

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: P323014

Luminaire Tested: **GLEON-SA0C-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323014  
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-SA0C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1050mA 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: 37302 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

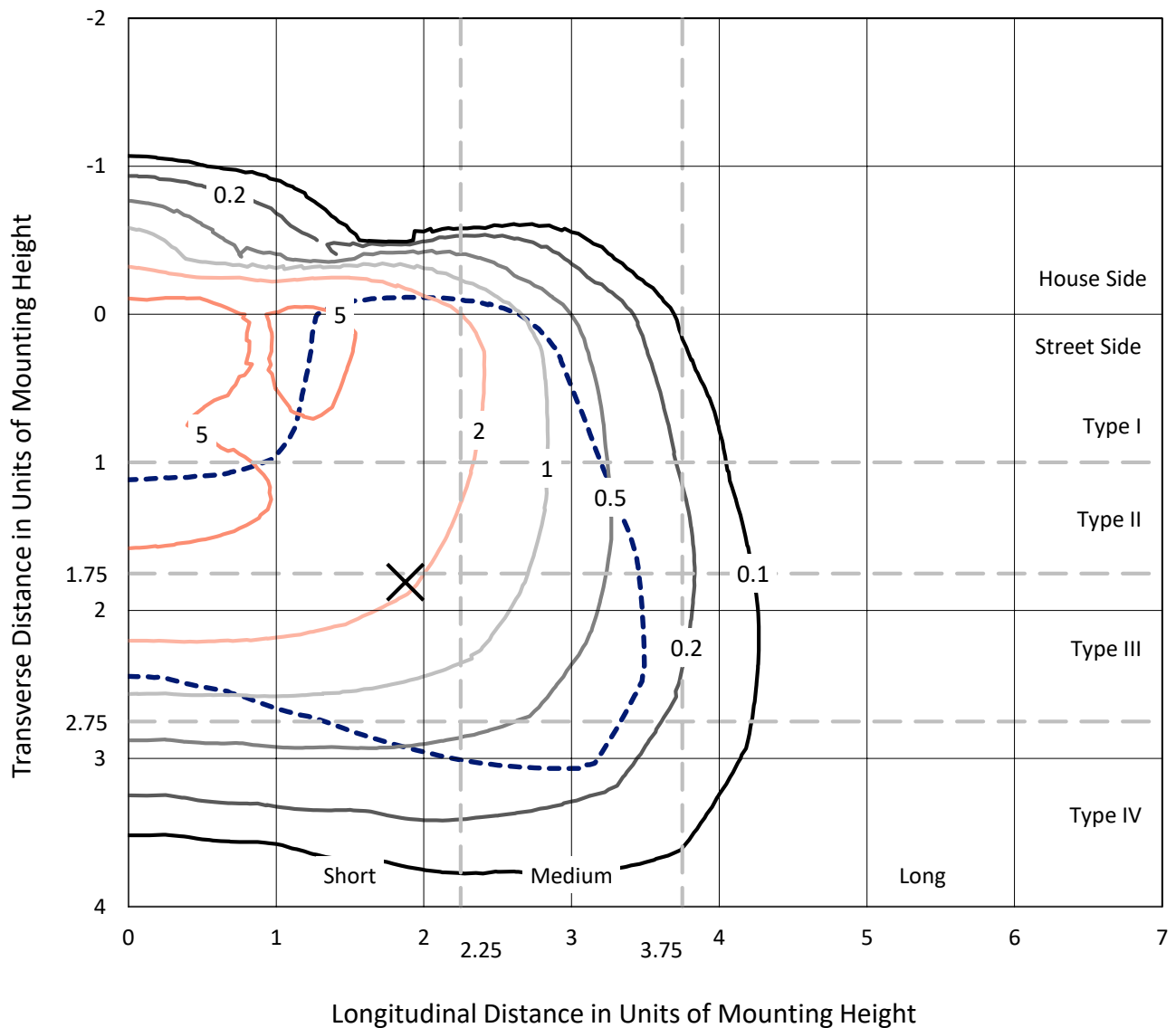
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

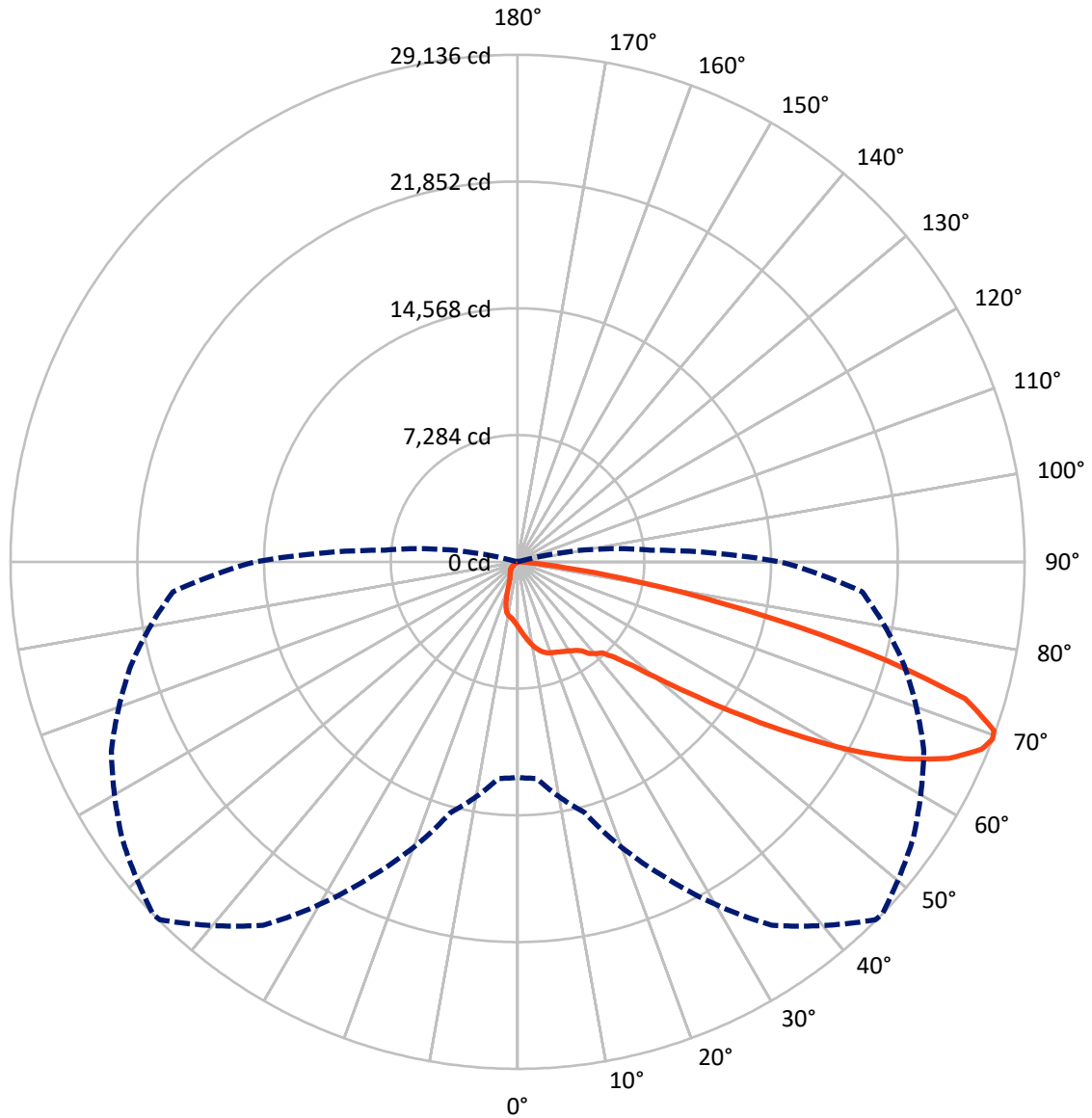
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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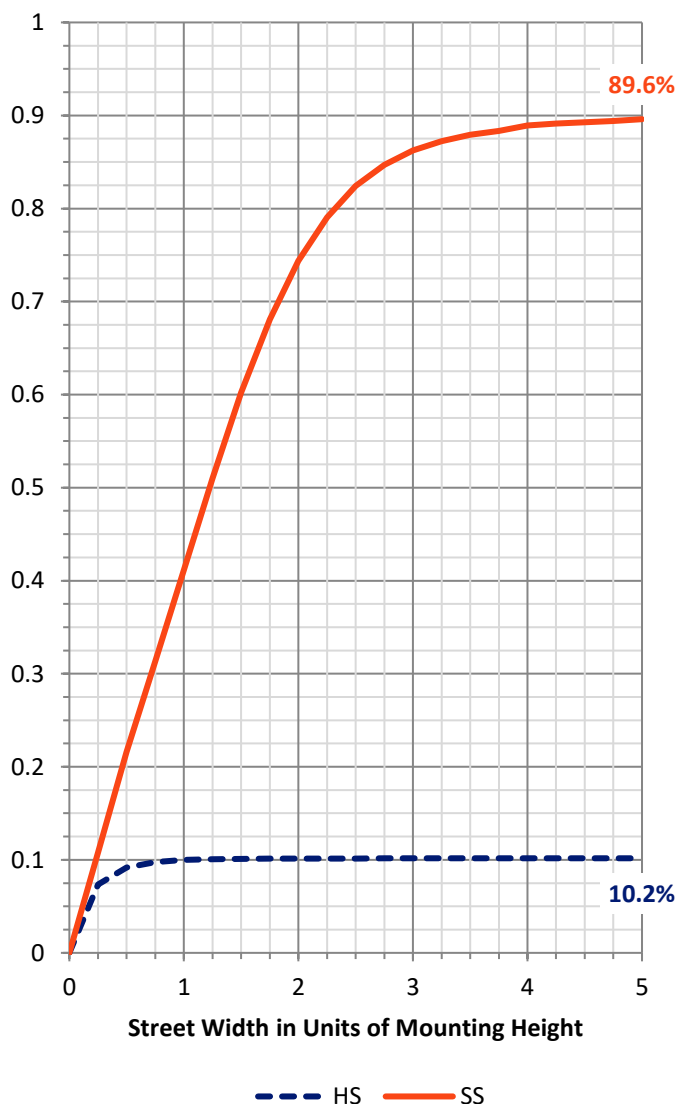
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3828.2	0.0	3828.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	33473.8	0.0	33473.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	37302.0	0.0	37302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.0	1.0
10°-20°	1128.6	3.0
20°-30°	1774.9	4.8
30°-40°	2545.2	6.8
40°-50°	4399.1	11.8
50°-60°	8690.8	23.3
60°-70°	12146.2	32.6
70°-80°	5867.9	15.7
80°-90°	377.2	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°	37302.0	100.0
0°-180°	37302.0	100.0

**Coefficient of Utilization**

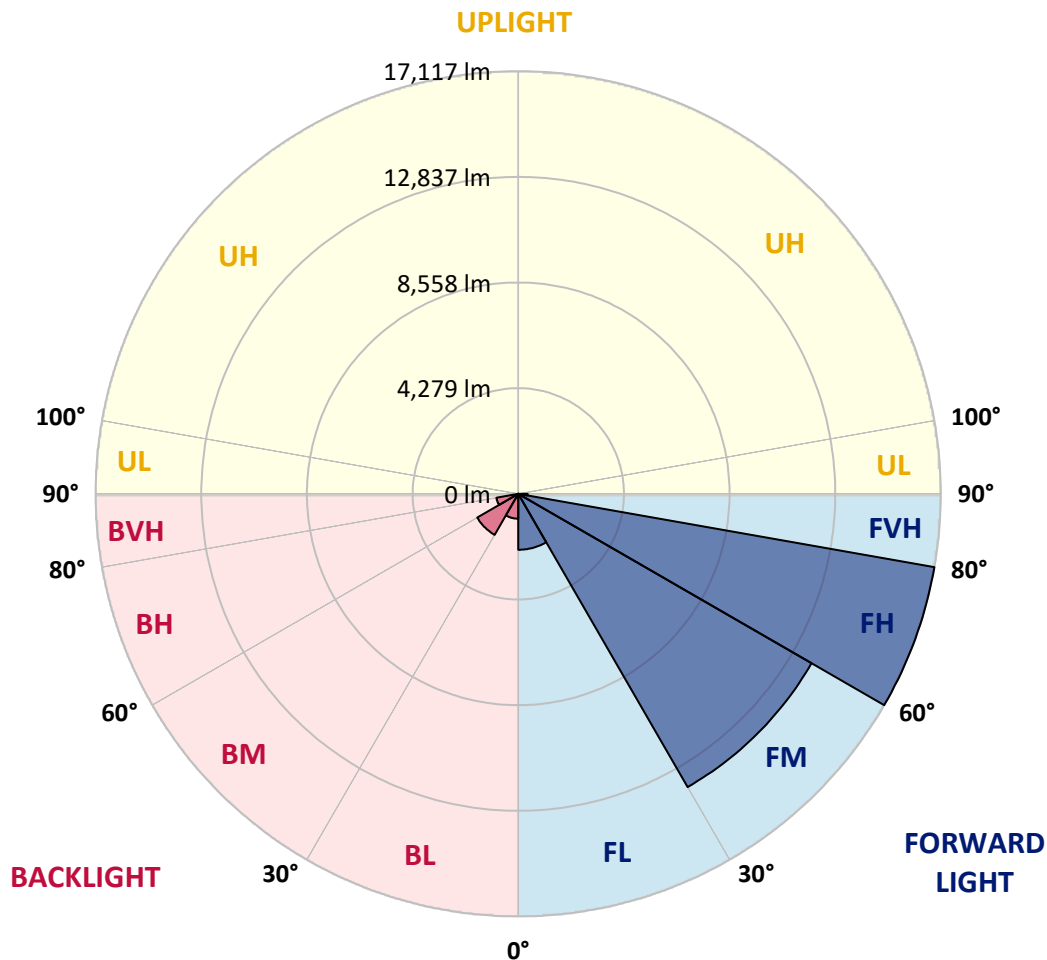


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.5	6.1			
FM (30°-60°)	13716.8	36.8			
FH (60°-80°)	17116.5	45.9			G5
FVH (80°-90°)	374.0	1.0			G3/500
BL (0°-30°)	1009.0	2.7	B3/2500		
BM (30°-60°)	1918.4	5.1	B2/2500		
BH (60°-80°)	897.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5
2.5°	4152.0	4146.8	4122.3	4111.8	4052.3	4017.4	4003.4	3959.6	3896.7	3833.7	3763.8
5°	4624.2	4622.5	4577.0	4533.3	4421.4	4316.4	4297.2	4195.7	4054.1	3921.2	3788.2
7.5°	5107.0	5084.2	5038.7	4954.8	4792.1	4624.2	4608.5	4465.1	4264.0	4071.6	3880.9
10°	5516.2	5502.2	5442.8	5315.1	5124.4	4933.8	4914.6	4737.9	4510.6	4274.5	4031.3
12.5°	5834.5	5824.0	5745.3	5586.2	5383.3	5185.7	5159.4	5002.0	4758.9	4494.8	4208.0
15°	6028.7	6023.4	5927.2	5757.6	5558.2	5386.8	5364.1	5225.9	5000.3	4723.9	4400.4
17.5°	6074.1	6075.9	5976.2	5804.8	5640.4	5518.0	5500.5	5395.5	5206.6	4932.1	4592.8
20°	5972.7	5993.7	5904.5	5755.8	5654.4	5589.7	5575.7	5512.7	5353.6	5094.7	4746.7
22.5°	5829.3	5839.8	5778.6	5678.9	5636.9	5649.1	5642.1	5607.2	5472.5	5234.6	4898.8
25°	5741.8	5741.8	5705.1	5621.1	5649.1	5724.3	5726.1	5719.1	5612.4	5406.0	5084.2
27.5°	5738.3	5727.8	5685.9	5622.9	5699.9	5815.3	5822.3	5869.5	5803.0	5614.2	5315.1
30°	5878.2	5866.0	5776.8	5694.6	5792.5	5916.7	5934.2	6037.4	6004.2	5839.8	5572.2
32.5°	6205.3	6161.6	5963.9	5829.3	5902.7	6051.4	6074.1	6238.5	6291.0	6117.9	5820.5
35°	6653.0	6514.9	6229.8	6084.6	6091.6	6247.3	6268.3	6509.6	6665.3	6373.2	6012.9
37.5°	7270.4	7202.2	6738.7	6350.5	6381.9	6618.1	6679.3	6941.6	6897.9	6513.1	6231.5
40°	8624.1	8517.4	8024.2	7095.5	6660.0	6918.9	6938.1	7078.0	7081.5	6829.7	6686.3
42.5°	10467.5	10423.8	9904.3	8447.5	7207.5	7120.0	7155.0	7391.1	7655.2	7497.8	7490.8
45°	12508.5	12485.8	11934.9	10241.9	8314.5	7779.4	7823.1	8139.6	8645.1	8680.1	8902.2
47.5°	14150.8	14140.3	13823.8	12244.4	10009.3	8896.9	8910.9	9246.7	10135.2	10574.2	10929.2
50°	15647.9	15698.6	15448.5	14411.4	12317.9	10647.6	10614.4	10838.3	12265.4	12984.3	13425.0
52.5°	17729.2	17800.9	17099.6	16433.2	14740.2	12819.9	12793.6	13028.0	14825.9	15364.6	15443.3
55°	19567.3	19444.9	18890.5	18698.1	17694.2	15502.8	15495.8	15702.1	17302.4	17531.5	17676.7
57.5°	20378.8	20331.6	20599.2	21040.0	20788.1	18673.6	18657.9	18500.5	19518.4	19542.8	19988.8
60°	20891.3	20949.0	21769.3	23128.2	23756.1	22085.8	21984.4	21024.2	21634.6	21580.4	22057.8
62.5°	20506.5	20620.2	22096.3	24361.2	25977.3	25064.3	24920.9	23336.3	23443.0	23255.9	23700.1
65°	18463.7	18640.4	21059.2	24128.6	27079.1	27392.2	27247.0	25377.4	24878.9	24571.1	24324.5
67.5°	14992.1	15097.0	17622.5	22105.1	26582.4	28780.8	28751.1	27166.5	25963.3	24349.0	22435.6
69°	12389.6	12492.8	14923.8	19974.8	25489.3	29078.2	29135.9	27740.2	25756.9	22998.8	19878.6
70°	10493.7	10603.9	12868.8	18148.9	24221.3	28940.0	29043.2	27686.0	25165.7	21435.2	17634.7
72.5°	5504.0	5598.4	7922.8	12503.3	19745.7	26573.7	26886.7	25345.9	21332.0	15567.5	10427.3
75°	1729.7	1783.9	3093.9	6535.9	13519.4	20662.2	20733.9	19882.1	15147.7	8562.9	4342.7
77.5°	659.4	643.6	1030.1	2408.3	6834.9	13010.5	13449.5	12424.6	7949.0	3027.4	1002.2
80°	355.0	356.8	535.2	996.9	2924.3	6686.3	7057.0	6021.7	2824.6	944.4	230.9
82.5°	153.9	160.9	300.8	528.2	1343.2	2466.0	2651.4	2207.2	1079.1	634.9	85.7
85°	33.2	36.7	145.2	286.8	547.4	692.6	725.8	715.3	687.3	493.2	33.2
87.5°	0.0	0.0	64.7	103.2	138.2	157.4	138.2	180.1	379.5	332.3	17.5
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°	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5
2.5°	3741.0	3709.5	3655.3	3595.9	3553.9	3510.2	3475.2	3459.4	3441.9	3429.7	3445.4
5°	3734.0	3672.8	3567.9	3466.4	3393.0	3333.5	3284.5	3265.3	3246.1	3232.1	3230.3
7.5°	3795.2	3709.5	3548.6	3400.0	3286.3	3205.8	3139.4	3111.4	3088.7	3078.2	3069.4
10°	3912.4	3802.2	3587.1	3393.0	3246.1	3109.6	2966.2	2856.0	2784.3	2751.1	2738.9
12.5°	4064.6	3926.4	3660.6	3429.7	3216.3	2954.0	2649.7	2387.3	2217.7	2161.7	2128.5
15°	4243.0	4071.6	3756.8	3476.9	3107.9	2628.7	2112.7	1769.9	1612.5	1581.1	1546.1
17.5°	4414.4	4225.5	3872.2	3485.7	2870.0	2100.5	1547.8	1315.2	1254.0	1275.0	1280.2
20°	4564.8	4377.6	3985.9	3408.7	2438.0	1575.8	1198.0	1140.3	1163.1	1203.3	1210.3
22.5°	4716.9	4524.6	4090.8	3205.8	1885.4	1196.3	1079.1	1093.1	1115.8	1156.1	1163.1
25°	4902.3	4702.9	4188.8	2833.3	1414.9	1017.9	1024.9	1045.9	1068.6	1105.3	1108.8
27.5°	5115.7	4928.6	4253.5	2348.8	1049.4	935.7	958.4	989.9	1012.6	1047.6	1054.6
30°	5399.0	5225.9	4274.5	1846.9	879.7	862.2	872.7	911.2	944.4	975.9	981.2
32.5°	5664.9	5519.7	4204.5	1393.9	815.0	794.0	794.0	816.8	855.2	885.0	892.0
35°	5909.7	5815.3	3980.6	1019.6	766.0	731.1	713.6	713.6	738.1	762.5	769.5
37.5°	6233.3	6229.8	3618.6	813.3	718.8	678.6	641.9	613.9	605.1	610.4	613.9
40°	6787.7	6792.9	3146.4	729.3	678.6	624.4	568.4	517.7	470.5	454.7	453.0
42.5°	7653.4	7574.7	2651.4	689.1	643.6	568.4	484.5	416.3	342.8	320.1	318.3
45°	9028.1	8561.1	2126.7	652.4	606.9	505.4	400.5	307.8	248.4	230.9	230.9
47.5°	11030.7	9857.1	1647.5	612.1	557.9	433.7	302.6	222.1	181.9	173.1	174.9
50°	13101.4	11126.9	1262.7	561.4	498.5	358.5	223.9	160.9	138.2	138.2	139.9
52.5°	14937.8	12057.3	984.7	507.2	425.0	281.6	169.6	125.9	115.4	113.7	115.4
55°	16657.1	12657.2	753.8	444.2	337.5	209.9	129.4	103.2	96.2	92.7	90.9
57.5°	18315.1	12954.5	564.9	358.5	244.9	152.2	103.2	87.4	80.5	75.2	73.5
60°	19418.7	12713.2	388.3	264.1	169.6	110.2	85.7	75.2	66.5	61.2	59.5
62.5°	20041.3	12053.8	250.1	190.6	120.7	82.2	68.2	63.0	50.7	45.5	45.5
65°	19789.4	10966.0	174.9	136.4	87.4	61.2	50.7	50.7	36.7	29.7	28.0
67.5°	17536.8	9264.2	132.9	101.4	63.0	45.5	38.5	43.7	22.7	14.0	14.0
69°	15088.3	7677.9	113.7	83.9	52.5	36.7	33.2	40.2	15.7	10.5	8.7
70°	13113.7	6623.3	103.2	73.5	43.7	31.5	29.7	38.5	15.7	8.7	7.0
72.5°	7845.8	3693.8	78.7	52.5	28.0	24.5	24.5	43.7	15.7	8.7	7.0
75°	3170.9	1301.2	57.7	36.7	21.0	21.0	29.7	56.0	14.0	7.0	5.2
77.5°	718.8	285.1	33.2	22.7	14.0	21.0	35.0	43.7	8.7	3.5	0.0
80°	174.9	70.0	21.0	14.0	8.7	15.7	26.2	24.5	1.7	0.0	0.0
82.5°	57.7	24.5	8.7	7.0	1.7	5.2	12.2	7.0	0.0	0.0	0.0
85°	24.5	14.0	3.5	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
87.5°	15.7	5.2	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)