

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: P383470

Luminaire Tested: **GLEON-SA7D-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52448.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

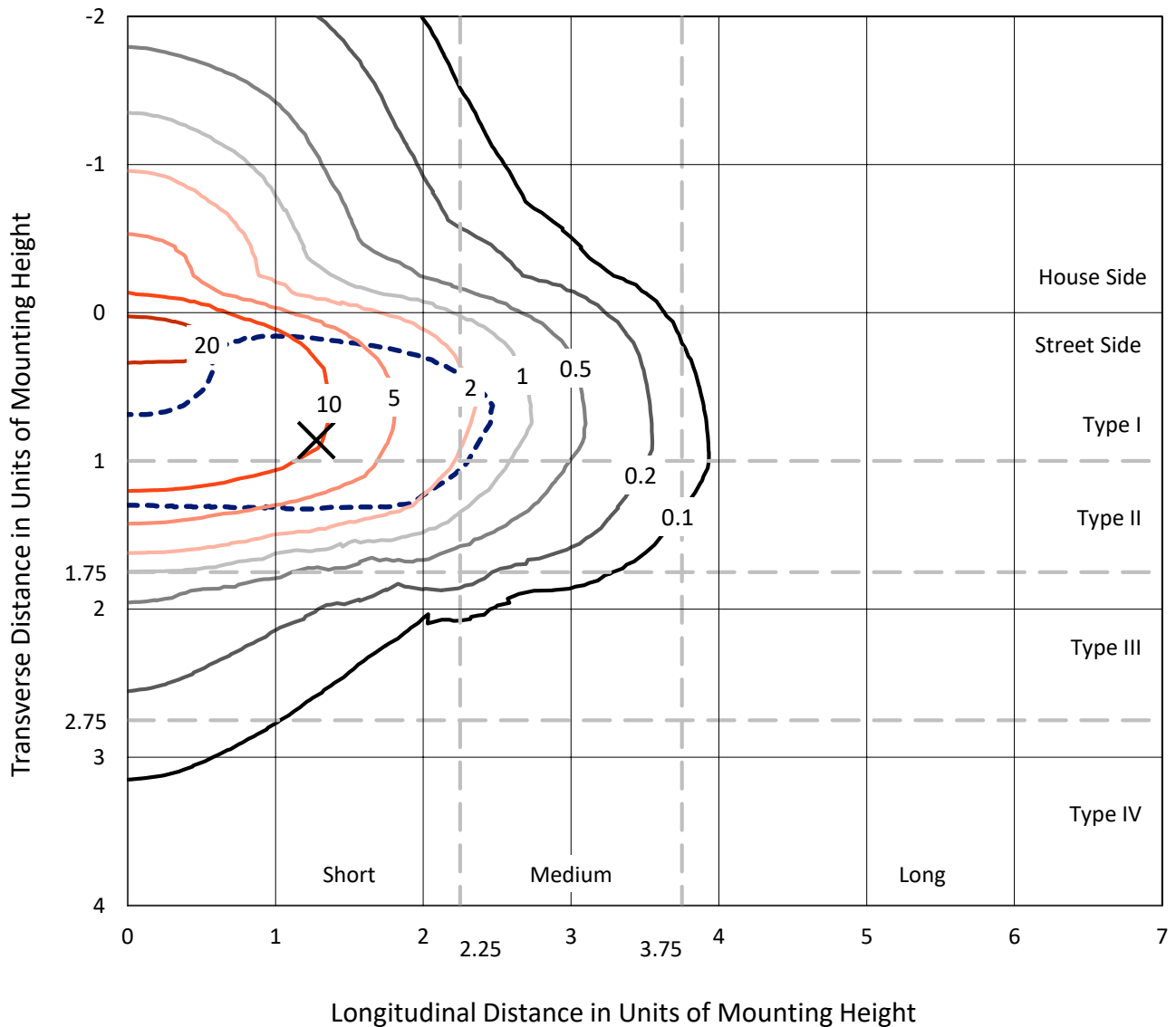
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

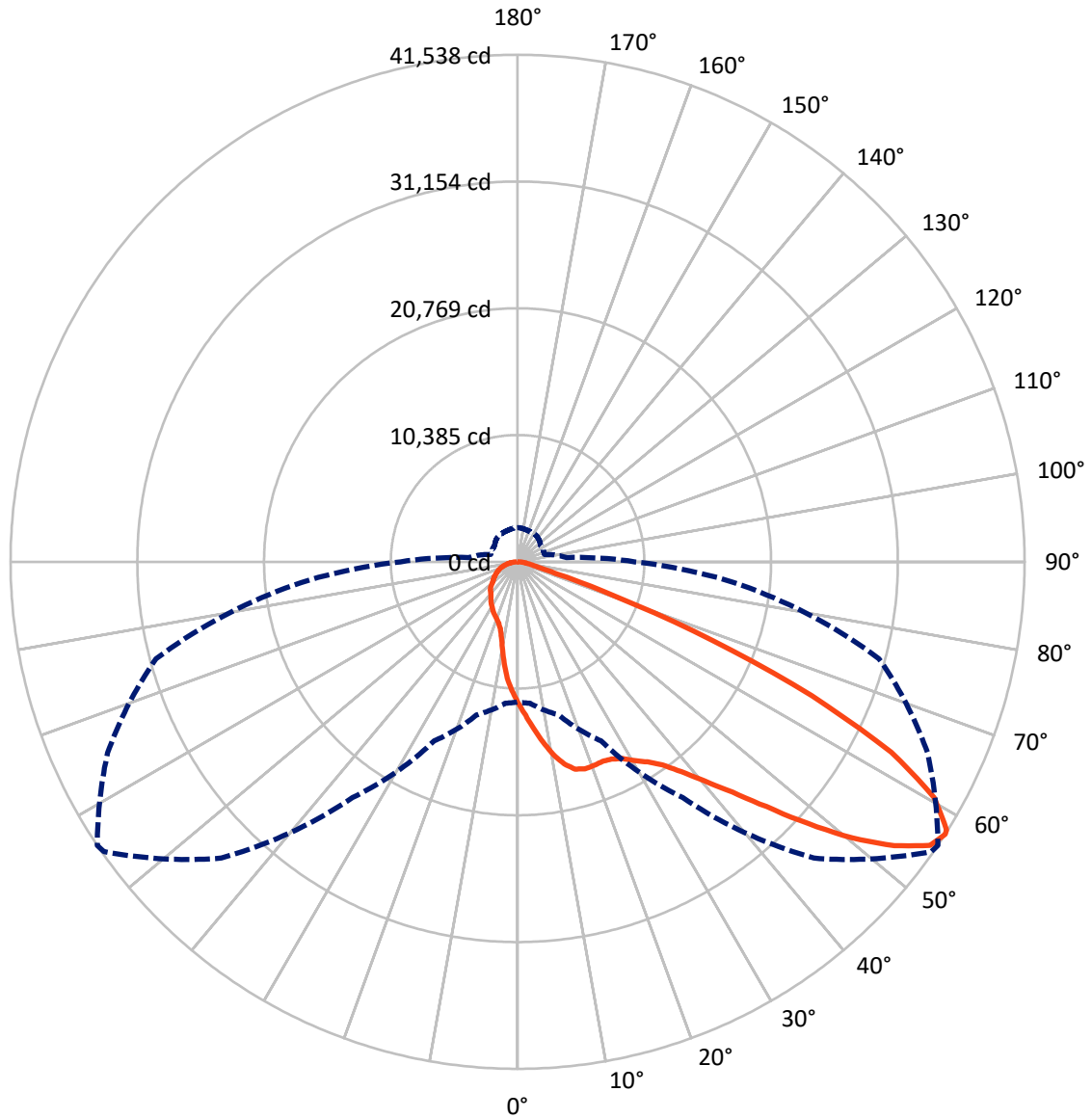
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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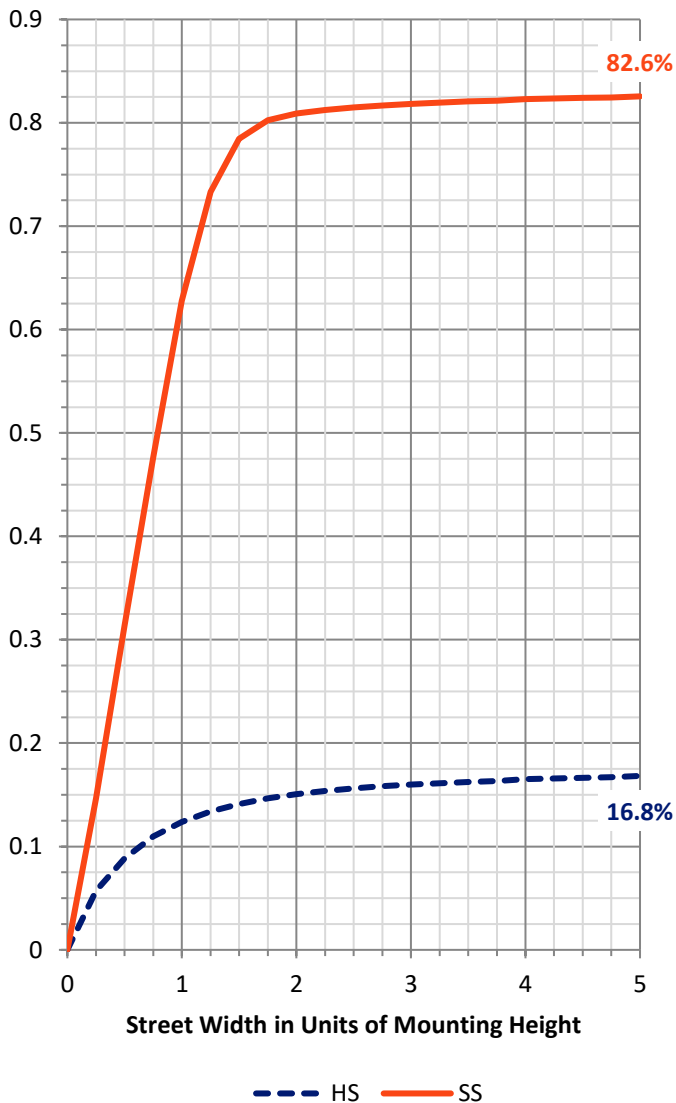
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9041.1	0.0	9041.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	43407.9	0.0	43407.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	52448.9	0.0	52448.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1111.3	2.1
10°-20°	3141.8	6.0
20°-30°	5117.4	9.8
30°-40°	7649.9	14.6
40°-50°	11603.3	22.1
50°-60°	13005.3	24.8
60°-70°	7681.4	14.6
70°-80°	2516.7	4.8
80°-90°	621.8	1.2
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°	52448.9	100.0
0°-180°	52448.9	100.0



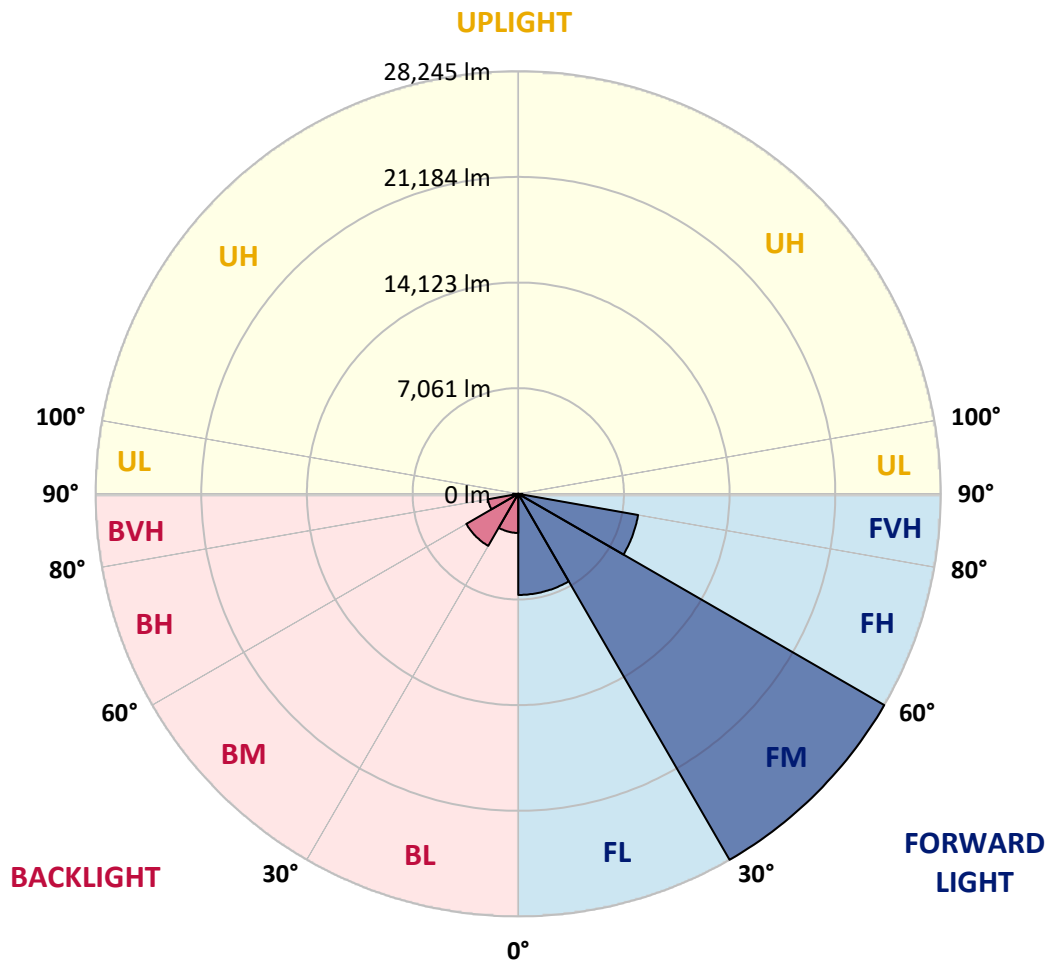
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6756.2	12.9			
FM (30°-60°)	28245.5	53.9			
FH (60°-80°)	8132.4	15.5			G4/12000
FVH (80°-90°)	273.8	0.5			G3/500
BL (0°-30°)	2614.3	5.0	B4/5000		
BM (30°-60°)	4013.0	7.7	B3/5000		
BH (60°-80°)	2065.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	348.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3
2.5°	13358.2	13480.8	13426.7	13239.2	13095.0	12891.3	12664.2	12595.7	12356.0	12087.5	11764.8
5°	15472.5	15411.2	15322.9	15030.9	14722.6	14364.0	13794.4	13704.3	13170.8	12563.3	11921.6
7.5°	16676.6	16671.2	16618.9	16447.7	16166.4	15697.8	15011.1	14904.8	14099.0	13122.1	12127.1
10°	16501.7	16489.1	16575.6	16754.1	16838.7	16741.5	16162.8	16056.5	15066.9	13740.3	12365.0
12.5°	15508.6	15515.8	15654.6	16029.5	16539.5	17152.4	17058.7	17006.4	16071.0	14439.6	12653.4
15°	14735.3	14751.5	14861.4	15187.7	15789.7	16901.9	17603.1	17621.1	17042.5	15211.1	12990.5
17.5°	14396.4	14430.7	14481.2	14710.1	15261.6	16402.6	17732.8	17830.2	17893.3	16011.4	13314.9
20°	14504.6	14537.0	14551.4	14697.4	15149.9	16099.8	17642.7	17817.5	18545.7	16764.9	13639.3
22.5°	14989.4	15009.3	15018.3	15056.1	15407.6	16186.3	17583.2	17767.0	19018.0	17440.8	13884.5
25°	15793.4	15778.9	15721.3	15672.5	15908.7	16528.7	17720.2	17895.0	19401.9	18053.7	14044.9
27.5°	16755.8	16737.9	16626.1	16492.7	16627.9	17062.3	18115.0	18253.8	19746.2	18626.9	14126.1
30°	17911.2	17864.4	17653.5	17494.9	17547.2	17862.6	18765.7	18891.8	20277.9	19277.5	14205.4
32.5°	19246.9	19196.4	18891.8	18628.6	18628.6	18891.8	19436.2	19540.7	20728.5	20013.0	14333.4
35°	20919.6	20856.5	20460.0	20018.4	19894.0	20027.3	20350.0	20423.9	21539.6	20939.4	14565.9
37.5°	22891.5	22806.8	22293.1	21701.9	21429.7	21422.5	21655.0	21806.4	22835.7	22156.1	14960.6
40°	24868.9	24809.3	24360.5	23895.5	23362.0	23190.7	23549.4	23596.3	24530.0	23666.6	15465.3
42.5°	26397.4	26386.6	26303.6	26364.9	25818.8	25472.7	25753.8	25791.8	26599.2	25301.5	16002.4
45°	27204.8	27222.9	27624.9	28515.2	28717.2	28464.8	28603.5	28614.4	28964.1	26950.7	16494.5
47.5°	26557.8	26651.5	27668.1	29659.8	31312.8	32150.9	31920.1	32053.5	31256.9	28367.5	16880.2
50°	24036.1	24151.5	25881.8	29149.7	32524.0	35718.0	35597.2	35566.6	33106.2	29405.7	17089.3
52.5°	20912.4	21002.5	22430.1	26498.2	31635.4	37689.9	38798.4	38639.8	34750.1	30182.6	17129.0
55°	16155.6	16296.2	17664.3	21206.2	28041.3	36936.4	41152.5	41010.1	36247.9	30589.9	17082.2
57°	11485.4	11633.3	12992.3	16184.5	23589.1	34328.3	41386.8	41538.2	37057.2	30658.4	17134.4
57.5°	10248.9	10400.4	11746.8	14847.0	22201.2	33385.5	41184.9	41437.3	37203.2	30647.6	17163.2
60°	5160.5	5218.2	6076.2	8287.8	14034.1	26990.4	38551.4	39202.2	37334.8	30117.7	17287.6
62.5°	3208.4	3167.0	3140.0	3817.7	6827.8	17898.7	33117.0	34369.7	34816.8	28834.3	16986.6
65°	2820.9	2743.4	2446.0	2391.9	3015.5	8693.4	24939.1	26498.2	29436.3	26811.9	16269.2
67.5°	2649.7	2574.0	2238.7	2036.8	2038.6	3446.4	15483.3	17238.9	22931.2	23392.7	14576.7
70°	2473.0	2404.5	2090.9	1852.9	1735.8	1908.8	7123.5	8455.5	14948.0	18387.2	12183.0
72.5°	2245.9	2199.0	1901.7	1656.5	1532.1	1429.4	2727.2	3221.0	8653.7	12348.8	8460.9
75°	2008.0	1964.7	1710.6	1476.2	1324.8	1124.8	1535.7	1654.7	4396.3	6317.7	4165.5
77.5°	1746.6	1721.4	1521.3	1305.0	1184.3	931.9	1086.9	1144.6	1885.4	2709.1	2089.1
80°	1389.7	1438.4	1330.2	1162.6	1050.9	746.3	769.6	807.5	1097.7	1323.0	1186.0
82.5°	904.8	989.6	1041.8	944.5	865.2	587.6	553.3	569.5	715.6	807.5	515.5
85°	376.7	423.6	685.0	618.3	575.0	429.0	371.3	378.5	443.4	459.6	210.9
87.5°	167.6	178.5	301.0	283.0	243.3	147.8	158.6	173.1	236.1	223.5	81.1
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°	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3	11633.3
2.5°	11644.1	11492.6	11233.1	10946.4	10712.1	10524.7	10335.4	10205.7	10054.3	9973.1	9931.7
5°	11653.0	11355.7	10809.5	10248.9	9747.8	9290.0	8853.8	8518.5	8204.9	8035.4	7988.6
7.5°	11690.9	11243.9	10360.7	9437.8	8547.4	7734.5	7107.1	6714.2	6431.2	6305.1	6269.0
10°	11721.6	11112.3	9805.5	8439.3	7228.0	6404.2	5917.6	5697.6	5600.3	5584.1	5567.9
12.5°	11793.7	10977.1	9221.5	7397.4	6202.3	5632.8	5463.3	5448.9	5475.9	5515.6	5515.6
15°	11907.2	10843.8	8554.6	6503.3	5549.9	5349.8	5384.0	5463.3	5537.2	5598.5	5607.5
17.5°	11990.1	10679.7	7837.2	5787.8	5201.9	5256.1	5378.6	5490.4	5566.1	5625.5	5630.9
20°	12049.6	10425.6	7071.1	5241.6	5001.9	5169.5	5322.8	5421.9	5474.1	5533.6	5542.6
22.5°	12018.9	10084.8	6391.6	4850.5	4839.7	5043.3	5189.4	5308.3	5268.6	5211.0	5248.8
25°	11871.2	9616.3	5692.2	4558.4	4668.5	4874.0	5054.2	4974.8	4841.4	4816.2	4830.6
27.5°	11608.0	9017.8	5045.2	4288.1	4470.1	4717.1	4706.3	4627.0	4580.1	4547.6	4567.5
30°	11325.0	8368.9	4479.2	4052.0	4250.3	4453.9	4412.5	4410.7	4363.8	4311.6	4336.7
32.5°	11045.6	7716.4	4030.3	3857.4	4084.5	4111.5	4201.6	4228.7	4136.7	4026.7	4019.5
35°	10802.3	7100.0	3689.7	3680.6	3884.4	3888.0	4019.5	3981.7	3752.7	3639.2	3639.2
37.5°	10620.2	6485.3	3430.1	3522.1	3621.2	3714.9	3781.6	3624.7	3586.9	3523.9	3522.1
40°	10540.9	5944.6	3267.9	3401.3	3435.5	3554.5	3383.3	3444.6	3462.6	3430.1	3430.1
42.5°	10458.0	5474.1	3127.3	3309.3	3303.9	3287.7	3201.2	3280.5	3352.6	3354.4	3349.0
45°	10375.1	5068.6	3002.9	3112.9	3188.6	3013.7	3030.0	3114.7	3215.6	3251.7	3251.7
47.5°	10283.2	4747.7	2889.4	2905.6	3022.8	2905.6	2893.0	2957.8	3076.8	3134.5	3147.1
50°	10081.3	4459.3	2759.6	2723.6	2756.0	2795.7	2806.5	2837.1	2968.7	3060.6	3082.2
52.5°	9801.9	4201.6	2593.8	2555.9	2555.9	2705.5	2756.0	2765.0	2876.8	2986.7	3008.3
55°	9569.4	4037.5	2422.5	2415.3	2408.1	2610.0	2696.6	2710.9	2788.4	2874.9	2885.7
57°	9585.6	4024.9	2291.0	2298.1	2296.4	2512.7	2640.7	2671.3	2710.9	2784.9	2797.4
57.5°	9594.6	4034.0	2262.1	2265.7	2263.9	2485.6	2624.4	2658.6	2689.3	2766.8	2779.5
60°	9729.8	4057.4	2145.0	2105.3	2114.3	2341.4	2532.5	2575.7	2595.6	2698.3	2714.5
62.5°	9529.7	3952.8	2051.3	1955.7	1955.7	2190.0	2404.5	2473.0	2503.6	2642.4	2669.4
65°	8949.3	3659.0	1941.3	1786.2	1804.3	2038.6	2251.3	2363.1	2409.9	2583.0	2611.8
67.5°	8053.5	3318.4	1824.2	1634.9	1652.8	1880.0	2092.7	2213.5	2287.3	2518.1	2541.5
70°	6887.3	2902.0	1665.5	1474.5	1496.1	1707.0	1905.2	2042.2	2152.2	2456.8	2464.0
72.5°	5077.6	2379.3	1443.8	1297.8	1321.2	1505.1	1716.0	1874.6	2022.4	2303.5	2300.0
75°	3019.1	1860.2	1198.6	1119.3	1135.6	1306.8	1544.7	1737.6	1959.3	2244.1	2278.4
77.5°	1831.3	1400.5	976.9	937.3	957.1	1131.9	1422.2	1627.6	1932.2	2116.1	2105.3
80°	1106.7	1000.4	780.5	755.2	775.0	968.0	1315.8	1544.7	1688.9	1807.9	1807.9
82.5°	578.6	611.0	573.2	553.3	580.4	785.9	1196.9	1348.2	1492.4	1281.5	1196.9
85°	236.1	319.1	347.8	346.1	362.3	544.3	1032.8	1153.6	962.6	913.8	935.5
87.5°	79.3	135.2	169.4	146.0	153.2	342.4	715.6	557.0	661.5	461.4	438.0
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)