

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: P269497

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35896.6 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 391  
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: 25 FT

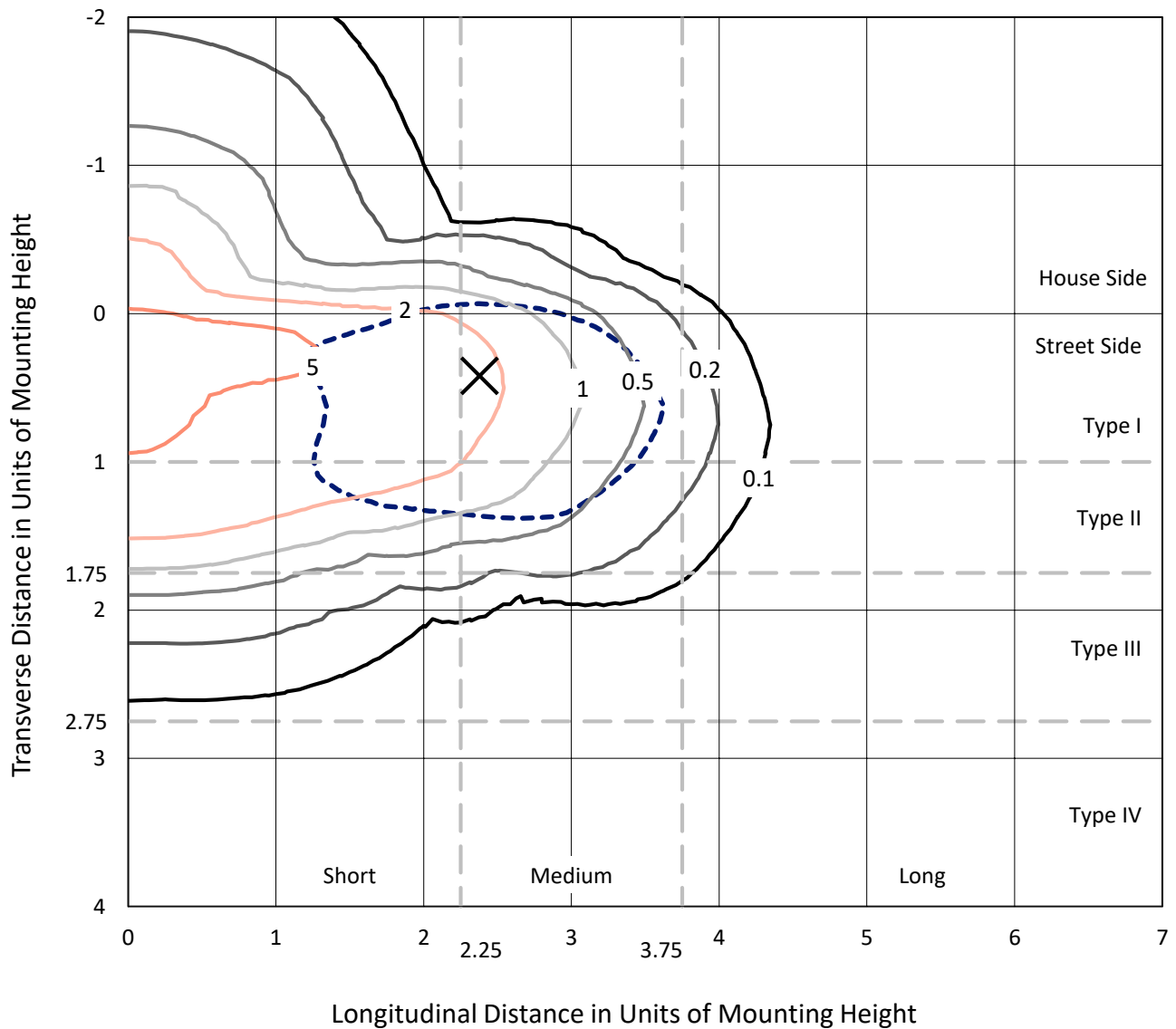


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

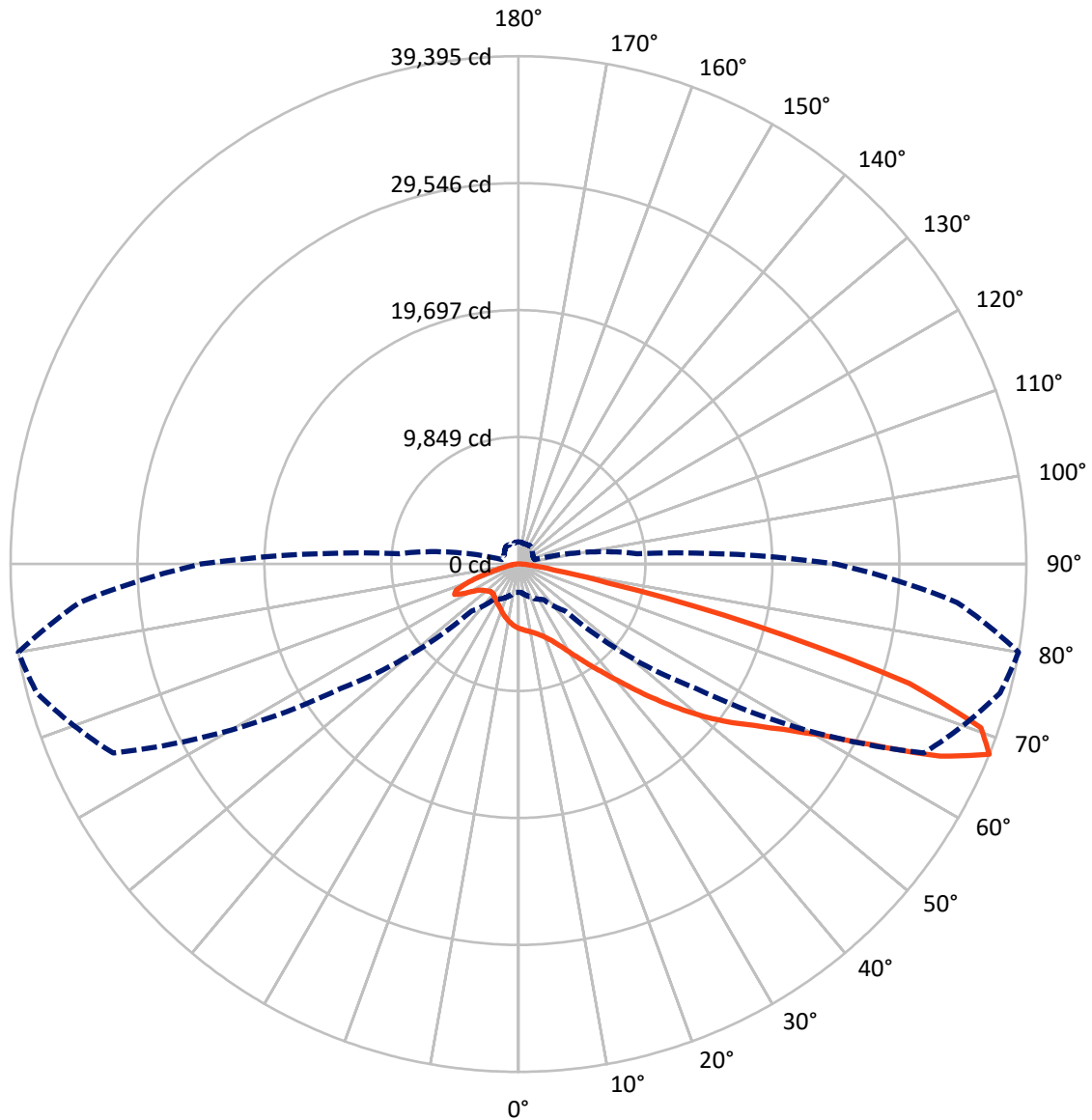


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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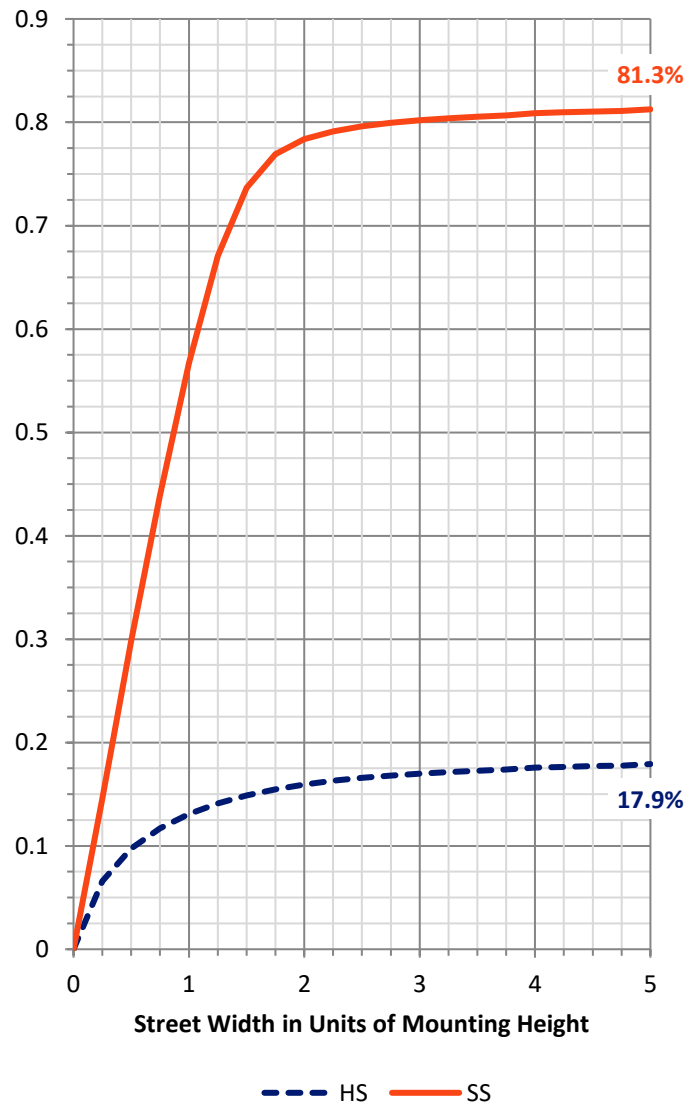
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6610.7	0.0	6610.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	29285.9	0.0	29285.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	35896.6	0.0	35896.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.0	1.3
10°-20°	1325.2	3.7
20°-30°	2193.5	6.1
30°-40°	3588.1	10.0
40°-50°	5793.3	16.1
50°-60°	8363.8	23.3
60°-70°	9230.0	25.7
70°-80°	4254.5	11.9
80°-90°	688.1	1.9
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°	35896.6	100.0
0°-180°	35896.6	100.0



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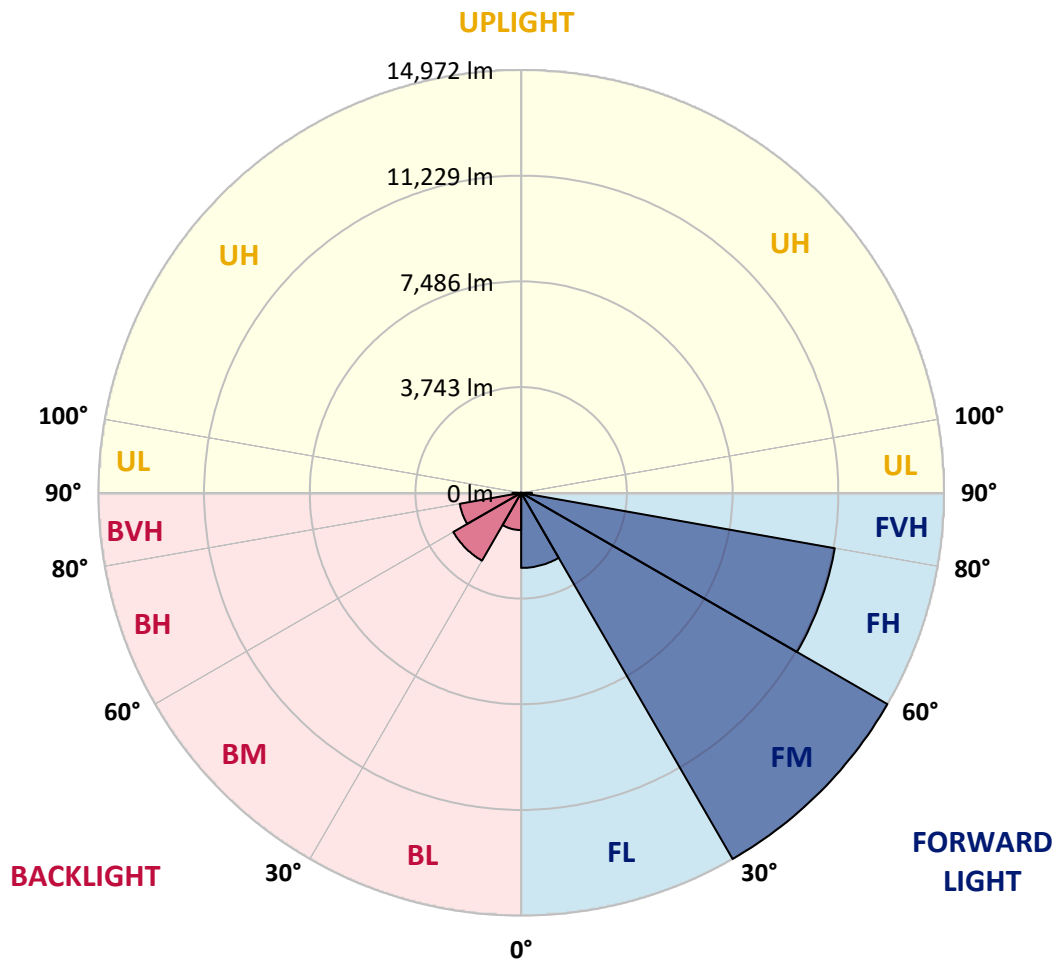
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2659.9	7.4			
FM	(30°-60°)	14971.6	41.7			
FH	(60°-80°)	11276.1	31.4			G4/12000
FVH	(80°-90°)	378.3	1.1			G3/500
BL	(0°-30°)	1318.9	3.7	B3/2500		
BM	(30°-60°)	2773.6	7.7	B3/5000		
BH	(60°-80°)	2208.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	309.8	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1
2.5°	5455.3	5423.5	5428.8	5420.1	5393.6	5347.6	5298.2	5208.1	5114.3	5064.9	5025.9
5°	5911.3	5902.6	5890.1	5861.9	5794.7	5699.2	5580.9	5421.8	5250.5	5160.3	5073.6
7.5°	6252.5	6247.2	6231.3	6213.5	6148.2	6033.2	5854.9	5628.6	5379.4	5255.8	5121.3
10°	6280.7	6289.6	6301.9	6349.6	6358.5	6296.6	6114.7	5840.7	5513.7	5354.6	5183.3
12.5°	6040.4	6059.7	6107.5	6229.4	6358.5	6434.5	6340.7	6063.3	5671.0	5478.4	5261.1
15°	5722.3	5732.9	5791.2	5959.0	6190.6	6425.7	6514.0	6308.9	5874.2	5637.5	5377.7
17.5°	5586.2	5591.5	5632.2	5743.5	5959.0	6294.9	6611.2	6575.9	6123.4	5835.4	5520.9
20°	5517.3	5529.6	5587.9	5697.5	5833.7	6127.0	6625.3	6863.9	6420.2	6082.8	5701.1
22.5°	5713.4	5708.1	5729.3	5784.0	5899.0	6075.6	6614.7	7160.7	6798.6	6400.9	5936.1
25°	6171.1	6190.6	6153.5	6091.5	6128.7	6252.5	6671.3	7482.4	7272.0	6809.2	6243.6
27.5°	6823.3	6803.9	6749.1	6604.1	6528.2	6581.2	6858.6	7828.8	7860.6	7346.2	6650.1
30°	7473.5	7457.6	7404.6	7227.9	7072.4	7028.2	7222.6	8226.4	8562.1	7991.4	7148.4
32.5°	8148.6	8131.0	8081.5	7904.7	7717.5	7614.9	7740.4	8685.9	9389.3	8761.9	7735.1
35°	8981.1	8947.5	8843.2	8597.5	8413.7	8334.3	8392.5	9263.9	10343.5	9673.8	8447.3
37.5°	9763.9	9815.2	9709.2	9369.9	9131.2	9103.0	9168.3	9968.9	11372.1	10693.5	9265.6
40°	10550.4	10559.1	10463.6	10186.3	9940.6	9894.7	10059.0	10824.2	12586.2	11912.9	10260.5
42.5°	11363.2	11380.8	11220.1	10963.9	10783.6	10792.3	10979.8	11826.2	13978.7	13349.6	11405.6
45°	12326.4	12352.9	12176.2	11840.4	11676.0	12006.4	11928.8	12950.1	15505.6	14982.6	12720.4
47.5°	13333.7	13374.3	13239.9	12925.4	12720.4	13174.6	12877.7	14196.0	17149.2	16733.7	14164.2
50°	13883.2	13941.7	14072.4	14049.4	14005.2	13929.2	13936.2	15532.1	18843.8	18557.5	15648.7
52.5°	13588.1	13586.3	14063.5	14643.2	15261.8	15307.7	15226.5	16940.5	20427.3	20340.7	17046.5
55°	12238.0	12329.9	13052.7	14174.9	15864.3	16919.3	17159.8	18554.0	21982.5	22083.3	18465.6
57.5°	9990.1	10066.0	11041.5	12605.6	15051.5	17877.2	19909.6	20899.2	23721.5	24191.4	20354.9
60°	6775.6	6867.5	7901.2	9779.8	12863.5	17343.4	22526.7	25083.9	25803.2	26872.3	23005.7
62.5°	3981.6	4064.7	4907.6	6169.4	9057.0	14864.1	23675.5	31037.7	29109.7	30917.5	27049.0
65°	2741.0	2797.5	3207.5	3840.2	5204.5	10011.3	22251.0	35148.3	34197.4	35929.4	31737.5
67.5°	2205.5	2198.4	2523.6	2954.7	3350.7	5162.0	16825.8	34683.5	38672.0	39394.9	34170.9
70°	1816.7	1809.6	2030.4	2387.5	2677.4	2907.1	9164.8	29268.7	37760.3	38053.6	31930.2
72.5°	1519.8	1526.8	1668.2	1933.3	2196.6	2189.6	4027.6	20590.0	29705.2	31734.0	25453.2
75°	1283.0	1286.6	1380.2	1567.5	1783.1	1763.7	2184.3	11154.8	17267.5	18679.5	14109.5
77.5°	1092.1	1095.7	1155.8	1260.1	1413.8	1406.7	1594.0	4819.1	7203.1	7114.8	4826.2
80°	973.8	973.8	1002.0	1021.5	1106.4	1074.5	1182.3	2315.0	3045.0	2811.7	1926.2
82.5°	763.4	767.0	940.2	933.1	871.3	830.7	830.7	1364.3	1613.4	1491.5	1127.6
85°	429.4	427.7	606.1	731.6	767.0	584.9	579.6	763.4	878.4	774.0	546.1
87.5°	183.9	187.3	281.0	325.1	434.7	364.1	358.8	394.0	447.0	387.0	252.8
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°	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1	4987.1
2.5°	4988.8	4943.0	4842.1	4716.7	4603.6	4529.3	4462.2	4365.0	4370.3	4303.2	4253.7
5°	4985.4	4890.0	4656.6	4379.1	4112.4	3919.8	3774.8	3644.1	3612.3	3550.3	3513.2
7.5°	4988.8	4833.3	4441.0	3997.5	3667.1	3423.1	3299.5	3230.5	3214.6	3193.4	3195.1
10°	5001.3	4782.0	4204.2	3640.6	3294.2	3133.3	3103.3	3124.5	3149.2	3156.3	3158.0
12.5°	5029.5	4736.1	3944.5	3322.4	3060.9	3011.4	3062.6	3135.1	3182.8	3205.7	3204.0
15°	5093.1	4700.8	3695.3	3073.2	2931.8	2958.3	3053.8	3156.3	3225.2	3257.0	3258.7
17.5°	5162.0	4649.5	3439.0	2882.3	2836.4	2903.5	3022.0	3142.1	3226.9	3262.3	3269.3
20°	5252.2	4585.9	3170.4	2739.2	2746.3	2822.2	2933.5	3053.8	3147.4	3177.5	3191.6
22.5°	5370.5	4516.9	2935.3	2622.5	2643.7	2702.1	2788.7	2892.9	2974.2	2988.4	3000.8
25°	5529.6	4442.7	2748.1	2516.5	2525.3	2558.9	2617.2	2679.1	2735.7	2719.8	2732.1
27.5°	5743.5	4379.1	2608.4	2419.3	2403.4	2410.5	2440.5	2460.0	2490.0	2445.8	2451.1
30°	5994.4	4310.2	2500.6	2334.4	2290.3	2277.9	2285.0	2295.6	2318.5	2258.5	2249.6
32.5°	6286.0	4227.2	2399.9	2260.2	2198.4	2173.7	2177.2	2205.5	2293.8	2256.7	2237.3
35°	6625.3	4133.6	2293.8	2179.0	2136.6	2101.2	2097.7	2186.0	2449.4	2426.4	2408.7
37.5°	7022.9	4039.9	2187.8	2087.1	2090.6	2051.8	2039.4	2140.1	2479.4	2389.3	2376.9
40°	7528.3	3990.5	2097.7	1989.8	2034.0	2028.7	2003.9	2055.3	2281.4	2117.1	2095.9
42.5°	8153.9	3997.5	2030.4	1885.6	1966.8	2023.4	1984.5	1986.3	2067.7	1943.9	1924.4
45°	8926.3	4080.6	1982.7	1802.5	1890.9	2018.1	1977.4	1949.2	1956.2	1890.9	1880.3
47.5°	9827.5	4251.9	1949.2	1733.6	1818.4	1998.6	1975.7	1938.6	1922.7	1887.3	1878.5
50°	10829.5	4501.0	1924.4	1668.2	1753.1	1966.8	1977.4	1928.0	1910.3	1896.2	1890.9
52.5°	11813.9	4785.6	1887.3	1611.6	1701.7	1928.0	1982.7	1917.4	1897.9	1887.3	1882.0
55°	12911.2	5140.8	1830.8	1563.9	1659.3	1878.5	1982.7	1901.5	1880.3	1882.0	1880.3
57.5°	14394.0	5715.1	1763.7	1523.3	1608.1	1818.4	1949.2	1883.8	1857.3	1859.1	1860.8
60°	16710.8	6727.8	1682.3	1482.7	1544.5	1747.8	1903.2	1844.9	1818.4	1825.5	1827.3
62.5°	20118.0	8214.0	1576.3	1422.6	1477.4	1671.7	1839.6	1795.5	1769.0	1786.6	1786.6
65°	23659.6	9525.3	1445.6	1346.6	1406.7	1588.7	1760.1	1733.6	1707.0	1747.8	1746.0
67.5°	24612.1	9231.9	1314.8	1263.6	1336.0	1496.8	1664.6	1650.5	1636.4	1707.0	1703.5
70°	21864.0	7411.7	1194.7	1178.8	1258.3	1397.9	1562.2	1562.2	1553.3	1606.3	1594.0
72.5°	16657.8	5255.8	1079.8	1088.6	1170.0	1290.1	1450.9	1463.2	1449.1	1475.6	1465.0
75°	8917.4	3007.9	964.9	989.7	1060.3	1180.6	1327.2	1339.6	1330.7	1329.0	1334.3
77.5°	2963.6	1470.3	844.8	883.7	945.5	1067.4	1198.2	1217.7	1196.5	1192.9	1191.2
80°	1320.1	924.3	712.1	763.4	818.3	938.4	1062.1	1078.0	1055.0	1086.8	1046.2
82.5°	848.3	608.0	570.9	627.3	680.3	809.5	926.1	929.6	908.4	1055.0	899.6
85°	411.8	376.4	429.4	480.8	526.6	636.2	767.0	768.7	715.7	652.1	629.2
87.5°	205.1	219.1	286.3	332.3	355.2	436.4	558.4	547.8	524.9	477.2	440.0
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)