

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: P650932

Luminaire Tested: **GALN-SA5C-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650932  
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-SA5C-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30300.4 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

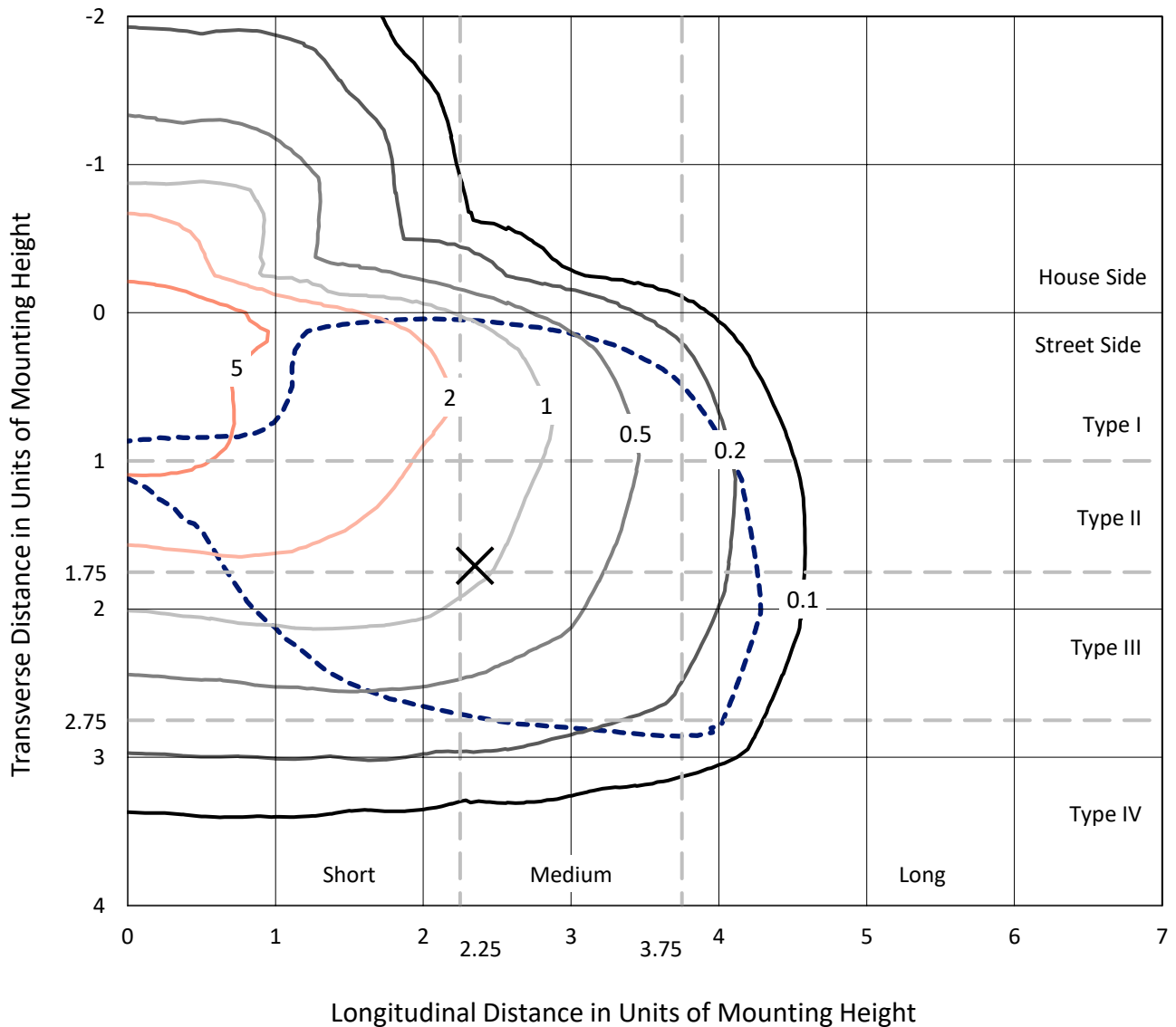
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

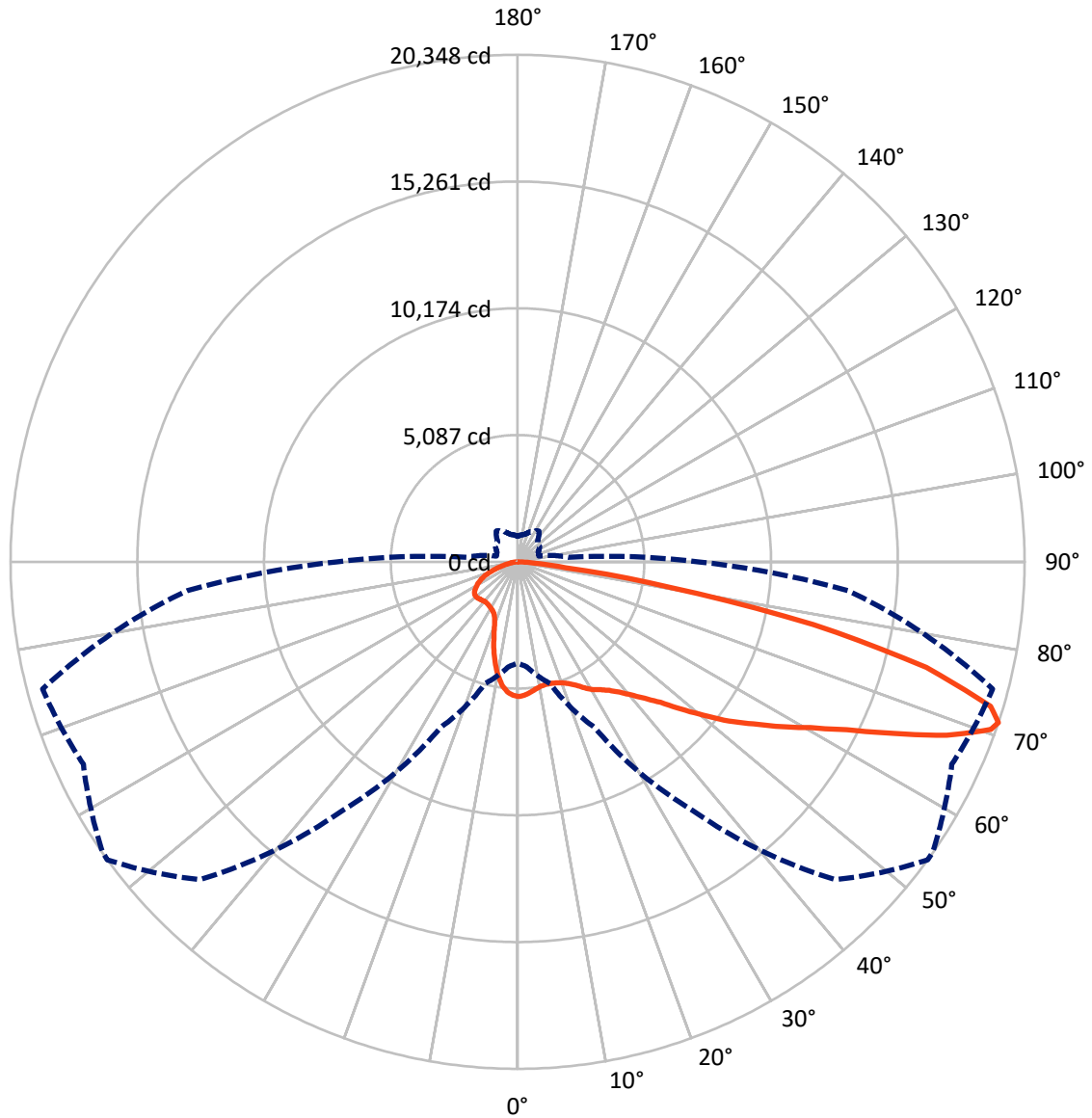
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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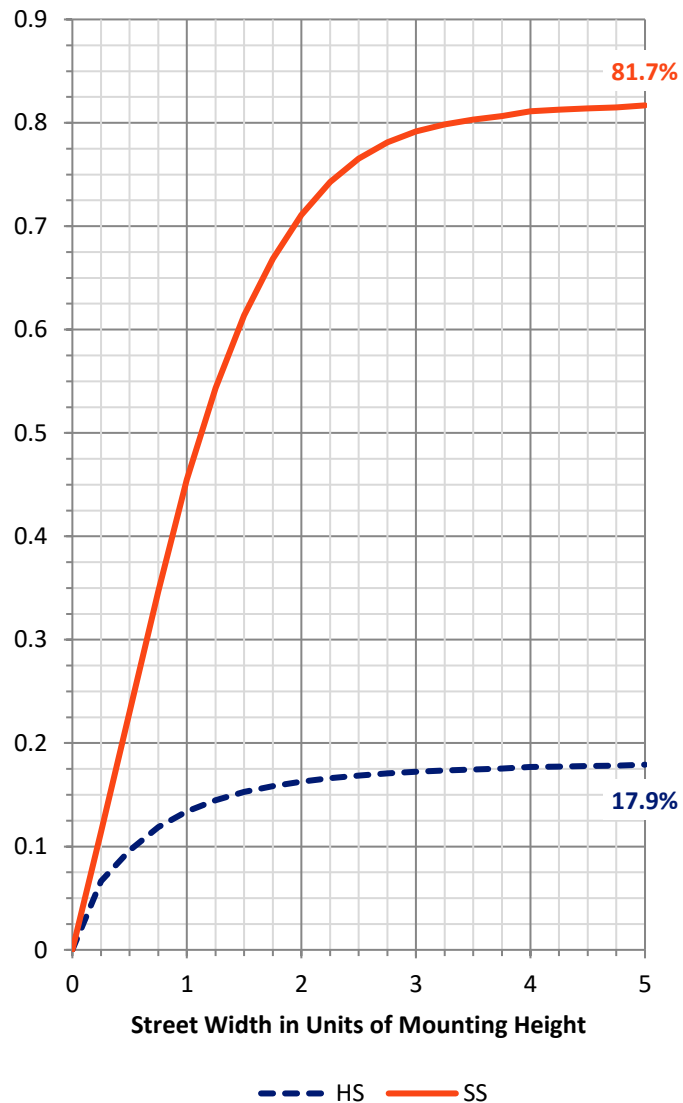
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5470.6	0.0	5470.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	24829.9	0.0	24829.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	30300.4	0.0	30300.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.8	1.6
10°-20°	1272.1	4.2
20°-30°	2118.1	7.0
30°-40°	3132.0	10.3
40°-50°	4411.5	14.6
50°-60°	5907.1	19.5
60°-70°	7445.5	24.6
70°-80°	5085.2	16.8
80°-90°	447.2	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°	30300.4	100.0
0°-180°	30300.4	100.0

**Coefficient of Utilization**



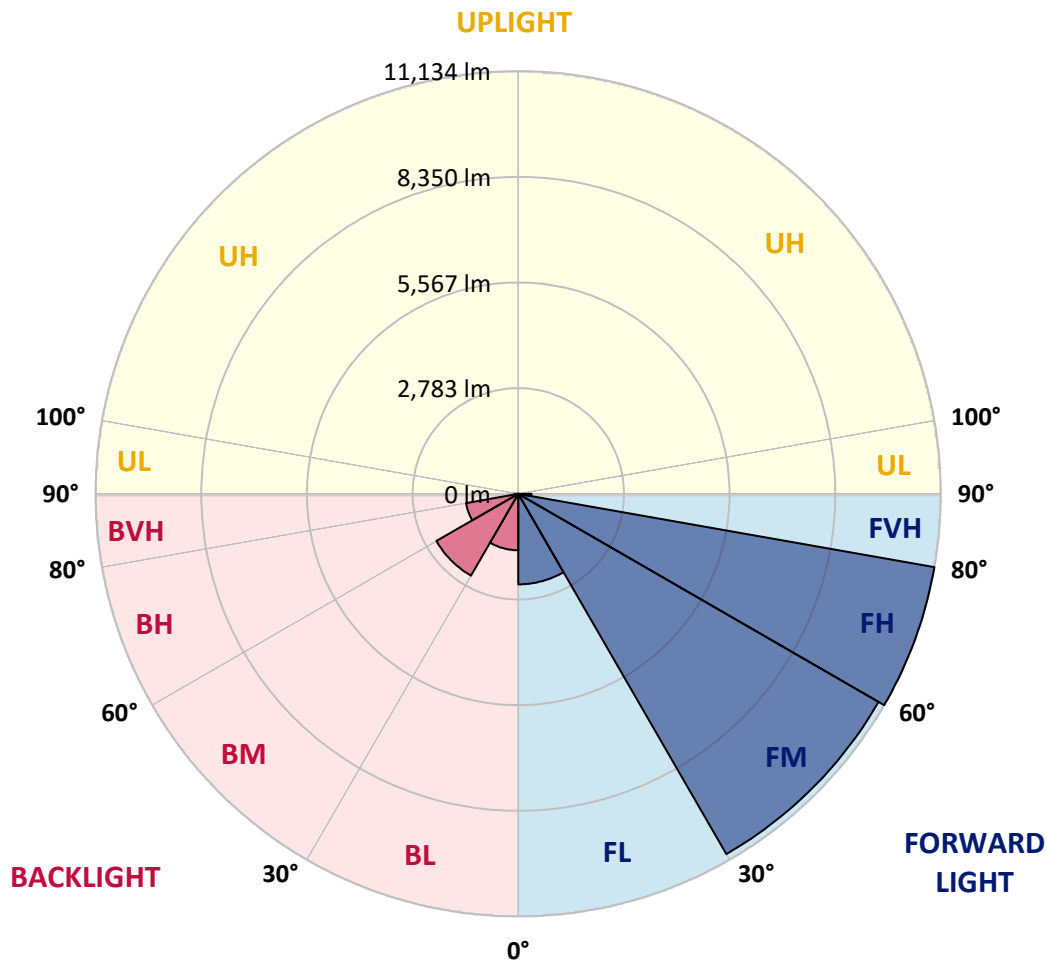
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.1	7.9			
FM (30°-60°)	10961.6	36.2			
FH (60°-80°)	11133.6	36.7			G4/12000
FVH (80°-90°)	349.6	1.2			G3/500
BL (0°-30°)	1486.8	4.9	B3/2500		
BM (30°-60°)	2488.9	8.2	B2/2500		
BH (60°-80°)	1397.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	97.7	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0
2.5°	5222.7	5247.3	5253.8	5270.2	5304.5	5332.4	5360.2	5356.9	5396.2	5412.6	5427.3
5°	4990.3	4996.9	5021.4	5054.2	5114.7	5191.7	5266.9	5268.5	5365.2	5442.0	5479.7
7.5°	4820.1	4841.4	4857.7	4892.1	4955.9	5039.4	5158.9	5168.7	5340.6	5492.8	5573.0
10°	4708.8	4733.3	4751.4	4793.9	4857.7	4951.1	5080.3	5098.3	5322.6	5573.0	5713.8
12.5°	4607.3	4631.9	4648.2	4703.9	4787.4	4901.9	5047.6	5068.9	5329.1	5666.2	5867.6
15°	4669.5	4689.2	4682.6	4699.0	4754.6	4885.5	5060.7	5082.0	5353.6	5756.3	6019.8
17.5°	4946.1	4962.5	4908.5	4846.3	4820.1	4916.7	5101.6	5124.5	5402.8	5849.6	6175.3
20°	5353.6	5397.9	5280.1	5140.9	5014.9	5027.9	5186.7	5211.3	5471.5	5942.8	6334.1
22.5°	5884.0	5916.7	5772.6	5543.5	5311.1	5191.7	5314.4	5329.1	5574.7	6064.0	6507.6
25°	6507.6	6527.2	6327.5	6032.9	5697.4	5471.5	5489.5	5515.7	5744.9	6201.4	6661.4
27.5°	7113.1	7175.3	6944.6	6584.4	6142.6	5766.1	5730.1	5746.5	5929.8	6278.4	6767.8
30°	7831.6	7826.8	7582.9	7165.5	6599.2	6086.9	5957.6	5954.4	6029.6	6316.1	6844.7
32.5°	8404.4	8471.6	8232.6	7777.7	7121.3	6419.2	6114.7	6108.2	6106.6	6381.5	6959.3
35°	9055.9	9065.7	8846.4	8388.1	7686.0	6836.5	6334.1	6301.3	6263.7	6522.3	7114.8
37.5°	9638.5	9684.4	9483.0	8969.2	8240.8	7270.3	6635.2	6614.0	6499.3	6766.2	7363.5
40°	10093.6	10127.9	10006.8	9517.4	8787.4	7738.4	7018.2	6978.9	6839.8	7165.5	7695.8
42.5°	10242.5	10312.8	10360.4	10119.8	9416.0	8293.2	7489.5	7440.5	7334.1	7771.1	8078.8
45°	10254.0	10365.2	10615.7	10627.1	10047.8	8957.7	8039.5	8005.1	7996.9	8546.9	8617.2
47.5°	10167.2	10280.1	10700.8	10928.3	10610.7	9628.8	8833.3	8779.3	8784.2	9506.0	9221.2
50°	9957.7	10091.9	10602.6	11121.4	11051.1	10326.0	9671.3	9653.3	9754.8	10601.0	9848.0
52.5°	9563.3	9725.3	10501.1	11242.5	11378.4	10926.6	10623.8	10573.1	10830.1	11789.2	10533.9
55°	8471.6	8715.5	10129.6	11309.6	11689.3	11501.1	11481.5	11573.2	11913.6	13085.5	11288.3
57.5°	7902.0	8085.3	9322.7	11321.1	12082.1	12168.9	12483.1	12506.1	13101.9	14461.9	12141.1
60°	7591.0	7753.1	8880.8	11245.8	12630.5	12995.5	13507.7	13589.6	14262.3	15952.9	13024.9
62.5°	7319.3	7458.5	8615.6	10985.6	13249.1	14221.3	14835.1	14874.3	15579.8	17599.5	13897.3
65°	6679.4	6838.2	8082.0	10725.4	13782.7	15753.3	16596.2	16550.4	16982.5	19020.1	14443.9
67.5°	5816.9	6018.2	7085.3	9826.7	14046.2	17427.6	18579.9	18522.6	18367.1	19951.5	14601.0
70°	4715.3	4823.4	5810.3	8273.5	12993.8	18306.6	20146.2	20085.7	19224.8	20074.2	13858.0
71°	4057.4	4225.9	5059.0	7348.8	12118.1	18038.1	20347.5	20331.2	19226.4	19735.4	13298.2
72.5°	3167.0	3270.1	4006.7	5694.1	10299.8	16512.7	19850.0	19912.2	18809.0	18794.2	12144.4
75°	2003.3	2049.2	2514.0	3352.0	5651.5	11694.3	16944.8	17113.4	16700.9	15383.4	9031.3
77.5°	1163.7	1222.6	1505.8	1975.5	2441.9	6347.1	12124.7	12308.0	11604.2	8470.0	3697.3
80°	677.6	743.0	991.9	1147.3	1121.1	2355.2	6173.6	6486.3	5024.7	2139.2	1037.7
82.5°	376.4	420.7	697.3	698.9	597.4	769.3	1942.8	2032.8	1433.7	862.5	423.9
85°	273.3	309.3	450.1	407.5	286.4	330.6	676.0	708.7	579.4	363.3	137.5
87.5°	96.5	137.5	247.2	196.4	78.5	68.7	194.8	158.8	147.3	101.5	31.1
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°	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0	5406.0
2.5°	5435.5	5438.7	5422.4	5392.9	5363.5	5325.8	5283.2	5250.5	5235.8	5234.2	5232.5
5°	5494.4	5502.6	5440.4	5348.8	5247.3	5122.9	5016.5	4895.4	4864.3	4815.1	4829.9
7.5°	5589.4	5584.4	5461.7	5266.9	5029.6	4766.1	4543.5	4414.2	4280.0	4242.3	4243.9
10°	5725.2	5694.1	5461.7	5100.0	4703.9	4312.7	4001.7	3805.4	3699.0	3610.6	3577.9
12.5°	5869.3	5790.7	5409.3	4865.9	4284.9	3805.4	3471.5	3206.3	3137.6	3065.5	3067.2
15°	6006.7	5875.7	5306.2	4536.9	3833.2	3263.6	2939.5	2780.8	2759.5	2767.6	2766.0
17.5°	6131.1	5936.4	5149.1	4170.4	3306.1	2798.8	2626.9	2638.4	2695.7	2736.5	2741.5
20°	6257.1	5972.4	4915.1	3679.3	2808.6	2517.3	2523.8	2613.8	2700.5	2756.2	2764.4
22.5°	6376.6	5988.7	4640.0	3204.6	2448.5	2397.8	2494.3	2590.9	2676.0	2730.1	2738.2
25°	6455.2	5951.1	4250.5	2708.8	2271.7	2355.2	2456.7	2538.6	2610.5	2666.2	2679.3
27.5°	6476.5	5830.0	3767.7	2307.8	2189.9	2314.3	2407.6	2468.2	2523.8	2576.2	2586.0
30°	6465.0	5651.5	3237.4	2072.1	2142.4	2266.8	2338.8	2383.1	2450.2	2491.0	2499.3
32.5°	6447.0	5443.7	2684.2	1946.1	2103.2	2222.7	2265.2	2304.5	2302.8	2286.5	2297.9
35°	6453.5	5194.9	2235.7	1870.7	2068.8	2189.9	2226.0	2176.8	2036.1	2029.5	2022.9
37.5°	6487.9	4949.4	1910.0	1818.4	2050.8	2185.0	2204.7	1978.8	1854.4	1797.1	1782.3
40°	6576.3	4663.0	1695.6	1779.1	2049.2	2222.7	2108.1	1879.0	1640.0	1528.7	1520.5
42.5°	6694.1	4381.4	1564.7	1754.6	2068.8	2280.0	2068.8	1738.2	1478.0	1412.5	1402.6
45°	6869.3	4059.0	1492.7	1743.1	2098.3	2301.2	2055.7	1635.1	1412.5	1360.1	1360.1
47.5°	7067.3	3751.4	1453.4	1734.9	2135.9	2286.5	1939.5	1602.4	1381.3	1387.9	1419.0
50°	7263.7	3484.5	1423.9	1716.9	2168.6	2278.3	1892.0	1600.7	1389.6	1473.0	1528.7
52.5°	7491.2	3296.3	1387.9	1687.5	2168.6	2226.0	1877.3	1633.4	1412.5	1437.0	1461.6
55°	7766.1	3237.4	1342.1	1623.6	2129.3	2095.0	1869.1	1680.9	1428.9	1371.6	1381.3
57.5°	8129.5	3332.3	1297.9	1543.4	2039.3	1959.1	1865.8	1694.0	1391.2	1343.7	1333.9
60°	8551.8	3520.6	1284.8	1461.6	1916.6	1843.0	1846.2	1656.3	1338.8	1289.8	1297.9
62.5°	8848.0	3633.5	1276.6	1399.4	1782.3	1715.3	1798.7	1610.5	1315.9	1273.4	1281.5
65°	8848.0	3496.0	1201.4	1304.5	1608.9	1561.4	1741.5	1553.2	1286.5	1237.4	1229.2
67.5°	8512.5	3095.0	1086.7	1162.1	1417.4	1386.3	1661.2	1484.5	1242.2	1204.6	1185.0
70°	7638.5	2347.1	942.8	995.2	1175.1	1203.0	1558.1	1391.2	1168.6	1122.8	1093.3
71°	7253.9	2044.2	882.2	910.0	1081.9	1122.8	1509.0	1351.9	1135.9	1070.4	1018.0
72.5°	6512.5	1721.8	790.5	802.0	924.8	998.4	1405.9	1276.6	1073.7	980.4	921.5
75°	4947.8	1257.0	636.6	630.2	684.2	792.1	1189.8	1137.5	941.1	815.1	780.7
77.5°	2137.6	684.2	476.3	481.2	464.8	600.6	936.2	977.1	806.9	662.9	631.8
80°	648.2	394.4	325.7	332.3	311.0	402.7	659.6	766.0	648.2	515.5	473.0
82.5°	332.3	235.6	222.6	219.3	198.1	227.5	399.4	523.8	463.2	322.4	284.8
85°	144.1	126.1	109.7	106.4	93.3	81.8	142.4	261.9	245.5	180.1	171.8
87.5°	36.0	32.7	21.3	19.7	11.4	1.6	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)