

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: P588517

Luminaire Tested: **GAT-CA6-LED-80-722-U-55-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588517  
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-80-722-U-55-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6724 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

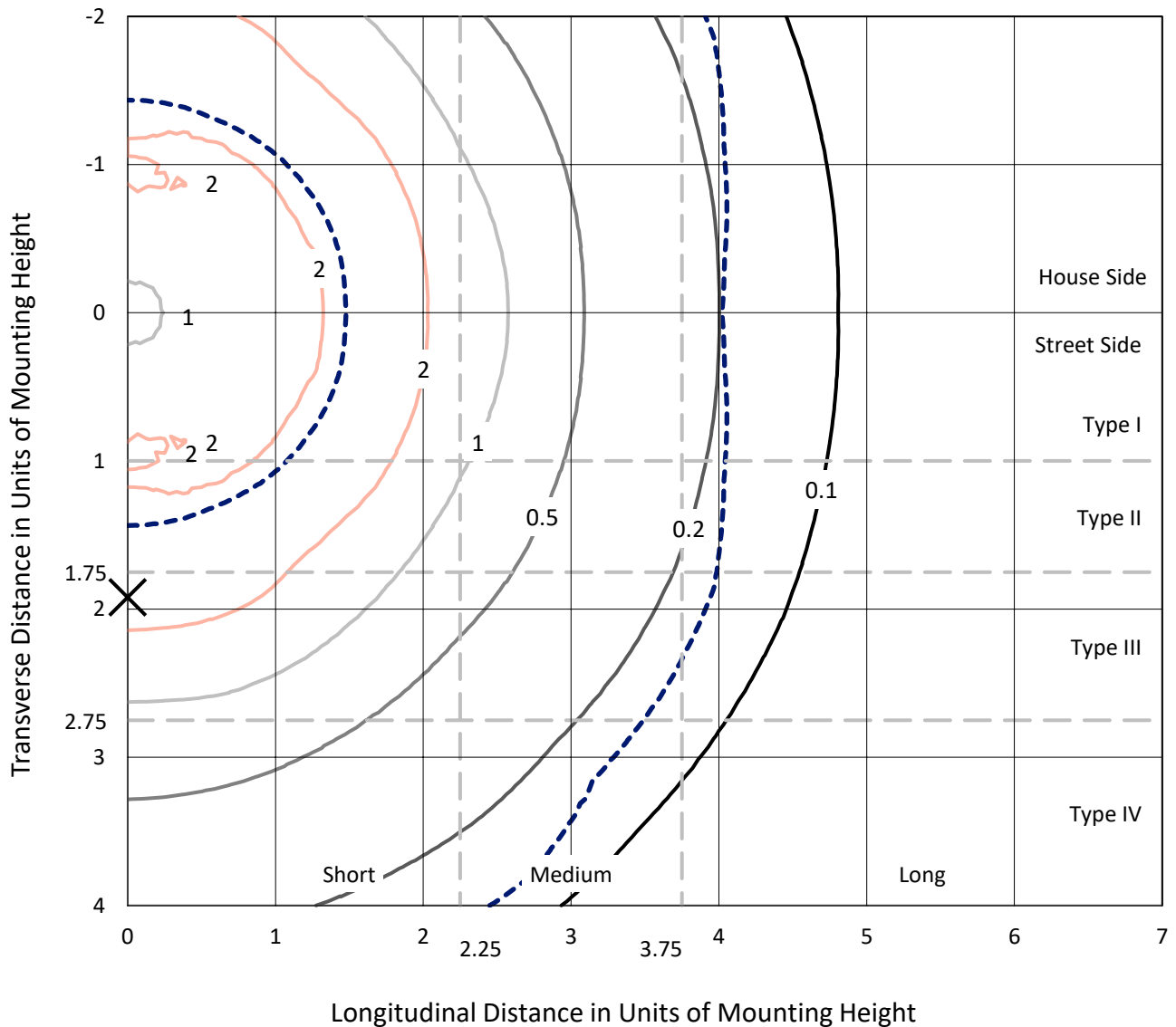
Input Watts (W): 84.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

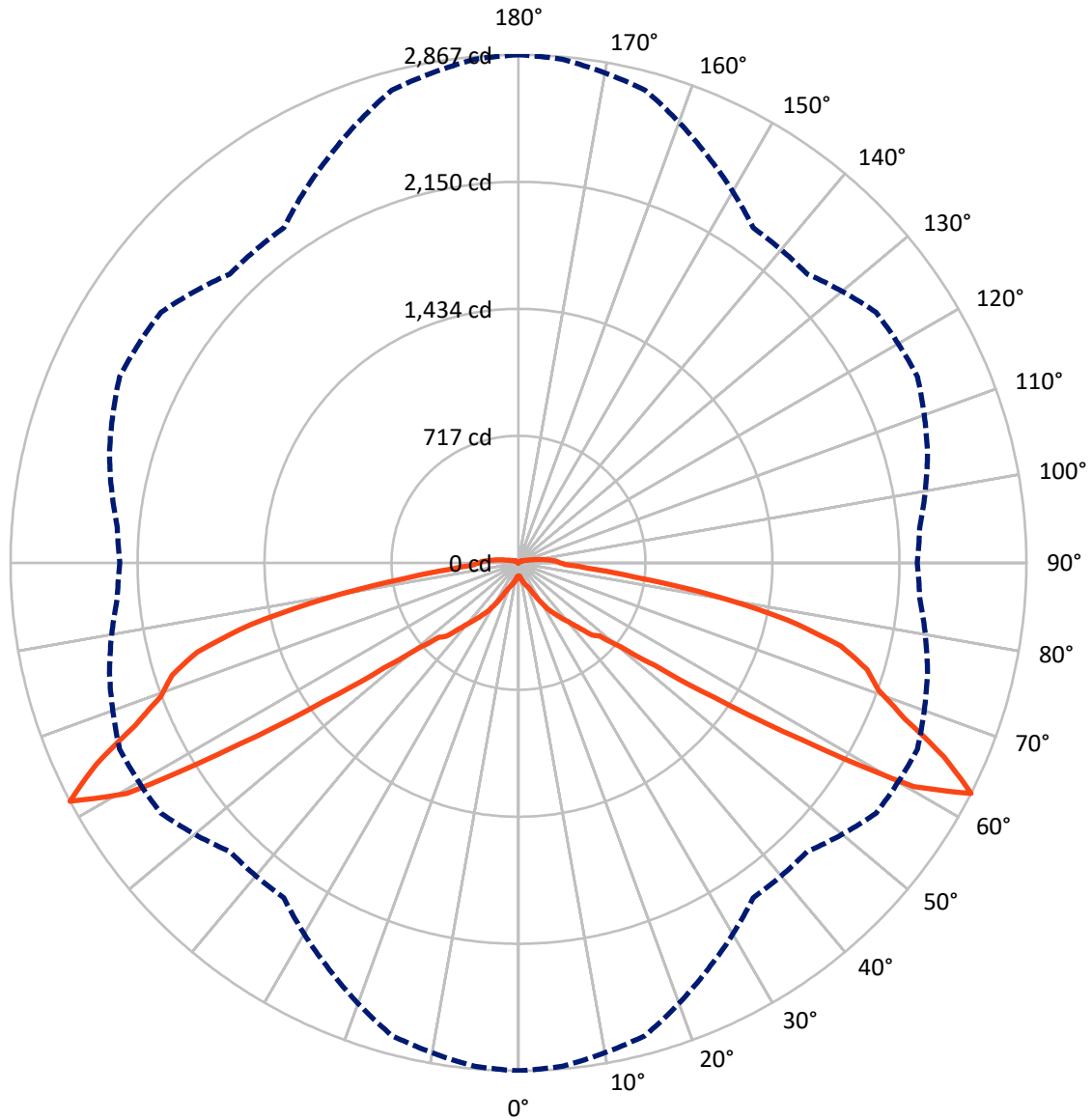
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Semi-Cutoff

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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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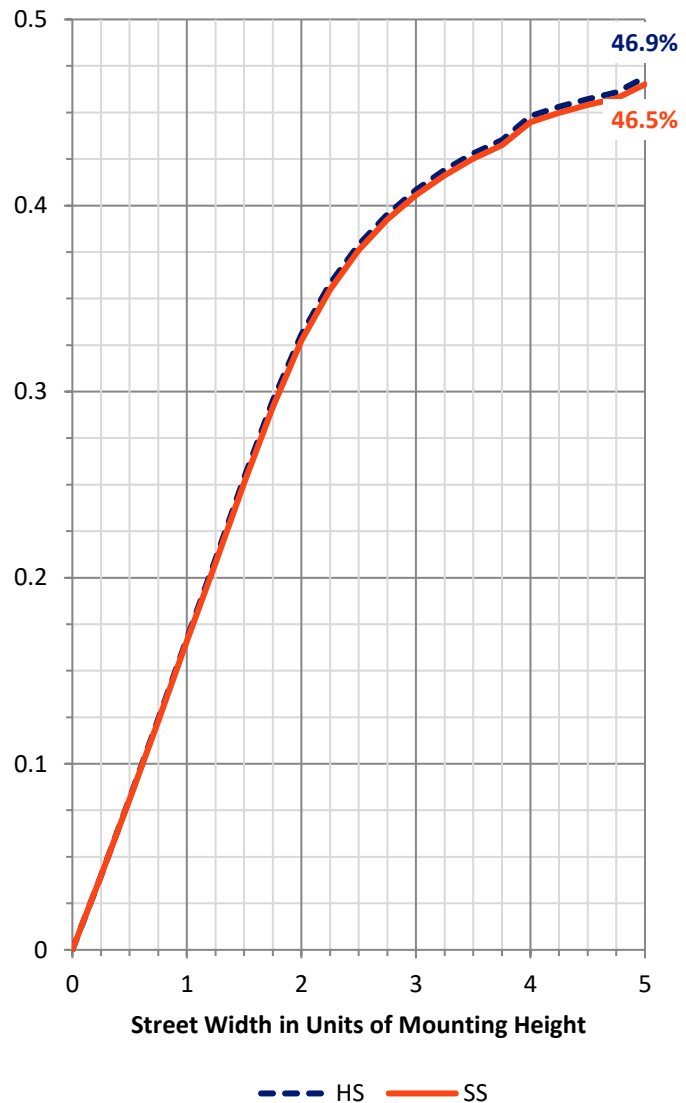
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3232.8	129.2	3362.0
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	3232.8	129.2	3362.0
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	6465.6	258.4	6724.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.0	0.1
10°-20°	33.9	0.5
20°-30°	89.4	1.3
30°-40°	203.4	3.0
40°-50°	411.4	6.1
50°-60°	1217.8	18.1
60°-70°	2287.8	34.0
70°-80°	1700.6	25.3
80°-90°	513.4	7.6
90°-100°	166.6	2.5
100°-110°	58.4	0.9
110°-120°	22.6	0.3
120°-130°	8.9	0.1
130°-140°	1.8	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°	6465.6	96.2
0°-180°	6724.0	100.0

**Coefficient of Utilization**



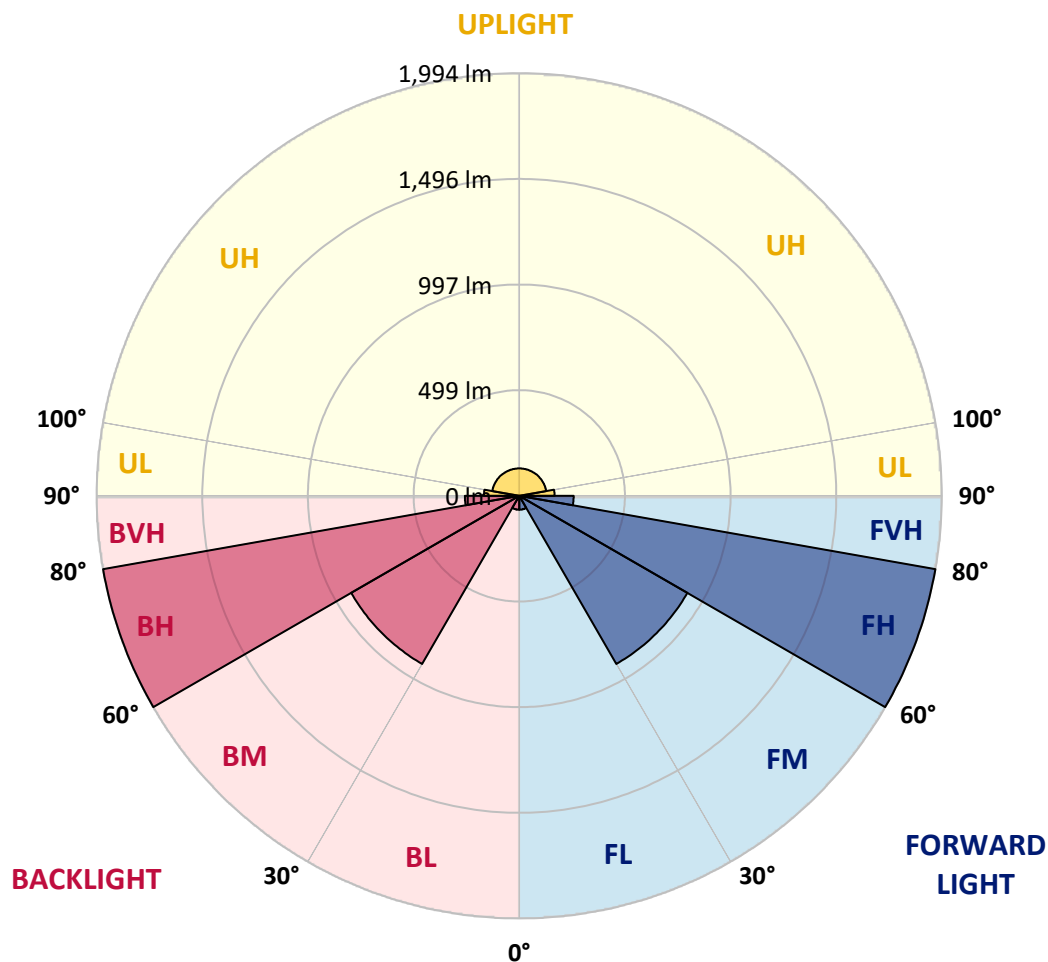
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	65.6	1.0			
FM (30°-60°)	916.3	13.6			
FH (60°-80°)	1994.2	29.7			G2/5000
FVH (80°-90°)	256.7	3.8			G3/500
BL (0°-30°)	65.6	1.0	B0/110		
BM (30°-60°)	916.3	13.6	B1/1000		
BH (60°-80°)	1994.2	29.7	B3/2500		G2/5000
BVH (80°-90°)	256.7	3.8			G3/500
UL (90°-100°)	166.6	2.5		U3/500	
UH (100°-180°)	129.2	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°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
2.5°	75.2	75.2	75.2	73.9	72.7	72.7	72.7	72.7	71.4	71.4	71.4
5°	79.0	79.0	77.8	76.5	76.5	75.2	76.5	75.2	75.2	75.2	76.5
7.5°	88.0	88.0	86.7	86.7	86.7	85.4	85.4	85.4	85.4	84.1	85.4
10°	98.2	98.2	98.2	98.2	98.2	96.9	96.9	95.6	95.6	95.6	95.6
12.5°	109.6	108.4	108.4	109.6	108.4	107.1	107.1	107.1	105.8	105.8	105.8
15°	119.8	119.8	118.6	118.6	118.6	117.3	117.3	116.0	116.0	114.7	114.7
17.5°	130.0	130.0	128.8	127.5	127.5	127.5	126.2	126.2	124.9	124.9	124.9
20°	142.8	141.5	140.2	139.0	137.7	137.7	137.7	137.7	136.4	135.1	135.1
22.5°	156.8	155.5	154.3	153.0	153.0	151.7	151.7	150.4	150.4	149.2	147.9
25°	186.1	186.1	181.0	179.8	179.8	181.0	179.8	178.5	175.9	172.1	172.1
27.5°	225.7	226.9	228.2	234.6	233.3	224.4	219.3	216.7	215.5	215.5	216.7
30°	270.3	271.6	275.4	281.8	277.9	266.5	253.7	248.6	252.4	257.5	258.8
32.5°	317.5	317.5	309.8	300.9	292.0	284.3	280.5	277.9	276.7	272.8	272.8
35°	354.4	348.0	323.8	294.5	285.6	290.7	306.0	311.1	292.0	274.1	271.6
37.5°	396.5	395.2	376.1	354.4	337.8	335.3	351.9	357.0	336.6	325.1	323.8
40°	441.1	443.7	447.5	438.6	413.1	405.4	396.5	390.1	390.1	391.4	388.8
42.5°	501.0	504.9	504.9	506.1	485.7	467.9	450.0	439.8	438.6	448.8	452.6
45°	581.4	581.4	572.4	554.6	545.7	532.9	521.4	511.2	506.1	507.4	511.2
47.5°	617.1	619.6	612.0	586.5	580.1	567.3	550.8	546.9	549.5	553.3	554.6
50°	742.0	735.6	683.3	629.8	610.7	623.4	647.6	654.0	629.8	605.6	599.2
52.5°	961.3	960.0	919.2	879.7	852.9	845.3	878.4	881.0	838.9	821.0	818.5
55°	1341.2	1327.2	1357.8	1376.9	1320.8	1258.3	1235.4	1203.5	1206.1	1241.8	1243.0
57.5°	1880.5	1888.1	1922.5	1872.8	1787.4	1741.5	1709.6	1649.7	1651.0	1682.9	1685.4
60°	2565.1	2563.8	2454.2	2262.9	2131.6	2140.6	2228.5	2241.3	2104.9	2016.9	2006.7
62.5°	2867.3	2853.2	2762.7	2530.7	2308.8	2305.0	2464.4	2484.8	2390.4	2273.1	2250.2
65°	2639.0	2627.6	2665.8	2586.8	2294.8	2219.6	2268.0	2262.9	2322.9	2376.4	2382.8
67.5°	2349.6	2352.2	2444.0	2419.8	2217.1	2089.6	2028.4	2020.7	2132.9	2257.8	2274.4
70°	2155.9	2155.9	2220.9	2122.7	2025.8	1942.9	1879.2	1839.7	1912.4	1932.7	1931.5
72.5°	2056.4	2047.5	2001.6	1907.3	1833.3	1760.6	1779.8	1750.4	1716.0	1662.5	1657.4
75°	1879.2	1869.0	1805.3	1760.6	1707.1	1616.6	1633.1	1603.8	1546.5	1498.0	1490.4
77.5°	1552.8	1552.8	1512.0	1478.9	1463.6	1385.8	1378.2	1364.1	1306.8	1280.0	1269.8
80°	1111.7	1109.2	1092.6	1081.1	1100.2	1054.3	1033.9	1033.9	1011.0	986.8	975.3
82.5°	661.7	652.7	652.7	656.6	645.1	615.8	620.9	650.2	647.6	633.6	623.4
85°	391.4	386.3	382.5	377.4	367.2	346.8	346.8	349.3	351.9	353.1	348.0
87.5°	261.4	260.1	260.1	260.1	248.6	234.6	241.0	244.8	242.2	241.0	239.7
90°	228.2	229.5	228.2	223.1	212.9	200.2	202.7	207.8	205.3	205.3	204.0
92.5°	205.3	205.3	202.7	197.6	187.4	175.9	177.2	179.8	178.5	177.2	175.9
95°	168.3	168.3	165.7	161.9	153.0	142.8	144.1	146.6	144.1	144.1	142.8
97.5°	131.3	131.3	130.0	127.5	119.8	112.2	113.5	114.7	113.5	113.5	112.2
100°	99.4	99.4	98.2	94.3	90.5	84.1	85.4	88.0	86.7	86.7	85.4
102.5°	73.9	73.9	72.7	71.4	66.3	62.5	63.7	63.7	63.7	62.5	62.5
105°	57.4	57.4	57.4	54.8	52.3	48.4	48.4	48.4	48.4	47.2	47.2
107.5°	45.9	44.6	44.6	43.3	40.8	38.2	38.2	38.2	38.2	38.2	38.2
110°	37.0	35.7	34.4	34.4	31.9	30.6	29.3	30.6	30.6	30.6	30.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	31.9	30.6	28.0	28.0	26.8	24.2	24.2	24.2	26.8	25.5	25.5
115°	28.0	26.8	22.9	22.9	21.7	20.4	20.4	20.4	22.9	20.4	20.4
117.5°	24.2	22.9	19.1	19.1	17.8	16.6	16.6	16.6	19.1	16.6	16.6
120°	17.8	17.8	15.3	15.3	15.3	14.0	14.0	14.0	15.3	14.0	14.0
122.5°	14.0	14.0	12.7	12.7	12.7	11.5	11.5	11.5	11.5	10.2	10.2
125°	14.0	16.6	10.2	10.2	8.9	8.9	8.9	7.6	8.9	7.6	7.6
127.5°	15.3	14.0	7.6	7.6	7.6	6.4	6.4	6.4	6.4	6.4	6.4
130°	5.1	7.6	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8
132.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5
135°	2.5	2.5	2.5	2.5	2.5	2.5	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)