

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: P317573

Luminaire Tested: **GLEON-SA9C-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48427 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

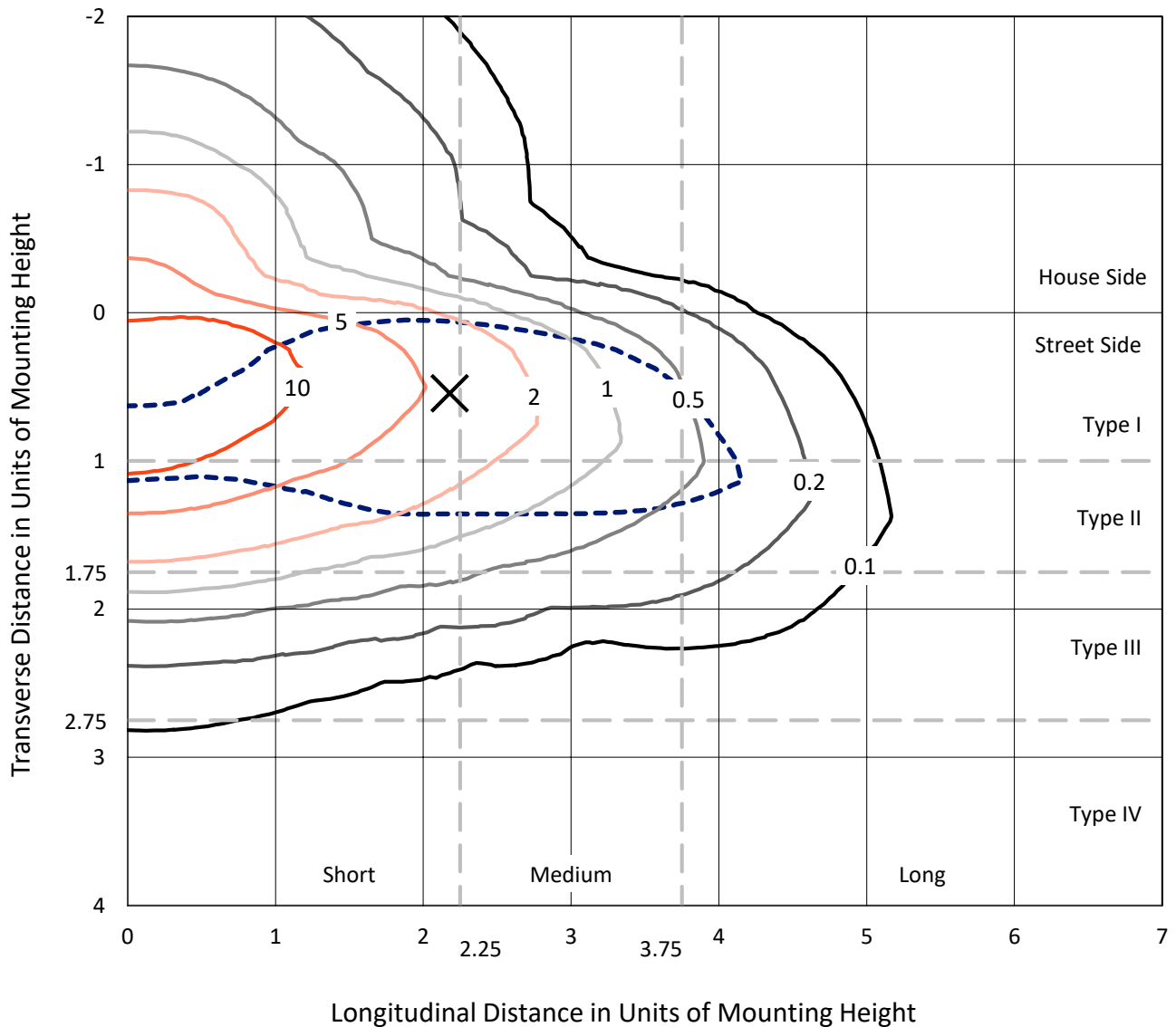
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

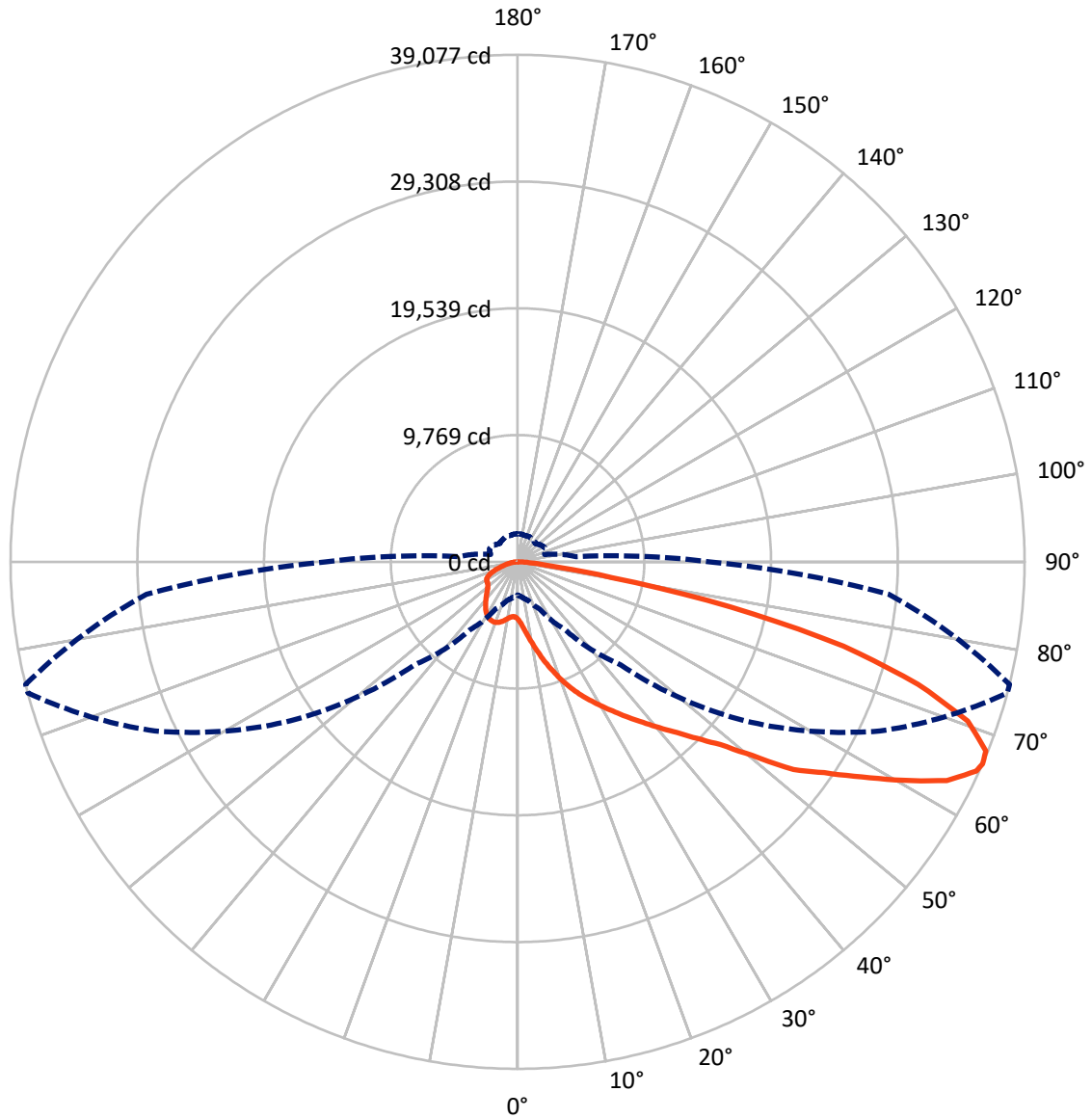
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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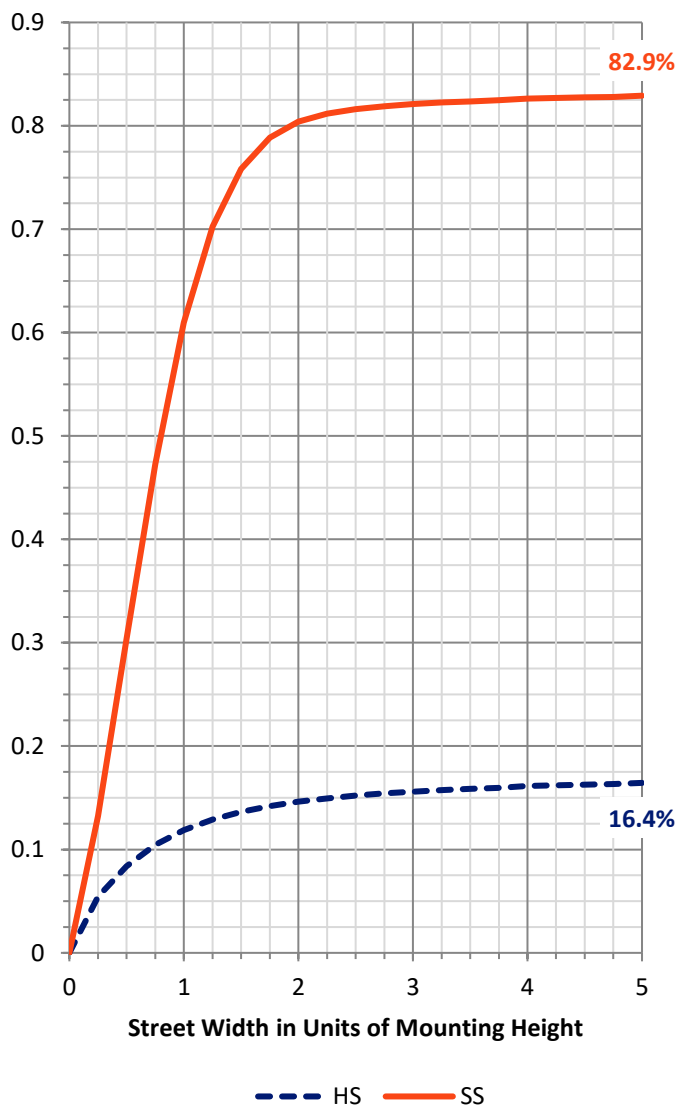
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8148.6	0.0	8148.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	40278.4	0.0	40278.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	48427.0	0.0	48427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.8	1.1
10°-20°	2111.9	4.4
20°-30°	4103.9	8.5
30°-40°	6698.5	13.8
40°-50°	9151.7	18.9
50°-60°	10659.9	22.0
60°-70°	9556.8	19.7
70°-80°	4829.6	10.0
80°-90°	779.9	1.6
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°	48427.0	100.0
0°-180°	48427.0	100.0

**Coefficient of Utilization**

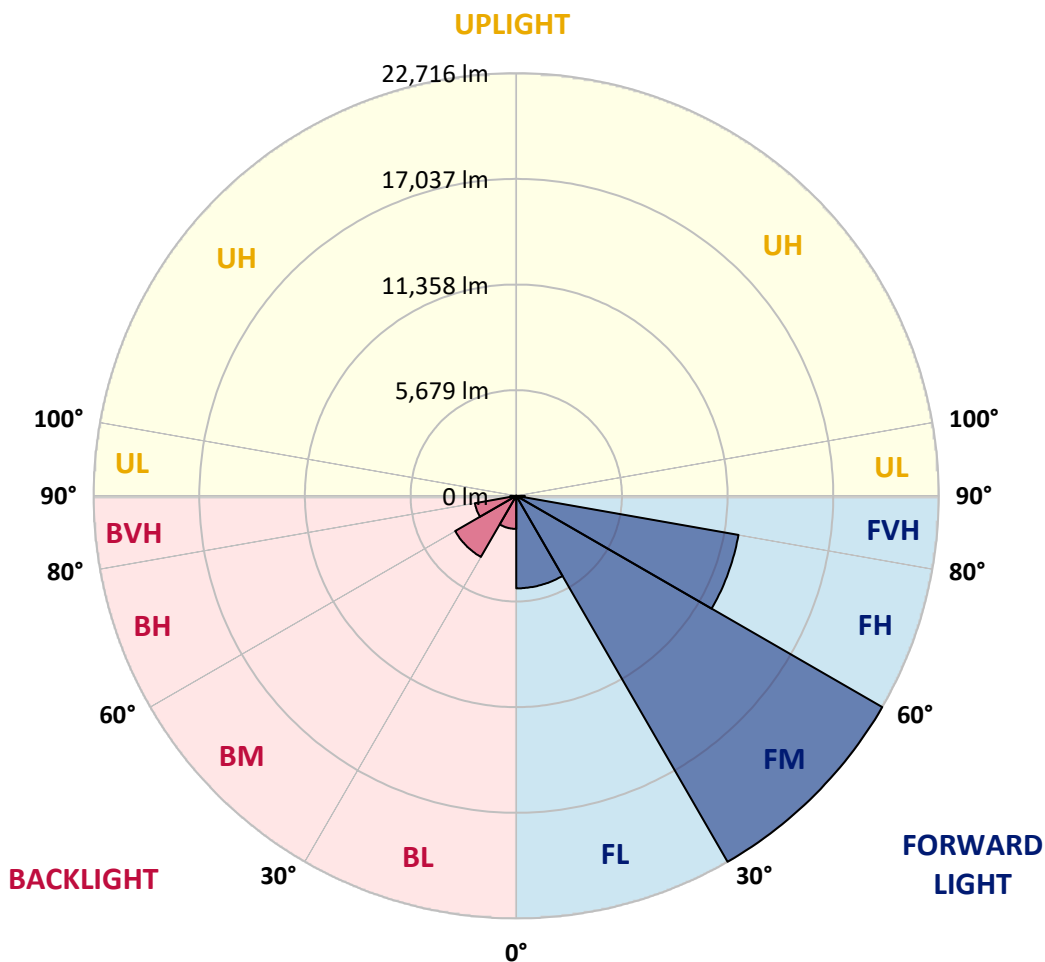


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4973.3	10.3			
FM (30°-60°)	22715.6	46.9			
FH (60°-80°)	12128.9	25.0			G5
FVH (80°-90°)	460.6	1.0			G3/500
BL (0°-30°)	1777.2	3.7	B3/2500		
BM (30°-60°)	3794.5	7.8	B3/5000		
BH (60°-80°)	2257.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	319.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5
2.5°	5870.9	5782.1	5773.9	5644.0	5614.4	5366.2	5183.7	4993.0	4775.9	4733.2	4562.2
5°	7541.2	7533.0	7419.6	7207.5	7041.4	6617.3	6198.0	5754.2	5267.5	5188.6	4803.9
7.5°	9043.9	9030.7	8943.6	8715.1	8475.0	7953.9	7355.5	6674.8	5885.7	5768.9	5131.1
10°	10184.9	10179.9	10150.3	9982.6	9778.8	9279.0	8618.1	7689.2	6604.1	6444.7	5540.4
12.5°	11066.1	11075.9	11095.7	11036.5	10939.5	10513.7	9836.3	8764.4	7370.2	7212.4	5995.8
15°	11662.8	11692.4	11794.4	11878.2	11929.2	11667.8	11011.8	9864.3	8228.4	8039.4	6500.5
17.5°	11963.7	11996.6	12172.5	12425.7	12659.1	12632.8	12111.7	10913.2	9052.1	8869.6	7043.1
20°	12223.5	12248.1	12445.4	12749.6	13162.2	13344.7	13052.1	11922.6	9954.7	9737.7	7618.5
22.5°	12976.4	13007.7	13066.9	13239.5	13604.5	13939.8	13798.5	12877.8	10781.6	10579.4	8164.3
25°	14429.8	14467.6	14339.3	14193.0	14262.1	14495.5	14521.8	13749.1	11620.1	11391.6	8751.2
27.5°	16180.7	16234.9	16016.3	15639.8	15311.0	15220.6	15189.3	14462.7	12420.7	12156.1	9331.6
30°	17895.4	17989.1	17704.7	17216.4	16613.1	16188.9	15874.9	15161.4	13209.9	12956.7	9879.1
32.5°	19570.7	19532.9	19120.2	18643.5	17936.5	17405.5	16645.9	15911.1	14097.7	13806.7	10423.2
35°	20718.2	20731.4	20348.3	19782.8	19108.7	18701.0	17678.4	16719.9	15003.5	14735.6	11041.4
37.5°	21694.8	21634.0	21199.9	20672.2	20091.9	19917.6	18886.8	17611.0	15985.0	15692.4	11699.0
40°	22020.3	21949.6	21665.2	21285.4	20820.2	20805.4	20220.1	18620.4	17094.8	16805.4	12440.5
42.5°	21823.0	21732.6	21615.9	21512.3	21369.3	21435.0	21472.9	19804.1	18314.6	17990.8	13298.7
45°	21094.7	20958.3	21040.5	21265.7	21576.4	21948.0	22604.0	21114.5	19680.8	19409.6	14306.5
47.5°	19975.1	19851.8	20108.3	20590.0	21435.0	22375.4	23674.2	22561.2	21311.7	21042.1	15741.7
50°	18400.1	18436.3	18802.9	19679.2	20956.6	22572.7	24992.8	24476.5	23682.4	23430.9	17699.8
52.5°	15815.7	15822.3	16854.7	18293.3	20108.3	22470.8	25724.4	26924.5	26919.6	26615.4	19564.1
55°	13415.4	13561.7	14378.8	16290.8	18733.9	22063.1	26235.6	28114.8	29045.3	28688.6	21301.9
57.5°	11071.0	11156.5	11930.8	13851.1	16772.5	20976.4	26760.1	29543.5	31494.9	31269.7	23462.1
60°	8404.4	8535.9	9336.5	11110.4	14263.7	19047.9	26809.4	31034.6	34423.0	34196.1	25874.0
62.5°	5454.9	5681.8	6431.5	8093.6	11228.8	16274.4	25665.2	32009.5	37198.1	37117.6	28014.5
65°	3135.2	3306.2	3827.3	5109.7	7746.7	12792.3	22944.3	31634.7	38906.3	38860.3	28815.2
66°	2561.4	2668.3	3067.8	3993.4	6392.0	11233.8	21362.7	30843.9	39075.6	39077.3	28723.1
67.5°	2048.5	2096.2	2275.4	2859.0	4716.8	8904.1	18536.6	29099.6	38865.2	38922.7	28129.6
70°	1695.0	1719.7	1775.6	1917.0	2574.6	5369.4	13157.3	24566.9	36752.6	36797.0	25813.1
72.5°	1520.7	1535.5	1556.9	1576.6	1816.7	3000.4	8036.1	19652.9	32223.3	32280.8	22283.4
75°	1377.7	1385.9	1382.6	1384.3	1524.0	1912.0	4152.9	14673.1	26054.8	25939.7	17070.1
77.5°	1210.0	1218.2	1201.8	1205.1	1348.1	1469.8	2066.6	10272.0	17583.0	16770.9	9617.7
80°	1022.6	1029.2	1022.6	1034.1	1173.8	1109.7	1201.8	5778.8	7774.7	7353.8	3419.6
82.5°	772.7	800.6	820.4	866.4	966.7	789.1	803.9	2250.7	2367.4	2254.0	1048.9
85°	338.7	412.7	618.2	662.5	726.7	473.5	527.7	917.4	963.4	933.8	381.4
87.5°	88.8	97.0	305.8	384.7	402.8	213.7	274.6	417.6	440.6	417.6	126.6
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°	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5	4422.5
2.5°	4471.8	4391.2	4246.6	4118.3	4021.3	3955.6	3889.8	3856.9	3837.2	3817.5	3820.8
5°	4614.8	4452.1	4203.8	4027.9	3929.3	3866.8	3833.9	3820.8	3812.5	3792.8	3792.8
7.5°	4830.2	4600.0	4258.1	4077.2	4000.0	3952.3	3932.6	3926.0	3916.1	3893.1	3896.4
10°	5101.5	4779.2	4371.5	4195.6	4124.9	4072.3	4044.3	4034.5	4016.4	3990.1	3993.4
12.5°	5420.4	5001.2	4521.1	4337.0	4251.5	4180.8	4134.8	4106.8	4075.6	4041.1	4042.7
15°	5768.9	5242.9	4682.2	4463.6	4346.9	4248.2	4174.2	4126.5	4077.2	4034.5	4032.8
17.5°	6122.4	5476.3	4805.5	4532.6	4374.8	4244.9	4144.6	4070.7	4009.8	3957.2	3952.3
20°	6503.8	5686.7	4874.6	4526.1	4322.2	4167.7	4034.5	3942.4	3875.0	3822.4	3814.2
22.5°	6891.8	5884.0	4886.1	4458.6	4205.5	4016.4	3876.7	3774.7	3705.7	3651.4	3631.7
25°	7246.9	6036.9	4838.4	4328.8	4042.7	3838.8	3702.4	3598.8	3542.9	3478.8	3459.1
27.5°	7570.8	6143.8	4743.1	4162.7	3860.2	3659.6	3531.4	3442.6	3381.8	3332.5	3316.0
30°	7861.8	6201.3	4586.9	3965.4	3672.8	3490.3	3381.8	3321.0	3268.4	3205.9	3194.4
32.5°	8138.0	6201.3	4386.3	3750.1	3487.0	3340.7	3276.6	3238.8	3179.6	3118.8	3102.3
35°	8414.2	6163.5	4149.6	3524.8	3316.0	3233.8	3230.5	3186.2	3095.7	3013.5	2992.2
37.5°	8705.2	6086.2	3883.2	3314.4	3176.3	3186.2	3214.1	3115.5	2987.2	2870.5	2839.3
40°	9034.0	5979.4	3607.0	3131.9	3059.6	3164.8	3169.7	3013.5	2763.6	2656.8	2628.8
42.5°	9420.4	5872.5	3350.6	2970.8	2967.5	3100.7	3085.9	2793.2	2643.6	2589.4	2574.6
45°	9928.4	5811.7	3107.2	2817.9	2895.2	2997.1	2942.8	2671.6	2609.1	2577.9	2564.7
47.5°	10729.0	5842.9	2883.7	2696.2	2822.8	2893.5	2676.5	2622.2	2577.9	2540.0	2526.9
50°	11731.9	5824.8	2702.8	2612.4	2740.6	2785.0	2556.5	2558.1	2535.1	2492.4	2472.6
52.5°	12486.5	5683.5	2586.1	2564.7	2668.3	2592.7	2480.9	2495.7	2484.1	2421.7	2400.3
55°	13214.8	5561.8	2526.9	2546.6	2615.7	2352.6	2392.1	2428.3	2416.7	2355.9	2346.1
57.5°	14120.7	5538.8	2490.7	2551.6	2571.3	2232.6	2306.6	2354.3	2346.1	2319.7	2314.8
60°	15230.4	5545.4	2457.8	2559.8	2522.0	2143.8	2226.0	2286.9	2291.8	2286.9	2283.6
62.5°	15840.4	5366.2	2375.6	2536.8	2434.8	2066.6	2142.2	2231.0	2232.6	2242.5	2240.8
65°	15322.5	4830.2	2222.7	2456.2	2288.5	2002.4	2069.9	2166.8	2142.2	2186.6	2186.6
66°	14819.4	4521.1	2147.1	2403.6	2226.0	1977.8	2046.8	2134.0	2102.7	2163.6	2163.6
67.5°	13791.9	4000.0	2010.7	2291.8	2137.3	1943.3	2020.5	2079.7	2037.0	2127.4	2120.8
70°	11914.4	3094.1	1736.1	2038.6	1990.9	1892.3	1984.4	1971.2	1908.7	2046.8	2020.5
72.5°	10045.1	2351.0	1394.1	1706.5	1769.0	1828.2	1933.4	1833.1	1754.2	1851.2	1793.7
75°	7794.4	1767.3	1101.5	1326.7	1494.4	1727.9	1872.6	1673.6	1560.2	1550.3	1519.1
77.5°	4213.7	1213.3	873.0	1012.7	1187.0	1602.9	1831.5	1502.7	1331.7	1292.2	1267.6
80°	1668.7	789.1	634.6	767.8	830.2	1422.1	1732.8	1303.7	1098.2	1058.8	1021.0
82.5°	688.9	466.9	409.4	514.6	540.9	1216.6	1555.3	1068.6	848.3	1173.8	1246.2
85°	295.9	256.5	243.3	266.3	305.8	853.3	1238.0	815.4	915.7	817.1	649.4
87.5°	88.8	108.5	103.6	101.9	111.8	203.9	659.3	453.8	672.4	254.8	190.7
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)