

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: P322990

Luminaire Tested: **GLEON-SA6A-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14851 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

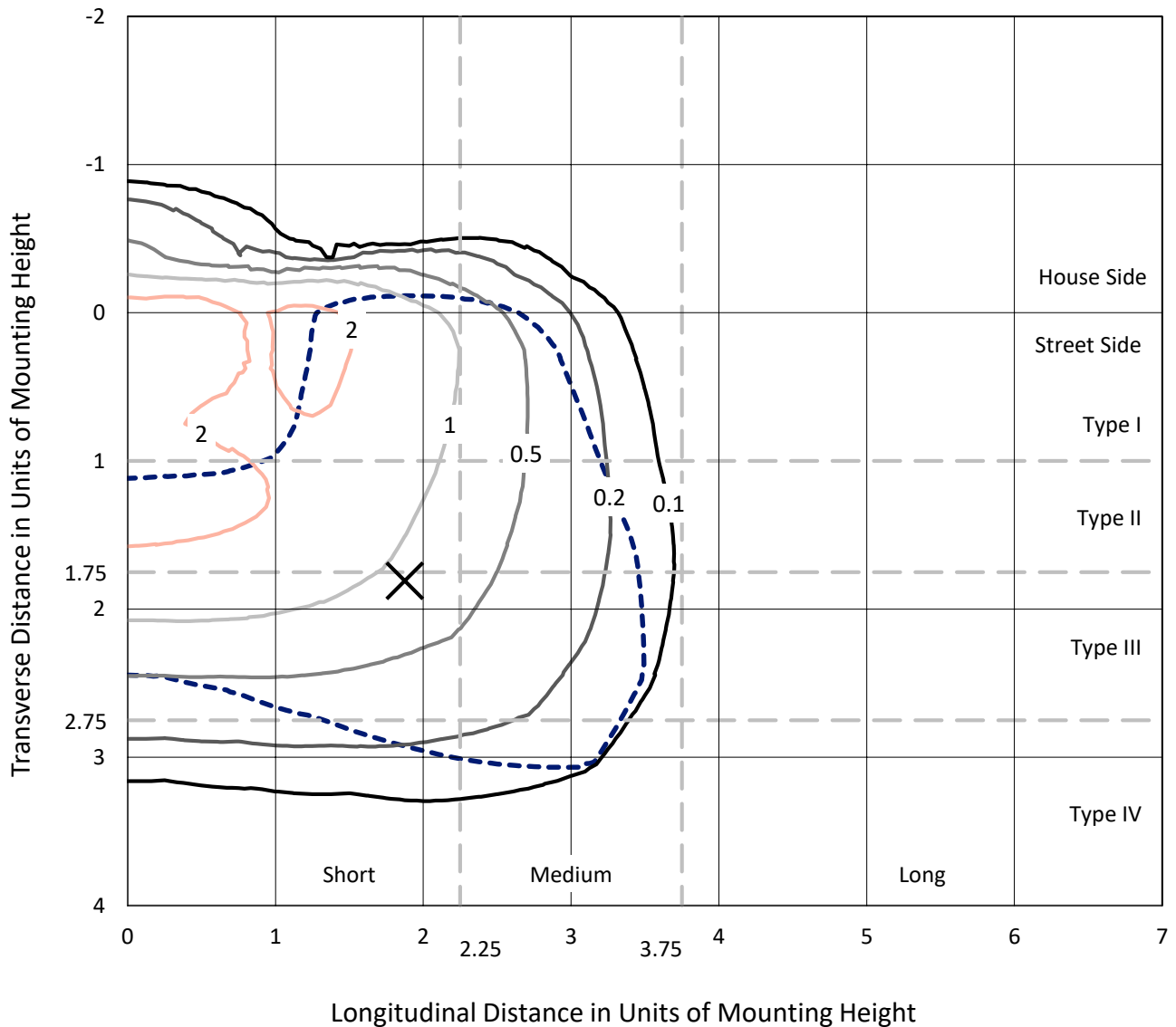
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

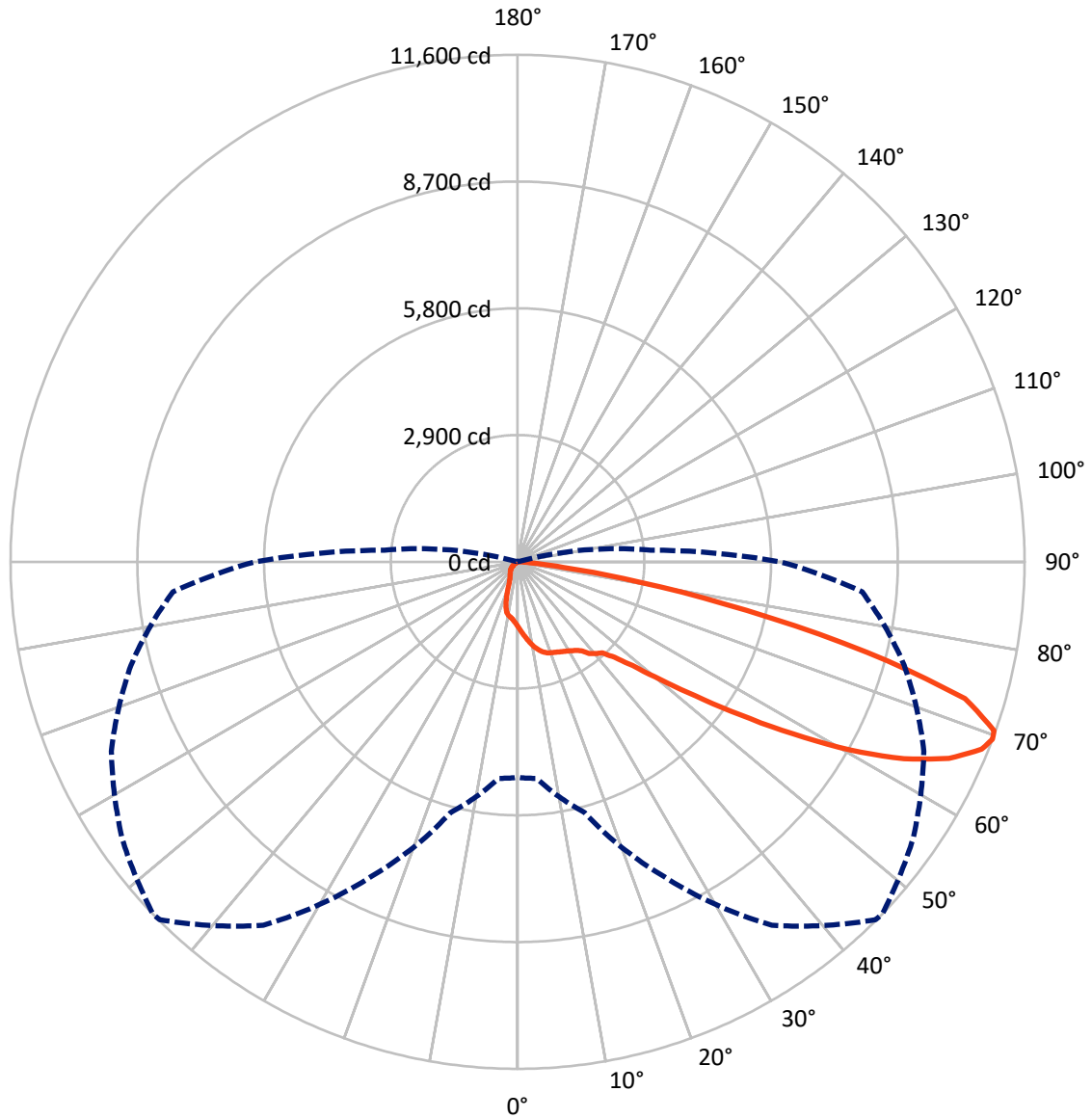
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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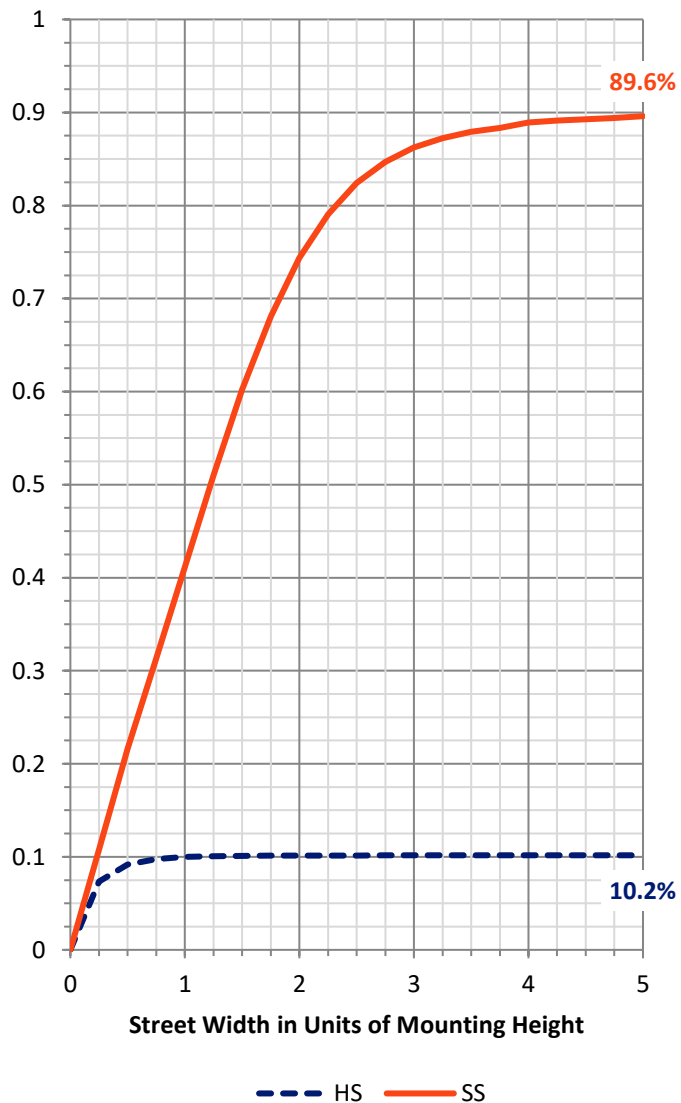
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1524.1	0.0	1524.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	13326.9	0.0	13326.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	14851.0	0.0	14851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.0
10°-20°	449.3	3.0
20°-30°	706.6	4.8
30°-40°	1013.3	6.8
40°-50°	1751.4	11.8
50°-60°	3460.1	23.3
60°-70°	4835.8	32.6
70°-80°	2336.2	15.7
80°-90°	150.2	1.0
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°	14851.0	100.0
0°-180°	14851.0	100.0

**Coefficient of Utilization**



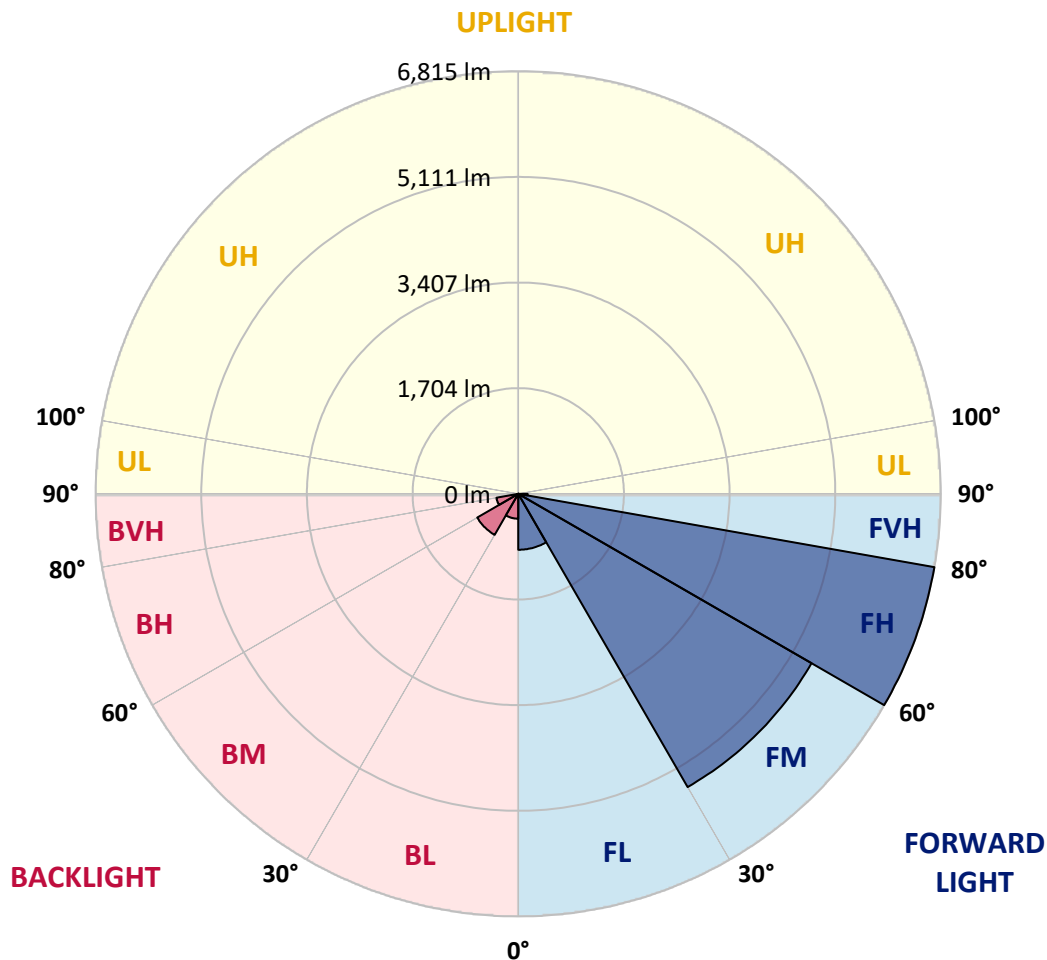
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.4	6.1			
FM (30°-60°)	5461.0	36.8			
FH (60°-80°)	6814.6	45.9			G3/7500
FVH (80°-90°)	148.9	1.0			G2/225
BL (0°-30°)	401.7	2.7	B1/500		
BM (30°-60°)	763.8	5.1	B1/1000		
BH (60°-80°)	357.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1653.0	1651.0	1641.2	1637.0	1613.4	1599.4	1593.9	1576.4	1551.4	1526.3	1498.5
5°	1841.0	1840.3	1822.2	1804.8	1760.3	1718.5	1710.8	1670.4	1614.0	1561.1	1508.2
7.5°	2033.2	2024.2	2006.1	1972.6	1907.9	1841.0	1834.8	1777.7	1697.6	1621.0	1545.1
10°	2196.2	2190.6	2166.9	2116.1	2040.2	1964.3	1956.6	1886.3	1795.8	1701.8	1605.0
12.5°	2322.9	2318.7	2287.4	2224.0	2143.2	2064.6	2054.1	1991.4	1894.7	1789.5	1675.3
15°	2400.2	2398.1	2359.8	2292.3	2212.9	2144.6	2135.6	2080.6	1990.8	1880.7	1751.9
17.5°	2418.3	2419.0	2379.3	2311.1	2245.6	2196.9	2189.9	2148.1	2072.9	1963.6	1828.5
20°	2377.9	2386.3	2350.7	2291.6	2251.2	2225.4	2219.8	2194.8	2131.4	2028.4	1889.8
22.5°	2320.8	2325.0	2300.6	2260.9	2244.2	2249.1	2246.3	2232.4	2178.8	2084.1	1950.4
25°	2286.0	2286.0	2271.4	2237.9	2249.1	2279.0	2279.7	2276.9	2234.5	2152.3	2024.2
27.5°	2284.6	2280.4	2263.7	2238.6	2269.3	2315.2	2318.0	2336.8	2310.4	2235.2	2116.1
30°	2340.3	2335.4	2299.9	2267.2	2306.2	2355.6	2362.6	2403.7	2390.4	2325.0	2218.4
32.5°	2470.5	2453.1	2374.4	2320.8	2350.0	2409.2	2418.3	2483.7	2504.6	2435.7	2317.3
35°	2648.8	2593.8	2480.3	2422.5	2425.2	2487.2	2495.6	2591.7	2653.6	2537.4	2393.9
37.5°	2894.6	2867.4	2682.9	2528.3	2540.8	2634.8	2659.2	2763.7	2746.2	2593.1	2481.0
40°	3433.5	3391.0	3194.7	2824.9	2651.5	2754.6	2762.3	2818.0	2819.4	2719.1	2662.0
42.5°	4167.4	4150.0	3943.2	3363.2	2869.5	2834.7	2848.6	2942.6	3047.7	2985.1	2982.3
45°	4980.0	4971.0	4751.6	4077.6	3310.3	3097.2	3114.6	3240.6	3441.9	3455.8	3544.2
47.5°	5633.8	5629.7	5503.6	4874.9	3985.0	3542.1	3547.7	3681.4	4035.1	4209.9	4351.2
50°	6229.9	6250.1	6150.5	5737.6	4904.1	4239.1	4225.9	4315.0	4883.2	5169.4	5344.9
52.5°	7058.5	7087.0	6807.8	6542.5	5868.5	5104.0	5093.5	5186.8	5902.6	6117.1	6148.4
55°	7790.3	7741.6	7520.8	7444.3	7044.6	6172.1	6169.3	6251.5	6888.6	6979.8	7037.6
57.5°	8113.4	8094.6	8201.1	8376.6	8276.3	7434.5	7428.2	7365.6	7770.8	7780.6	7958.1
60°	8317.4	8340.4	8667.0	9208.0	9458.0	8793.0	8752.6	8370.3	8613.4	8591.8	8781.9
62.5°	8164.2	8209.5	8797.2	9698.9	10342.3	9978.8	9921.7	9290.9	9333.3	9258.8	9435.7
65°	7350.9	7421.3	8384.3	9606.3	10781.0	10905.6	10847.8	10103.5	9905.0	9782.5	9684.3
67.5°	5968.8	6010.5	7016.0	8800.7	10583.2	11458.5	11446.6	10815.8	10336.7	9694.0	8932.3
69°	4932.7	4973.7	5941.6	7952.6	10148.0	11576.9	11599.8	11044.2	10254.6	9156.5	7914.3
70°	4177.9	4221.7	5123.4	7225.6	9643.2	11521.8	11562.9	11022.6	10019.2	8534.0	7020.9
72.5°	2191.3	2228.9	3154.3	4977.9	7861.3	10579.7	10704.4	10090.9	8492.9	6197.9	4151.4
75°	688.7	710.2	1231.8	2602.1	5382.5	8226.2	8254.8	7915.7	6030.7	3409.1	1728.9
77.5°	262.5	256.2	410.1	958.8	2721.2	5179.9	5354.6	4946.6	3164.7	1205.3	399.0
80°	141.4	142.0	213.1	396.9	1164.2	2662.0	2809.6	2397.4	1124.5	376.0	91.9
82.5°	61.3	64.1	119.8	210.3	534.8	981.8	1055.6	878.7	429.6	252.8	34.1
85°	13.2	14.6	57.8	114.2	217.9	275.7	289.0	284.8	273.6	196.4	13.2
87.5°	0.0	0.0	25.8	41.1	55.0	62.7	55.0	71.7	151.1	132.3	7.0
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°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1489.4	1476.9	1455.3	1431.6	1414.9	1397.5	1383.6	1377.3	1370.3	1365.5	1371.7
5°	1486.6	1462.3	1420.5	1380.1	1350.8	1327.2	1307.7	1300.0	1292.4	1286.8	1286.1
7.5°	1511.0	1476.9	1412.8	1353.6	1308.4	1276.3	1249.9	1238.7	1229.7	1225.5	1222.0
10°	1557.6	1513.8	1428.1	1350.8	1292.4	1238.0	1180.9	1137.1	1108.5	1095.3	1090.4
12.5°	1618.2	1563.2	1457.4	1365.5	1280.5	1176.1	1054.9	950.5	882.9	860.6	847.4
15°	1689.2	1621.0	1495.7	1384.3	1237.3	1046.6	841.1	704.7	642.0	629.5	615.5
17.5°	1757.5	1682.3	1541.6	1387.7	1142.6	836.3	616.2	523.6	499.3	507.6	509.7
20°	1817.4	1742.9	1586.9	1357.1	970.7	627.4	477.0	454.0	463.0	479.1	481.8
22.5°	1877.9	1801.4	1628.7	1276.3	750.6	476.3	429.6	435.2	444.2	460.3	463.0
25°	1951.8	1872.4	1667.7	1128.0	563.3	405.3	408.0	416.4	425.4	440.1	441.5
27.5°	2036.7	1962.2	1693.4	935.1	417.8	372.5	381.6	394.1	403.2	417.1	419.9
30°	2149.5	2080.6	1701.8	735.3	350.2	343.3	347.5	362.8	376.0	388.5	390.6
32.5°	2255.3	2197.6	1673.9	555.0	324.5	316.1	316.1	325.2	340.5	352.3	355.1
35°	2352.8	2315.2	1584.8	405.9	305.0	291.1	284.1	284.1	293.8	303.6	306.4
37.5°	2481.6	2480.3	1440.7	323.8	286.2	270.2	255.5	244.4	240.9	243.0	244.4
40°	2702.4	2704.5	1252.7	290.4	270.2	248.6	226.3	206.1	187.3	181.0	180.3
42.5°	3047.1	3015.7	1055.6	274.3	256.2	226.3	192.9	165.7	136.5	127.4	126.7
45°	3594.4	3408.4	846.7	259.7	241.6	201.2	159.5	122.6	98.9	91.9	91.9
47.5°	4391.6	3924.4	655.9	243.7	222.1	172.7	120.5	88.4	72.4	68.9	69.6
50°	5216.1	4429.9	502.7	223.5	198.4	142.7	89.1	64.1	55.0	55.0	55.7
52.5°	5947.2	4800.4	392.0	201.9	169.2	112.1	67.5	50.1	46.0	45.3	46.0
55°	6631.7	5039.2	300.1	176.9	134.4	83.6	51.5	41.1	38.3	36.9	36.2
57.5°	7291.8	5157.6	224.9	142.7	97.5	60.6	41.1	34.8	32.0	29.9	29.2
60°	7731.1	5061.5	154.6	105.1	67.5	43.9	34.1	29.9	26.5	24.4	23.7
62.5°	7979.0	4799.0	99.6	75.9	48.0	32.7	27.2	25.1	20.2	18.1	18.1
65°	7878.7	4365.9	69.6	54.3	34.8	24.4	20.2	20.2	14.6	11.8	11.1
67.5°	6981.9	3688.4	52.9	40.4	25.1	18.1	15.3	17.4	9.1	5.6	5.6
69°	6007.1	3056.8	45.3	33.4	20.9	14.6	13.2	16.0	6.3	4.2	3.5
70°	5220.9	2636.9	41.1	29.2	17.4	12.5	11.8	15.3	6.3	3.5	2.8
72.5°	3123.6	1470.6	31.3	20.9	11.1	9.7	9.7	17.4	6.3	3.5	2.8
75°	1262.4	518.1	23.0	14.6	8.4	8.4	11.8	22.3	5.6	2.8	2.1
77.5°	286.2	113.5	13.2	9.1	5.6	8.4	13.9	17.4	3.5	1.4	0.0
80°	69.6	27.9	8.4	5.6	3.5	6.3	10.4	9.7	0.7	0.0	0.0
82.5°	23.0	9.7	3.5	2.8	0.7	2.1	4.9	2.8	0.0	0.0	0.0
85°	9.7	5.6	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.3	2.1	0.0	0.0	0.0	0.0	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)