

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: P320129

Luminaire Tested: **GLEON-SA5C-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24694 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

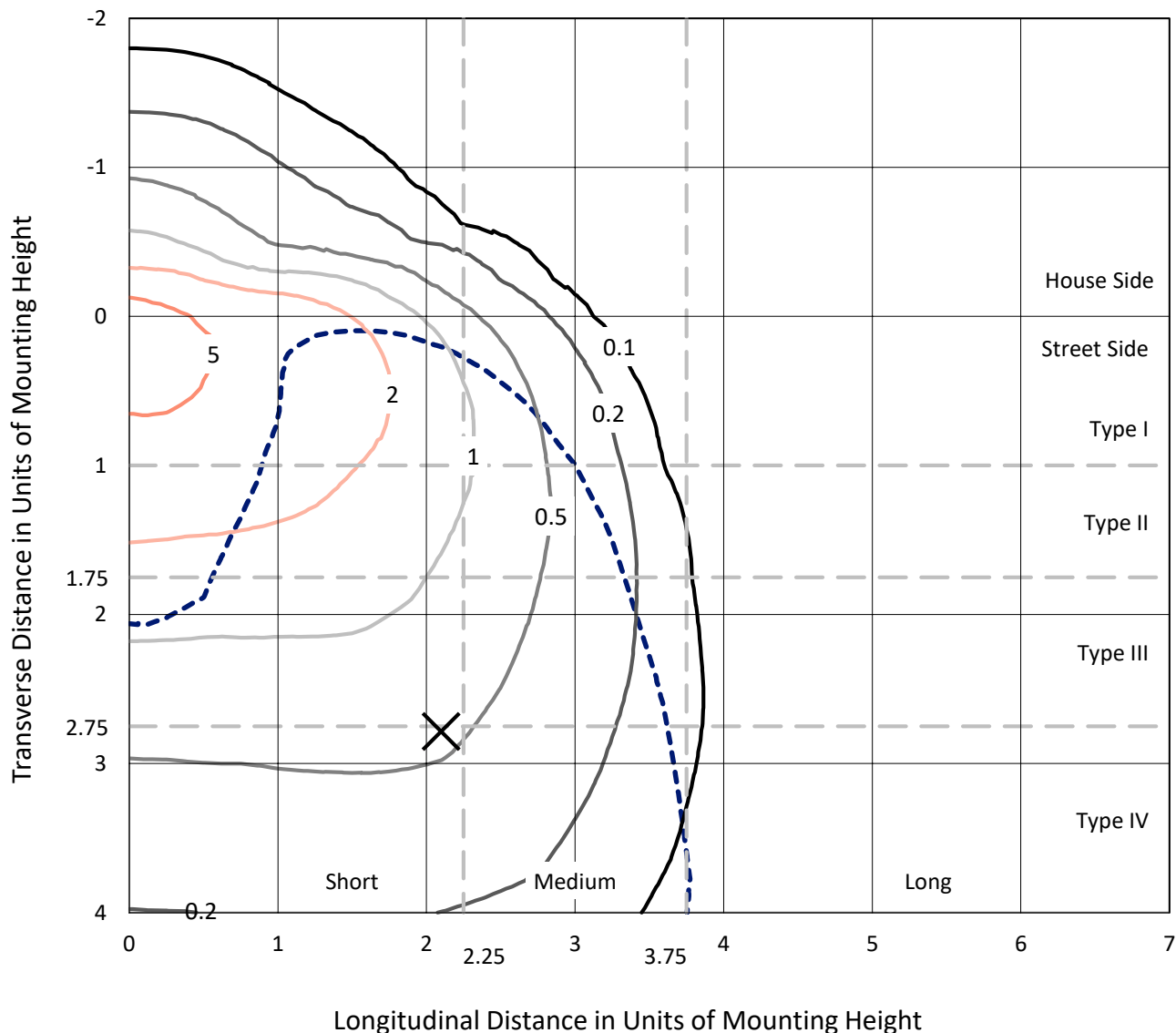
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

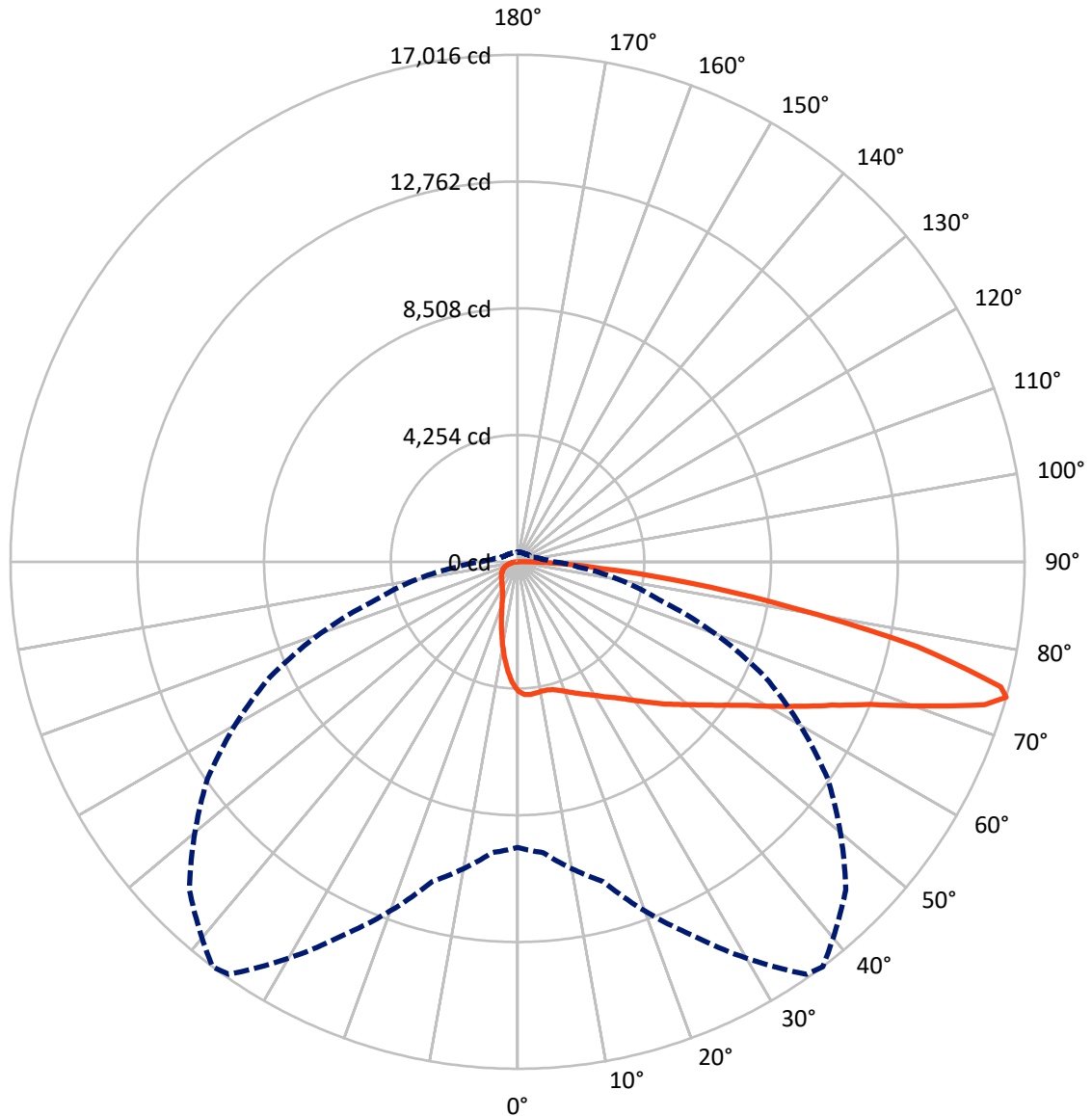
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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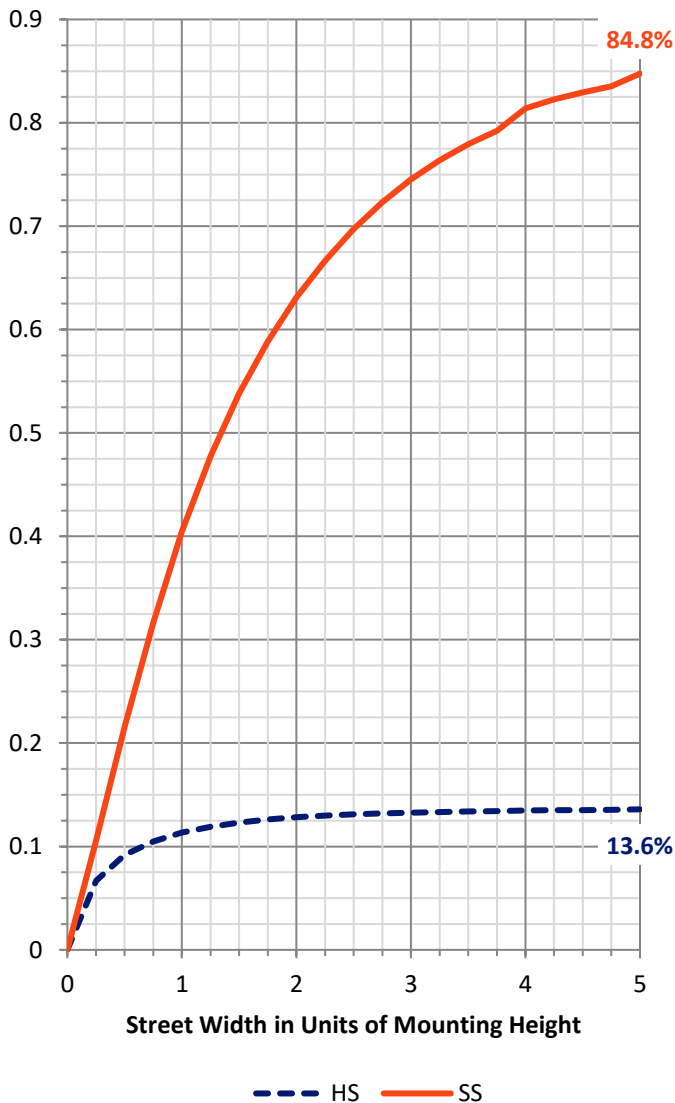
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3397.7	0.0	3397.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	21296.3	0.0	21296.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	24694.0	0.0	24694.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	1.6
10°-20°	982.1	4.0
20°-30°	1513.3	6.1
30°-40°	2200.5	8.9
40°-50°	3238.8	13.1
50°-60°	4548.3	18.4
60°-70°	5756.7	23.3
70°-80°	5069.0	20.5
80°-90°	1002.2	4.1
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°	24694.0	100.0
0°-180°	24694.0	100.0



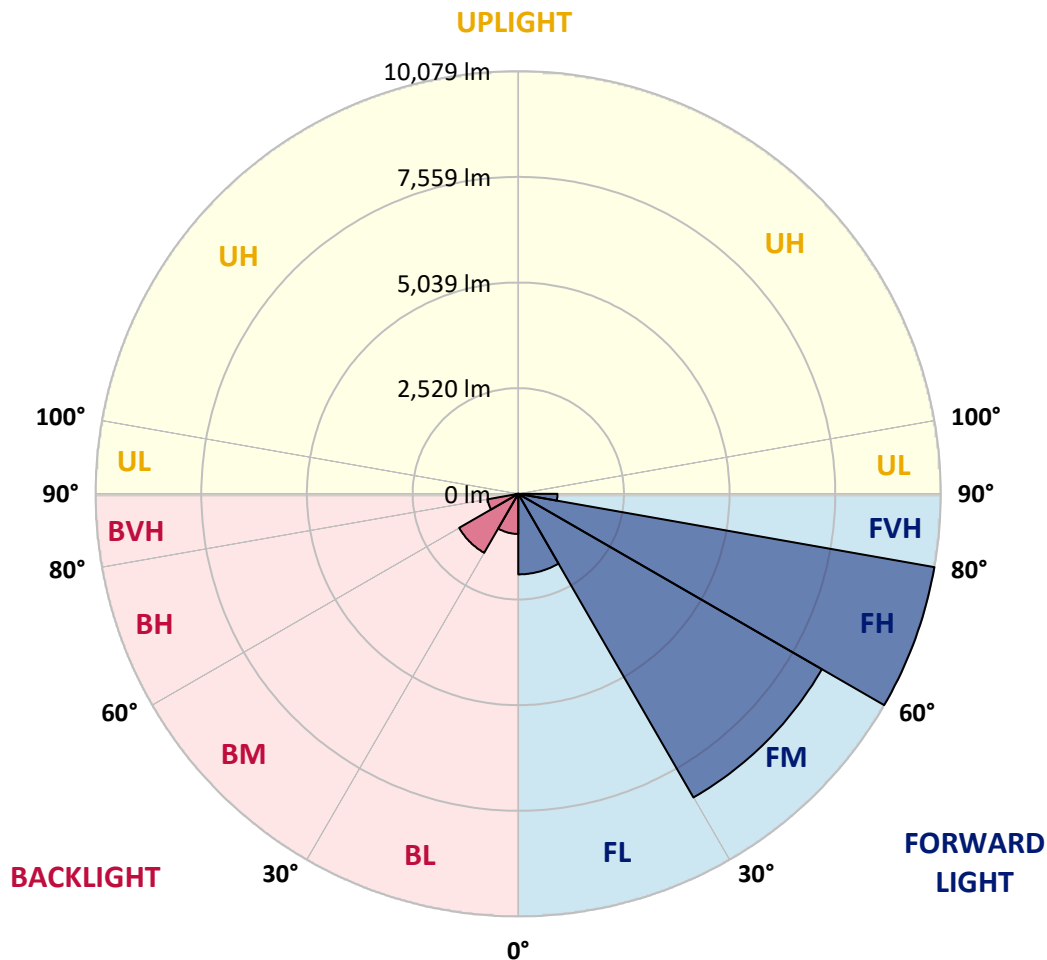
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.5	7.8			
FM (30°-60°)	8361.6	33.9			
FH (60°-80°)	10078.8	40.8			G4/12000
FVH (80°-90°)	934.4	3.8			G5
BL (0°-30°)	957.1	3.9	B2/1000		
BM (30°-60°)	1625.9	6.6	B2/2500		
BH (60°-80°)	746.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0
2.5°	4499.7	4500.6	4499.7	4492.8	4476.2	4462.3	4451.0	4434.5	4398.0	4370.1	4328.4
5°	4542.4	4537.1	4533.7	4520.6	4494.5	4478.9	4457.1	4425.8	4365.8	4310.1	4242.3
7.5°	4522.3	4516.3	4508.4	4492.8	4463.2	4450.1	4419.7	4378.8	4306.6	4233.6	4136.1
10°	4460.6	4458.8	4455.4	4451.9	4426.7	4416.2	4388.4	4344.9	4273.6	4184.8	4070.9
12.5°	4391.9	4396.2	4410.1	4428.4	4417.1	4411.9	4394.5	4364.9	4291.8	4196.2	4058.7
15°	4348.4	4360.6	4398.0	4445.8	4455.4	4453.6	4449.3	4430.1	4352.7	4246.6	4086.6
17.5°	4333.6	4353.6	4424.9	4504.1	4531.9	4538.0	4539.7	4506.7	4420.6	4308.4	4115.3
20°	4360.6	4385.8	4490.2	4598.9	4643.3	4646.7	4638.9	4581.5	4484.9	4361.4	4130.9
22.5°	4442.3	4464.9	4595.4	4718.1	4768.5	4773.7	4750.2	4663.3	4552.8	4424.1	4152.7
25°	4599.8	4627.6	4758.1	4880.7	4906.8	4907.7	4873.8	4765.9	4641.5	4511.9	4199.6
27.5°	4805.0	4832.9	4950.3	5070.4	5056.4	5048.6	5002.5	4894.6	4757.2	4632.8	4283.1
30°	5033.8	5064.3	5175.6	5260.8	5227.8	5212.1	5174.7	5035.6	4918.1	4798.1	4411.0
32.5°	5270.4	5298.3	5395.7	5454.0	5412.2	5405.2	5348.7	5221.7	5127.8	5050.3	4618.0
35°	5513.1	5533.1	5628.8	5661.9	5606.2	5604.4	5588.8	5472.2	5413.1	5449.6	4919.0
37.5°	5761.0	5766.2	5848.0	5849.7	5833.2	5840.2	5856.7	5783.6	5800.2	5914.1	5310.4
40°	5982.0	5995.9	6055.0	6073.3	6102.0	6126.3	6209.0	6161.1	6289.0	6490.8	5797.5
42.5°	6145.5	6172.5	6267.3	6314.2	6407.3	6445.6	6562.1	6606.5	6864.0	7166.7	6376.9
45°	6283.8	6325.5	6477.8	6574.3	6731.8	6798.7	6965.8	7114.5	7513.8	7900.0	6986.6
47.5°	6433.4	6486.5	6677.0	6861.4	7075.4	7151.0	7454.6	7677.3	8207.0	8637.6	7561.6
50°	6653.5	6694.4	6880.5	7170.2	7437.2	7534.6	7954.8	8274.0	8911.6	9340.4	8060.0
52.5°	6960.5	6944.9	7102.3	7508.5	7866.9	7987.0	8488.9	8909.0	9625.8	9976.3	8481.0
55°	7269.3	7243.2	7353.7	7862.6	8368.0	8494.1	9076.9	9546.6	10305.1	10548.7	8803.7
57.5°	7612.9	7563.3	7656.4	8261.8	8938.6	9089.1	9735.4	10224.2	10973.2	11011.4	9009.0
60°	7967.0	7900.0	8004.4	8756.8	9663.2	9840.6	10506.0	10885.3	11602.9	11382.0	9075.1
62.5°	8276.6	8229.6	8390.6	9309.1	10479.9	10674.8	11262.8	11588.1	12224.0	11535.9	8836.8
65°	8547.1	8555.0	8833.3	9930.2	11390.7	11598.6	12130.9	12454.5	12712.9	11444.6	8279.2
67.5°	8869.9	8914.2	9389.2	10747.9	12537.1	12765.0	13393.9	13399.2	12986.0	10908.8	7181.5
70°	9340.4	9431.8	10153.8	11882.1	14167.2	14480.4	14965.8	13954.1	12602.4	9456.1	5650.5
72.5°	9758.0	9928.5	10967.1	13180.0	16154.0	16391.4	15885.2	13634.0	10999.2	7086.7	3520.3
74°	9588.4	9799.7	11114.9	13819.3	16902.0	17016.0	15574.7	12699.8	9170.8	4907.7	2045.9
75°	9223.0	9452.7	10899.2	13813.2	16807.2	16743.7	14824.8	11632.5	7552.9	3347.2	1361.3
77.5°	7443.3	7686.0	9183.9	11838.7	13781.0	13721.0	11388.1	7803.4	3308.0	1097.8	691.5
80°	4327.5	4512.8	5701.0	7518.1	9292.6	9401.3	7489.4	3861.3	1301.3	616.7	468.8
82.5°	1922.4	2050.2	2753.9	3837.8	5607.9	5748.0	3922.2	2023.3	803.7	374.9	281.8
85°	1261.3	1356.1	1671.9	1827.6	2670.4	2766.1	1919.8	1575.3	530.6	206.2	207.0
87.5°	907.3	998.6	1242.1	1084.7	1225.6	1160.4	1044.7	1457.9	213.1	117.4	69.6
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°	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0	4351.0
2.5°	4310.1	4296.2	4264.9	4205.7	4172.7	4144.8	4098.7	4071.8	4059.6	4058.7	4063.9
5°	4203.1	4170.9	4090.0	3990.9	3911.7	3839.5	3749.9	3696.0	3657.7	3635.1	3641.2
7.5°	4078.7	4028.3	3901.3	3743.0	3616.0	3475.9	3337.6	3255.0	3190.6	3142.8	3151.5
10°	3993.5	3923.9	3738.6	3510.7	3299.3	3095.8	2905.3	2791.3	2700.9	2631.3	2636.5
12.5°	3964.8	3870.8	3614.2	3309.8	3013.2	2734.8	2486.0	2311.2	2218.1	2139.0	2145.0
15°	3969.1	3843.0	3509.8	3128.8	2755.7	2405.1	2103.3	1898.9	1772.8	1718.0	1718.8
17.5°	3972.6	3810.8	3400.2	2934.9	2500.8	2097.2	1769.3	1562.2	1443.1	1392.6	1393.5
20°	3961.3	3758.6	3264.5	2712.2	2234.6	1814.5	1497.0	1321.3	1230.8	1191.7	1191.7
22.5°	3946.5	3696.9	3111.5	2488.6	1971.9	1569.2	1302.2	1168.2	1116.0	1089.9	1089.1
25°	3953.5	3650.8	2954.9	2259.0	1730.1	1373.5	1172.6	1083.8	1049.0	1032.5	1031.6
27.5°	3990.9	3629.0	2810.5	2030.2	1518.8	1226.5	1085.6	1022.9	1000.3	989.9	989.9
30°	4058.7	3629.0	2660.0	1835.4	1343.0	1117.8	1018.6	976.0	960.3	953.4	953.4
32.5°	4177.0	3649.0	2514.7	1642.3	1203.0	1032.5	962.9	934.2	922.0	918.6	918.6
35°	4380.6	3716.9	2372.9	1459.6	1089.9	962.9	909.9	893.3	884.6	883.8	886.4
37.5°	4666.7	3855.2	2239.9	1324.8	1009.9	906.4	865.5	852.5	847.2	851.6	855.1
40°	5026.9	4043.1	2119.0	1203.0	949.0	861.2	824.6	815.9	813.3	819.4	824.6
42.5°	5461.8	4297.1	2019.8	1115.1	902.0	822.9	789.8	779.4	776.8	783.7	790.7
45°	5932.4	4570.2	1950.2	1049.9	865.5	794.2	759.4	748.1	742.9	746.3	754.2
47.5°	6360.3	4828.5	1922.4	1003.8	830.7	769.8	732.4	718.5	709.8	708.1	714.1
50°	6721.3	5020.8	1935.4	976.0	802.9	742.9	706.3	690.7	677.6	669.8	674.1
52.5°	6984.0	5141.7	1947.6	963.8	781.1	713.3	677.6	662.8	645.4	632.4	632.4
55°	7174.5	5169.5	1920.6	954.2	764.6	681.1	645.4	631.5	614.1	599.3	597.6
57.5°	7249.3	5091.2	1820.6	940.3	753.3	650.6	611.5	601.1	586.3	568.9	568.0
60°	7148.4	4849.4	1627.5	910.7	738.5	625.4	577.6	570.6	563.7	547.1	546.3
62.5°	6743.1	4318.8	1377.8	850.7	708.9	598.5	546.3	549.7	550.6	539.3	537.6
65°	6008.1	3589.9	1134.3	772.4	664.6	566.3	514.1	530.6	540.2	538.4	535.8
67.5°	4939.9	2794.0	961.2	689.8	606.3	521.9	479.3	498.4	506.3	512.3	510.6
70°	3666.4	1970.2	795.0	602.8	535.8	469.7	434.1	443.6	438.4	445.4	448.0
72.5°	2044.1	1182.1	648.0	515.8	462.8	408.8	383.6	381.9	370.6	370.6	370.6
74°	1226.5	867.2	569.8	461.9	418.4	368.8	347.1	339.2	328.8	329.7	328.8
75°	986.4	745.5	522.8	426.2	387.1	345.3	323.6	313.1	305.3	305.3	304.4
77.5°	622.8	566.3	421.0	339.2	309.7	284.4	269.7	255.7	255.7	254.9	254.0
80°	470.6	450.6	327.9	256.6	237.5	218.3	208.8	202.7	202.7	205.3	204.4
82.5°	322.7	339.2	230.5	179.2	169.6	155.7	154.0	154.8	152.2	148.7	147.9
85°	235.7	254.9	155.7	113.1	103.5	94.8	101.8	105.3	100.9	93.1	89.6
87.5°	90.5	167.0	83.5	47.0	43.5	37.4	43.5	45.2	48.7	38.3	39.1
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)