

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: P647111

Luminaire Tested: **GALN-SA8C-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44058.6 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

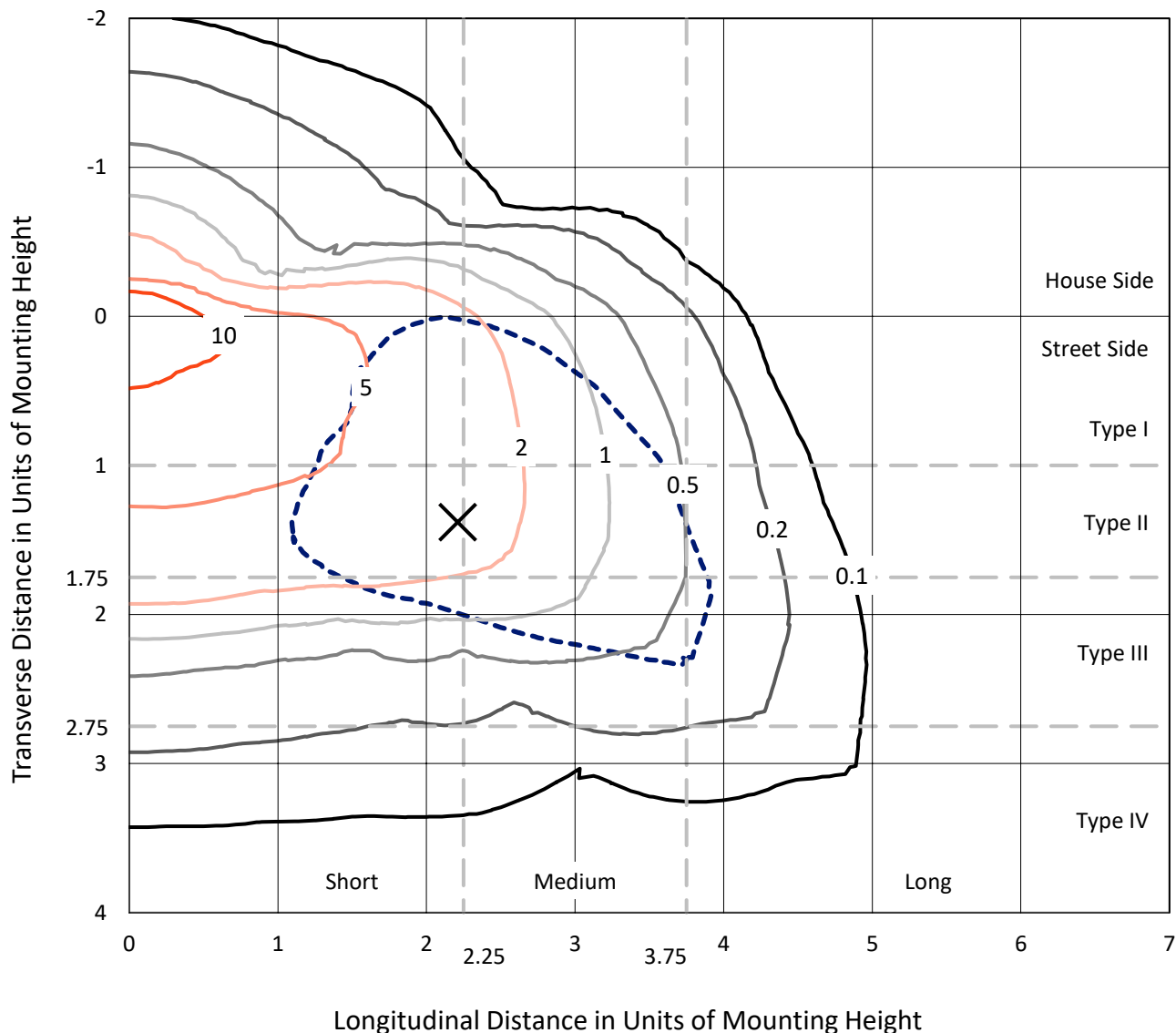
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

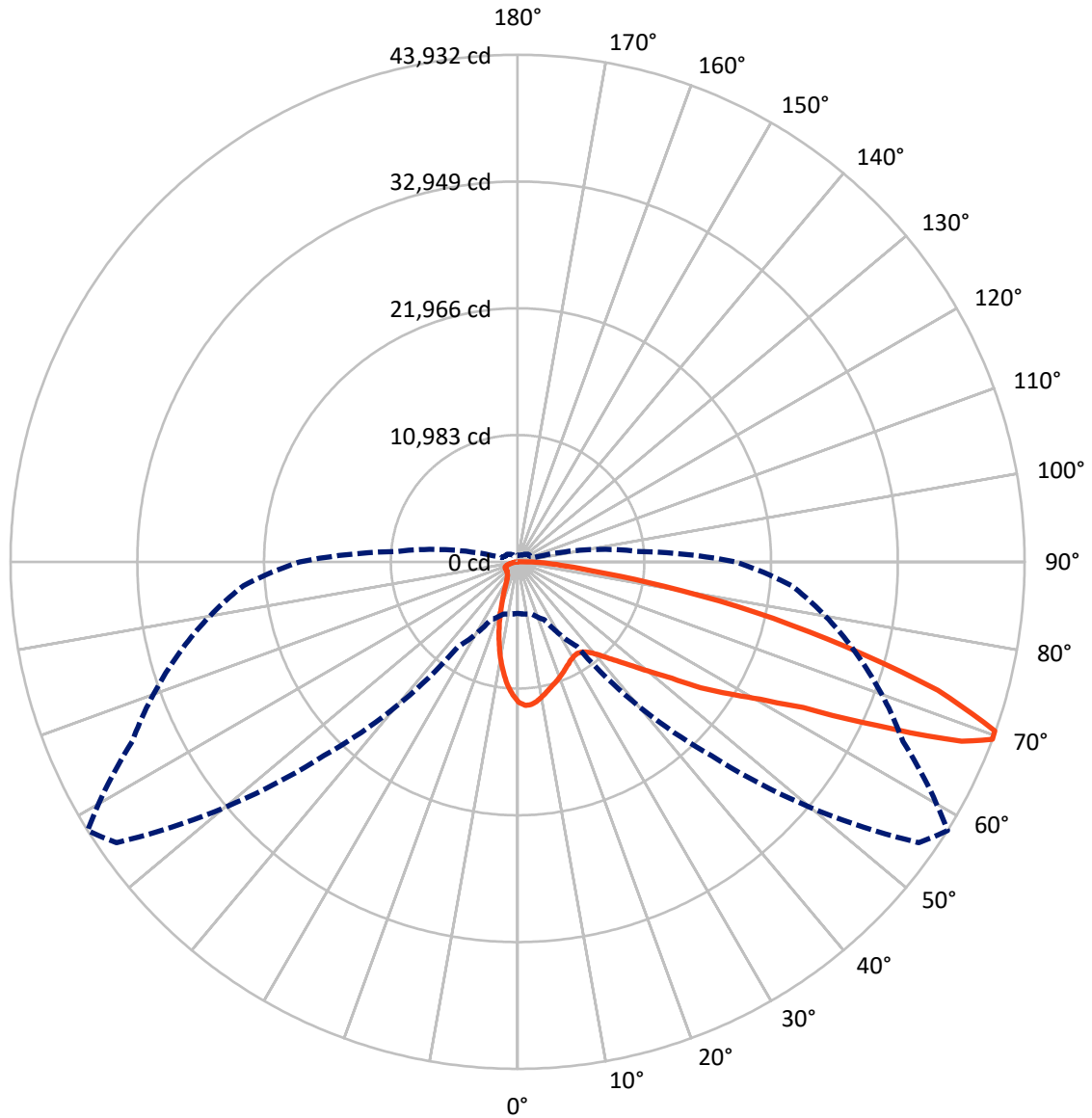
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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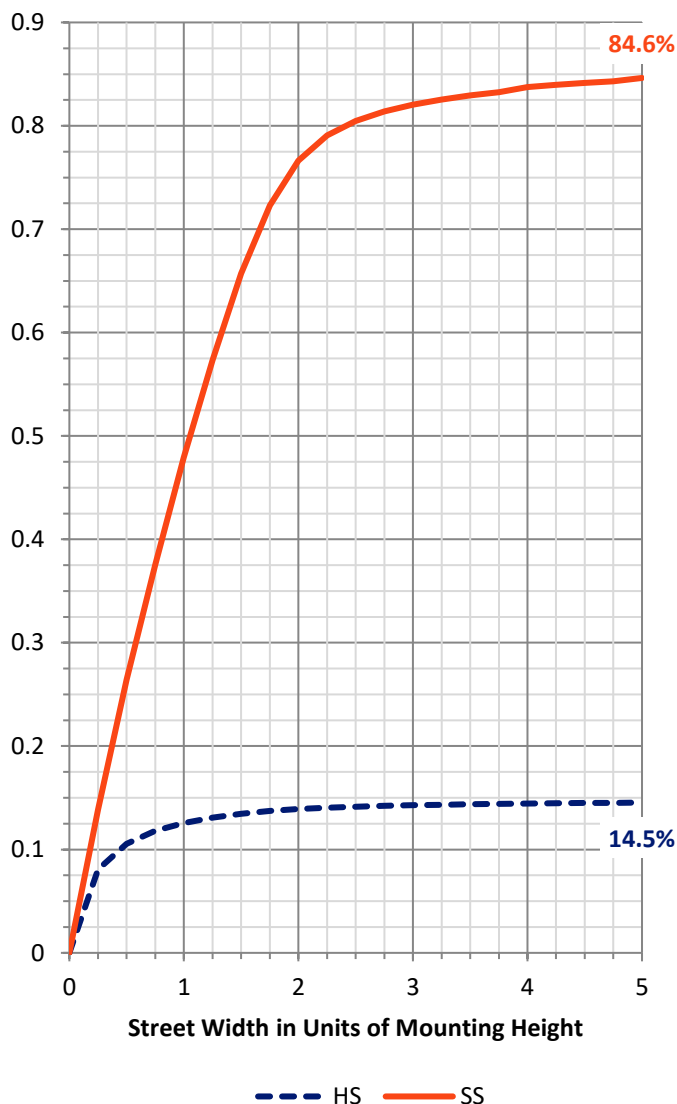
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6456.8	0.0	6456.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	37601.8	0.0	37601.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	44058.6	0.0	44058.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1034.0	2.3
10°-20°	2270.4	5.2
20°-30°	2933.4	6.7
30°-40°	3809.9	8.6
40°-50°	5539.1	12.6
50°-60°	8838.6	20.1
60°-70°	11807.3	26.8
70°-80°	6806.4	15.4
80°-90°	1019.5	2.3
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°	44058.6	100.0
0°-180°	44058.6	100.0

**Coefficient of Utilization**

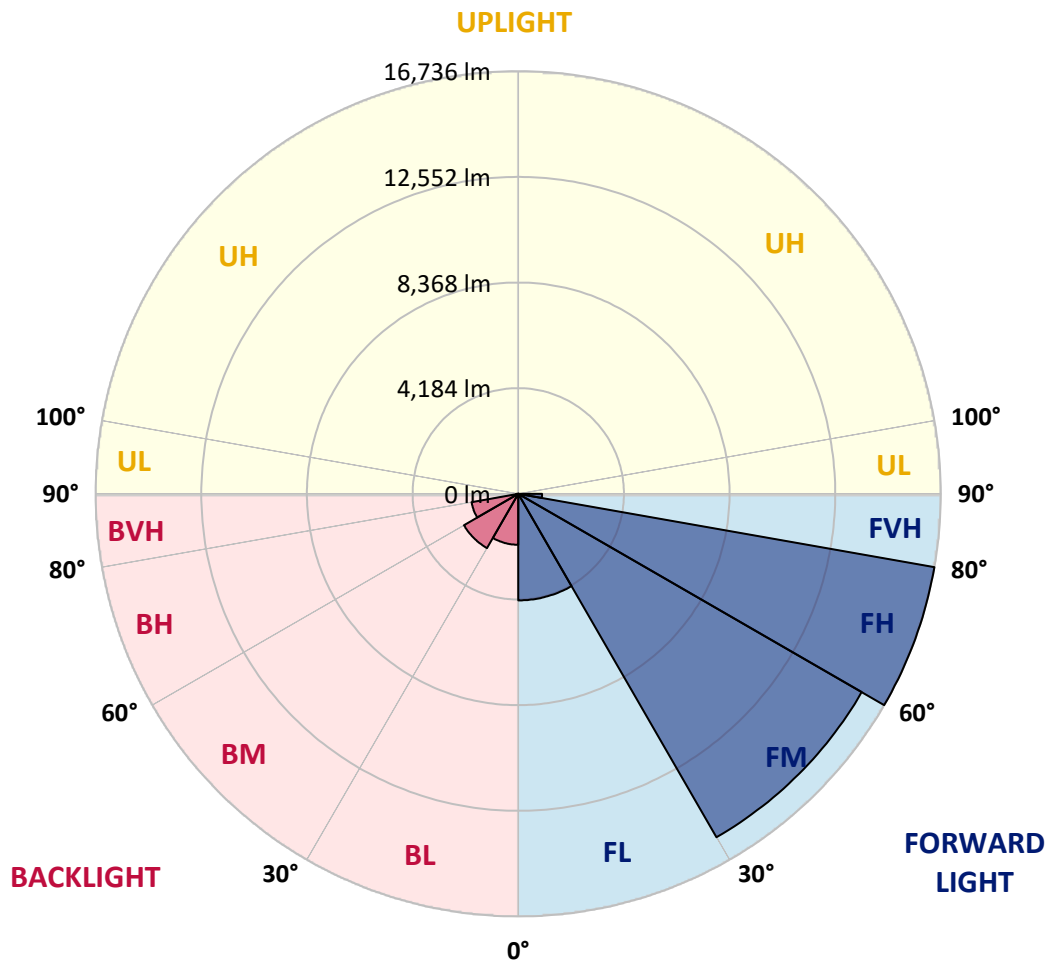


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4219.7	9.6			
FM (30°-60°)	15704.6	35.6			
FH (60°-80°)	16736.2	38.0			G5
FVH (80°-90°)	941.3	2.1			G5
BL (0°-30°)	2018.1	4.6	B3/2500		
BM (30°-60°)	2483.1	5.6	B2/2500		
BH (60°-80°)	1877.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	78.1	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3
2.5°	12627.4	12661.7	12651.9	12639.7	12620.0	12565.9	12477.4	12462.7	12406.2	12285.8	12135.9
5°	12433.3	12462.7	12465.2	12482.4	12506.9	12497.1	12433.3	12425.8	12342.4	12180.1	11929.5
7.5°	11767.3	11806.6	11892.7	11988.5	12074.5	12155.6	12175.3	12187.5	12135.9	11949.1	11615.0
10°	11017.9	11057.2	11096.5	11239.0	11450.4	11651.8	11818.9	11841.1	11853.4	11681.3	11273.5
12.5°	10187.4	10268.5	10352.0	10563.3	10845.9	11162.8	11457.7	11504.4	11587.9	11457.7	10978.6
15°	9482.2	9565.8	9686.1	9875.4	10216.9	10673.9	11089.2	11165.3	11329.9	11263.6	10703.4
17.5°	8993.2	9022.7	9106.2	9322.5	9691.0	10172.7	10728.0	10880.3	11143.2	11126.0	10467.5
20°	8607.4	8644.3	8695.9	8828.6	9211.9	9720.6	10391.3	10587.9	10944.2	11003.2	10234.0
22.5°	8445.3	8472.3	8464.9	8536.2	8796.6	9307.8	10049.8	10283.2	10767.3	10919.6	10017.9
25°	8455.1	8479.7	8442.8	8425.6	8580.4	8944.1	9693.5	9990.8	10624.8	10863.1	9821.2
27.5°	8619.7	8636.9	8568.1	8499.3	8511.6	8718.0	9398.7	9727.9	10504.3	10887.7	9656.7
30°	8840.9	8872.8	8828.6	8745.0	8654.1	8664.0	9209.4	9533.8	10447.8	10973.7	9578.0
32.5°	9125.9	9155.4	9135.7	9069.4	8951.4	8821.2	9162.7	9462.6	10452.7	11148.1	9560.8
35°	9425.7	9484.6	9516.6	9511.6	9415.8	9189.8	9347.1	9595.2	10570.7	11440.6	9661.5
37.5°	9764.7	9813.9	9951.5	10039.9	9951.5	9688.6	9762.3	9934.3	10831.2	11863.2	9882.7
40°	10094.0	10167.7	10369.2	10644.4	10610.0	10379.1	10396.2	10509.3	11290.6	12492.2	10315.2
42.5°	10438.0	10526.5	10877.8	11285.8	11366.8	11187.4	11234.2	11334.9	11944.3	13364.5	11057.2
45°	10880.3	10986.0	11418.4	11927.0	12246.5	12135.9	12268.6	12317.8	12819.0	14499.7	12035.2
47.5°	11450.4	11573.2	12106.4	12740.3	13192.5	13293.2	13524.2	13494.7	13902.6	15843.8	13303.1
50°	12411.1	12479.9	12983.6	13629.8	14251.5	14706.1	14956.7	15003.5	15246.7	17151.0	14720.9
52.5°	13553.7	13615.1	13978.7	14543.9	15322.8	16286.1	16905.3	16752.9	16811.9	18743.2	16379.4
55°	14838.8	14942.0	15173.0	15548.9	16558.8	17976.6	19219.9	19256.8	18603.1	20266.6	17969.2
57.5°	15833.9	16008.4	16404.0	16939.7	18219.9	19856.3	21527.2	21551.8	20716.3	21893.3	19723.6
60°	15332.7	15539.1	16443.3	17748.0	20399.3	23136.6	24284.1	24144.0	22772.9	23746.0	21863.8
62.5°	13170.4	13207.3	14521.8	16561.2	21070.1	27525.1	28387.6	27795.4	25517.6	26095.0	24038.4
65°	8523.9	8764.7	9806.5	12664.2	18866.1	29960.2	35577.2	34208.6	29365.5	28761.1	25859.1
67.5°	5381.2	5319.8	5752.2	7231.4	12976.3	27815.1	41712.8	41496.5	34397.7	30444.2	25424.2
69°	4462.2	4531.0	4678.4	5543.3	8929.3	23748.5	42437.6	43931.5	36837.7	30311.5	23844.3
70°	4046.9	4078.9	4233.7	4914.3	6889.9	19890.7	41248.4	43865.2	37796.0	29756.2	22699.2
72.5°	3211.5	3209.0	3474.4	4088.7	5150.2	11354.5	33869.4	38083.5	36724.7	27171.3	18755.5
75°	2440.0	2479.3	2771.7	3459.7	4744.7	6204.3	23635.4	29328.7	29331.1	21460.9	11703.4
77.5°	1759.3	1783.9	2125.5	2904.4	4469.6	5029.8	15743.0	21035.8	19775.2	9833.5	3678.4
80°	1152.4	1167.1	1427.6	2299.9	4029.7	4744.7	9334.8	12875.5	9327.4	2609.5	1216.3
82.5°	631.5	705.2	872.3	1489.0	3233.6	4383.5	5673.6	6516.4	3499.0	1162.2	633.9
85°	317.0	336.6	491.4	869.8	2113.2	3626.8	3951.1	3737.3	1806.0	577.5	329.3
87.5°	93.3	117.9	204.0	336.6	857.5	1889.5	2199.1	1973.1	695.4	208.8	68.8
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°	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3	12175.3
2.5°	12074.5	12030.2	11833.7	11656.8	11494.6	11322.6	11177.6	11049.9	11062.1	11064.6	10934.4
5°	11799.3	11698.6	11325.1	10976.1	10681.3	10307.8	9988.3	9781.9	9678.7	9541.2	9590.3
7.5°	11425.8	11231.7	10713.2	10133.4	9590.3	9106.2	8580.4	8219.2	7988.2	7764.6	7794.1
10°	11040.0	10728.0	9973.6	9207.0	8504.2	7730.2	7059.4	6484.4	6056.9	5897.2	5791.5
12.5°	10644.4	10234.0	9275.8	8256.0	7285.5	6359.1	5408.2	4791.5	4319.7	4069.1	4101.0
15°	10283.2	9784.4	8548.5	7305.2	6044.6	4941.4	3992.9	3405.7	3076.3	3007.6	3046.9
17.5°	9949.0	9295.5	7867.8	6381.2	4909.4	3705.4	3000.2	2668.5	2535.8	2498.9	2496.4
20°	9605.1	8880.2	7103.6	5393.5	3825.8	2872.4	2462.1	2307.3	2282.7	2297.5	2299.9
22.5°	9256.2	8366.6	6317.3	4413.1	3046.9	2349.1	2152.5	2110.7	2130.4	2164.8	2169.7
25°	8934.3	7914.5	5560.6	3553.0	2432.6	2064.0	1968.1	1968.1	2012.4	2064.0	2066.5
27.5°	8668.8	7477.1	4806.2	2820.8	2037.0	1857.6	1825.6	1842.9	1904.3	1943.6	1946.1
30°	8450.1	7069.2	4093.6	2260.6	1791.3	1693.0	1685.6	1715.1	1759.3	1796.2	1798.6
32.5°	8285.5	6710.5	3427.7	1899.4	1621.7	1567.6	1565.2	1587.3	1611.9	1621.7	1631.5
35°	8221.7	6413.2	2818.3	1670.8	1508.7	1474.3	1474.3	1471.8	1481.7	1486.6	1491.5
37.5°	8273.3	6184.7	2346.6	1523.4	1425.1	1400.6	1385.8	1371.1	1366.2	1366.2	1368.6
40°	8491.9	6064.3	1995.2	1427.6	1366.2	1329.3	1302.3	1285.1	1267.9	1272.8	1277.7
42.5°	8956.3	6086.4	1756.9	1363.8	1314.6	1263.0	1223.7	1204.0	1191.7	1206.4	1204.0
45°	9696.0	6307.5	1604.5	1319.5	1263.0	1196.7	1159.8	1140.1	1140.1	1162.2	1169.6
47.5°	10730.4	6730.2	1523.4	1285.1	1223.7	1145.1	1108.2	1093.5	1098.3	1135.2	1137.7
50°	11993.4	7464.9	1508.7	1267.9	1204.0	1108.2	1066.4	1051.6	1063.9	1103.2	1108.2
52.5°	13386.6	8410.8	1579.9	1270.3	1186.8	1086.1	1032.0	1009.9	1022.2	1054.2	1063.9
55°	15037.8	9595.2	1764.3	1280.2	1162.2	1073.8	1007.4	958.3	973.0	995.1	997.6
57.5°	16723.4	11089.2	2088.6	1282.6	1142.6	1051.6	965.7	901.8	901.8	916.5	923.9
60°	18782.5	12715.8	2516.1	1285.1	1145.1	1019.7	909.1	837.9	828.1	835.5	837.9
62.5°	20826.9	14077.1	2587.4	1277.7	1169.6	987.8	847.8	774.0	756.8	754.3	749.4
65°	21728.6	13823.9	2120.5	1243.3	1196.7	968.1	798.6	712.6	683.1	673.2	673.2
67.5°	20259.3	11693.6	1594.7	1196.7	1179.4	948.4	751.9	661.0	626.6	606.9	606.9
69°	18878.4	10401.1	1432.5	1164.7	1135.2	916.5	722.4	633.9	592.2	570.0	562.7
70°	17811.9	9511.6	1363.8	1137.7	1093.5	879.7	700.3	614.3	567.6	543.0	538.2
72.5°	14214.7	7462.4	1194.2	1034.5	931.3	739.6	621.6	552.9	508.6	481.6	474.3
75°	8192.1	4044.5	990.3	899.4	749.4	575.0	525.9	481.6	447.2	422.7	415.2
77.5°	2521.0	1562.8	717.5	710.1	550.4	444.7	420.2	403.0	378.4	351.4	346.5
80°	1061.5	796.2	486.6	479.1	366.1	309.6	302.2	299.8	289.9	267.9	260.4
82.5°	582.3	449.7	339.1	294.9	221.1	179.4	186.7	189.2	181.8	159.7	144.9
85°	285.0	245.7	164.7	132.7	100.8	63.9	61.5	73.7	68.8	49.2	54.0
87.5°	56.5	68.8	44.2	19.7	9.9	0.0	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)