

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: P456014

Luminaire Tested: **GALN-SA7B-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33919 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

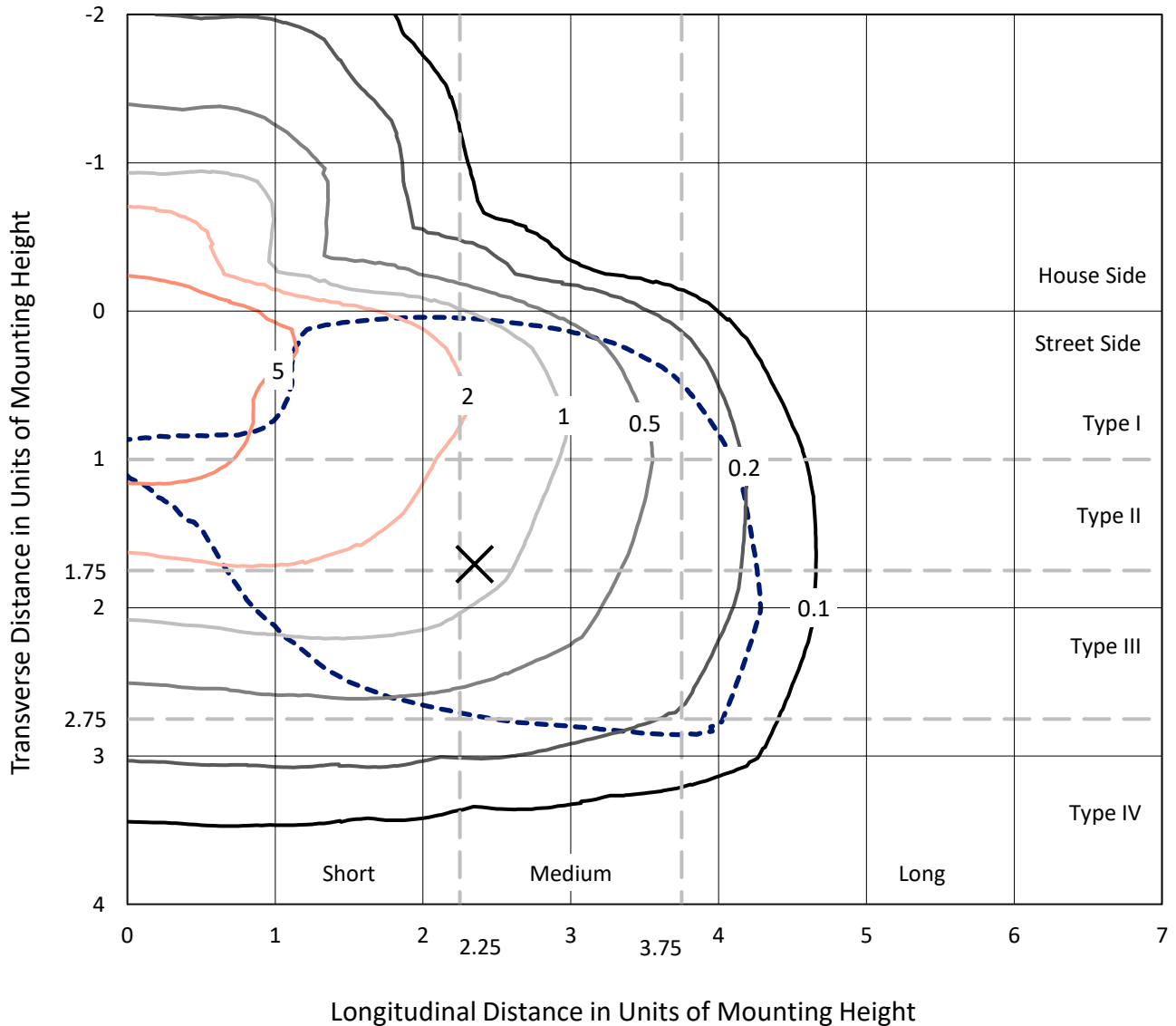
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

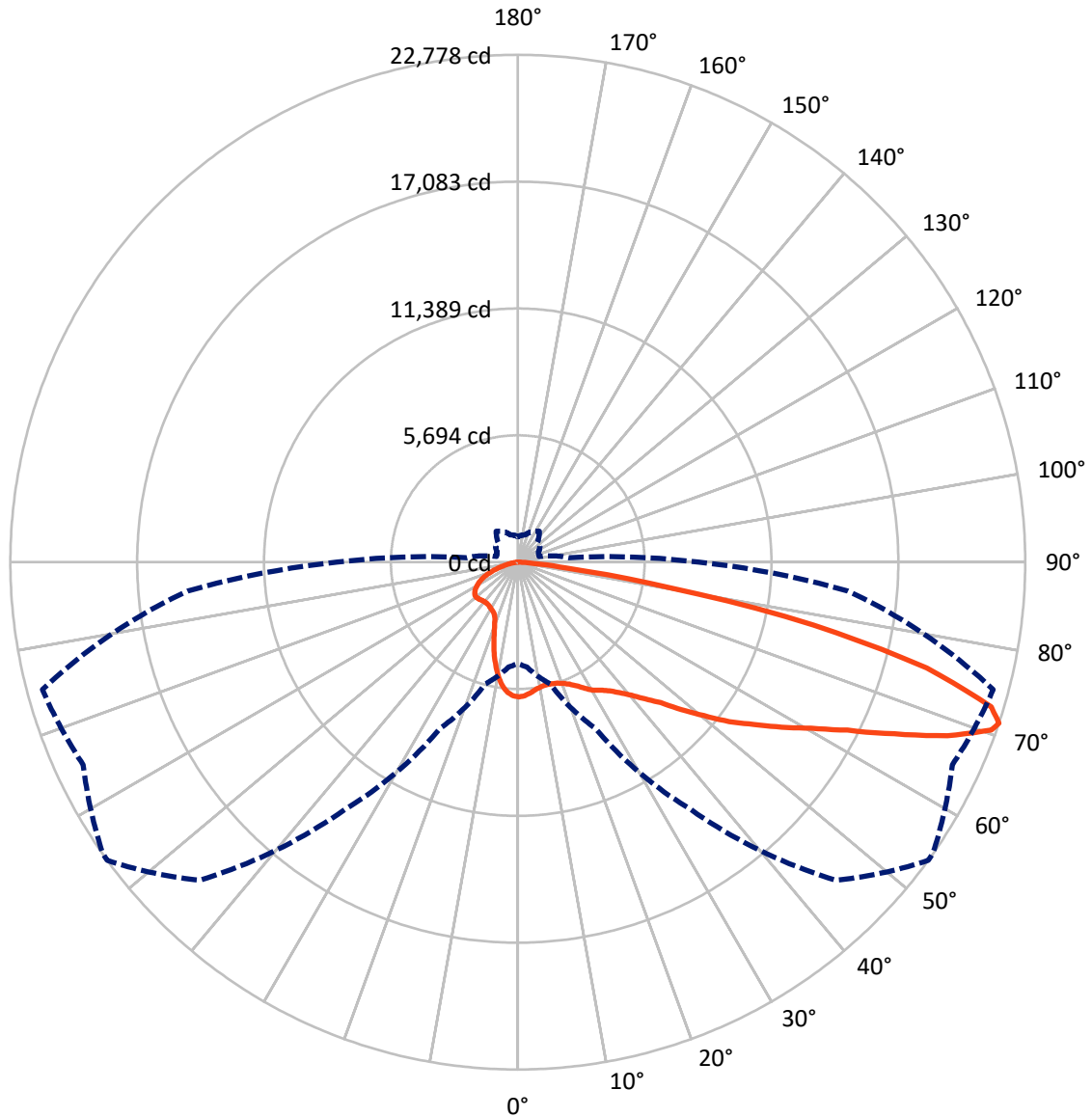
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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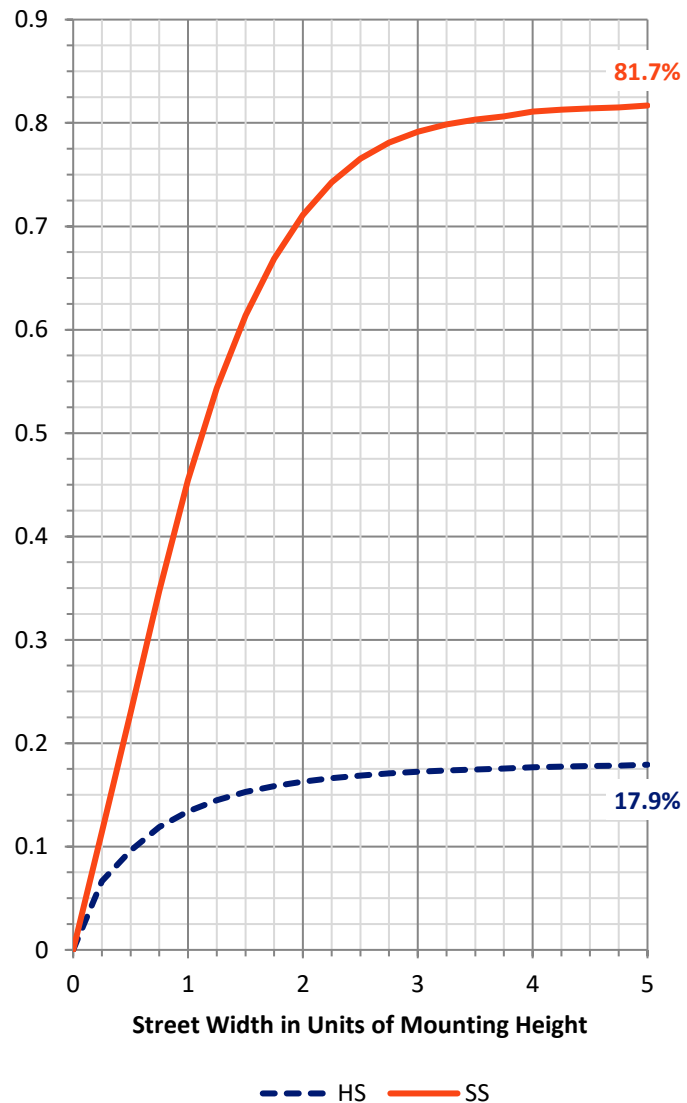
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6123.9	0.0	6123.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27795.1	0.0	27795.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33919.0	0.0	33919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.3	1.6
10°-20°	1424.0	4.2
20°-30°	2371.0	7.0
30°-40°	3506.0	10.3
40°-50°	4938.3	14.6
50°-60°	6612.6	19.5
60°-70°	8334.6	24.6
70°-80°	5692.5	16.8
80°-90°	500.6	1.5
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°	33919.0	100.0
0°-180°	33919.0	100.0

**Coefficient of Utilization**



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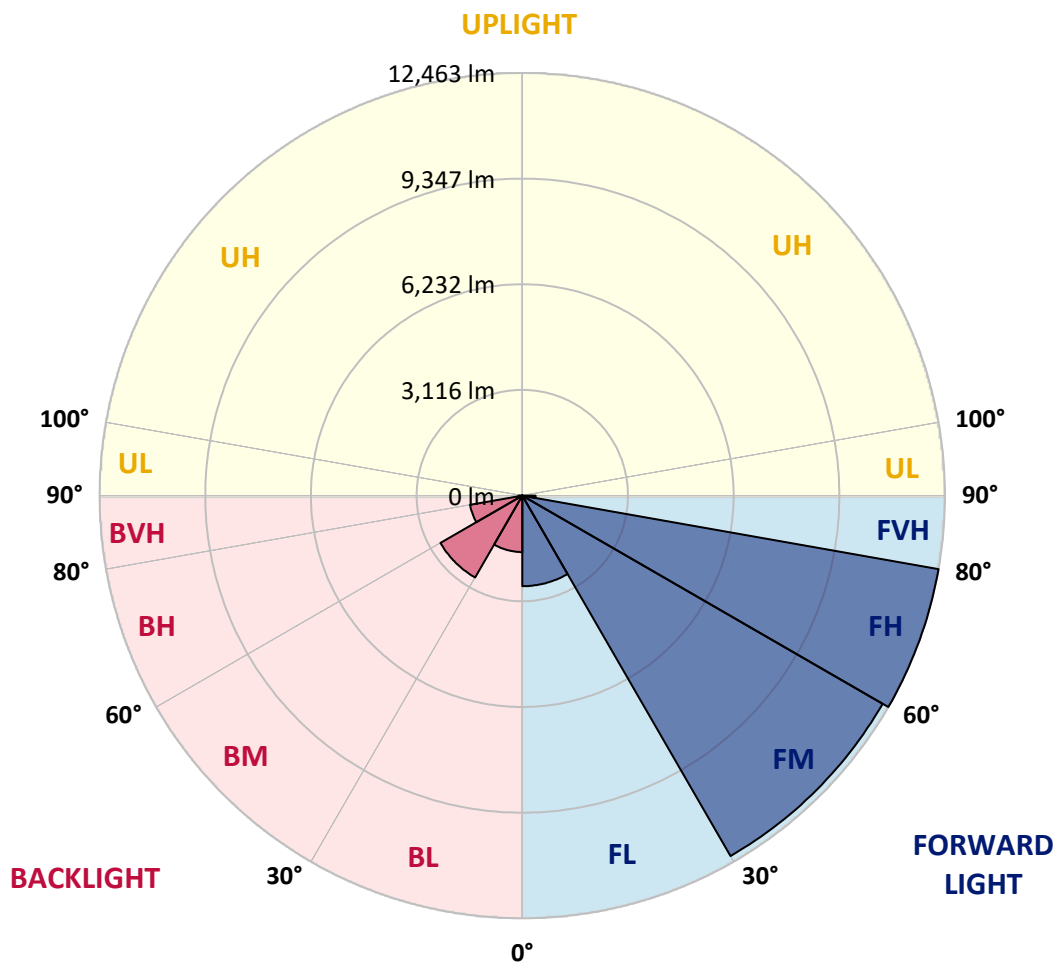
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2670.0	7.9			
FM	(30°-60°)	12270.7	36.2			
FH	(60°-80°)	12463.2	36.7			G5
FVH	(80°-90°)	391.3	1.2			G3/500
BL	(0°-30°)	1664.4	4.9	B3/2500		
BM	(30°-60°)	2786.2	8.2	B3/5000		
BH	(60°-80°)	1564.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	109.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7
2.5°	5846.4	5873.9	5881.3	5899.6	5938.1	5969.2	6000.4	5996.7	6040.7	6059.0	6075.5
5°	5586.3	5593.6	5621.1	5657.7	5725.5	5811.6	5895.9	5897.7	6005.8	6092.0	6134.1
7.5°	5395.7	5419.6	5437.9	5476.4	5547.8	5641.2	5775.0	5786.0	5978.4	6148.8	6238.5
10°	5271.1	5298.6	5318.8	5366.4	5437.9	5542.3	5687.1	5707.2	5958.2	6238.5	6396.1
12.5°	5157.6	5185.0	5203.4	5265.7	5359.1	5487.3	5650.4	5674.2	5965.5	6343.0	6568.3
15°	5227.2	5249.2	5241.8	5260.2	5322.4	5469.0	5665.1	5688.9	5993.0	6443.7	6738.7
17.5°	5536.8	5555.1	5494.7	5425.1	5395.7	5503.8	5710.9	5736.5	6048.0	6548.2	6912.8
20°	5993.0	6042.5	5910.6	5754.8	5613.8	5628.4	5806.1	5833.6	6124.9	6652.6	7090.5
22.5°	6586.6	6623.3	6462.1	6205.6	5945.4	5811.6	5949.1	5965.5	6240.4	6788.2	7284.7
25°	7284.7	7306.7	7083.2	6753.4	6377.8	6124.9	6145.1	6174.4	6430.9	6942.1	7456.9
27.5°	7962.6	8032.2	7773.9	7370.8	6876.1	6454.7	6414.4	6432.7	6637.9	7028.2	7576.0
30°	8766.9	8761.4	8488.4	8021.2	7387.3	6813.8	6669.1	6665.4	6749.7	7070.3	7662.1
32.5°	9408.2	9483.3	9215.8	8706.5	7971.8	7185.8	6845.0	6837.7	6835.8	7143.6	7790.4
35°	10137.4	10148.4	9902.9	9389.9	8603.9	7653.0	7090.5	7053.8	7011.7	7301.2	7964.4
37.5°	10789.6	10840.9	10615.6	10040.3	9225.0	8138.5	7427.6	7403.8	7275.5	7574.2	8242.9
40°	11299.0	11337.5	11201.9	10654.1	9836.9	8662.5	7856.3	7812.4	7656.6	8021.2	8614.9
42.5°	11465.7	11544.5	11597.6	11328.3	10540.5	9283.6	8384.0	8329.0	8209.9	8699.1	9043.6
45°	11478.5	11603.1	11883.4	11896.3	11247.7	10027.5	8999.6	8961.1	8952.0	9567.6	9646.4
47.5°	11381.4	11507.8	11978.7	12233.4	11877.9	10778.6	9888.2	9827.8	9833.2	10641.2	10322.4
50°	11146.9	11297.1	11868.8	12449.6	12370.8	11559.1	10826.3	10806.1	10919.7	11867.0	11024.2
52.5°	10705.4	10886.7	11755.2	12585.2	12737.2	12231.6	11892.6	11835.8	12123.5	13197.1	11791.8
55°	9483.3	9756.3	11339.3	12660.3	13085.3	12874.6	12852.7	12955.3	13336.4	14648.2	12636.5
57.5°	8845.7	9050.9	10436.0	12673.1	13525.1	13622.2	13973.9	13999.6	14666.5	16189.0	13591.0
60°	8497.6	8679.0	9941.3	12588.8	14138.8	14547.4	15120.9	15212.5	15965.5	17858.1	14580.4
62.5°	8193.5	8349.2	9644.5	12297.5	14831.4	15919.7	16606.8	16650.7	17440.4	19701.3	15556.9
65°	7477.1	7654.8	9047.2	12006.2	15428.7	17634.6	18578.2	18526.9	19010.6	21291.6	16168.9
67.5°	6511.5	6736.9	7931.5	11000.3	15723.7	19508.9	20798.8	20734.6	20560.6	22334.1	16344.8
70°	5278.5	5399.4	6504.2	9261.6	14545.6	20492.8	22552.2	22484.4	21520.6	22471.5	15513.0
71°	4541.9	4730.7	5663.2	8226.4	13565.4	20192.3	22777.5	22759.2	21522.5	22092.3	14886.4
72.5°	3545.2	3660.7	4485.1	6374.1	11529.8	18484.7	22220.5	22290.2	21055.3	21038.8	13594.7
75°	2242.6	2293.9	2814.2	3752.3	6326.5	13090.8	18968.4	19157.2	18695.4	17220.5	10109.9
77.5°	1302.7	1368.6	1685.6	2211.4	2733.6	7105.1	13572.7	13777.9	12990.1	9481.5	4138.9
80°	758.5	831.8	1110.3	1284.3	1255.0	2636.5	6910.9	7260.9	5624.8	2394.6	1161.6
82.5°	421.4	470.9	780.5	782.3	668.7	861.1	2174.8	2275.6	1605.0	965.6	474.5
85°	306.0	346.3	503.8	456.2	320.6	370.1	756.7	793.3	648.6	406.7	153.9
87.5°	108.1	153.9	276.7	219.9	87.9	77.0	218.0	177.7	164.9	113.6	34.8
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°	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7
2.5°	6084.6	6088.3	6070.0	6037.0	6004.0	5961.9	5914.2	5877.6	5861.1	5859.3	5857.4
5°	6150.6	6159.7	6090.1	5987.5	5873.9	5734.7	5615.6	5480.0	5445.2	5390.2	5406.7
7.5°	6256.9	6251.4	6113.9	5895.9	5630.3	5335.3	5086.1	4941.4	4791.1	4749.0	4750.8
10°	6408.9	6374.1	6113.9	5709.0	5265.7	4827.8	4479.7	4259.8	4140.7	4041.8	4005.1
12.5°	6570.2	6482.2	6055.3	5447.0	4796.6	4259.8	3886.0	3589.2	3512.3	3431.7	3433.5
15°	6724.1	6577.5	5939.9	5078.8	4290.9	3653.3	3290.6	3112.9	3089.0	3098.2	3096.4
17.5°	6863.3	6645.3	5764.0	4668.4	3701.0	3133.0	2940.6	2953.5	3017.6	3063.4	3068.9
20°	7004.4	6685.6	5502.0	4118.7	3144.0	2817.9	2825.2	2926.0	3023.1	3085.4	3094.5
22.5°	7138.1	6703.9	5194.2	3587.4	2740.9	2684.1	2792.2	2900.3	2995.6	3056.1	3065.2
25°	7226.1	6661.8	4758.1	3032.2	2543.0	2636.5	2750.1	2841.7	2922.3	2984.6	2999.3
27.5°	7249.9	6526.2	4217.7	2583.4	2451.4	2590.7	2695.1	2762.9	2825.2	2883.8	2894.8
30°	7237.1	6326.5	3624.0	2319.5	2398.3	2537.6	2618.2	2667.6	2742.8	2788.6	2797.7
32.5°	7216.9	6093.8	3004.8	2178.4	2354.3	2488.1	2535.7	2579.7	2577.9	2559.5	2572.4
35°	7224.2	5815.3	2502.7	2094.2	2315.9	2451.4	2491.7	2436.8	2279.2	2271.9	2264.6
37.5°	7262.7	5540.5	2138.1	2035.5	2295.7	2445.9	2467.9	2215.1	2075.8	2011.7	1995.2
40°	7361.7	5219.8	1898.1	1991.6	2293.9	2488.1	2359.8	2103.3	1835.8	1711.2	1702.1
42.5°	7493.6	4904.7	1751.6	1964.1	2315.9	2552.2	2315.9	1945.8	1654.4	1581.2	1570.2
45°	7689.6	4543.8	1670.9	1951.3	2348.8	2576.0	2301.2	1830.3	1581.2	1522.5	1522.5
47.5°	7911.3	4199.3	1627.0	1942.1	2391.0	2559.5	2171.1	1793.7	1546.4	1553.7	1588.5
50°	8131.2	3900.7	1594.0	1921.9	2427.6	2550.4	2118.0	1791.9	1555.5	1649.0	1711.2
52.5°	8385.8	3690.0	1553.7	1889.0	2427.6	2491.7	2101.5	1828.5	1581.2	1608.6	1636.1
55°	8693.6	3624.0	1502.4	1817.5	2383.7	2345.2	2092.3	1881.6	1599.5	1535.4	1546.4
57.5°	9100.4	3730.3	1452.9	1727.7	2282.9	2193.1	2088.7	1896.3	1557.3	1504.2	1493.2
60°	9573.1	3941.0	1438.3	1636.1	2145.5	2063.0	2066.7	1854.2	1498.7	1443.7	1452.9
62.5°	9904.7	4067.4	1429.1	1566.5	1995.2	1920.1	2013.6	1802.9	1473.1	1425.4	1434.6
65°	9904.7	3913.5	1344.8	1460.2	1801.0	1747.9	1949.4	1738.7	1440.1	1385.1	1376.0
67.5°	9529.1	3464.6	1216.6	1300.8	1586.7	1551.8	1859.7	1661.8	1390.6	1348.5	1326.5
70°	8550.7	2627.3	1055.3	1114.0	1315.5	1346.6	1744.2	1557.3	1308.2	1256.9	1223.9
71°	8120.2	2288.4	987.5	1018.7	1211.1	1256.9	1689.3	1513.4	1271.5	1198.2	1139.6
72.5°	7290.2	1927.4	884.9	897.8	1035.2	1117.6	1573.8	1429.1	1201.9	1097.5	1031.5
75°	5538.6	1407.1	712.7	705.4	765.8	886.8	1332.0	1273.4	1053.5	912.4	873.9
77.5°	2392.8	765.8	533.2	538.7	520.3	672.4	1048.0	1093.8	903.3	742.0	707.2
80°	725.5	441.6	364.6	371.9	348.1	450.7	738.4	857.5	725.5	577.1	529.5
82.5°	371.9	263.8	249.2	245.5	221.7	254.7	447.0	586.3	518.5	360.9	318.8
85°	161.2	141.1	122.8	119.1	104.4	91.6	159.4	293.1	274.8	201.5	192.4
87.5°	40.3	36.6	23.8	22.0	12.8	1.8	0.0	0.0	0.0	0.0	0.0
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)