

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: P533505

Luminaire Tested: **GALN-SA9A-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-722-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22735 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 274  
Input Voltage (V): NR  
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



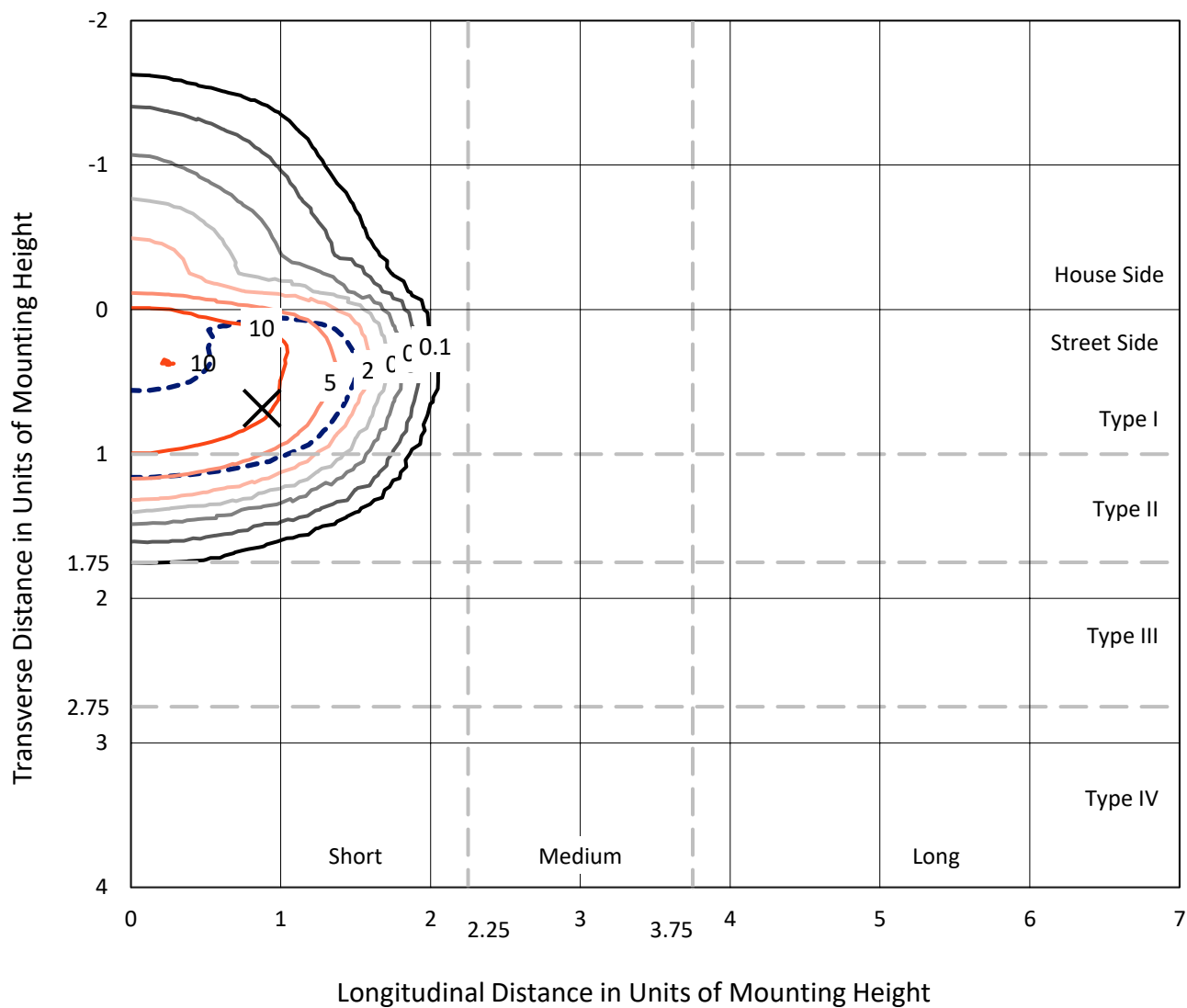
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

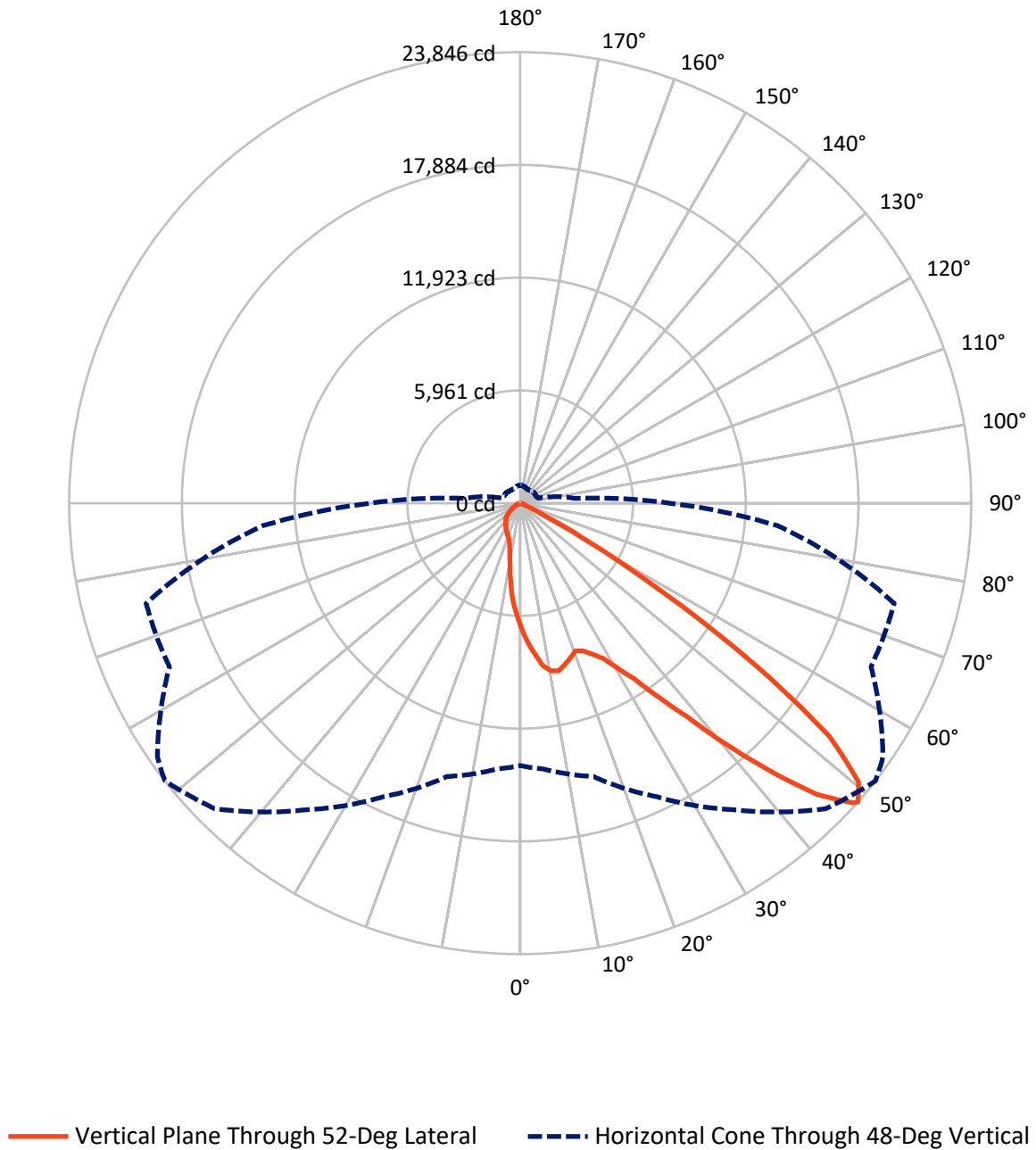


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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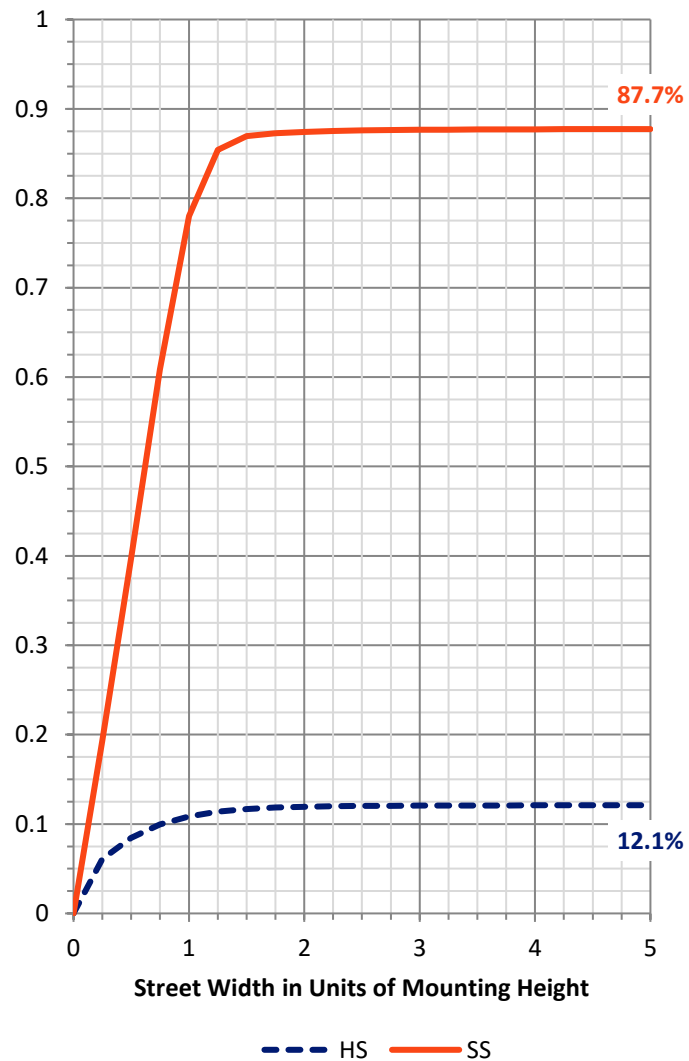
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2768.2	0.0	2768.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	19966.8	0.0	19966.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	22735.0	0.0	22735.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.9	2.6
10°-20°	1570.4	6.9
20°-30°	2681.4	11.8
30°-40°	4937.8	21.7
40°-50°	7668.4	33.7
50°-60°	4615.1	20.3
60°-70°	533.8	2.3
70°-80°	103.3	0.5
80°-90°	23.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22735.0	100.0
0°-180°	22735.0	100.0

**Coefficient of Utilization**



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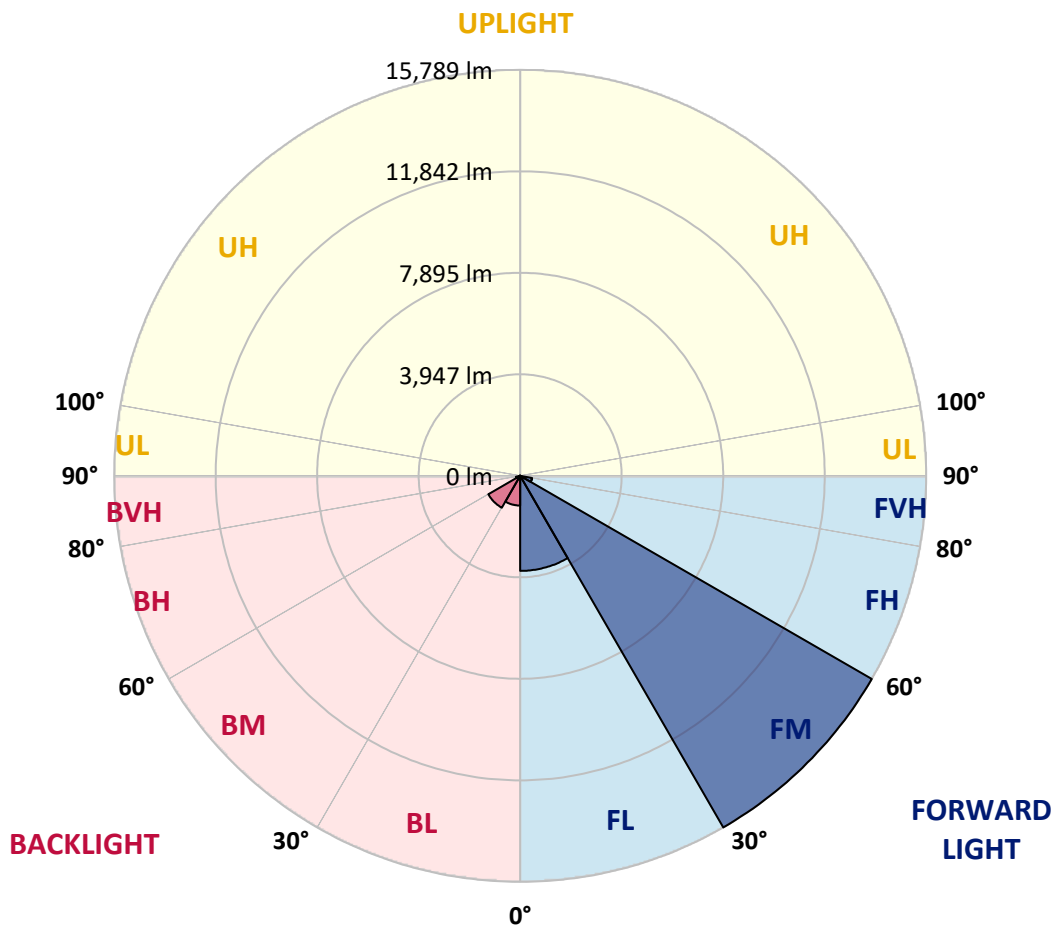
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3696.4	16.3			
FM	(30°-60°)	15789.0	69.4			
FH	(60°-80°)	470.0	2.1			G0/660
FVH	(80°-90°)	11.4	0.0			G1/100
BL	(0°-30°)	1156.4	5.1	B3/2500		
BM	(30°-60°)	1432.2	6.3	B2/2500		
BH	(60°-80°)	167.1	0.7	B1/500		G1/500
BVH	(80°-90°)	12.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5
2.5°	7957.5	7775.2	7791.8	7672.4	7602.8	7490.2	7337.7	7307.9	7142.2	6916.8	6688.1
5°	8673.3	8630.3	8686.6	8514.3	8520.9	8335.3	7977.4	7984.0	7602.8	7235.0	6880.3
7.5°	8719.7	8620.3	8676.7	8829.1	8918.6	8885.5	8683.3	8507.6	8146.4	7606.2	7089.1
10°	7808.3	7997.2	8056.9	8308.8	8666.7	9044.5	9021.3	9031.3	8729.7	8023.8	7268.1
12.5°	7261.5	7135.5	7337.7	7490.2	8030.4	8762.8	9097.6	9170.5	9193.7	8428.1	7447.1
15°	7012.9	7012.9	7046.1	7089.1	7480.2	8156.3	8839.1	9051.2	9551.6	8958.4	7728.8
17.5°	7168.7	7162.1	7208.5	7119.0	7264.8	7785.1	8600.4	8842.4	9952.6	9478.7	7950.8
20°	7642.6	7665.8	7636.0	7377.5	7387.4	7778.5	8335.3	8716.4	10224.4	9929.4	8245.8
22.5°	8302.1	8315.4	8146.4	7864.7	7781.8	7974.0	8487.7	8779.4	10443.1	10469.7	8335.3
25°	9064.4	9011.4	8978.3	8580.5	8328.7	8494.4	8832.4	9001.4	10579.0	10933.6	8590.5
27.5°	10121.7	10015.6	9813.4	9458.8	9273.2	9037.9	9279.8	9558.2	10966.8	11583.2	8868.9
30°	11682.7	11589.9	11195.5	10738.1	10250.9	10018.9	10095.1	10247.6	11666.1	12335.6	9236.8
32.5°	14032.5	13836.9	13266.9	12395.2	11732.4	11092.7	11072.8	11235.2	12292.5	13376.2	9674.2
35°	16620.9	16561.2	15722.7	14824.6	13541.9	12554.3	12570.9	12657.0	13492.2	14741.7	10247.6
37.5°	18341.0	18669.1	18135.5	17171.0	16093.9	14682.0	14324.1	14353.9	15139.4	16359.0	11281.6
40°	19670.0	19391.6	19454.5	19229.2	18493.4	17532.3	16740.2	16584.4	17045.1	18148.7	12309.1
42.5°	19090.0	19103.2	19491.0	20024.6	20206.9	20137.3	19328.6	19033.6	18675.7	19613.6	13286.7
45°	17452.7	17794.1	18297.9	19709.7	20949.3	22112.5	21953.5	21463.0	19802.5	20773.6	13850.2
47.5°	14841.1	14827.9	15653.1	17489.2	20243.3	22967.6	23690.1	23345.4	20601.3	20644.3	13734.2
48°	13876.7	14115.3	14967.1	17127.9	19795.9	22841.7	23845.9	23411.7	20465.4	20472.0	13634.7
50°	10257.5	10214.5	11275.0	13926.4	17681.4	21463.0	23189.7	23527.7	20462.1	19600.4	12938.8
52.5°	5418.8	5604.4	6376.6	8756.2	12501.3	17565.4	20455.4	20982.4	19739.6	18175.2	11937.9
55°	2303.4	2081.3	2674.6	3953.9	7032.8	11735.7	15006.8	16180.1	16690.5	16084.0	10443.1
57.5°	821.9	898.2	1034.0	1488.1	2956.3	6423.0	8948.4	9859.8	11563.3	11802.0	7115.7
60°	527.0	536.9	580.0	682.7	1110.3	2475.7	4245.5	4971.3	5743.6	5929.2	3320.9
62.5°	407.7	411.0	430.8	447.4	527.0	961.1	1594.1	1889.1	1962.0	1686.9	871.6
65°	341.4	344.7	351.3	351.3	374.5	450.7	556.8	613.1	596.6	589.9	493.8
67.5°	261.8	268.5	281.7	281.7	295.0	275.1	308.2	328.1	371.2	450.7	420.9
70°	205.5	208.8	218.7	225.4	225.4	198.9	222.1	241.9	271.8	334.7	331.4
72.5°	159.1	165.7	172.3	172.3	162.4	135.9	159.1	175.7	195.5	232.0	225.4
75°	122.6	122.6	125.9	102.7	79.5	69.6	96.1	116.0	145.8	152.5	125.9
77.5°	33.1	36.5	33.1	29.8	33.1	49.7	63.0	72.9	92.8	92.8	82.9
80°	0.0	3.3	9.9	19.9	33.1	46.4	56.3	63.0	72.9	79.5	76.2
82.5°	0.0	3.3	9.9	19.9	29.8	36.5	49.7	53.0	59.7	69.6	69.6
85°	0.0	3.3	6.6	13.3	19.9	23.2	23.2	19.9	19.9	16.6	13.3
87.5°	0.0	0.0	3.3	6.6	6.6	9.9	9.9	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5	6565.5
2.5°	6598.6	6495.9	6340.1	6094.9	5859.6	5707.1	5561.3	5398.9	5309.4	5302.8	5253.1
5°	6678.2	6446.2	6075.0	5654.1	5203.3	4815.6	4424.5	4169.3	3940.6	3814.7	3791.5
7.5°	6721.3	6419.7	5819.8	5113.9	4345.0	3711.9	3274.5	2953.0	2827.0	2734.2	2730.9
10°	6810.7	6373.3	5438.7	4398.0	3446.8	2807.2	2505.6	2359.7	2290.1	2263.6	2223.8
12.5°	6877.0	6287.1	5047.6	3662.2	2724.3	2326.6	2194.0	2160.9	2164.2	2177.4	2160.9
15°	6969.8	6210.9	4520.6	3006.0	2286.8	2094.6	2094.6	2101.2	2147.6	2154.2	2150.9
17.5°	6963.2	6061.7	3977.1	2475.7	2021.7	1995.2	2005.1	2068.1	2097.9	2107.9	2084.7
20°	7042.7	5922.5	3417.0	2114.5	1872.5	1912.3	1978.6	1995.2	2031.6	2038.3	2011.7
22.5°	7019.5	5574.5	2896.6	1829.5	1759.9	1836.1	1902.4	1922.3	1912.3	1892.4	1889.1
25°	6976.5	5276.3	2419.4	1640.5	1677.0	1759.9	1822.8	1786.4	1766.5	1769.8	1773.1
27.5°	6900.2	4898.4	2025.0	1508.0	1564.3	1686.9	1683.6	1670.4	1690.3	1673.7	1690.3
30°	6887.0	4520.6	1700.2	1388.7	1481.5	1570.9	1577.6	1600.8	1624.0	1594.1	1624.0
32.5°	6906.9	4106.3	1468.2	1315.7	1431.7	1435.1	1508.0	1531.2	1514.6	1448.3	1454.9
35°	7059.3	3788.2	1299.2	1276.0	1352.2	1355.5	1425.1	1395.3	1322.4	1282.6	1305.8
37.5°	7380.8	3523.0	1219.6	1239.5	1246.2	1289.2	1292.5	1232.9	1239.5	1236.2	1249.5
40°	7791.8	3320.9	1163.3	1206.4	1199.8	1229.6	1110.3	1143.4	1173.2	1183.2	1189.8
42.5°	8073.5	3175.0	1126.8	1153.4	1140.1	1087.1	1020.8	1053.9	1077.1	1113.6	1120.2
45°	8199.4	3059.0	1083.8	1060.6	1060.6	964.4	937.9	944.6	997.6	1037.4	1030.7
47.5°	7993.9	2946.4	1007.5	937.9	961.1	881.6	851.8	851.8	908.1	957.8	947.9
48°	7914.4	2900.0	1010.8	911.4	928.0	868.3	838.5	831.9	894.8	941.2	941.2
50°	7520.0	2727.6	924.7	838.5	805.4	798.7	778.8	785.5	825.2	868.3	868.3
52.5°	6751.1	2356.4	782.2	719.2	659.5	699.3	709.2	696.0	715.9	755.6	752.3
55°	5634.2	1809.6	626.4	596.6	550.2	593.2	613.1	596.6	576.7	606.5	606.5
57.5°	3609.2	974.4	500.4	507.1	460.7	503.8	520.3	480.6	444.1	467.3	464.0
60°	1627.3	583.3	411.0	401.0	371.2	420.9	447.4	401.0	351.3	367.9	384.5
62.5°	609.8	414.3	311.5	304.9	298.3	344.7	357.9	321.5	271.8	281.7	285.0
65°	447.4	364.6	248.6	225.4	238.6	271.8	265.1	228.7	195.5	195.5	202.2
67.5°	381.1	318.2	202.2	175.7	175.7	179.0	165.7	145.8	135.9	142.5	149.1
70°	298.3	251.9	159.1	135.9	122.6	109.4	96.1	92.8	82.9	92.8	89.5
72.5°	192.2	169.0	122.6	102.7	92.8	76.2	63.0	59.7	49.7	46.4	46.4
75°	102.7	102.7	96.1	82.9	72.9	59.7	49.7	39.8	26.5	19.9	19.9
77.5°	72.9	79.5	86.2	79.5	66.3	49.7	39.8	26.5	13.3	6.6	6.6
80°	69.6	79.5	86.2	76.2	66.3	49.7	36.5	19.9	9.9	3.3	3.3
82.5°	63.0	72.9	79.5	69.6	59.7	43.1	33.1	19.9	9.9	3.3	3.3
85°	13.3	16.6	19.9	19.9	23.2	29.8	23.2	16.6	6.6	3.3	3.3
87.5°	9.9	9.9	9.9	9.9	9.9	9.9	6.6	6.6	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)