	611.7	602.3	583.5	574.1	560.7	548.7	537.9	532.6	533.9	537.9
47.5°	649.3	651.9	643.9	617.1	610.4	596.9	579.5	575.5	578.2	582.2	583.5
50°	780.7	774.0	719.0	662.7	642.6	656.0	681.5	688.2	662.7	637.2	630.5
52.5°	1011.5	1010.1	967.2	925.6	897.4	889.4	924.3	926.9	882.7	863.9	861.2
55°	1411.2	1396.5	1428.6	1448.8	1389.7	1324.0	1299.9	1266.3	1269.0	1306.6	1307.9
57.5°	1978.6	1986.7	2022.9	1970.6	1880.7	1832.4	1798.9	1735.8	1737.2	1770.7	1773.4
60°	2699.0	2697.7	2582.3	2381.1	2242.9	2252.3	2344.9	2358.3	2214.7	2122.2	2111.4
62.5°	3016.9	3002.2	2906.9	2662.8	2429.4	2425.3	2593.0	2614.5	2515.2	2391.8	2367.7
65°	2776.8	2764.7	2805.0	2721.8	2414.6	2335.5	2386.4	2381.1	2444.1	2500.5	2507.2
67.5°	2472.3	2475.0	2571.6	2546.1	2332.8	2198.6	2134.2	2126.2	2244.2	2375.7	2393.1
70°	2268.4	2268.4	2336.8	2233.5	2131.6	2044.4	1977.3	1935.7	2012.2	2033.6	2032.3
72.5°	2163.8	2154.4	2106.1	2006.8	1929.0	1852.5	1872.7	1841.8	1805.6	1749.3	1743.9
75°	1977.3	1966.6	1899.5	1852.5	1796.2	1701.0	1718.4	1687.5	1627.2	1576.2	1568.2
77.5°	1633.9	1633.9	1591.0	1556.1	1540.0	1458.2	1450.1	1435.4	1375.0	1346.8	1336.1
80°	1169.7	1167.1	1149.6	1137.6	1157.7	1109.4	1087.9	1087.9	1063.8	1038.3	1026.2
82.5°	696.2	686.8	686.8	690.8	678.8	647.9	653.3	684.1	681.5	666.7	656.0
85°	411.8	406.5	402.4	397.1	386.3	364.9	364.9	367.6	370.2	371.6	366.2
87.5°	275.0	273.7	273.7	273.7	261.6	246.8	253.5	257.6	254.9	253.5	252.2
90°	240.1	241.5	240.1	234.8	224.0	210.6	213.3	218.7	216.0	216.0	214.6
92.5°	216.0	216.0	213.3	207.9	197.2	185.1	186.5	189.1	187.8	186.5	185.1
95°	177.1	177.1	174.4	170.4	161.0	150.2	151.6	154.3	151.6	151.6	150.2
97.5°	138.2	138.2	136.8	134.1	126.1	118.0	119.4	120.7	119.4	119.4	118.0
100°	104.6	104.6	103.3	99.3	95.2	88.5	89.9	92.6	91.2	91.2	89.9
102.5°	77.8	77.8	76.5	75.1	69.8	65.7	67.1	67.1	67.1	65.7	65.7
105°	60.4	60.4	60.4	57.7	55.0	51.0	51.0	51.0	51.0	49.6	49.6
107.5°	48.3	47.0	47.0	45.6	42.9	40.2	40.2	40.2	40.2	40.2	40.2
110°	38.9	37.6	36.2	36.2	33.5	32.2	30.9	32.2	32.2	32.2	32.2

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	33.5	32.2	29.5	29.5	28.2	25.5	25.5	25.5	28.2	26.8	26.8
115°	29.5	28.2	24.1	24.1	22.8	21.5	21.5	21.5	24.1	21.5	21.5
117.5°	25.5	24.1	20.1	20.1	18.8	17.4	17.4	17.4	20.1	17.4	17.4
120°	18.8	18.8	16.1	16.1	16.1	14.8	14.8	14.8	16.1	14.8	14.8
122.5°	14.8	14.8	13.4	13.4	13.4	12.1	12.1	12.1	12.1	10.7	10.7
125°	14.8	17.4	10.7	10.7	9.4	9.4	9.4	8.0	9.4	8.0	8.0
127.5°	16.1	14.8	8.0	8.0	8.0	6.7	6.7	6.7	6.7	6.7	6.7
130°	5.4	8.0	5.4	5.4	5.4	5.4	5.4	5.4	4.0	4.0	4.0
132.5°	4.0	4.0	4.0	4.0	4.0	4.0	2.7	2.7	2.7	2.7	2.7
135°	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
170°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
172.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
175°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
177.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)