

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: P457248

Luminaire Tested: **GALN-SA8C-750-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-750-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55569 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - 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

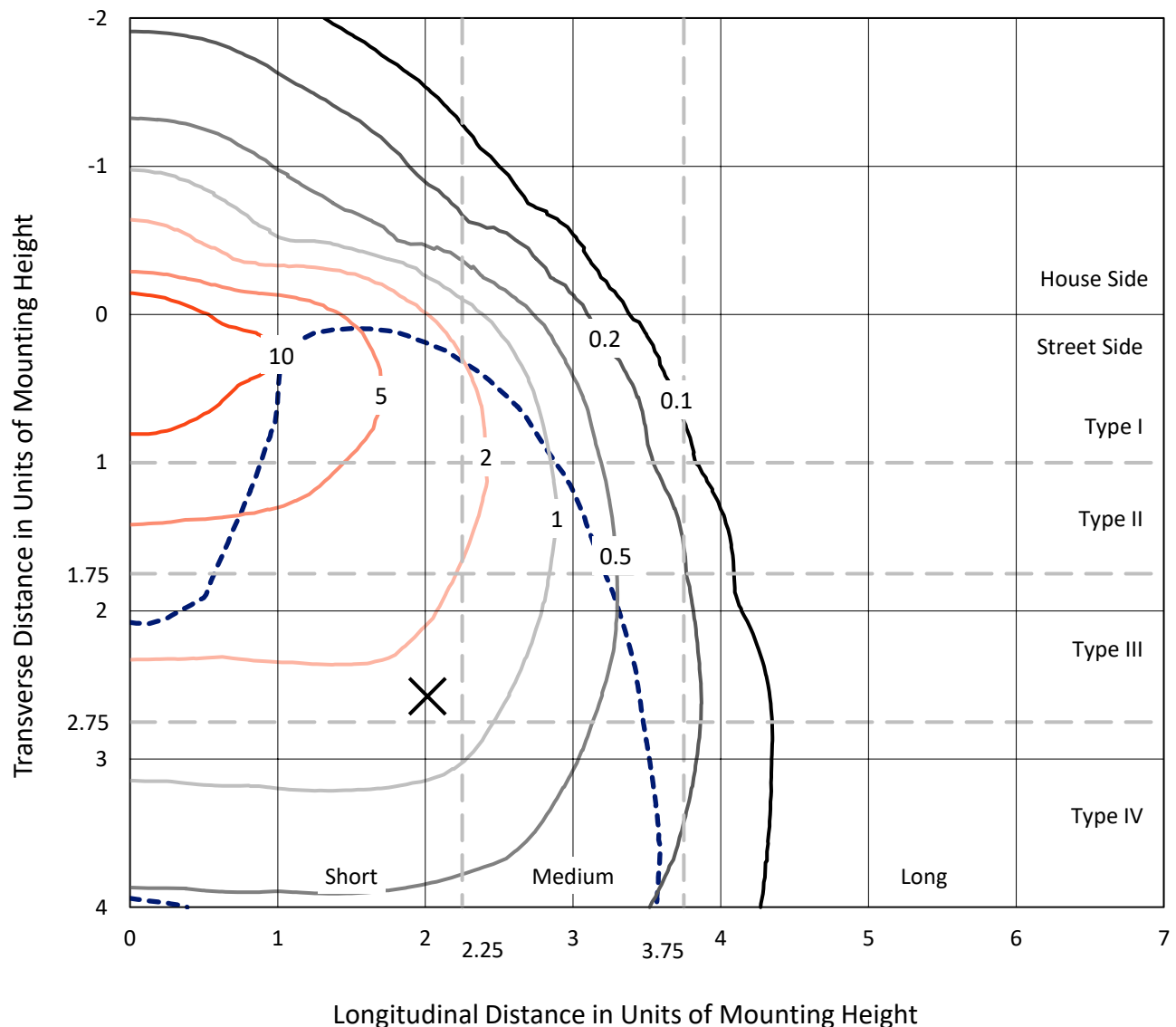


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

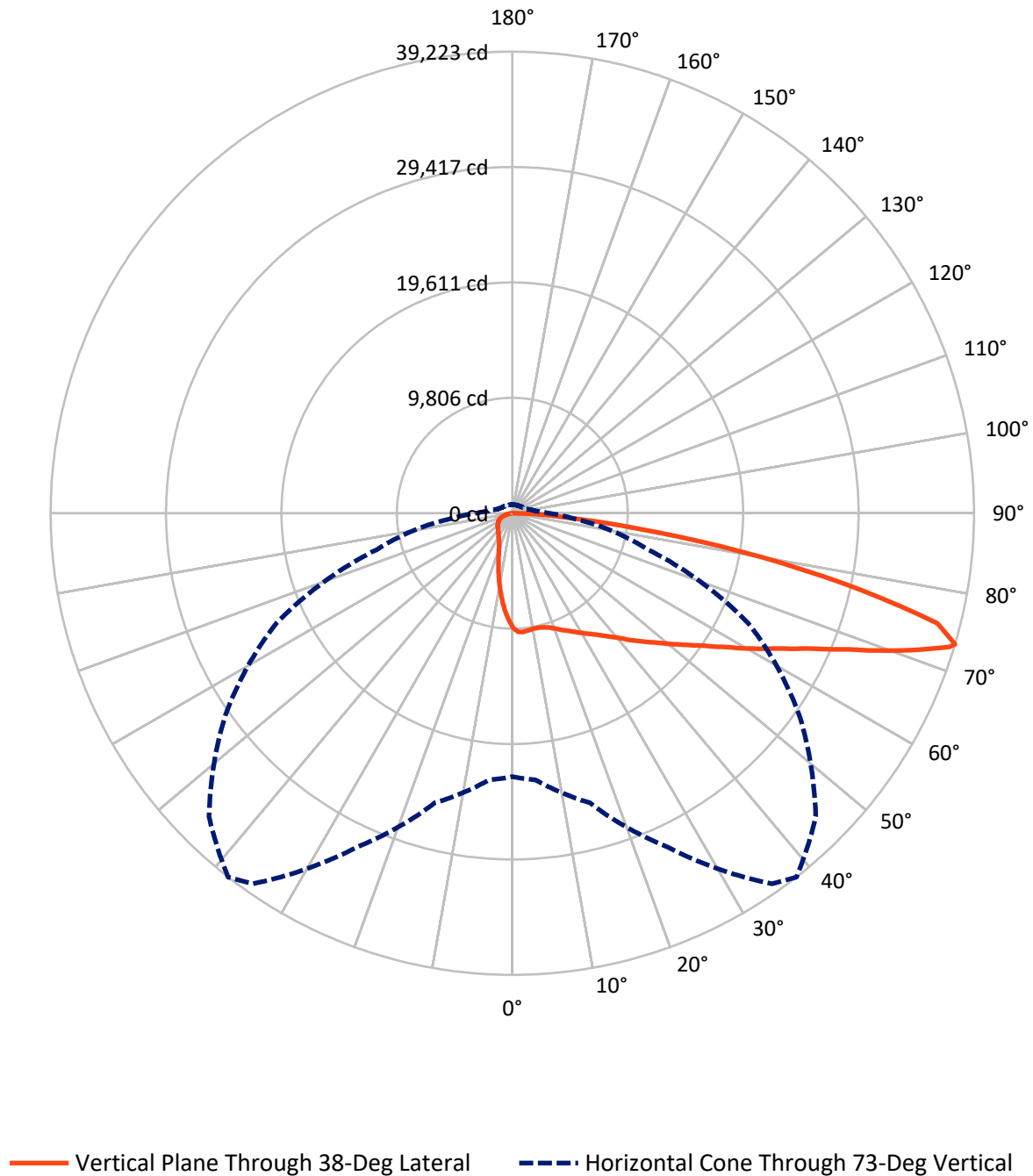


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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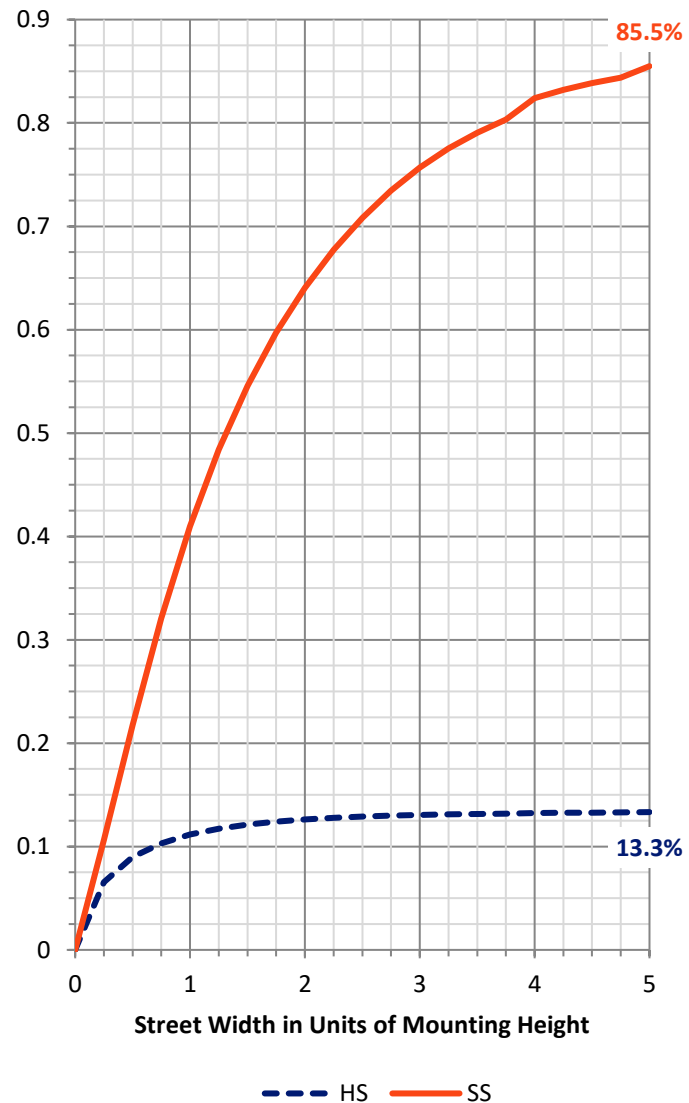
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7470.1	0.0	7470.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	48098.9	0.0	48098.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	55569.0	0.0	55569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.1	1.5
10°-20°	2185.2	3.9
20°-30°	3402.8	6.1
30°-40°	4991.1	9.0
40°-50°	7403.8	13.3
50°-60°	10489.7	18.9
60°-70°	13306.5	23.9
70°-80°	11076.6	19.9
80°-90°	1861.0	3.3
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°	55569.0	100.0
0°-180°	55569.0	100.0

**Coefficient of Utilization**



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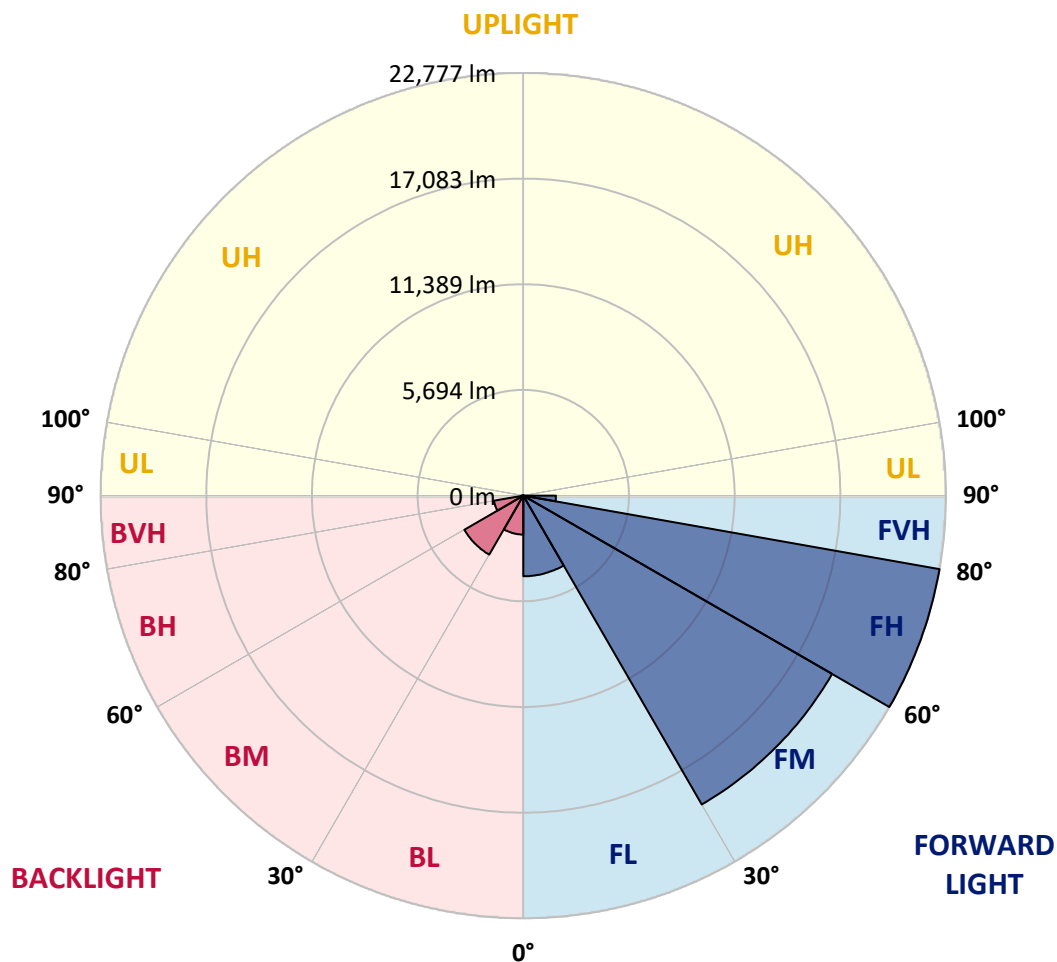
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4344.0	7.8			
FM	(30°-60°)	19217.3	34.6			
FH	(60°-80°)	22777.5	41.0			G5
FVH	(80°-90°)	1760.1	3.2			G5
BL	(0°-30°)	2096.2	3.8	B3/2500		
BM	(30°-60°)	3667.4	6.6	B3/5000		
BH	(60°-80°)	1605.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	100.9	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5
2.5°	10154.8	10205.0	10179.9	10145.4	10123.4	10101.4	10070.1	9979.1	9906.9	9828.4	9706.0
5°	10230.1	10261.5	10239.5	10195.6	10145.4	10123.4	10063.8	9944.5	9828.4	9696.6	9514.6
7.5°	10186.2	10198.7	10173.6	10120.3	10076.3	10035.5	9966.5	9834.7	9693.5	9533.5	9295.0
10°	10029.3	10076.3	10076.3	10032.4	9988.5	9966.5	9897.5	9771.9	9643.3	9461.3	9178.9
12.5°	9900.6	9950.8	9991.6	9979.1	9975.9	9975.9	9922.6	9828.4	9677.8	9505.2	9169.4
15°	9812.7	9872.4	9960.2	10010.4	10041.8	10051.2	10029.3	9947.7	9793.9	9593.1	9207.1
17.5°	9793.9	9866.1	10026.1	10136.0	10217.6	10214.4	10208.1	10095.2	9925.7	9718.6	9254.2
20°	9878.6	9972.8	10195.6	10368.2	10487.4	10465.5	10430.9	10283.5	10085.8	9853.5	9298.1
22.5°	10132.8	10230.1	10474.9	10663.2	10779.3	10779.3	10675.7	10481.1	10270.9	10010.4	9357.7
25°	10496.8	10603.5	10864.0	11055.4	11108.8	11068.0	10964.4	10729.1	10487.4	10236.4	9483.2
27.5°	10942.4	11071.1	11312.7	11472.8	11457.1	11425.7	11319.0	11017.8	10776.1	10547.0	9696.6
30°	11497.9	11592.0	11843.1	11880.7	11824.2	11818.0	11667.3	11366.1	11140.1	10964.4	10001.0
32.5°	12021.9	12106.7	12307.5	12323.2	12222.8	12235.3	12094.1	11818.0	11689.3	11626.5	10512.5
35°	12577.4	12621.3	12793.9	12775.1	12709.2	12699.8	12643.3	12379.7	12420.5	12533.4	11237.4
37.5°	13041.8	13129.7	13227.0	13242.6	13239.5	13270.9	13308.5	13183.0	13418.4	13773.0	12188.3
40°	13468.6	13543.9	13688.3	13738.5	13860.8	13923.6	14052.3	14055.4	14598.3	15182.0	13358.8
42.5°	13757.3	13886.0	14155.8	14246.8	14544.9	14733.2	14924.7	15128.6	15916.3	16666.3	14739.5
45°	14008.3	14177.8	14626.5	14909.0	15313.8	15542.9	15947.7	16374.4	17507.3	18489.5	16142.2
47.5°	14388.0	14538.7	15053.3	15552.3	16164.2	16427.8	17033.4	17670.5	19151.6	20228.0	17485.3
50°	14915.2	15006.2	15530.3	16343.1	17124.4	17463.4	18263.6	19183.0	20909.0	21944.5	18665.2
52.5°	15589.9	15627.6	16044.9	17127.6	18156.9	18577.4	19638.0	20711.3	22446.6	23435.1	19600.4
55°	16387.0	16324.2	16650.6	17959.2	19336.8	19885.9	21025.1	22258.3	24175.7	24640.1	20281.3
57.5°	17174.6	17077.4	17337.8	18969.6	20792.8	21455.0	22782.4	23852.5	25719.6	25766.7	20758.3
60°	18009.4	17937.2	18247.9	20155.8	22578.4	23362.9	24589.9	25506.2	27213.3	26551.2	20833.6
62.5°	18866.1	18750.0	19192.4	21489.5	24589.9	25302.2	26491.6	27263.5	28678.8	26843.0	20108.7
65°	19697.7	19644.3	20328.4	23074.2	26880.7	27690.3	28845.1	29369.2	29852.4	26403.7	18310.6
67.5°	20582.6	20689.3	21781.3	25189.3	29868.1	30884.9	32130.7	31638.0	30188.2	24323.2	15420.5
70°	21932.0	22001.0	23689.3	27960.2	33718.5	34945.5	35548.0	32444.5	28569.0	20372.3	11592.0
72.5°	22512.5	22816.9	25393.3	30869.2	38093.0	38843.0	36696.6	30646.4	23799.1	13838.9	6091.0
73°	22383.8	22747.9	25471.7	31311.6	38435.1	39222.7	36451.8	29720.6	22123.4	11918.4	5221.7
75°	20780.3	21229.0	24451.8	30941.4	37769.8	37299.1	32516.7	25330.5	14949.8	5419.4	2378.7
77.5°	16396.4	16525.1	19374.4	24985.3	29742.6	28870.2	24335.7	15831.6	6106.7	2014.6	1349.4
80°	8224.9	8698.7	10920.5	14312.7	19889.1	19603.5	15360.8	7487.4	2545.0	1183.1	894.3
82.5°	3957.1	4292.9	5319.0	6979.1	10989.5	10729.1	7606.7	4092.0	1616.1	690.4	527.2
85°	2548.1	2799.2	3386.0	3329.5	4518.8	4314.8	3417.4	3097.3	957.1	360.9	367.2
87.5°	1682.0	1842.0	2209.2	1766.7	1644.3	1487.4	1509.4	1744.8	188.3	138.1	50.2
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°	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5	9762.5
2.5°	9655.8	9615.0	9480.1	9348.3	9222.8	9103.5	9025.1	8921.5	8852.5	8871.3	8899.6
5°	9414.2	9323.2	9084.7	8852.5	8632.8	8372.4	8162.1	7992.7	7864.0	7816.9	7807.5
7.5°	9160.0	9006.3	8664.2	8265.7	7892.2	7569.0	7195.6	7010.4	6793.9	6718.6	6693.5
10°	9006.3	8799.1	8319.0	7763.6	7201.9	6665.3	6260.4	5930.9	5632.8	5576.3	5548.1
12.5°	8962.3	8689.3	8042.9	7327.4	6580.5	5921.5	5322.2	4889.1	4600.4	4534.5	4437.2
15°	8937.2	8598.3	7785.5	6888.1	5940.4	5137.0	4506.3	4001.0	3737.4	3561.7	3564.8
17.5°	8915.3	8494.8	7496.8	6407.9	5388.1	4462.3	3765.7	3310.7	3069.0	2974.9	2965.5
20°	8883.9	8372.4	7164.2	5902.7	4757.3	3847.3	3216.5	2877.6	2714.4	2636.0	2632.8
22.5°	8871.3	8253.1	6837.9	5388.1	4198.7	3373.4	2852.5	2614.0	2510.5	2457.1	2457.1
25°	8902.7	8168.4	6495.8	4898.5	3702.9	2968.6	2601.5	2438.3	2378.7	2350.4	2341.0
27.5°	9000.0	8130.7	6156.9	4409.0	3247.9	2692.5	2432.0	2319.0	2275.1	2253.1	2256.3
30°	9185.1	8127.6	5824.3	3925.7	2909.0	2482.2	2297.1	2218.6	2184.1	2171.5	2168.4
32.5°	9483.2	8196.6	5497.9	3527.2	2623.4	2306.5	2171.5	2115.1	2099.4	2090.0	2086.8
35°	9988.5	8391.2	5174.7	3163.2	2403.8	2149.6	2052.3	2024.1	2002.1	2011.5	2014.6
37.5°	10669.4	8727.0	4867.1	2877.6	2237.4	2033.5	1951.9	1926.8	1914.2	1923.6	1933.1
40°	11582.6	9210.2	4609.8	2648.5	2118.2	1936.2	1864.0	1842.0	1829.5	1845.2	1848.3
42.5°	12589.9	9768.8	4396.4	2469.7	2020.9	1854.6	1785.6	1760.5	1751.0	1760.5	1763.6
45°	13625.5	10418.4	4286.6	2341.0	1939.3	1795.0	1722.8	1694.6	1672.6	1666.3	1675.7
47.5°	14645.4	10983.2	4283.5	2262.5	1873.4	1741.6	1663.2	1631.8	1603.6	1587.9	1584.7
50°	15477.0	11432.0	4358.8	2228.0	1816.9	1682.0	1603.6	1572.2	1534.5	1503.1	1509.4
52.5°	16104.6	11723.8	4393.3	2212.3	1785.6	1619.2	1540.8	1512.5	1468.6	1427.8	1427.8
55°	16509.4	11792.9	4308.6	2196.6	1760.5	1553.3	1468.6	1443.5	1399.6	1358.8	1358.8
57.5°	16647.5	11579.5	4004.2	2159.0	1735.4	1496.9	1396.4	1374.5	1340.0	1299.2	1292.9
60°	16327.4	10857.7	3470.7	2046.0	1685.1	1437.2	1318.0	1308.6	1296.0	1261.5	1258.4
62.5°	15094.1	9326.3	2890.2	1898.5	1600.4	1374.5	1245.8	1261.5	1270.9	1252.1	1249.0
65°	13041.8	7572.2	2469.7	1694.6	1487.4	1286.6	1167.4	1208.2	1233.3	1233.3	1227.0
67.5°	10578.4	5814.8	2080.5	1518.8	1346.2	1167.4	1079.5	1110.9	1129.7	1123.4	1139.1
70°	7518.8	3938.3	1694.6	1318.0	1167.4	1032.4	966.5	966.5	954.0	947.7	947.7
72.5°	3646.4	2250.0	1374.5	1101.5	994.8	881.8	828.5	806.5	781.4	778.2	762.6
73°	3047.1	2017.8	1311.7	1060.7	954.0	859.8	800.2	765.7	750.0	737.4	734.3
75°	1854.6	1531.4	1095.2	894.3	812.8	740.6	687.2	655.9	640.2	630.8	627.6
77.5°	1220.7	1142.3	850.4	684.1	621.3	577.4	555.4	524.1	514.6	502.1	502.1
80°	910.0	872.4	608.8	483.3	445.6	407.9	401.7	395.4	370.3	354.6	348.3
82.5°	586.8	621.3	414.2	323.2	282.4	251.0	254.2	263.6	238.5	216.5	210.3
85°	417.4	448.7	251.0	147.5	119.2	103.6	116.1	103.6	106.7	84.7	69.0
87.5°	69.0	119.2	43.9	18.8	9.4	6.3	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)