

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: P323022

Luminaire Tested: **GLEON-SA8D-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323022  
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-SA8D-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA 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: 33133 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 511  
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

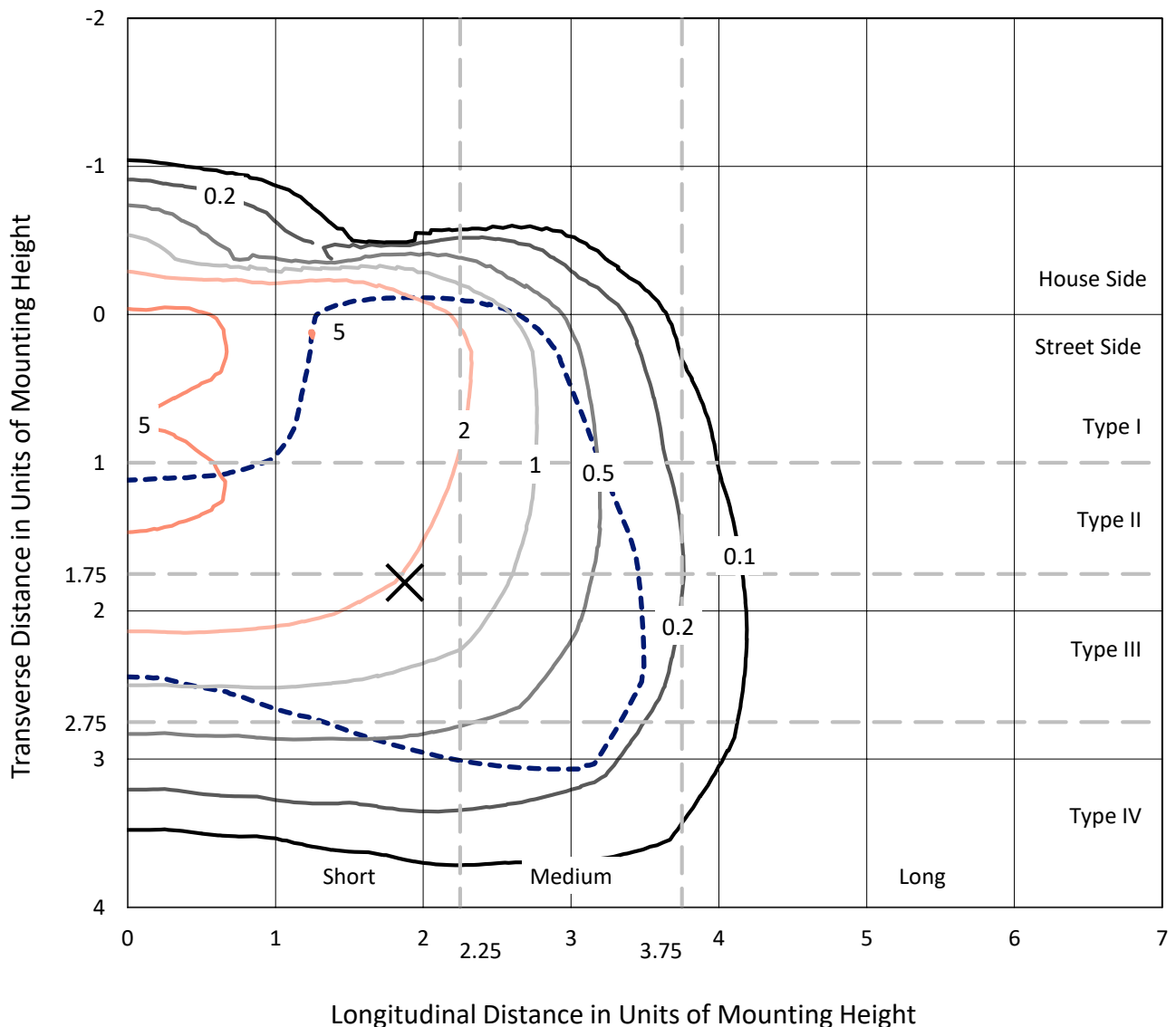




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### Iso-Footcandle Lines of Horizontal Illumination

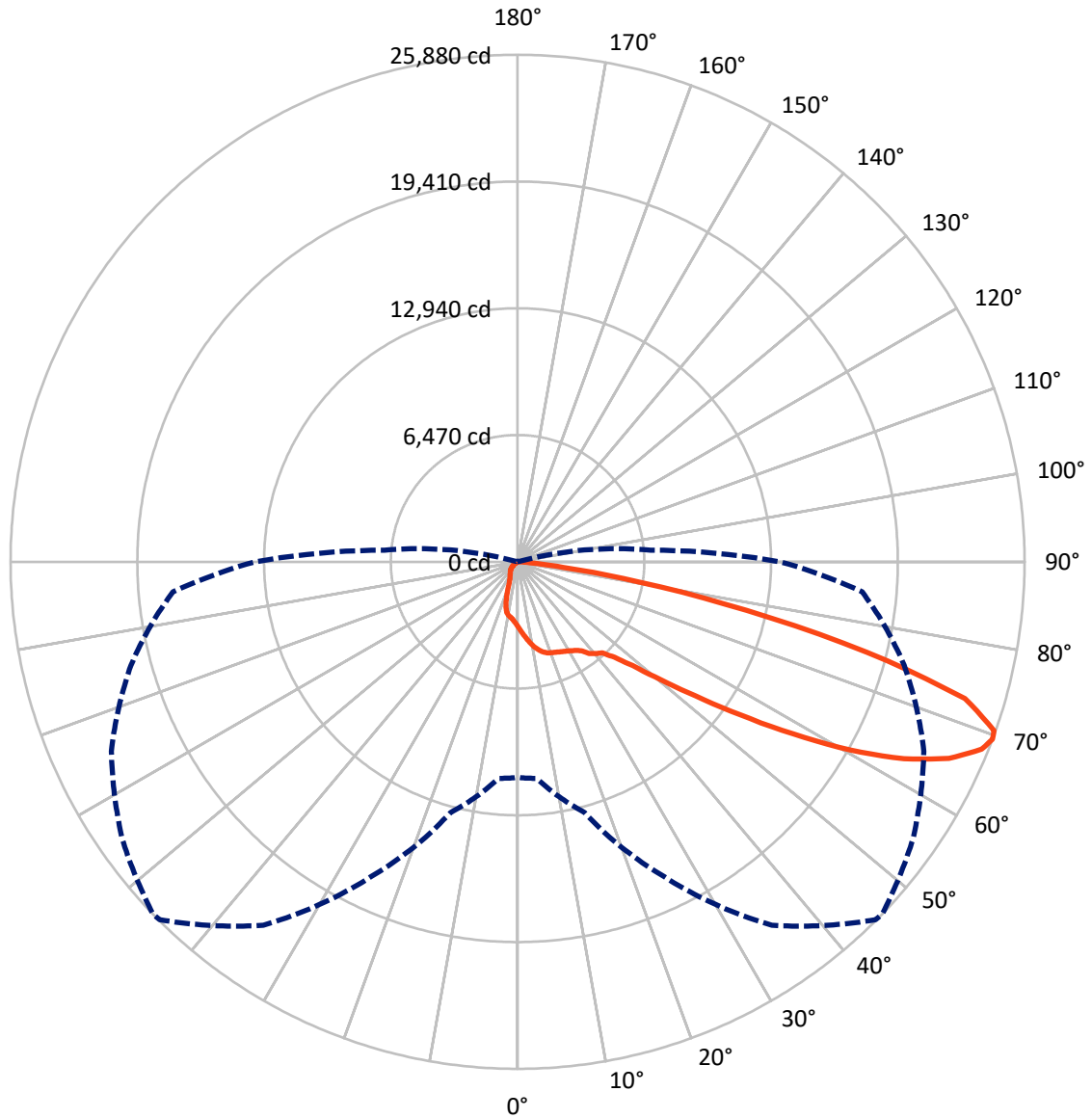
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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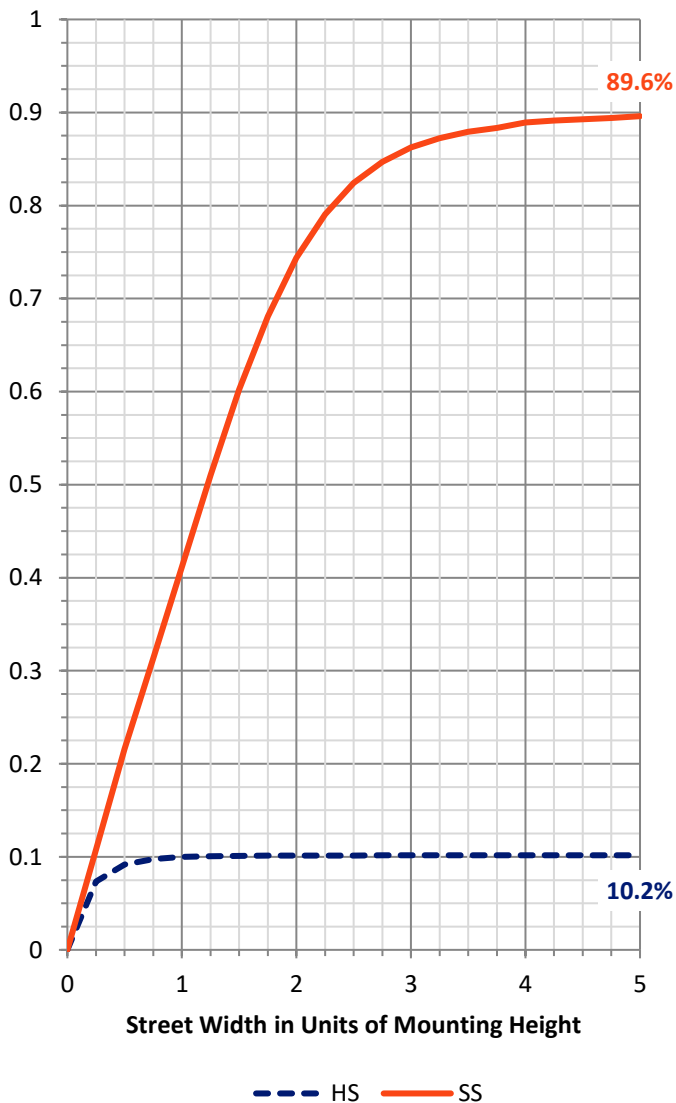
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3400.3	0.0	3400.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	29732.7	0.0	29732.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	33133.0	0.0	33133.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	1.0
10°-20°	1002.5	3.0
20°-30°	1576.5	4.8
30°-40°	2260.8	6.8
40°-50°	3907.5	11.8
50°-60°	7719.5	23.3
60°-70°	10788.7	32.6
70°-80°	5212.1	15.7
80°-90°	335.0	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°	33133.0	100.0
0°-180°	33133.0	100.0

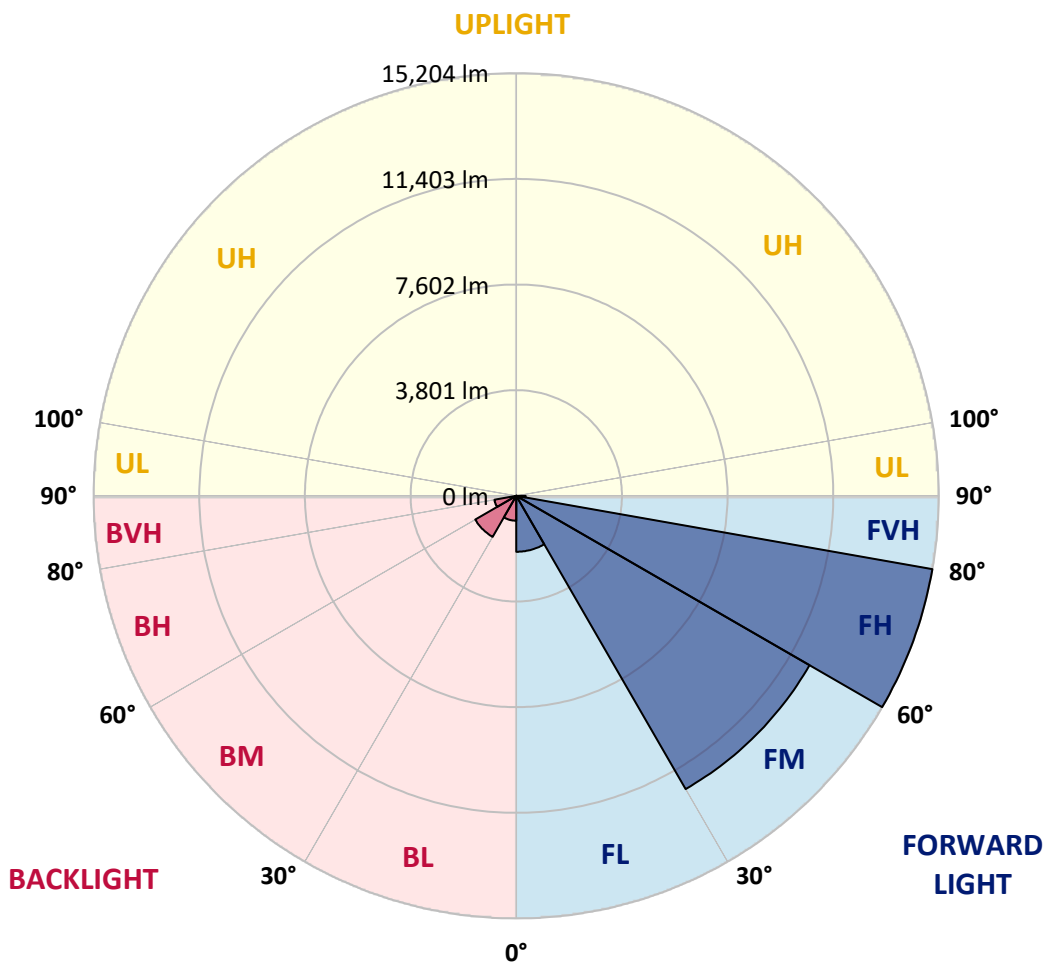


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.2	6.1			
FM (30°-60°)	12183.7	36.8			
FH (60°-80°)	15203.5	45.9			G5
FVH (80°-90°)	332.2	1.0			G3/500
BL (0°-30°)	896.2	2.7	B2/1000		
BM (30°-60°)	1704.0	5.1	B2/2500		
BH (60°-80°)	797.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8
2.5°	3688.0	3683.3	3661.6	3652.2	3599.4	3568.4	3555.9	3517.1	3461.2	3405.2	3343.1
5°	4107.4	4105.9	4065.5	4026.6	3927.2	3834.0	3816.9	3726.8	3601.0	3482.9	3364.9
7.5°	4536.2	4516.0	4475.6	4401.0	4256.6	4107.4	4093.4	3966.1	3787.4	3616.5	3447.2
10°	4899.7	4887.3	4834.5	4721.0	4551.7	4382.4	4365.3	4208.4	4006.4	3796.7	3580.8
12.5°	5182.4	5173.1	5103.2	4961.8	4781.6	4606.1	4582.8	4443.0	4227.0	3992.5	3737.7
15°	5354.9	5350.2	5264.8	5114.1	4937.0	4784.7	4764.5	4641.8	4441.4	4196.0	3908.6
17.5°	5395.3	5396.8	5308.3	5156.0	5010.0	4901.3	4885.7	4792.5	4624.7	4380.8	4079.5
20°	5305.2	5323.8	5244.6	5112.5	5022.4	4964.9	4952.5	4896.6	4755.2	4525.3	4216.2
22.5°	5177.8	5187.1	5132.7	5044.2	5006.9	5017.8	5011.6	4980.5	4860.9	4649.6	4351.3
25°	5100.1	5100.1	5067.5	4992.9	5017.8	5084.6	5086.1	5079.9	4985.1	4801.8	4516.0
27.5°	5097.0	5087.7	5050.4	4994.5	5062.8	5165.3	5171.6	5213.5	5154.5	4986.7	4721.0
30°	5221.3	5210.4	5131.2	5058.2	5145.2	5255.4	5271.0	5362.6	5333.1	5187.1	4949.4
32.5°	5511.8	5472.9	5297.4	5177.8	5243.0	5375.1	5395.3	5541.3	5587.9	5434.1	5170.0
35°	5909.5	5786.7	5533.5	5404.6	5410.8	5549.1	5567.7	5782.1	5920.3	5660.9	5340.9
37.5°	6457.8	6397.3	5985.6	5640.7	5668.7	5878.4	5932.8	6165.8	6127.0	5785.2	5535.1
40°	7660.2	7565.5	7127.4	6302.5	5915.7	6145.6	6162.7	6287.0	6290.1	6066.4	5939.0
42.5°	9297.6	9258.8	8797.4	7503.3	6401.9	6324.2	6355.3	6565.0	6799.6	6659.8	6653.6
45°	11110.5	11090.3	10601.0	9097.2	7385.3	6909.9	6948.7	7229.9	7678.9	7710.0	7907.3
47.5°	12569.3	12559.9	12278.8	10876.0	8890.6	7902.6	7915.0	8213.3	9002.5	9392.4	9707.7
50°	13899.1	13944.1	13722.0	12800.7	10941.2	9457.6	9428.1	9627.0	10894.6	11533.1	11924.6
52.5°	15747.7	15811.4	15188.4	14596.6	13092.8	11387.1	11363.8	11571.9	13168.9	13647.4	13717.3
55°	17380.4	17271.7	16779.2	16608.3	15716.6	13770.1	13763.9	13947.2	15368.7	15572.2	15701.1
57.5°	18101.2	18059.3	18297.0	18688.5	18464.8	16586.6	16572.6	16432.8	17336.9	17358.7	17754.8
60°	18556.4	18607.7	19336.3	20543.3	21101.0	19617.4	19527.3	18674.5	19216.6	19168.5	19592.6
62.5°	18214.6	18315.6	19626.8	21638.5	23073.9	22263.0	22135.6	20728.2	20822.9	20656.7	21051.3
65°	16400.2	16557.1	18705.5	21431.9	24052.6	24330.7	24201.8	22541.1	22098.4	21824.9	21605.9
67.5°	13316.5	13409.7	15652.9	19634.5	23611.5	25564.2	25537.8	24130.3	23061.5	21627.7	19928.1
69°	11004.9	11096.6	13255.9	17742.4	22640.5	25828.3	25879.5	24639.9	22878.2	20428.4	17656.9
70°	9320.9	9418.8	11430.6	16120.5	21514.2	25705.6	25797.2	24591.7	22353.1	19039.5	15663.8
72.5°	4888.8	4972.7	7037.3	11105.9	17538.9	23603.7	23881.8	22513.1	18947.9	13827.6	9261.9
75°	1536.4	1584.6	2748.1	5805.4	12008.5	18352.9	18416.6	17660.0	13454.8	7605.9	3857.3
77.5°	585.7	571.7	915.0	2139.2	6071.0	11556.4	11946.3	11036.0	7060.6	2689.1	890.1
80°	315.4	316.9	475.4	885.5	2597.4	5939.0	6268.3	5348.7	2508.9	838.9	205.1
82.5°	136.7	142.9	267.2	469.2	1193.1	2190.4	2355.1	1960.5	958.5	563.9	76.1
85°	29.5	32.6	128.9	254.8	486.2	615.2	644.7	635.4	610.5	438.1	29.5
87.5°	0.0	0.0	57.5	91.7	122.7	139.8	122.7	160.0	337.1	295.2	15.5
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°	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8
2.5°	3322.9	3294.9	3246.8	3194.0	3156.7	3117.8	3086.8	3072.8	3057.3	3046.4	3060.4
5°	3316.7	3262.3	3169.1	3079.0	3013.8	2960.9	2917.4	2900.4	2883.3	2870.8	2869.3
7.5°	3371.1	3294.9	3152.0	3020.0	2919.0	2847.5	2788.5	2763.7	2743.5	2734.1	2726.4
10°	3475.2	3377.3	3186.2	3013.8	2883.3	2762.1	2634.7	2536.8	2473.2	2443.6	2432.8
12.5°	3610.3	3487.6	3251.4	3046.4	2856.9	2623.8	2353.5	2120.5	1969.8	1920.1	1890.6
15°	3768.8	3616.5	3336.9	3088.3	2760.5	2334.9	1876.6	1572.1	1432.3	1404.4	1373.3
17.5°	3921.0	3753.2	3439.4	3096.1	2549.3	1865.7	1374.8	1168.2	1113.9	1132.5	1137.2
20°	4054.6	3888.4	3540.4	3027.7	2165.6	1399.7	1064.1	1012.9	1033.1	1068.8	1075.0
22.5°	4189.8	4018.9	3633.6	2847.5	1674.7	1062.6	958.5	970.9	991.1	1026.9	1033.1
25°	4354.4	4177.3	3720.6	2516.6	1256.8	904.1	910.3	929.0	949.2	981.8	984.9
27.5°	4544.0	4377.7	3778.1	2086.3	932.1	831.1	851.3	879.3	899.5	930.5	936.8
30°	4795.6	4641.8	3796.7	1640.5	781.4	765.9	775.2	809.4	838.9	866.8	871.5
32.5°	5031.7	4902.8	3734.6	1238.1	723.9	705.3	705.3	725.5	759.7	786.1	792.3
35°	5249.2	5165.3	3535.7	905.7	680.4	649.4	633.8	633.8	655.6	677.3	683.5
37.5°	5536.6	5533.5	3214.2	722.4	638.5	602.8	570.1	545.3	537.5	542.2	545.3
40°	6029.1	6033.7	2794.7	647.8	602.8	554.6	504.9	459.8	417.9	403.9	402.4
42.5°	6798.1	6728.2	2355.1	612.1	571.7	504.9	430.3	369.7	304.5	284.3	282.7
45°	8019.1	7604.3	1889.0	579.5	539.1	449.0	355.7	273.4	220.6	205.1	205.1
47.5°	9797.8	8755.5	1463.4	543.7	495.6	385.3	268.8	197.3	161.6	153.8	155.3
50°	11637.2	9883.3	1121.6	498.7	442.7	318.5	198.8	142.9	122.7	122.7	124.3
52.5°	13268.3	10709.7	874.6	450.5	377.5	250.1	150.7	111.9	102.5	101.0	102.5
55°	14795.4	11242.6	669.6	394.6	299.8	186.4	115.0	91.7	85.4	82.3	80.8
57.5°	16268.1	11506.7	501.8	318.5	217.5	135.2	91.7	77.7	71.5	66.8	65.2
60°	17248.4	11292.3	344.9	234.6	150.7	97.9	76.1	66.8	59.0	54.4	52.8
62.5°	17801.4	10706.6	222.1	169.3	107.2	73.0	60.6	55.9	45.1	40.4	40.4
65°	17577.7	9740.4	155.3	121.2	77.7	54.4	45.1	45.1	32.6	26.4	24.9
67.5°	15576.8	8228.8	118.1	90.1	55.9	40.4	34.2	38.8	20.2	12.4	12.4
69°	13401.9	6819.8	101.0	74.6	46.6	32.6	29.5	35.7	14.0	9.3	7.8
70°	11648.0	5883.1	91.7	65.2	38.8	28.0	26.4	34.2	14.0	7.8	6.2
72.5°	6968.9	3281.0	69.9	46.6	24.9	21.7	21.7	38.8	14.0	7.8	6.2
75°	2816.5	1155.8	51.3	32.6	18.6	18.6	26.4	49.7	12.4	6.2	4.7
77.5°	638.5	253.2	29.5	20.2	12.4	18.6	31.1	38.8	7.8	3.1	0.0
80°	155.3	62.1	18.6	12.4	7.8	14.0	23.3	21.7	1.6	0.0	0.0
82.5°	51.3	21.7	7.8	6.2	1.6	4.7	10.9	6.2	0.0	0.0	0.0
85°	21.7	12.4	3.1	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.0	4.7	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)