

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: P588545

Luminaire Tested: **GAT-CA6-LED-90-727-U-55-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588545  
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-90-727-U-55-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8241.1 lumens  
Efficiency: N/A  
Efficacy: 87.8 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

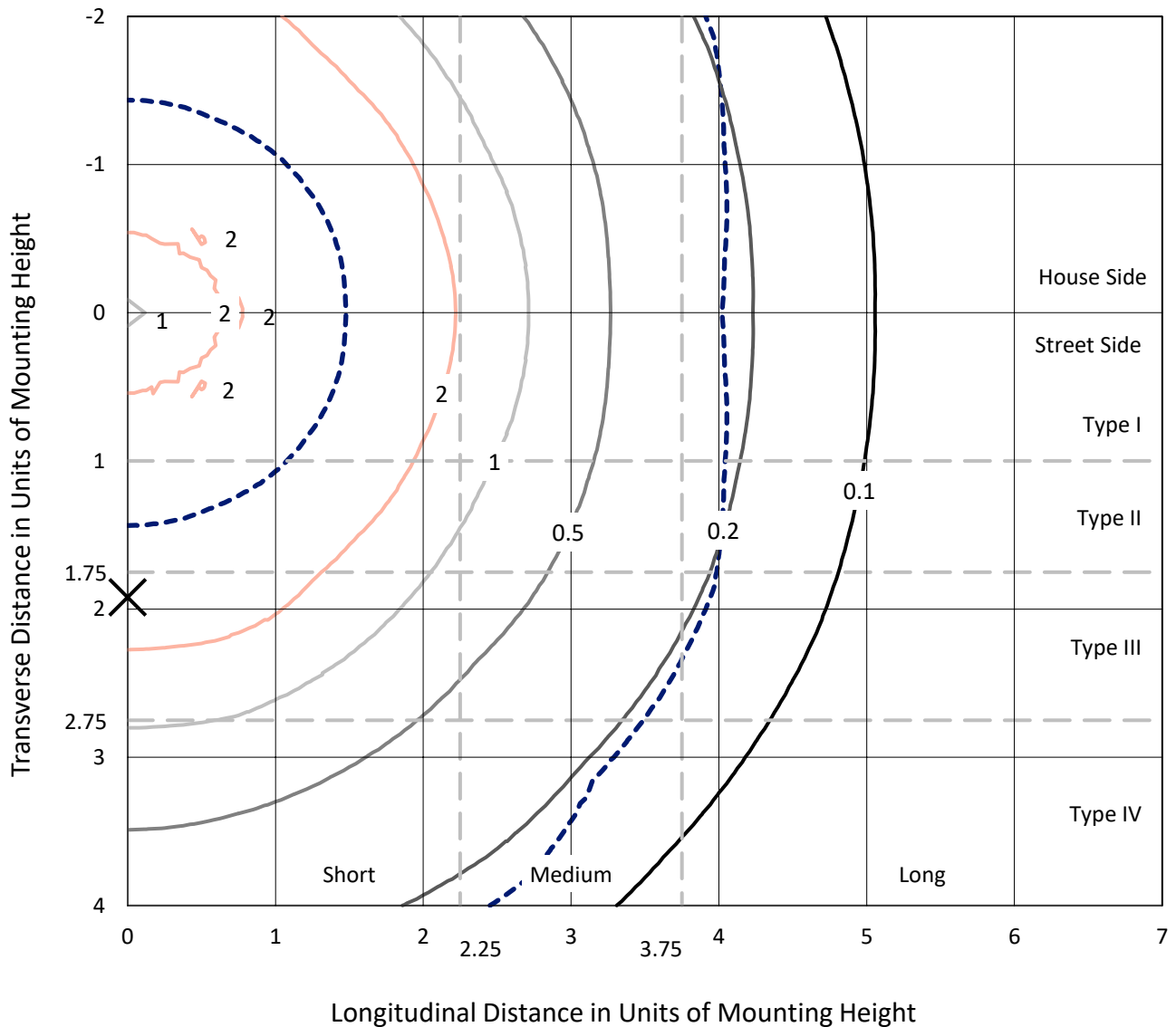
Input Watts (W): 93.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

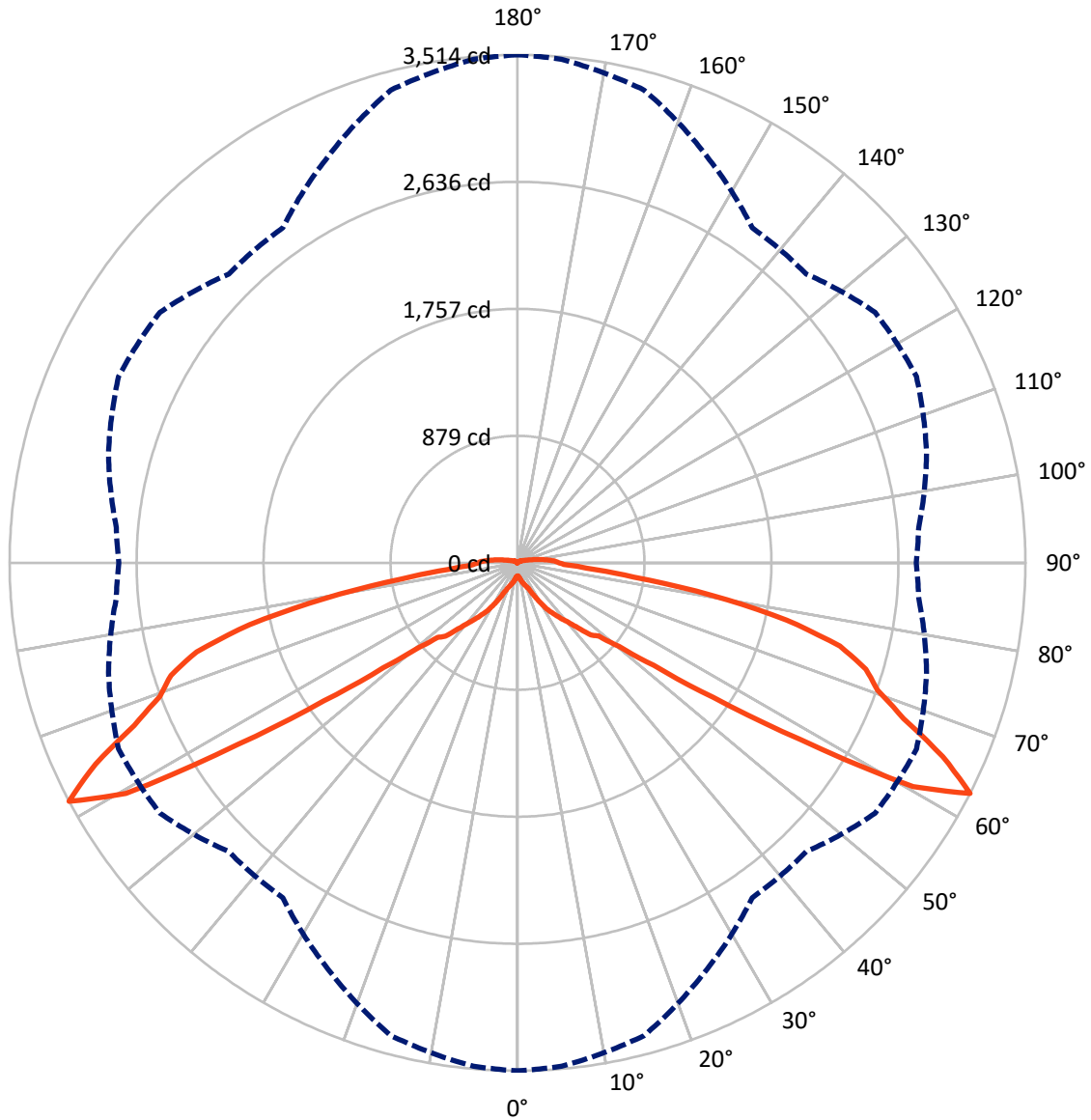
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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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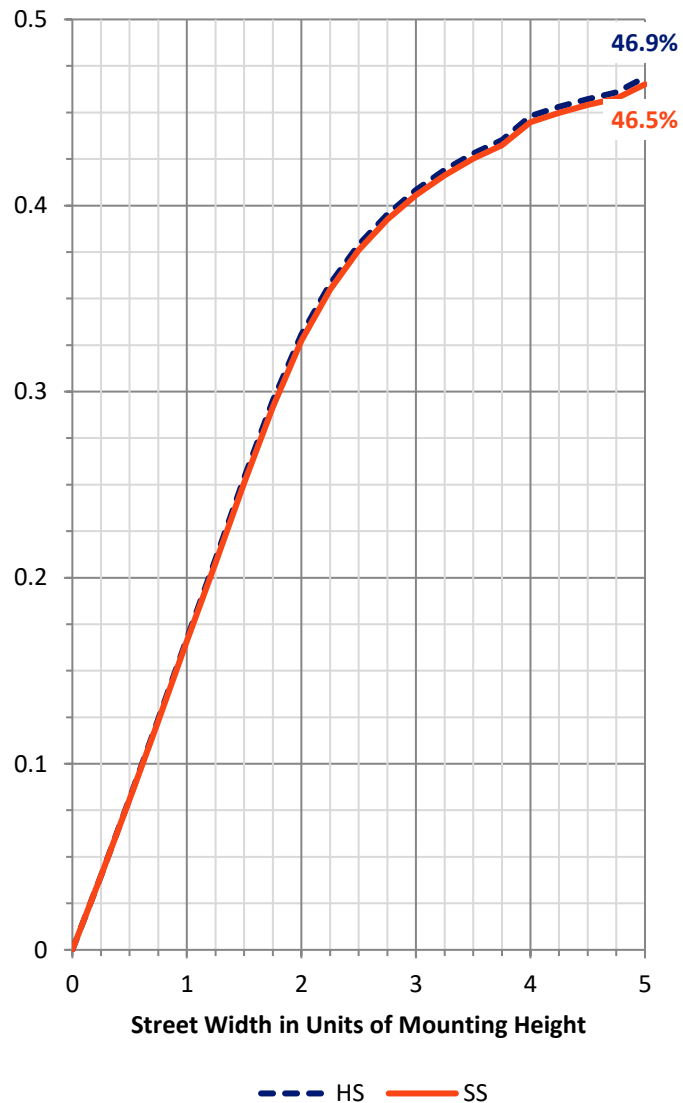
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3962.2	158.4	4120.5
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	3962.2	158.4	4120.5
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	7924.3	316.8	8241.1
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.8	0.1
10°-20°	41.5	0.5
20°-30°	109.6	1.3
30°-40°	249.3	3.0
40°-50°	504.2	6.1
50°-60°	1492.5	18.1
60°-70°	2804.0	34.0
70°-80°	2084.2	25.3
80°-90°	629.2	7.6
90°-100°	204.2	2.5
100°-110°	71.5	0.9
110°-120°	27.7	0.3
120°-130°	11.0	0.1
130°-140°	2.2	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°	7924.3	96.2
0°-180°	8241.1	100.0

**Coefficient of Utilization**



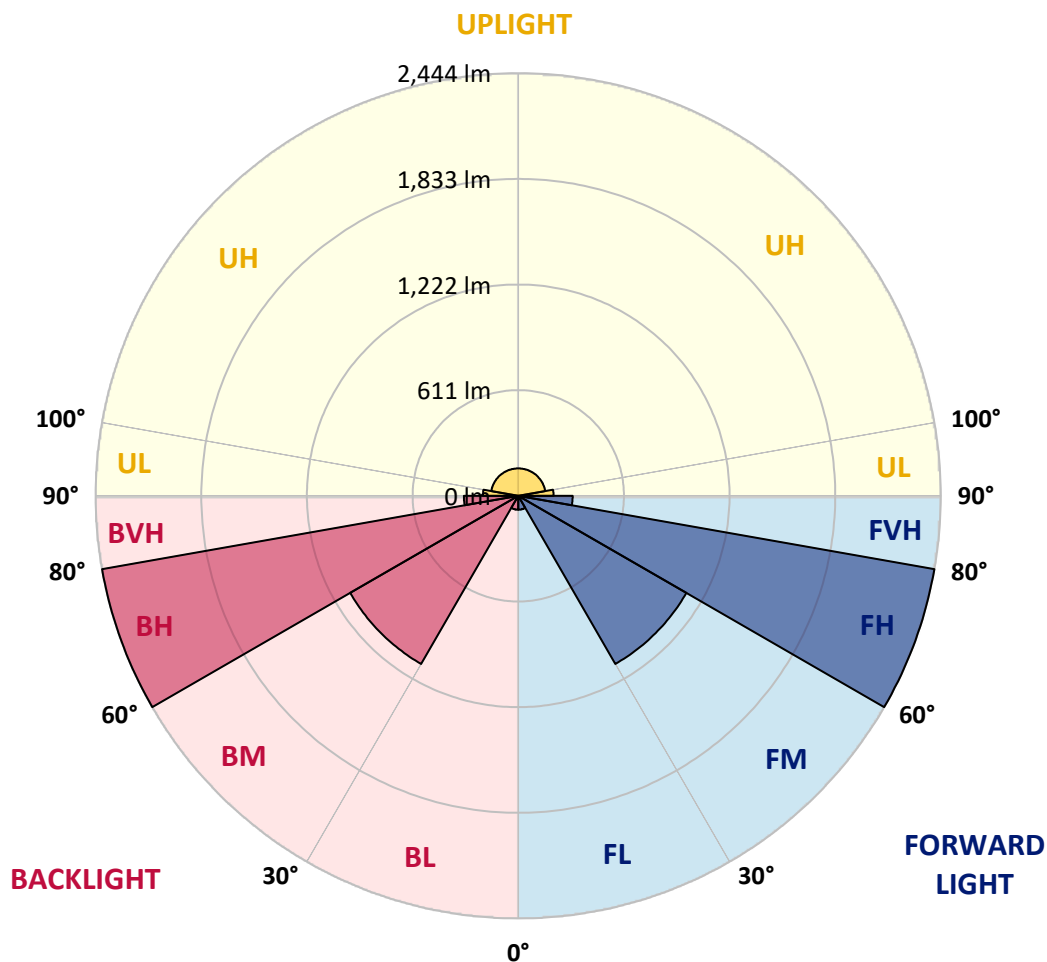
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	80.4	1.0			
FM (30°-60°)	1123.0	13.6			
FH (60°-80°)	2444.1	29.7			G2/5000
FVH (80°-90°)	314.6	3.8			G3/500
BL (0°-30°)	80.4	1.0	B0/110		
BM (30°-60°)	1123.0	13.6	B2/2500		
BH (60°-80°)	2444.1	29.7	B3/2500		G2/5000
BVH (80°-90°)	314.6	3.8			G3/500
UL (90°-100°)	204.2	2.5		U3/500	
UH (100°-180°)	158.4	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°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2.5°	92.2	92.2	92.2	90.6	89.1	89.1	89.1	89.1	87.5	87.5	87.5
5°	96.9	96.9	95.3	93.8	93.8	92.2	93.8	92.2	92.2	92.2	93.8
7.5°	107.8	107.8	106.3	106.3	106.3	104.7	104.7	104.7	104.7	103.1	104.7
10°	120.3	120.3	120.3	120.3	120.3	118.8	118.8	117.2	117.2	117.2	117.2
12.5°	134.4	132.8	132.8	134.4	132.8	131.3	131.3	131.3	129.7	129.7	129.7
15°	146.9	146.9	145.3	145.3	145.3	143.8	143.8	142.2	142.2	140.6	140.6
17.5°	159.4	159.4	157.8	156.3	156.3	156.3	154.7	154.7	153.1	153.1	153.1
20°	175.0	173.4	171.9	170.3	168.8	168.8	168.8	168.8	167.2	165.6	165.6
22.5°	192.2	190.6	189.1	187.5	187.5	185.9	185.9	184.4	184.4	182.8	181.3
25°	228.1	228.1	221.9	220.3	220.3	221.9	220.3	218.8	215.6	210.9	210.9
27.5°	276.6	278.1	279.7	287.5	285.9	275.0	268.8	265.6	264.1	264.1	265.6
30°	331.3	332.8	337.5	345.3	340.6	326.6	310.9	304.7	309.4	315.6	317.2
32.5°	389.1	389.1	379.7	368.8	357.8	348.4	343.8	340.6	339.1	334.4	334.4
35°	434.4	426.6	396.9	360.9	350.0	356.3	375.0	381.3	357.8	335.9	332.8
37.5°	485.9	484.4	460.9	434.4	414.1	410.9	431.3	437.5	412.5	398.4	396.9
40°	540.6	543.8	548.4	537.5	506.3	496.9	485.9	478.1	478.1	479.7	476.6
42.5°	614.1	618.8	618.8	620.3	595.3	573.4	551.6	539.1	537.5	550.0	554.7
45°	712.5	712.5	701.6	679.7	668.8	653.1	639.1	626.6	620.3	621.9	626.6
47.5°	756.3	759.4	750.0	718.8	711.0	695.3	675.0	670.3	673.5	678.1	679.7
50°	909.4	901.6	837.5	771.9	748.5	764.1	793.8	801.6	771.9	742.2	734.4
52.5°	1178.1	1176.6	1126.6	1078.1	1045.3	1036.0	1076.6	1079.7	1028.1	1006.3	1003.1
55°	1643.8	1626.6	1664.1	1687.5	1618.8	1542.2	1514.1	1475.0	1478.2	1521.9	1523.5
57.5°	2304.7	2314.1	2356.3	2295.4	2190.7	2134.4	2095.4	2021.9	2023.5	2062.5	2065.7
60°	3143.8	3142.2	3007.9	2773.5	2612.6	2623.5	2731.3	2746.9	2579.7	2471.9	2459.4
62.5°	3514.1	3496.9	3386.0	3101.6	2829.7	2825.1	3020.4	3045.4	2929.7	2786.0	2757.9
65°	3234.4	3220.4	3267.3	3170.4	2812.6	2720.4	2779.7	2773.5	2846.9	2912.6	2920.4
67.5°	2879.7	2882.9	2995.4	2965.7	2717.2	2561.0	2486.0	2476.6	2614.1	2767.2	2787.6
70°	2642.2	2642.2	2721.9	2601.6	2482.9	2381.3	2303.2	2254.7	2343.8	2368.8	2367.2
72.5°	2520.4	2509.4	2453.2	2337.5	2246.9	2157.9	2181.3	2145.4	2103.2	2037.5	2031.3
75°	2303.2	2290.7	2212.5	2157.9	2092.2	1981.3	2001.6	1965.7	1895.3	1836.0	1826.6
77.5°	1903.2	1903.2	1853.2	1812.5	1793.8	1698.5	1689.1	1671.9	1601.6	1568.8	1556.3
80°	1362.5	1359.4	1339.1	1325.0	1348.5	1292.2	1267.2	1267.2	1239.1	1209.4	1195.3
82.5°	811.0	800.0	800.0	804.7	790.6	754.7	761.0	796.9	793.8	776.6	764.1
85°	479.7	473.4	468.8	462.5	450.0	425.0	425.0	428.1	431.3	432.8	426.6
87.5°	320.3	318.8	318.8	318.8	304.7	287.5	295.3	300.0	296.9	295.3	293.8
90°	279.7	281.3	279.7	273.4	260.9	245.3	248.4	254.7	251.6	251.6	250.0
92.5°	251.6	251.6	248.4	242.2	229.7	215.6	217.2	220.3	218.8	217.2	215.6
95°	206.3	206.3	203.1	198.4	187.5	175.0	176.6	179.7	176.6	176.6	175.0
97.5°	160.9	160.9	159.4	156.3	146.9	137.5	139.1	140.6	139.1	139.1	137.5
100°	121.9	121.9	120.3	115.6	110.9	103.1	104.7	107.8	106.3	106.3	104.7
102.5°	90.6	90.6	89.1	87.5	81.3	76.6	78.1	78.1	78.1	76.6	76.6
105°	70.3	70.3	70.3	67.2	64.1	59.4	59.4	59.4	59.4	57.8	57.8
107.5°	56.3	54.7	54.7	53.1	50.0	46.9	46.9	46.9	46.9	46.9	46.9
110°	45.3	43.8	42.2	42.2	39.1	37.5	35.9	37.5	37.5	37.5	37.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.1	37.5	34.4	34.4	32.8	29.7	29.7	29.7	32.8	31.3	31.3
115°	34.4	32.8	28.1	28.1	26.6	25.0	25.0	25.0	28.1	25.0	25.0
117.5°	29.7	28.1	23.4	23.4	21.9	20.3	20.3	20.3	23.4	20.3	20.3
120°	21.9	21.9	18.8	18.8	18.8	17.2	17.2	17.2	18.8	17.2	17.2
122.5°	17.2	17.2	15.6	15.6	15.6	14.1	14.1	14.1	14.1	12.5	12.5
125°	17.2	20.3	12.5	12.5	10.9	10.9	10.9	9.4	10.9	9.4	9.4
127.5°	18.8	17.2	9.4	9.4	9.4	7.8	7.8	7.8	7.8	7.8	7.8
130°	6.3	9.4	6.3	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7
132.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1
135°	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6
137.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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	1.6	1.6	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
170°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)