

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: P647085

Luminaire Tested: **GALN-SA7C-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38257.4 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

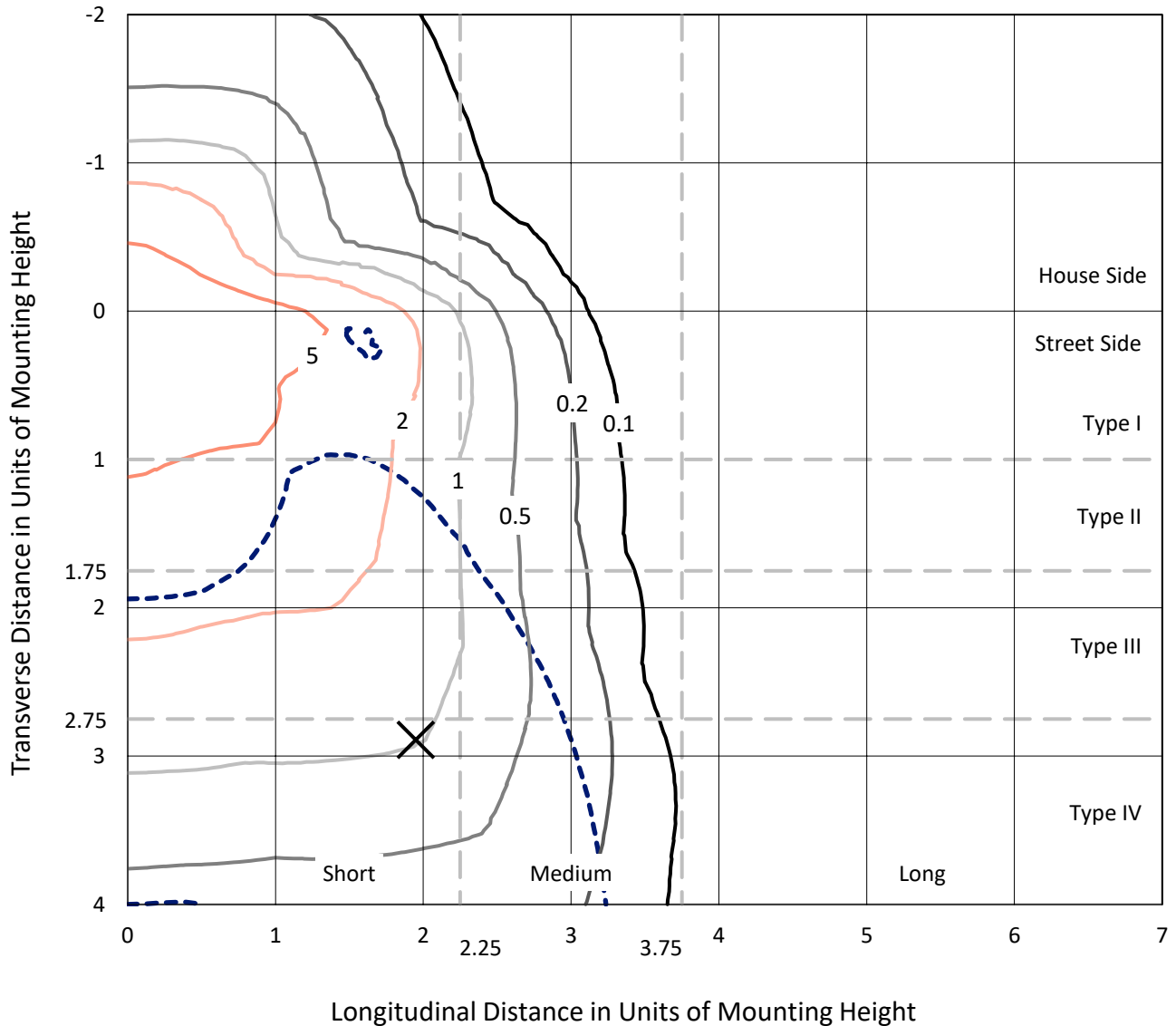
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

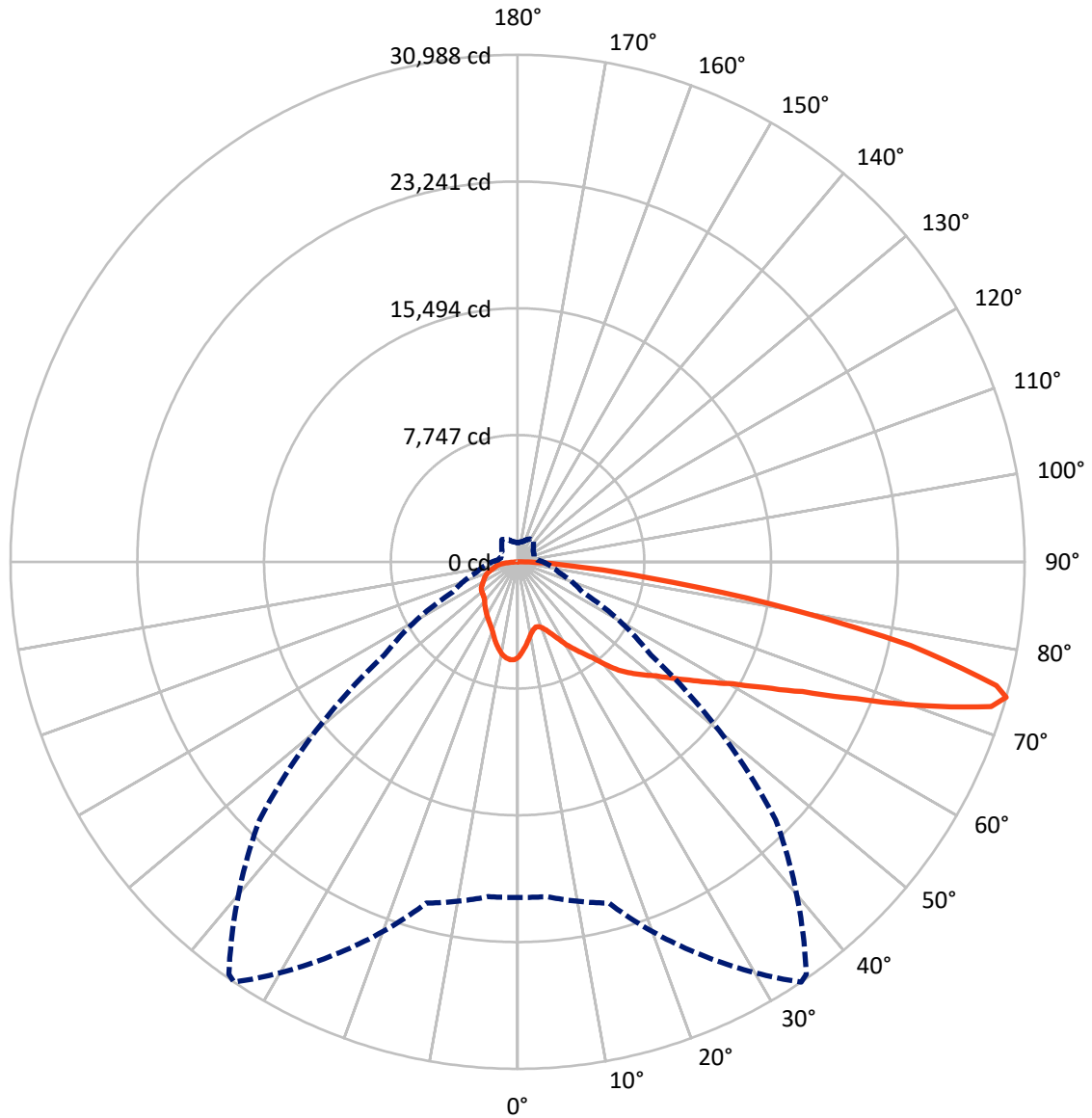
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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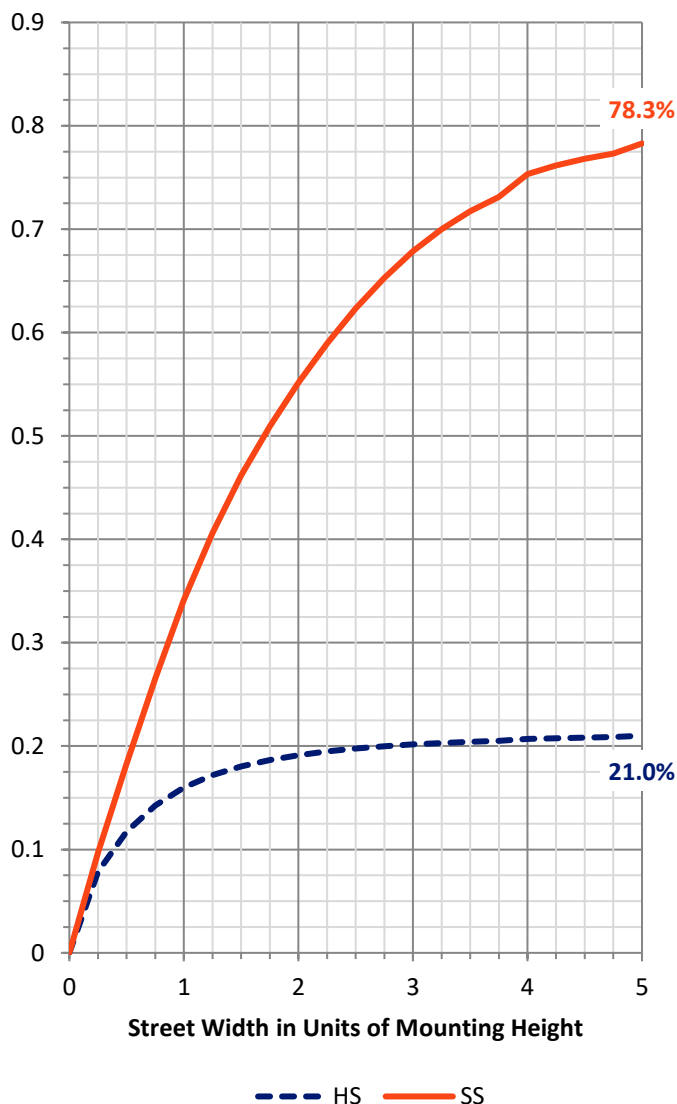
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8141.4	0.0	8141.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	30115.9	0.0	30115.9
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	38257.4	0.0	38257.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.2	1.4
10°-20°	1454.2	3.8
20°-30°	2397.6	6.3
30°-40°	3591.4	9.4
40°-50°	5220.9	13.6
50°-60°	7292.3	19.1
60°-70°	9129.6	23.9
70°-80°	7549.4	19.7
80°-90°	1090.8	2.9
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°	38257.4	100.0
0°-180°	38257.4	100.0

**Coefficient of Utilization**

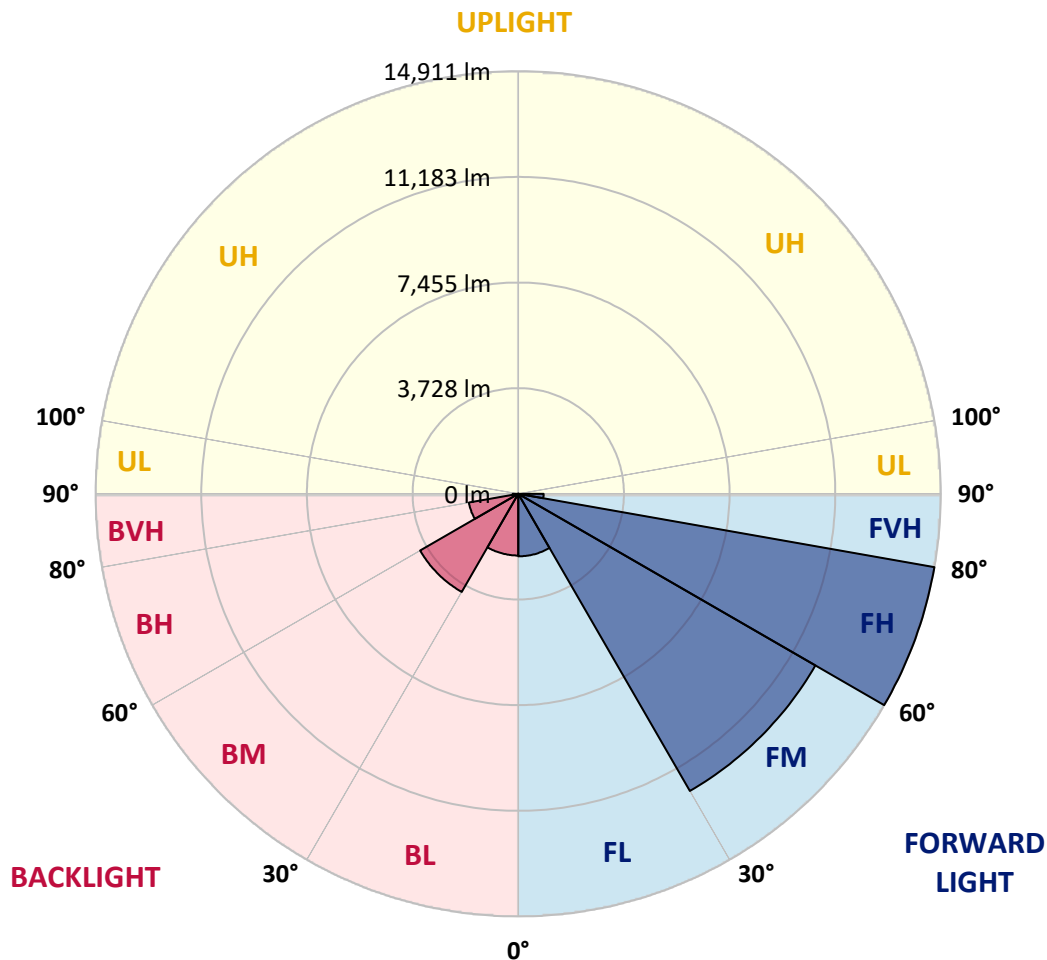


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.4	5.8			
FM (30°-60°)	12106.2	31.6			
FH (60°-80°)	14910.7	39.0			G5
FVH (80°-90°)	893.7	2.3			G5
BL (0°-30°)	2177.7	5.7	B3/2500		
BM (30°-60°)	3998.3	10.5	B3/5000		
BH (60°-80°)	1768.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	197.2	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2
2.5°	5398.2	5425.7	5440.6	5493.5	5506.3	5523.2	5567.8	5627.1	5703.4	5771.2	5830.5
5°	4948.9	4991.2	5016.7	5063.3	5154.5	5162.9	5281.6	5417.3	5572.0	5716.1	5834.8
7.5°	4522.8	4569.5	4590.7	4675.4	4796.3	4815.4	4989.1	5203.2	5461.7	5680.0	5862.3
10°	4202.8	4226.2	4272.8	4336.3	4480.5	4493.2	4720.0	5006.1	5340.9	5663.1	5909.0
12.5°	4029.0	4041.8	4052.3	4120.1	4262.2	4281.2	4518.6	4842.9	5245.6	5675.8	5985.3
15°	4054.5	4058.7	4012.1	4024.8	4139.3	4166.8	4402.0	4734.8	5186.3	5707.6	6099.7
17.5°	4268.5	4253.7	4139.3	4079.9	4160.5	4173.2	4378.8	4692.4	5158.7	5767.0	6218.4
20°	4605.5	4584.3	4387.2	4255.8	4302.4	4313.0	4455.0	4724.2	5186.3	5864.4	6402.8
22.5°	5025.1	5016.7	4717.8	4558.9	4556.7	4556.7	4631.0	4838.6	5268.9	5998.0	6595.7
25°	5612.2	5567.8	5177.7	4972.2	4915.0	4910.7	4902.2	5027.3	5374.9	6140.0	6824.5
27.5°	6214.2	6137.9	5790.3	5474.5	5351.6	5336.7	5281.6	5294.3	5510.5	6301.0	7085.3
30°	6754.6	6705.8	6379.5	6029.8	5883.5	5849.6	5697.0	5627.1	5737.3	6591.5	7500.7
32.5°	7167.9	7138.2	6883.9	6566.0	6349.8	6343.5	6120.9	6063.7	6091.3	6943.3	7975.4
35°	7502.8	7513.4	7384.1	7108.5	6860.6	6824.5	6676.2	6604.1	6523.6	7451.9	8573.1
37.5°	7960.6	7983.9	7975.4	7738.0	7435.0	7443.4	7409.5	7290.8	7076.8	8020.0	9236.5
40°	8465.0	8481.9	8479.8	8388.7	8229.7	8238.3	8225.5	8089.9	7769.8	8742.7	9974.0
42.5°	9162.3	9081.8	8871.9	8963.1	9056.3	9096.6	9183.5	9054.2	8615.5	9514.1	10667.1
45°	9942.2	9789.6	9314.9	9357.2	9702.8	9779.0	10258.0	10080.0	9533.2	10400.0	11483.1
47.5°	10433.9	10283.5	9882.9	9874.4	10332.2	10406.4	11254.1	11188.4	10368.3	11355.9	12479.2
50°	10872.7	10851.4	10400.0	10508.1	10955.3	11065.5	12339.3	12277.8	11201.2	12483.4	13564.4
52.5°	11523.3	11351.6	10991.4	11213.9	11805.2	11949.4	13416.0	13235.8	11966.3	13479.6	14617.7
55°	11815.8	11775.5	11754.3	11947.2	12759.0	12862.8	14462.9	14049.7	12619.1	14323.1	15418.8
57.5°	12597.9	12523.7	12733.5	12864.9	13882.3	14041.2	15556.6	14899.6	13191.4	14992.8	15808.8
60°	13611.0	13570.7	13763.6	14001.0	15137.0	15378.6	16802.9	15624.5	13651.2	15329.8	15594.8
62.5°	15124.3	15120.0	15083.9	15592.7	16915.1	17137.7	18233.4	16330.2	13723.3	15077.6	14488.4
65°	17294.5	17218.2	16904.6	17459.9	19127.8	19388.6	19723.4	16724.4	13288.8	13782.7	12199.5
67.5°	19564.4	19560.2	19305.9	20026.5	22304.9	22574.0	21586.4	16637.5	12082.9	11165.2	8664.2
70°	21446.5	21355.4	21679.6	23599.9	26363.6	26675.2	23216.2	15613.8	9624.3	7373.5	5148.1
72.5°	21897.9	21902.2	22576.2	26355.1	30261.2	30309.9	23803.3	12655.1	6441.0	4067.2	2575.1
74°	20507.6	20543.6	21588.5	26492.9	30988.2	30767.8	22302.7	9946.4	4355.4	2655.6	1856.6
75°	18718.8	18492.0	20003.1	25575.1	30233.7	29996.3	20545.8	7981.7	3323.3	2121.5	1625.6
77.5°	10007.9	10239.0	12570.4	19085.5	24562.1	24288.7	13931.0	3827.7	1795.2	1477.2	1170.0
80°	3562.7	3929.4	5523.2	9986.8	15747.4	15832.1	6648.6	1754.9	1263.2	1089.4	826.6
82.5°	1454.0	1494.2	2371.6	4431.7	7996.6	8072.9	2715.0	1042.7	902.9	750.3	493.8
85°	568.0	585.0	1049.1	1992.3	3412.3	3634.8	938.9	551.1	555.3	430.3	252.2
87.5°	190.7	216.2	430.3	663.4	1159.3	1136.0	273.4	163.2	199.2	186.5	78.5
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°	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2	5841.2
2.5°	5860.2	5900.5	5928.0	5957.7	5985.3	5993.7	5987.4	6006.5	6008.6	6010.7	6012.8
5°	5894.1	5949.2	6002.2	6031.9	6044.6	6034.0	5998.0	5978.9	5961.9	5949.2	5953.5
7.5°	5940.8	6019.2	6067.9	6080.6	6046.7	5998.0	5909.0	5839.0	5794.5	5764.8	5762.7
10°	6012.8	6089.2	6129.4	6093.4	6000.1	5881.4	5741.5	5610.1	5510.5	5480.8	5478.7
12.5°	6104.0	6190.9	6188.8	6082.7	5919.6	5707.6	5480.8	5328.2	5192.6	5124.8	5152.3
15°	6222.7	6288.4	6226.9	6036.1	5777.6	5487.2	5207.4	4999.8	4847.2	4775.0	4779.3
17.5°	6360.4	6417.6	6254.4	5953.5	5578.3	5205.3	4881.1	4683.9	4563.2	4510.2	4505.9
20°	6532.1	6549.0	6254.4	5809.4	5321.9	4876.8	4567.4	4429.6	4361.8	4334.2	4342.7
22.5°	6716.5	6682.6	6220.5	5605.9	4984.9	4533.5	4325.8	4264.3	4230.4	4226.2	4230.4
25°	6924.1	6828.8	6150.5	5330.4	4633.1	4236.7	4115.9	4126.6	4132.9	4132.9	4147.7
27.5°	7178.5	6987.7	6034.0	4982.8	4221.9	3961.2	3927.3	4001.4	4035.4	4041.8	4052.3
30°	7513.4	7161.6	5841.2	4548.3	3872.2	3713.2	3772.6	3872.2	3910.4	3933.6	3929.4
32.5°	7911.8	7352.3	5580.4	4113.8	3590.3	3539.5	3611.5	3713.2	3755.7	3768.3	3751.4
35°	8380.2	7568.5	5237.1	3706.9	3344.4	3374.1	3458.9	3490.7	3528.8	3528.8	3537.4
37.5°	8884.6	7742.3	4817.5	3333.9	3153.7	3261.8	3323.3	3293.6	3276.6	3255.5	3266.0
40°	9397.6	7871.6	4272.8	2965.1	2963.0	3145.2	3162.2	3077.4	3009.6	2988.4	2977.8
42.5°	9844.7	7952.1	3781.0	2679.0	2782.8	3030.8	3043.5	2907.8	2799.8	2736.2	2715.0
45°	10372.5	8045.3	3300.0	2441.6	2615.4	2939.6	2971.4	2789.2	2630.2	2496.7	2462.8
47.5°	11095.2	8257.3	2920.6	2257.2	2494.6	2882.5	2926.9	2691.6	2481.9	2308.0	2280.5
50°	11911.2	8547.6	2625.9	2132.1	2401.3	2831.6	2886.7	2592.0	2344.1	2151.2	2130.0
52.5°	12659.3	8704.5	2371.6	2019.8	2310.2	2738.3	2833.7	2520.0	2208.5	1994.4	1975.3
55°	13068.4	8450.1	2121.5	1909.6	2185.1	2617.5	2759.5	2420.4	2077.1	1911.7	1884.1
57.5°	13123.5	7924.5	1894.8	1791.0	2053.7	2469.1	2621.7	2299.6	1992.3	1854.5	1831.2
60°	12697.5	7140.3	1718.8	1693.4	1920.2	2301.7	2467.0	2193.6	1905.4	1791.0	1767.6
62.5°	11637.8	6288.4	1595.9	1604.4	1784.5	2125.8	2352.6	2091.9	1822.7	1721.0	1699.8
65°	9815.1	5190.5	1477.2	1513.3	1663.7	1988.0	2248.7	2007.1	1740.1	1668.0	1648.9
67.5°	6818.2	3747.1	1379.7	1417.9	1549.3	1848.1	2127.9	1916.0	1646.8	1608.7	1579.0
70°	3774.7	2305.9	1265.3	1309.8	1430.6	1691.3	1992.3	1778.2	1511.2	1494.2	1451.8
72.5°	1983.8	1468.8	1136.0	1184.8	1269.6	1490.0	1784.5	1627.7	1377.6	1305.6	1250.5
74°	1549.3	1203.9	1049.1	1100.0	1157.2	1371.3	1661.6	1519.6	1282.2	1197.4	1155.1
75°	1350.0	1072.4	974.9	1040.6	1091.5	1290.7	1566.2	1443.3	1229.2	1148.7	1110.6
77.5°	953.8	803.3	796.9	875.3	902.9	1131.7	1411.5	1314.0	1095.7	1010.9	974.9
80°	669.8	601.9	631.6	680.3	718.5	1000.4	1309.8	1136.0	898.6	799.1	786.3
82.5°	436.6	394.2	451.4	496.0	508.6	737.6	1057.6	862.6	654.9	532.0	493.8
85°	201.3	197.1	258.5	252.2	250.1	360.3	627.3	504.4	377.2	281.9	265.0
87.5°	50.9	48.8	63.6	53.0	63.6	55.1	57.2	14.8	2.1	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)