

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: P456374

Luminaire Tested: **GALN-SA7C-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35932 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

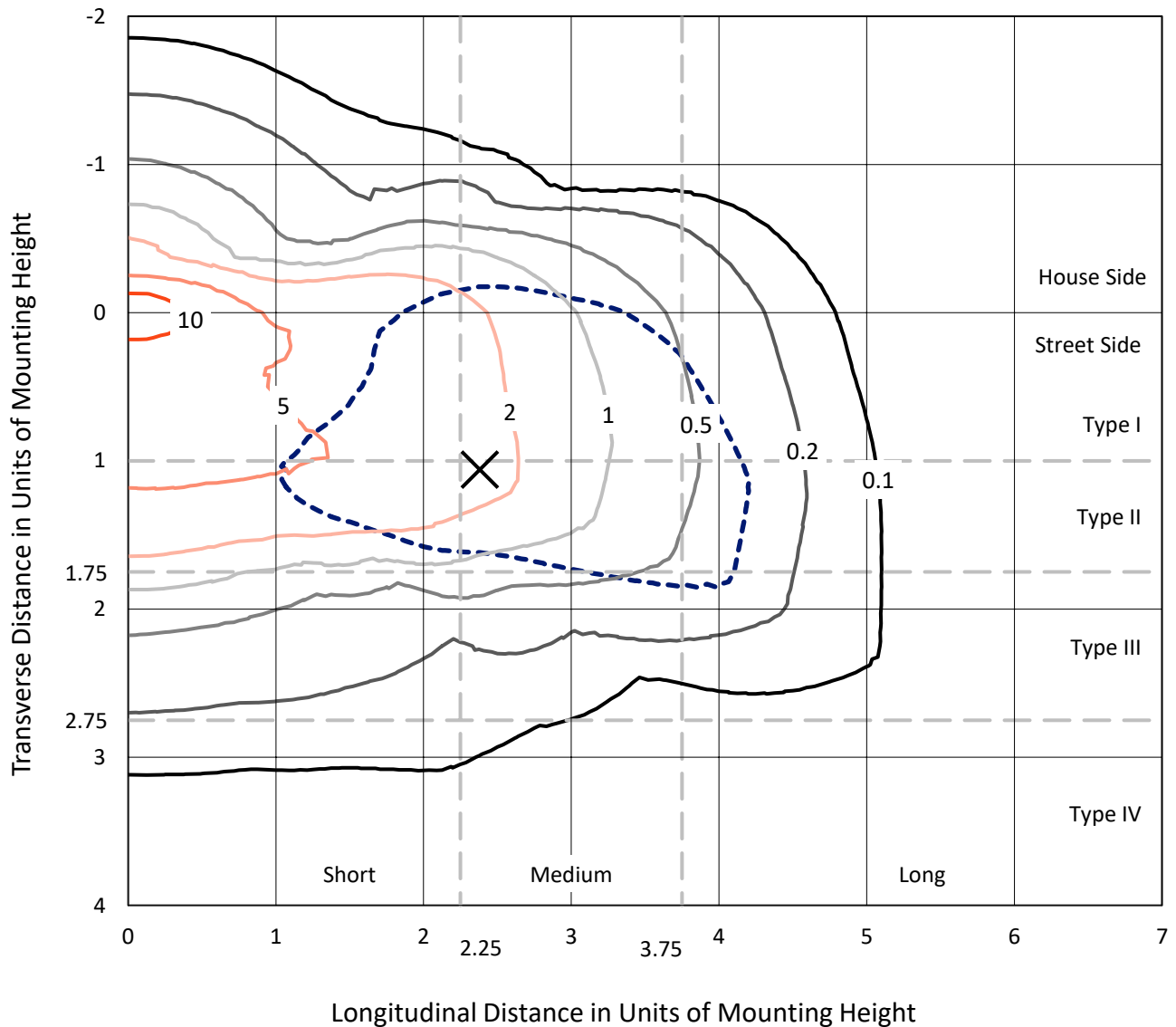
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

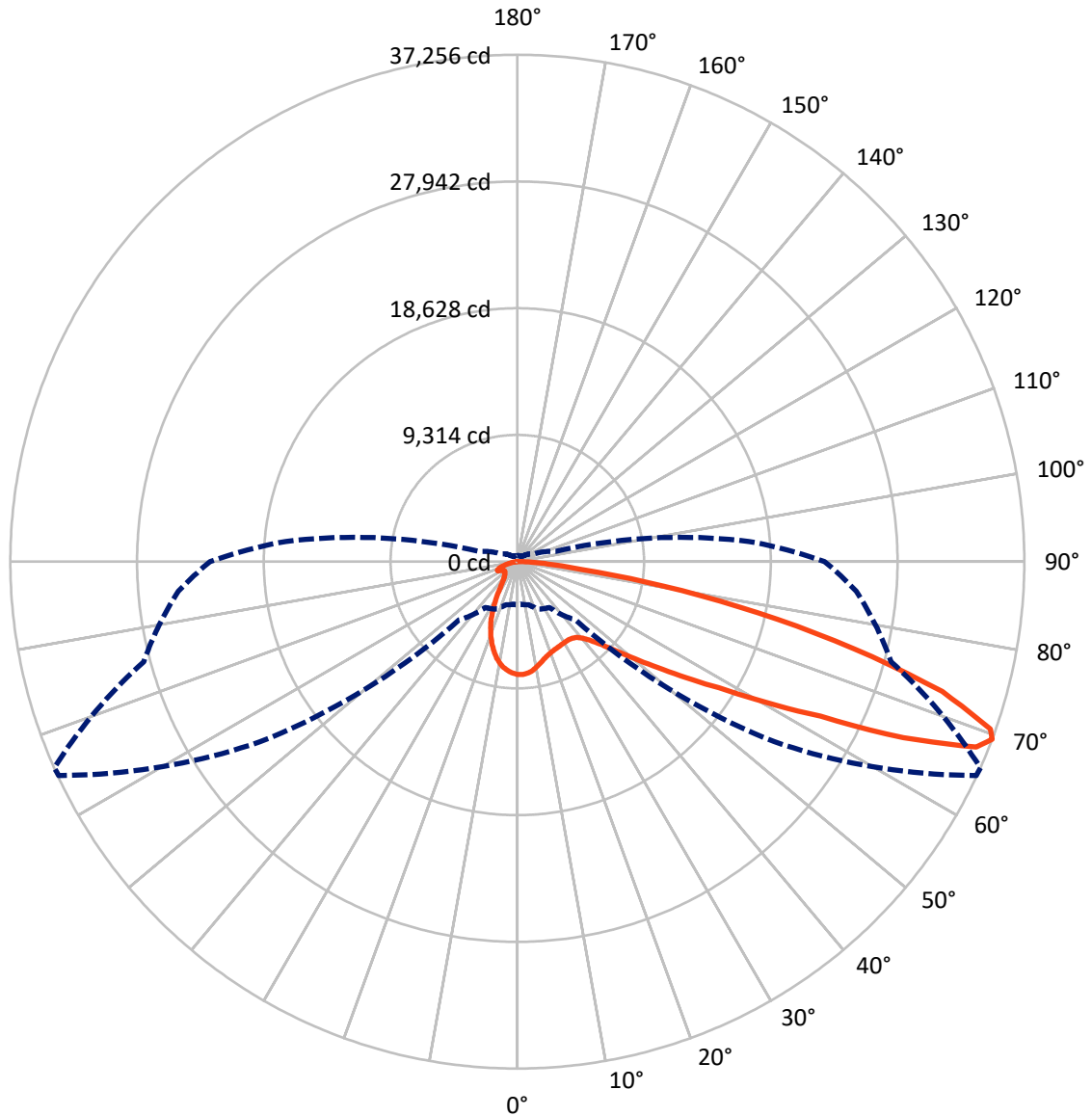
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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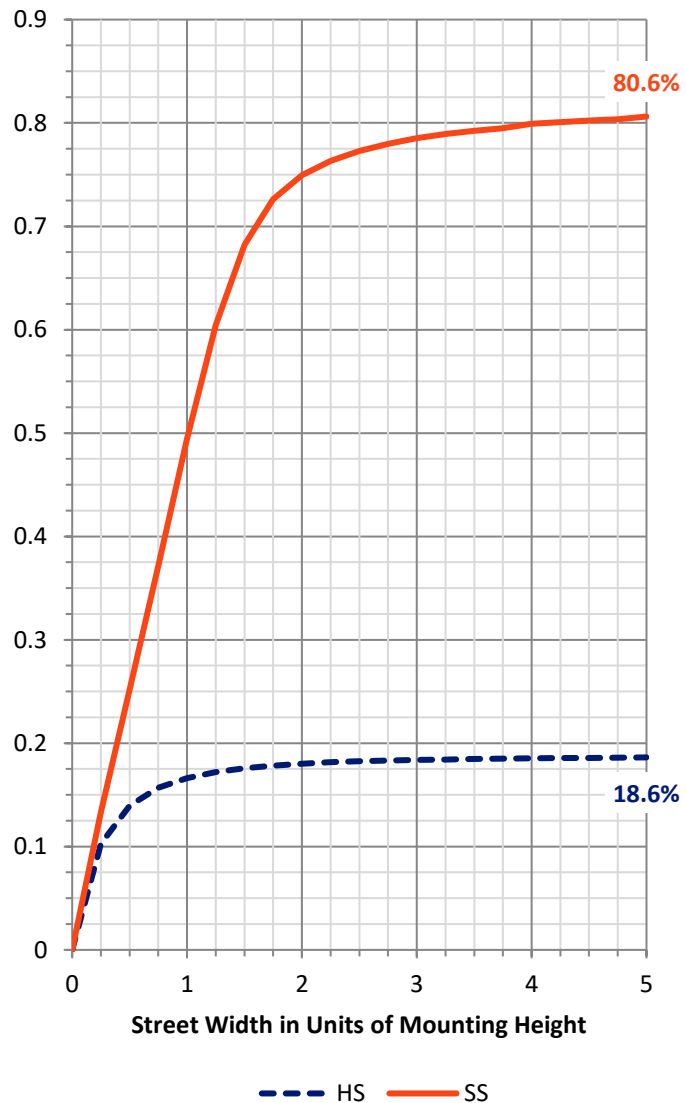
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6757.5	0.0	6757.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	29174.5	0.0	29174.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	35932.0	0.0	35932.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	720.6	2.0
10°-20°	1709.1	4.8
20°-30°	2326.7	6.5
30°-40°	3126.6	8.7
40°-50°	4668.6	13.0
50°-60°	7426.2	20.7
60°-70°	9133.8	25.4
70°-80°	5942.9	16.5
80°-90°	877.6	2.4
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°	35932.0	100.0
0°-180°	35932.0	100.0

**Coefficient of Utilization**



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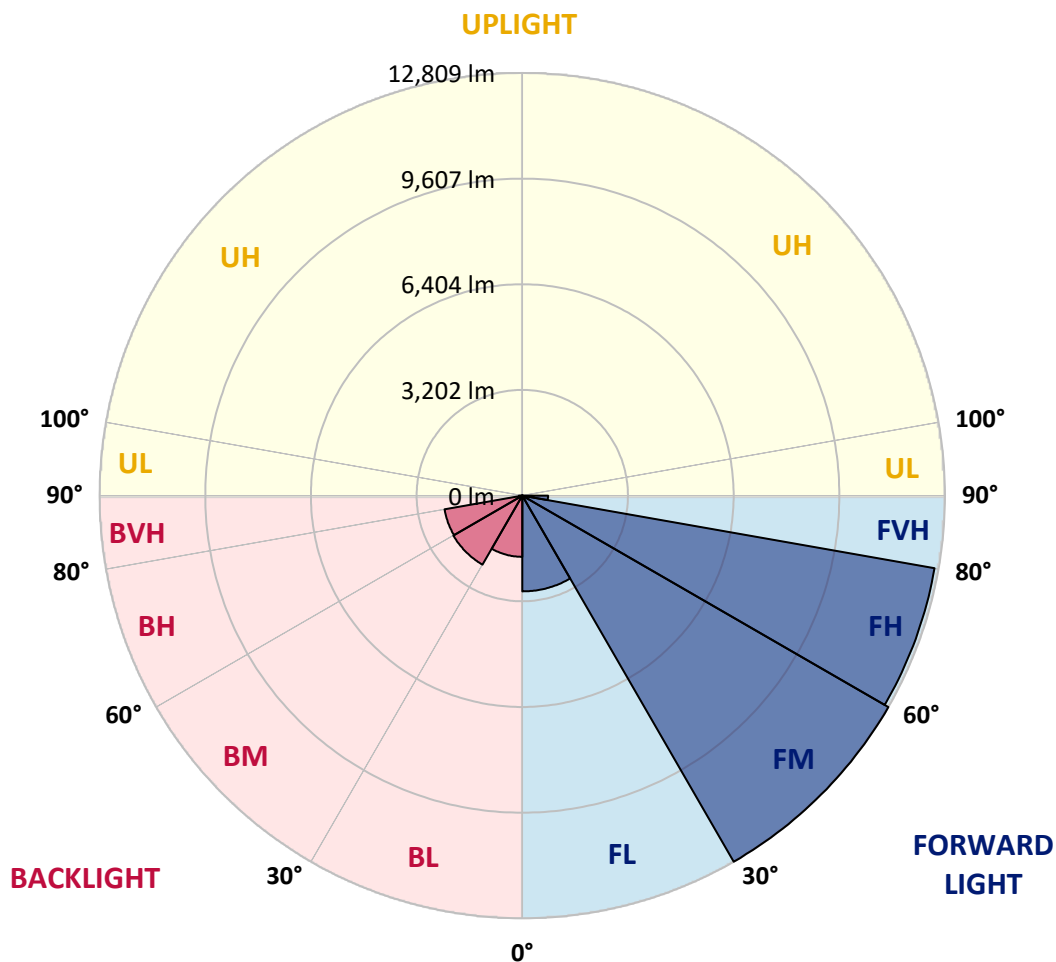
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2901.5	8.1			
FM	(30°-60°)	12808.7	35.6			
FH	(60°-80°)	12684.2	35.3			G5
FVH	(80°-90°)	780.2	2.2			G5
BL	(0°-30°)	1855.0	5.2	B3/2500		
BM	(30°-60°)	2412.7	6.7	B2/2500		
BH	(60°-80°)	2392.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	97.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7
2.5°	8007.2	8039.0	8074.8	8114.6	8190.2	8232.0	8261.9	8295.7	8299.7	8317.6	8303.7
5°	7416.2	7454.0	7507.7	7583.3	7696.8	7873.9	8056.9	8206.2	8224.1	8307.6	8331.5
7.5°	6922.7	6944.6	6988.4	7109.8	7270.9	7467.9	7734.6	8037.0	8080.8	8279.8	8349.4
10°	6520.8	6542.6	6594.4	6719.7	6878.9	7125.7	7418.2	7816.2	7852.0	8194.2	8353.4
12.5°	6220.3	6240.2	6295.9	6419.3	6602.3	6833.2	7155.5	7577.4	7629.1	8080.8	8315.6
15°	5991.5	6029.3	6075.0	6176.5	6369.5	6592.4	6904.8	7358.5	7400.3	7961.4	8289.7
17.5°	5894.0	5911.9	5943.7	6037.2	6178.5	6397.4	6711.8	7187.4	7237.1	7877.8	8283.8
20°	5897.9	5915.8	5921.8	5973.5	6075.0	6264.1	6574.5	7052.0	7111.7	7804.2	8293.7
22.5°	6033.2	6035.2	6013.3	5995.4	6035.2	6192.4	6477.0	6950.6	7020.2	7772.4	8301.7
25°	6242.2	6278.0	6246.2	6162.6	6089.0	6164.6	6439.2	6894.8	6960.5	7726.6	8291.7
27.5°	6580.5	6586.4	6560.6	6447.1	6256.1	6200.4	6423.3	6853.1	6908.8	7692.8	8242.0
30°	7034.1	7016.2	6992.4	6867.0	6566.5	6337.7	6457.1	6815.3	6873.0	7643.0	8182.3
32.5°	7493.8	7549.5	7527.6	7380.4	6990.4	6604.3	6566.5	6811.3	6859.0	7605.2	8116.6
35°	7981.3	8007.2	8110.7	8035.0	7635.1	7036.1	6771.5	6873.0	6910.8	7607.2	8070.9
37.5°	8363.4	8433.0	8675.8	8741.4	8365.4	7607.2	7103.8	7048.1	7064.0	7704.7	8088.8
40°	8825.0	8944.4	9256.8	9525.4	9278.7	8349.4	7668.9	7372.4	7392.3	7939.5	8206.2
42.5°	9410.0	9493.6	9913.5	10277.6	10237.8	9330.4	8353.4	7903.7	7913.7	8407.1	8534.5
45°	10094.5	10213.9	10685.5	11232.7	11326.3	10440.8	9342.4	8707.6	8701.6	9133.4	9147.4
47.5°	10970.1	11043.7	11511.3	12108.3	12486.3	11835.7	10542.3	9861.7	9798.0	10192.0	10078.6
50°	11776.0	11891.4	12245.6	12898.2	13839.4	13469.3	12120.2	11358.1	11208.9	11577.0	11386.0
52.5°	12114.2	12235.6	12534.1	13344.0	14999.5	15582.6	14124.0	13143.0	12894.3	13176.8	13107.2
55°	11527.2	11684.4	11963.0	12948.0	15508.9	18020.1	16826.2	15206.5	15025.4	14904.0	14923.9
57.5°	9949.3	10098.5	10474.6	11561.1	14900.0	19789.1	20684.5	17859.0	17470.9	16911.8	17007.3
60°	7573.4	7666.9	7861.9	9065.8	13095.2	20248.8	25066.2	21211.9	20965.1	18911.6	18979.2
62.5°	5378.6	5484.0	5619.4	6220.3	9587.1	18953.4	28496.7	25894.0	25012.5	20983.0	20917.4
65°	4367.7	4296.1	4459.3	4739.8	5625.3	14689.1	29268.8	32392.9	31179.0	23711.1	22799.8
67.5°	3591.7	3516.1	3677.3	4176.7	4278.2	8526.5	26487.0	36611.4	36368.6	26678.0	24712.0
69°	3179.8	3140.0	3281.3	3850.4	4107.1	6055.1	23074.4	37198.4	37256.1	28427.1	25006.5
70°	2865.4	2881.3	3018.6	3685.2	4029.5	4992.5	19721.5	36388.5	36878.0	29300.6	24688.1
72.5°	2109.2	2143.1	2334.1	3052.4	3955.8	4236.4	11736.2	31784.0	32649.5	29352.4	22584.9
75°	1474.5	1458.6	1627.7	2298.3	3736.9	4198.6	6892.9	24580.7	25561.7	25370.7	18977.3
77.5°	965.1	990.9	1126.3	1623.7	3144.0	4166.8	4493.1	17439.1	18075.8	16967.5	11224.8
80°	680.5	678.5	754.2	1108.3	2332.1	4003.6	3679.2	10992.0	10830.8	6668.0	3329.0
82.5°	390.0	417.9	505.4	780.0	1560.0	3524.0	3384.7	5257.2	4799.5	1900.3	1124.3
85°	216.9	226.8	300.5	471.6	911.4	2654.5	2954.9	2391.8	2256.5	794.0	483.5
87.5°	69.6	75.6	125.4	238.8	413.9	1253.6	1673.5	1104.4	1018.8	286.5	195.0
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°	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7
2.5°	8309.6	8333.5	8269.8	8208.2	8152.4	8074.8	8005.2	7947.5	7907.7	7901.7	7881.8
5°	8337.5	8339.5	8218.1	8054.9	7895.7	7720.6	7539.6	7410.2	7288.8	7221.2	7187.4
7.5°	8357.4	8339.5	8120.6	7855.9	7549.5	7231.1	6912.8	6658.1	6461.1	6383.5	6413.3
10°	8349.4	8293.7	7973.4	7549.5	7103.8	6628.2	6170.5	5812.4	5484.0	5314.9	5318.9
12.5°	8305.7	8214.1	7754.5	7205.3	6550.6	5913.9	5213.4	4729.9	4349.8	4125.0	4055.3
15°	8267.8	8108.7	7497.8	6737.7	5923.8	5014.4	4160.8	3563.8	3245.5	3068.4	3066.4
17.5°	8228.1	8007.2	7217.2	6242.2	5203.5	4033.4	3138.0	2682.3	2533.1	2551.0	2521.1
20°	8186.3	7887.8	6924.7	5691.0	4325.9	3008.7	2350.0	2165.0	2206.7	2288.3	2300.3
22.5°	8138.5	7760.4	6610.3	5084.1	3402.7	2264.5	1906.3	1878.4	1985.9	2113.2	2131.1
25°	8064.9	7601.2	6214.3	4449.3	2624.6	1824.7	1669.5	1689.4	1794.8	1902.3	1914.2
27.5°	7961.4	7404.3	5814.4	3657.4	1971.9	1566.0	1526.2	1552.1	1603.8	1669.5	1685.4
30°	7822.1	7181.4	5354.7	2972.8	1579.9	1436.7	1420.8	1434.7	1464.5	1492.4	1500.4
32.5°	7682.8	6966.5	4891.1	2276.4	1408.8	1351.1	1335.2	1335.2	1335.2	1339.2	1341.2
35°	7553.5	6763.5	4393.6	1773.0	1319.3	1283.5	1261.6	1237.7	1233.7	1219.8	1219.8
37.5°	7481.9	6578.5	3864.3	1484.4	1253.6	1227.7	1197.9	1158.1	1136.2	1138.2	1134.2
40°	7495.8	6457.1	3382.8	1321.3	1199.9	1172.0	1126.3	1080.5	1066.6	1066.6	1062.6
42.5°	7653.0	6417.3	2921.1	1235.7	1148.1	1116.3	1058.6	1016.8	1008.9	1006.9	1010.8
45°	8015.1	6514.8	2507.2	1180.0	1104.4	1056.6	998.9	961.1	953.1	953.1	951.2
47.5°	8721.5	6831.2	2210.7	1144.2	1072.5	1010.8	951.2	913.3	899.4	895.4	895.4
50°	9819.9	7517.7	1989.9	1112.3	1032.7	969.1	907.4	863.6	841.7	839.7	837.7
52.5°	11346.2	8588.2	1904.3	1088.5	989.0	925.3	857.6	815.8	788.0	782.0	778.0
55°	13131.1	10082.6	2021.7	1070.5	943.2	875.5	805.9	762.1	736.2	724.3	722.3
57.5°	15198.5	11877.4	2467.4	1046.7	901.4	821.8	754.2	710.4	682.5	668.6	664.6
60°	17055.1	13722.0	3245.5	1032.7	865.6	764.1	694.5	654.7	628.8	614.9	612.9
62.5°	19094.7	15481.1	4174.7	1070.5	849.7	708.4	638.7	602.9	581.0	567.1	567.1
65°	21273.5	17242.1	4789.6	1197.9	873.5	664.6	579.0	549.2	529.3	519.4	517.4
67.5°	22742.1	17851.0	3945.9	1329.2	933.2	616.9	521.3	497.5	485.5	475.6	475.6
69°	22582.9	17080.9	2911.2	1363.1	951.2	593.0	489.5	471.6	455.7	451.7	447.7
70°	22079.4	16203.4	2439.6	1341.2	937.2	571.1	469.6	447.7	433.8	429.8	427.8
72.5°	19665.7	14052.4	1816.7	1166.1	797.9	495.5	415.9	396.0	384.0	378.1	378.1
75°	16338.7	11485.4	1418.8	927.3	624.8	417.9	356.2	340.3	330.3	326.3	324.3
77.5°	9157.3	6413.3	1018.8	726.3	473.6	338.3	298.5	284.5	274.6	270.6	270.6
80°	2551.0	1832.7	598.9	479.6	322.4	256.7	236.8	226.8	212.9	203.0	208.9
82.5°	961.1	794.0	342.3	288.5	205.0	171.1	165.2	157.2	151.2	137.3	137.3
85°	467.6	386.0	218.9	153.2	113.4	89.5	85.6	81.6	77.6	67.7	69.6
87.5°	161.2	171.1	95.5	55.7	33.8	21.9	17.9	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

(END OF REPORT)