

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: P533583

Luminaire Tested: **GALN-SA9A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533583  
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-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 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: 28810 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

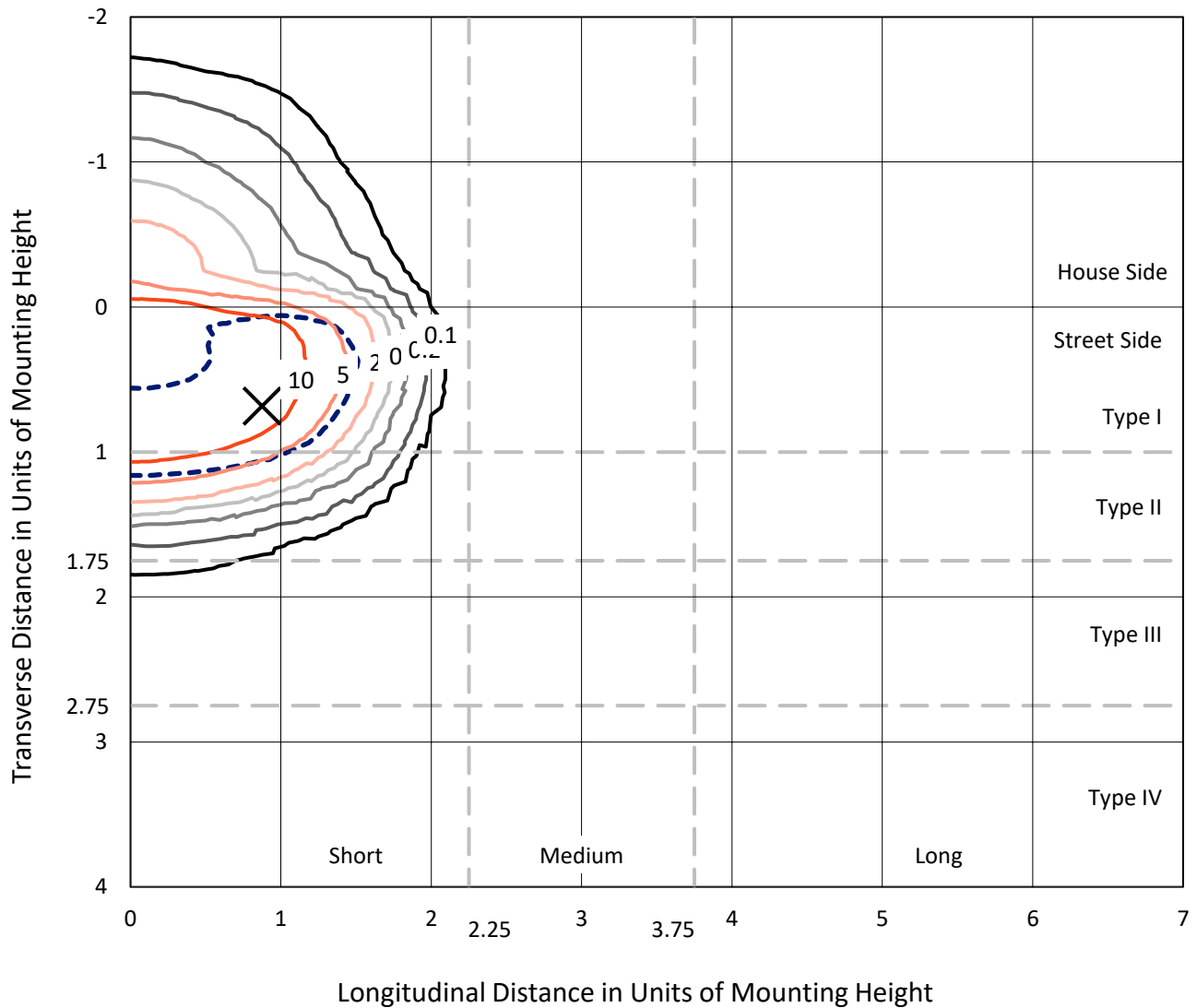
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

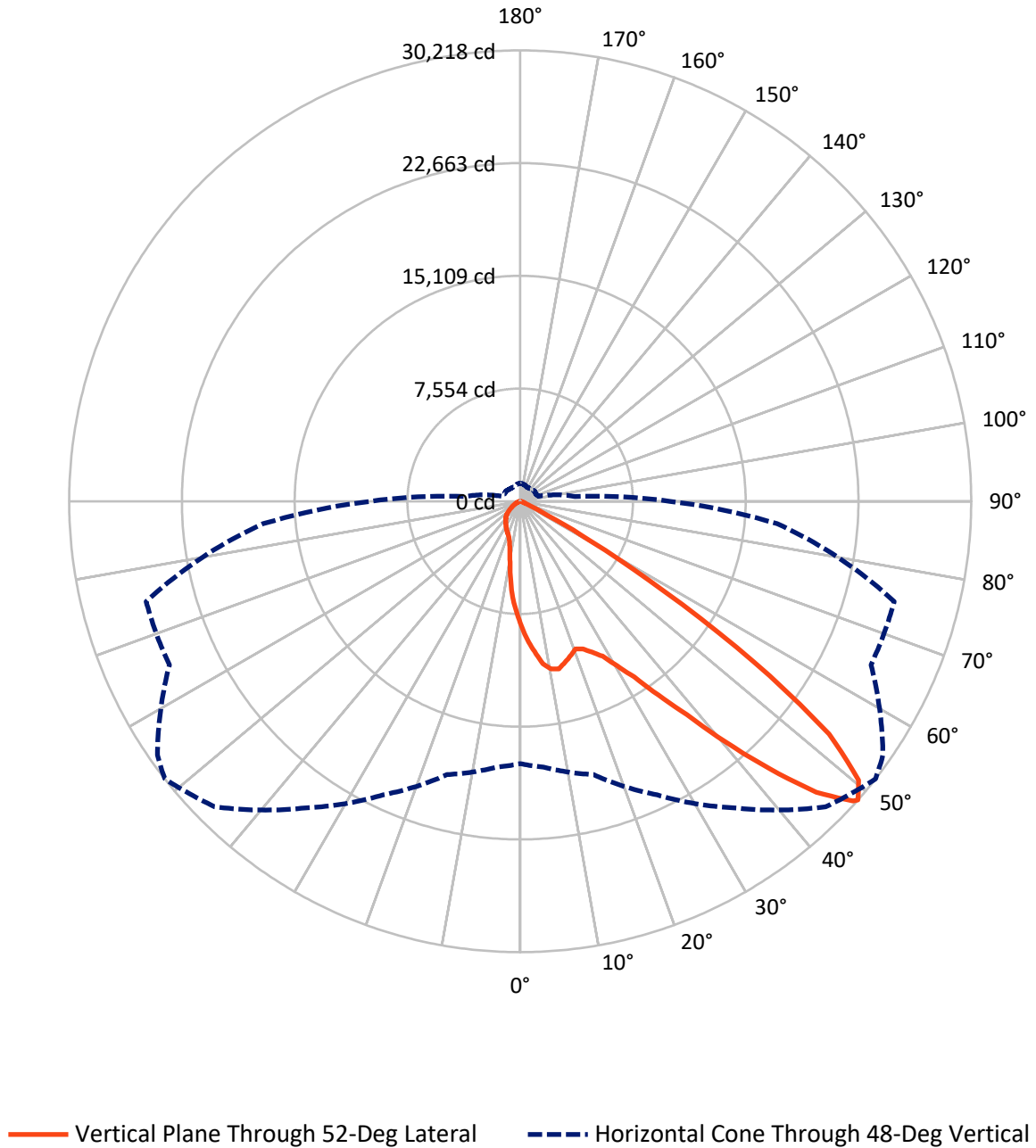
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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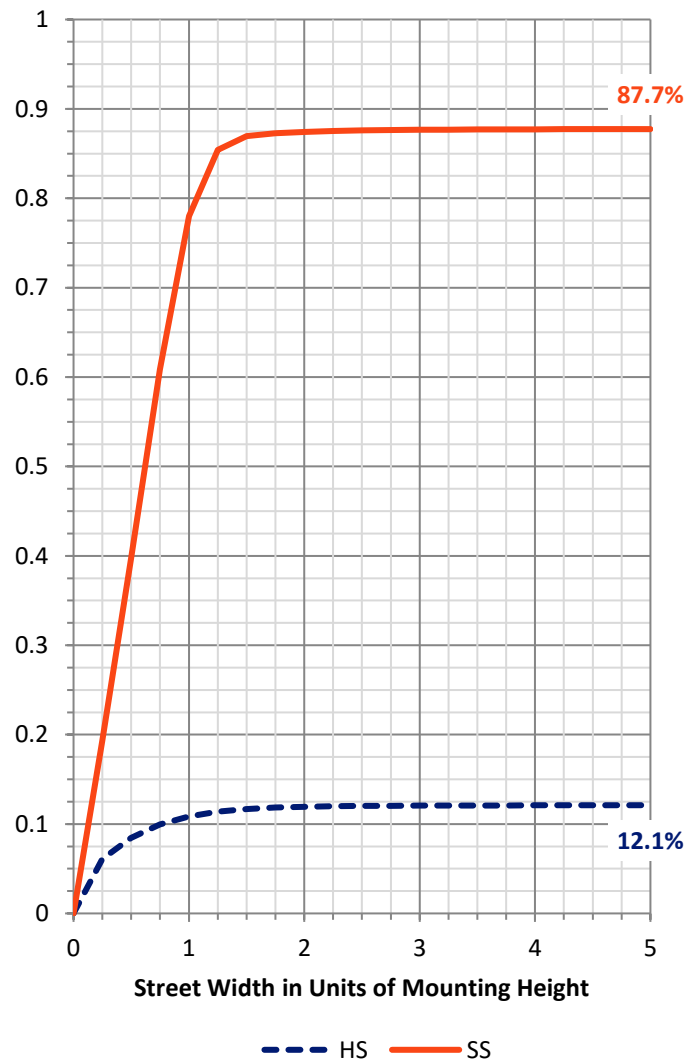
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3507.9	0.0	3507.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	25302.2	0.0	25302.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	28810.0	0.0	28810.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	761.5	2.6
10°-20°	1990.1	6.9
20°-30°	3397.9	11.8
30°-40°	6257.2	21.7
40°-50°	9717.4	33.7
50°-60°	5848.3	20.3
60°-70°	676.4	2.3
70°-80°	130.9	0.5
80°-90°	30.3	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°	28810.0	100.0
0°-180°	28810.0	100.0



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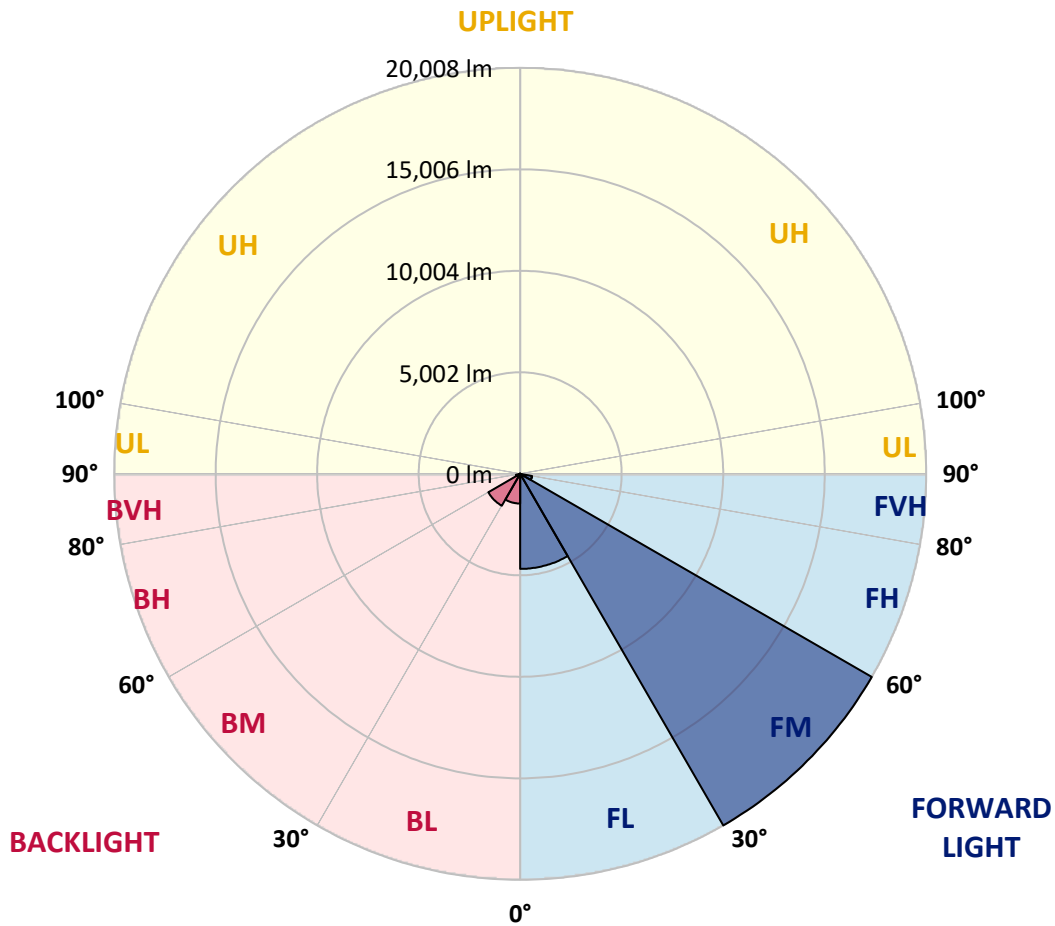
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4684.1	16.3			
FM (30°-60°)	20008.0	69.4			
FH (60°-80°)	595.6	2.1			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1465.3	5.1	B3/2500		
BM (30°-60°)	1814.9	6.3	B2/2500		
BH (60°-80°)	211.7	0.7	B1/500		G1/500
BVH (80°-90°)	15.9	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°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
2.5°	10083.8	9852.8	9873.8	9722.6	9634.4	9491.6	9298.4	9260.6	9050.6	8765.0	8475.2
5°	10990.9	10936.3	11007.7	10789.3	10797.7	10562.6	10109.0	10117.4	9634.4	9168.2	8718.8
7.5°	11049.7	10923.7	10995.1	11188.3	11301.7	11259.7	11003.5	10780.9	10323.2	9638.6	8983.4
10°	9894.8	10134.2	10209.8	10529.0	10982.5	11461.3	11431.9	11444.5	11062.3	10167.8	9210.2
12.5°	9201.8	9042.2	9298.4	9491.6	10176.2	11104.3	11528.5	11620.9	11650.3	10680.2	9437.0
15°	8886.8	8886.8	8928.8	8983.4	9479.0	10335.8	11200.9	11469.7	12103.9	11352.1	9794.0
17.5°	9084.2	9075.8	9134.6	9021.2	9206.0	9865.4	10898.5	11205.1	12612.1	12011.5	10075.4
20°	9684.8	9714.2	9676.4	9348.8	9361.4	9857.0	10562.6	11045.5	12956.5	12582.7	10449.2
22.5°	10520.6	10537.4	10323.2	9966.2	9861.2	10104.8	10755.7	11125.3	13233.6	13267.2	10562.6
25°	11486.5	11419.3	11377.3	10873.3	10554.2	10764.1	11192.5	11406.7	13405.8	13855.2	10885.9
27.5°	12826.3	12691.9	12435.7	11986.3	11751.1	11452.9	11759.5	12112.3	13897.2	14678.4	11238.7
30°	14804.4	14686.8	14187.0	13607.4	12990.1	12696.1	12792.7	12985.9	14783.4	15631.7	11704.9
32.5°	17782.1	17534.3	16811.9	15707.3	14867.4	14056.8	14031.6	14237.4	15577.1	16950.5	12259.3
35°	21062.1	20986.5	19924.0	18785.8	17160.5	15908.9	15929.9	16039.1	17097.5	18680.8	12985.9
37.5°	23241.8	23657.6	22981.4	21759.3	20394.3	18605.2	18151.6	18189.4	19184.8	20730.3	14296.2
40°	24925.9	24573.2	24653.0	24367.4	23435.0	22217.1	21213.3	21015.9	21599.7	22998.2	15598.1
42.5°	24191.0	24207.8	24699.2	25375.3	25606.3	25518.1	24493.4	24119.6	23666.0	24854.6	16837.1
45°	22116.3	22548.9	23187.2	24976.3	26547.1	28021.2	27819.6	27198.1	25093.9	26324.5	17551.1
47.5°	18806.8	18790.0	19835.8	22162.5	25652.5	29104.8	30020.3	29583.6	26106.1	26160.7	17404.1
48°	17584.7	17887.0	18966.4	21704.7	25085.5	28945.2	30217.7	29667.6	25933.9	25942.3	17278.1
50°	12998.5	12943.9	14287.8	17647.7	22406.1	27198.1	29386.2	29814.5	25929.7	24837.8	16396.1
52.5°	6866.7	7101.9	8080.5	11095.9	15841.7	22259.1	25921.3	26589.1	25014.1	23031.8	15127.8
55°	2918.9	2637.5	3389.3	5010.4	8912.0	14871.6	19016.8	20503.5	21150.3	20381.7	13233.6
57.5°	1041.6	1138.2	1310.3	1885.7	3746.2	8139.3	11339.5	12494.5	14653.2	14955.6	9017.0
60°	667.8	680.4	735.0	865.2	1406.9	3137.3	5380.0	6299.7	7278.3	7513.5	4208.2
62.5°	516.6	520.8	546.0	567.0	667.8	1217.9	2020.1	2393.9	2486.3	2137.7	1104.6
65°	432.6	436.8	445.2	445.2	474.6	571.2	705.6	777.0	756.0	747.6	625.8
67.5°	331.8	340.2	357.0	357.0	373.8	348.6	390.6	415.8	470.4	571.2	533.4
70°	260.4	264.6	277.2	285.6	285.6	252.0	281.4	306.6	344.4	424.2	420.0
72.5°	201.6	210.0	218.4	218.4	205.8	172.2	201.6	222.6	247.8	294.0	285.6
75°	155.4	155.4	159.6	130.2	100.8	88.2	121.8	147.0	184.8	193.2	159.6
77.5°	42.0	46.2	42.0	37.8	42.0	63.0	79.8	92.4	117.6	117.6	105.0
80°	0.0	4.2	12.6	25.2	42.0	58.8	71.4	79.8	92.4	100.8	96.6
82.5°	0.0	4.2	12.6	25.2	37.8	46.2	63.0	67.2	75.6	88.2	88.2
85°	0.0	4.2	8.4	16.8	25.2	29.4	29.4	25.2	25.2	21.0	16.8
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	12.6	12.6	12.6	12.6	12.6
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°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
2.5°	8361.8	8231.7	8034.3	7723.5	7425.3	7232.1	7047.3	6841.5	6728.1	6719.7	6656.7
5°	8462.6	8168.7	7698.3	7164.9	6593.7	6102.3	5606.8	5283.4	4993.6	4834.0	4804.6
7.5°	8517.2	8135.1	7374.9	6480.3	5506.0	4703.8	4149.4	3742.0	3582.4	3464.9	3460.7
10°	8630.6	8076.3	6891.9	5573.2	4367.8	3557.3	3175.1	2990.3	2902.1	2868.5	2818.1
12.5°	8714.6	7967.1	6396.3	4640.8	3452.3	2948.3	2780.3	2738.3	2742.5	2759.3	2738.3
15°	8832.2	7870.5	5728.6	3809.2	2897.9	2654.3	2654.3	2662.7	2721.5	2729.9	2725.7
17.5°	8823.8	7681.5	5039.8	3137.3	2561.9	2528.3	2540.9	2620.7	2658.5	2671.1	2641.7
20°	8924.6	7505.1	4330.0	2679.5	2372.9	2423.3	2507.3	2528.3	2574.5	2582.9	2549.3
22.5°	8895.2	7064.1	3670.6	2318.3	2230.1	2326.7	2410.7	2435.9	2423.3	2398.1	2393.9
25°	8840.6	6686.1	3065.9	2078.9	2125.1	2230.1	2309.9	2263.7	2238.5	2242.7	2246.9
27.5°	8744.0	6207.3	2566.1	1910.9	1982.3	2137.7	2133.5	2116.7	2141.9	2120.9	2141.9
30°	8727.2	5728.6	2154.5	1759.7	1877.3	1990.7	1999.1	2028.5	2057.9	2020.1	2057.9
32.5°	8752.4	5203.6	1860.5	1667.3	1814.3	1818.5	1910.9	1940.3	1919.3	1835.3	1843.7
35°	8945.6	4800.4	1646.3	1616.9	1713.5	1717.7	1805.9	1768.1	1675.7	1625.3	1654.7
37.5°	9353.0	4464.4	1545.5	1570.7	1579.1	1633.7	1637.9	1562.3	1570.7	1566.5	1583.3
40°	9873.8	4208.2	1474.1	1528.7	1520.3	1558.1	1406.9	1448.9	1486.7	1499.3	1507.7
42.5°	10230.8	4023.4	1427.9	1461.5	1444.7	1377.5	1293.5	1335.5	1364.9	1411.1	1419.5
45°	10390.4	3876.4	1373.3	1343.9	1343.9	1222.1	1188.5	1196.9	1264.1	1314.5	1306.1
47.5°	10130.0	3733.6	1276.7	1188.5	1217.9	1117.2	1079.4	1079.4	1150.8	1213.7	1201.1
48°	10029.2	3674.8	1280.9	1155.0	1176.0	1100.4	1062.6	1054.2	1134.0	1192.7	1192.7
50°	9529.4	3456.5	1171.8	1062.6	1020.6	1012.2	987.0	995.4	1045.8	1100.4	1100.4
52.5°	8555.0	2986.1	991.2	911.4	835.8	886.2	898.8	882.0	907.2	957.6	953.4
55°	7139.7	2293.1	793.8	756.0	697.2	751.8	777.0	756.0	730.8	768.6	768.6
57.5°	4573.6	1234.7	634.2	642.6	583.8	638.4	659.4	609.0	562.8	592.2	588.0
60°	2062.1	739.2	520.8	508.2	470.4	533.4	567.0	508.2	445.2	466.2	487.2
62.5°	772.8	525.0	394.8	386.4	378.0	436.8	453.6	407.4	344.4	357.0	361.2
65°	567.0	462.0	315.0	285.6	302.4	344.4	336.0	289.8	247.8	247.8	256.2
67.5°	483.0	403.2	256.2	222.6	222.6	226.8	210.0	184.8	172.2	180.6	189.0
70°	378.0	319.2	201.6	172.2	155.4	138.6	121.8	117.6	105.0	117.6	113.4
72.5°	243.6	214.2	155.4	130.2	117.6	96.6	79.8	75.6	63.0	58.8	58.8
75°	130.2	130.2	121.8	105.0	92.4	75.6	63.0	50.4	33.6	25.2	25.2
77.5°	92.4	100.8	109.2	100.8	84.0	63.0	50.4	33.6	16.8	8.4	8.4
80°	88.2	100.8	109.2	96.6	84.0	63.0	46.2	25.2	12.6	4.2	4.2
82.5°	79.8	92.4	100.8	88.2	75.6	54.6	42.0	25.2	12.6	4.2	4.2
85°	16.8	21.0	25.2	25.2	29.4	37.8	29.4	21.0	8.4	4.2	4.2
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	8.4	8.4	4.2	4.2	4.2
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)