

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: P458941

Luminaire Tested: **GALN-SA4C-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25692 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

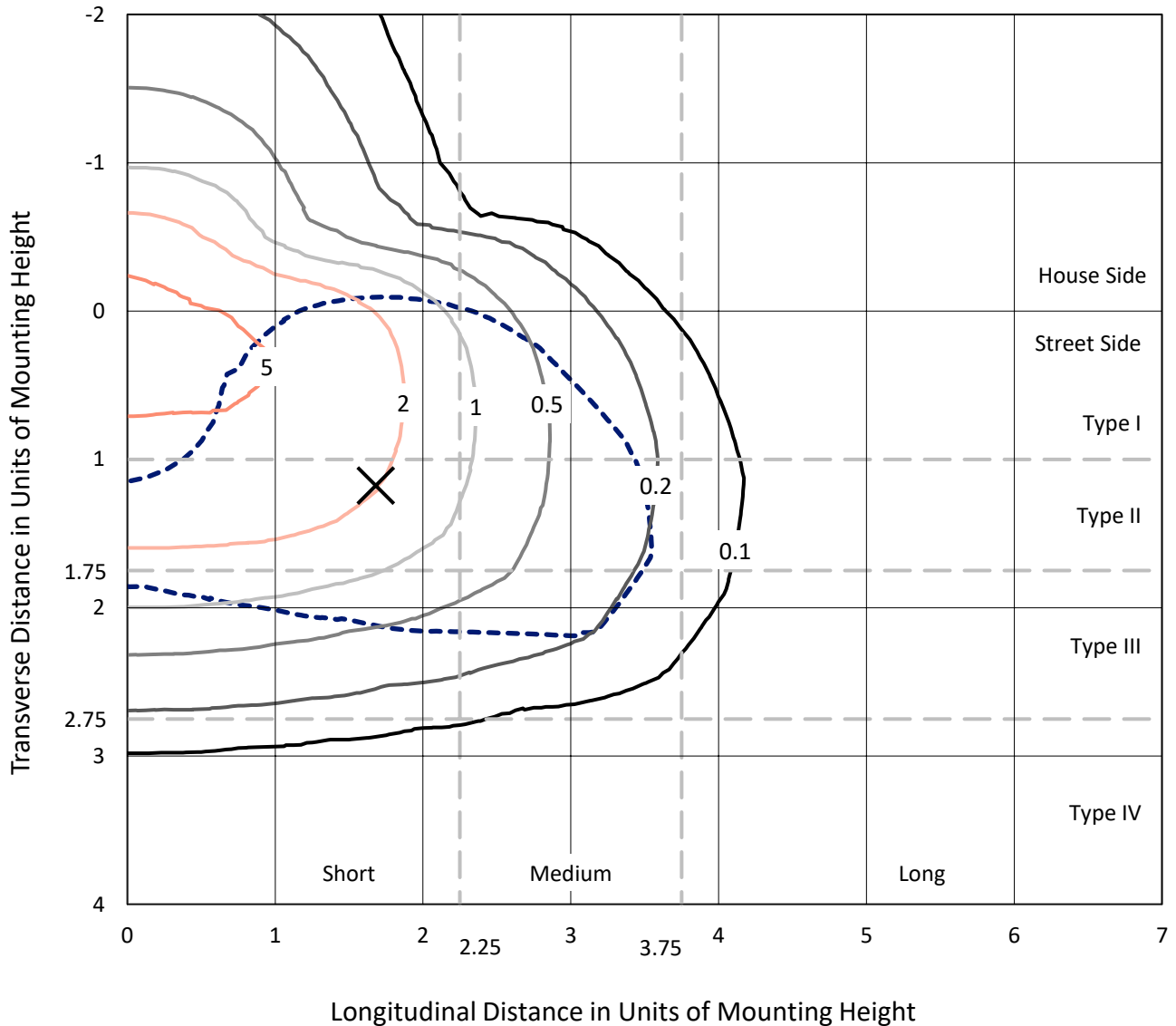
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

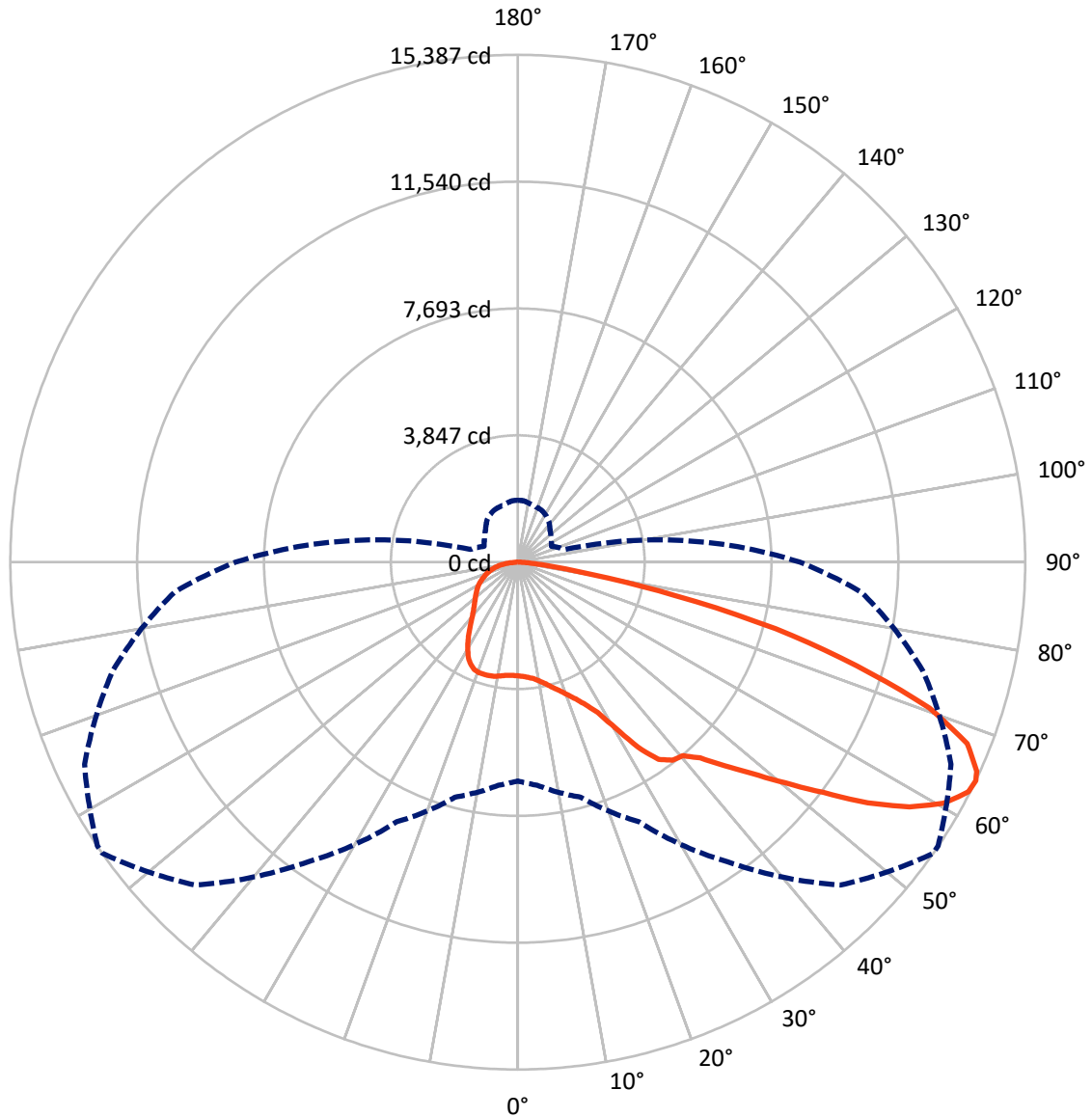
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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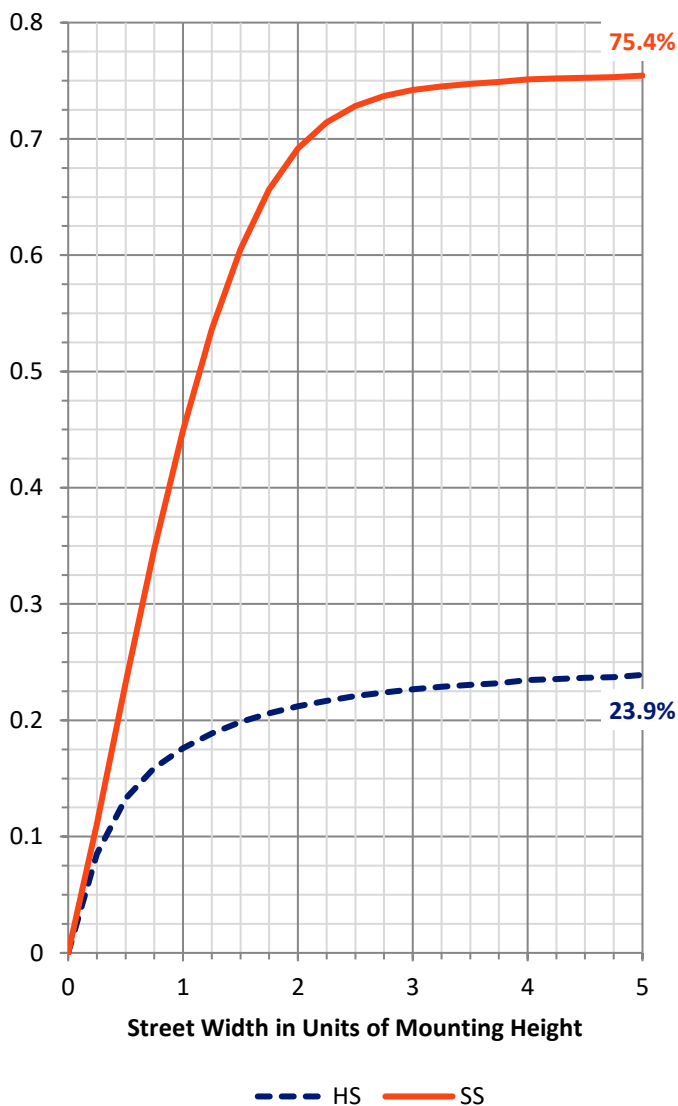
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6241.1	0.0	6241.1
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	19450.9	0.0	19450.9
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	25692.0	0.0	25692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.3	1.3
10°-20°	1058.0	4.1
20°-30°	1883.5	7.3
30°-40°	2898.0	11.3
40°-50°	4108.2	16.0
50°-60°	5946.5	23.1
60°-70°	6154.0	24.0
70°-80°	2881.9	11.2
80°-90°	426.6	1.7
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°	25692.0	100.0
0°-180°	25692.0	100.0

**Coefficient of Utilization**



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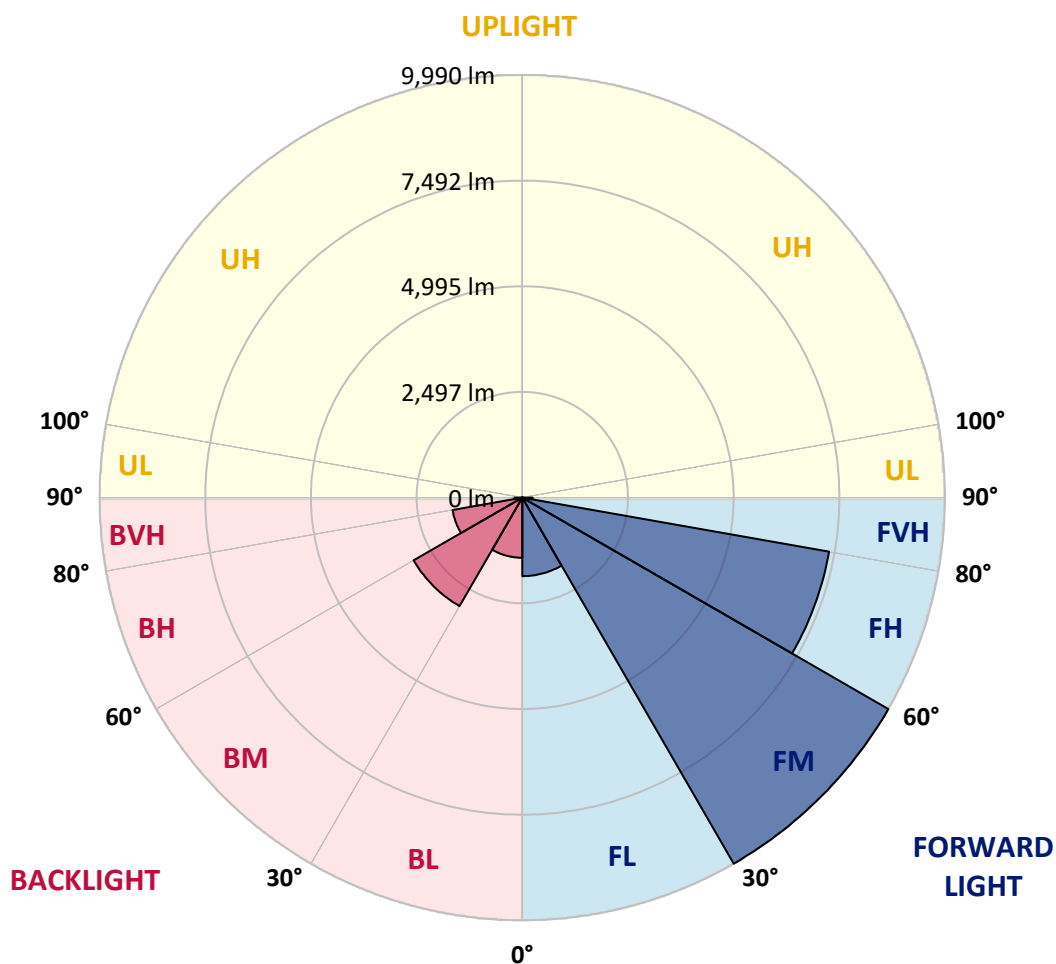
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.4	7.2			
FM	(30°-60°)	9989.7	38.9			
FH	(60°-80°)	7361.5	28.7			G3/7500
FVH	(80°-90°)	244.3	1.0			G3/500
BL	(0°-30°)	1421.5	5.5	B3/2500		
BM	(30°-60°)	2962.9	11.5	B3/5000		
BH	(60°-80°)	1674.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	182.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1
2.5°	3485.8	3484.3	3488.6	3484.3	3487.2	3477.2	3472.9	3475.7	3471.4	3464.3	3451.4
5°	3528.7	3527.3	3528.7	3523.0	3525.9	3520.1	3510.1	3513.0	3505.8	3490.1	3471.4
7.5°	3601.8	3596.0	3596.0	3594.6	3588.9	3580.3	3573.1	3570.3	3563.1	3543.0	3514.4
10°	3696.3	3696.3	3697.7	3686.3	3693.4	3677.7	3670.5	3669.1	3644.7	3618.9	3578.8
12.5°	3820.9	3828.0	3823.7	3818.0	3815.1	3809.4	3785.1	3790.8	3763.6	3719.2	3670.5
15°	3975.5	3987.0	3979.8	3977.0	3969.8	3948.3	3938.3	3934.0	3898.2	3833.8	3769.3
17.5°	4180.3	4166.0	4160.3	4153.1	4123.0	4107.3	4090.1	4087.2	4055.7	3979.8	3879.6
20°	4359.3	4379.4	4367.9	4360.8	4330.7	4300.6	4287.7	4283.4	4256.2	4173.2	4012.8
22.5°	4572.7	4577.0	4581.3	4564.1	4549.8	4526.9	4504.0	4496.8	4486.8	4400.9	4204.7
25°	4800.4	4817.6	4803.3	4786.1	4768.9	4767.5	4789.0	4786.1	4781.8	4698.8	4459.6
27.5°	5171.4	5187.1	5191.4	5172.8	5106.9	5112.6	5161.3	5177.1	5243.0	5105.5	4787.5
30°	5380.4	5396.2	5432.0	5502.2	5606.7	5698.4	5815.8	5851.6	5914.6	5655.4	5177.1
32.5°	5509.3	5515.1	5579.5	5709.8	6023.5	6365.7	6685.1	6698.0	6738.1	6374.3	5533.7
35°	5712.7	5717.0	5768.5	5911.8	6279.8	6849.8	7343.9	7359.6	7326.7	6597.7	5699.8
37.5°	5963.3	5974.8	6007.7	6126.6	6566.2	7255.1	7617.4	7605.9	7313.8	6775.3	5993.4
40°	6328.5	6328.5	6289.8	6450.2	6868.4	7487.1	7713.3	7693.3	7616.0	7289.4	6440.2
42.5°	6650.7	6645.0	6736.6	6845.5	7246.5	7845.1	8115.8	8148.7	8276.2	7935.3	6948.6
45°	7070.3	7096.1	7147.7	7345.3	7889.5	8456.6	8806.0	8837.6	9018.0	8695.8	7542.9
47.5°	7494.2	7502.8	7664.7	7928.2	8685.8	9285.8	9572.2	9623.8	9788.5	9585.1	8183.1
50°	7795.0	7876.6	8135.8	8551.1	9506.4	10296.9	10520.3	10581.9	10872.6	10553.2	8929.2
52.5°	8112.9	8193.1	8509.6	9142.6	10448.7	11330.9	11605.8	11647.4	11949.5	11532.8	9692.5
55°	8385.0	8459.5	8818.9	9666.7	11199.1	12386.3	12884.7	12836.0	12980.7	12287.5	10281.1
57.5°	8429.4	8489.6	8942.1	10001.9	11763.4	13291.4	14006.0	14034.7	13867.1	12851.8	10766.6
60°	8085.7	8208.9	8728.7	9966.1	12016.8	13921.6	14842.4	14862.4	14387.0	13141.0	10959.9
62.5°	7477.1	7464.2	8092.9	9390.4	11661.7	14064.8	15335.0	15313.6	14590.3	13002.1	10772.3
64°	6636.4	6791.1	7378.2	8682.9	11088.8	13844.2	15386.6	15375.1	14493.0	12712.8	10453.0
65°	6123.7	6115.1	6695.1	8104.3	10518.9	13512.0	15294.9	15279.2	14289.6	12453.6	10205.2
67.5°	4420.9	4441.0	5013.8	6254.0	8551.1	12213.0	14697.8	14639.0	13487.6	11594.4	9262.9
70°	2678.0	2689.5	3139.2	4148.8	6138.0	9873.0	13248.5	13251.3	12260.3	10311.2	7883.8
72.5°	1410.6	1440.7	1621.1	2355.8	3727.8	6927.1	10748.0	11002.9	10526.0	8800.3	6228.3
75°	784.8	789.1	916.6	1161.4	1901.8	3876.7	8078.5	8151.6	8333.5	7083.2	4605.7
77.5°	598.6	607.2	647.3	750.4	1035.4	1797.3	4889.2	5255.8	5873.1	4993.8	2627.9
80°	485.5	494.1	528.4	590.0	688.8	852.1	2271.3	2469.0	3143.5	2216.9	1025.4
82.5°	378.1	372.3	416.7	456.8	501.2	504.1	932.3	1031.1	1280.3	953.8	444.0
85°	280.7	280.7	316.5	307.9	323.7	295.0	411.0	454.0	512.7	405.3	206.2
87.5°	111.7	123.2	207.7	186.2	144.6	116.0	151.8	160.4	177.6	159.0	85.9
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°	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1
2.5°	3452.8	3457.1	3447.1	3439.9	3437.1	3432.8	3428.5	3429.9	3435.6	3441.4	3439.9
5°	3470.0	3471.4	3454.3	3445.7	3439.9	3434.2	3434.2	3438.5	3450.0	3458.5	3458.5
7.5°	3513.0	3513.0	3488.6	3472.9	3464.3	3454.3	3451.4	3452.8	3461.4	3472.9	3474.3
10°	3580.3	3574.5	3543.0	3518.7	3502.9	3478.6	3457.1	3445.7	3450.0	3457.1	3457.1
12.5°	3661.9	3646.2	3606.1	3573.1	3534.4	3488.6	3444.2	3421.3	3419.9	3427.0	3424.2
15°	3749.3	3732.1	3676.2	3616.1	3548.8	3481.5	3428.5	3395.5	3369.8	3362.6	3378.3
17.5°	3850.9	3815.1	3737.8	3654.7	3554.5	3467.1	3384.1	3316.8	3270.9	3258.1	3262.3
20°	3974.1	3926.8	3822.3	3692.0	3550.2	3415.6	3286.7	3196.5	3122.0	3099.1	3102.0
22.5°	4144.5	4062.9	3909.7	3710.6	3514.4	3318.2	3139.2	3021.8	2931.5	2895.7	2917.2
25°	4337.9	4249.1	3992.7	3706.3	3421.3	3162.1	2964.5	2811.2	2729.6	2676.6	2688.1
27.5°	4604.2	4446.7	4081.5	3667.6	3288.1	2971.6	2742.5	2597.8	2523.4	2496.2	2509.1
30°	4945.1	4703.1	4177.5	3563.1	3077.6	2731.0	2519.1	2424.6	2380.2	2345.8	2357.3
32.5°	5191.4	4883.5	4198.9	3386.9	2849.9	2511.9	2367.3	2297.1	2248.4	2215.5	2222.6
35°	5367.6	5036.7	4188.9	3170.7	2612.2	2331.5	2247.0	2189.7	2110.9	2039.3	2026.4
37.5°	5603.8	5228.6	4115.9	2934.4	2377.3	2209.7	2149.6	2043.6	1930.5	1834.5	1830.2
40°	5966.2	5453.5	3959.8	2656.6	2176.8	2119.5	2046.5	1909.0	1787.3	1709.9	1704.2
42.5°	6340.0	5661.1	3747.8	2364.4	2012.1	2025.0	1936.2	1800.2	1725.7	1675.6	1669.8
45°	6796.8	5886.0	3518.7	2110.9	1890.4	1936.2	1840.3	1761.5	1717.1	1684.2	1675.6
47.5°	7290.9	6116.5	3260.9	1883.2	1787.3	1854.6	1800.2	1764.4	1740.0	1717.1	1707.1
50°	7823.6	6374.3	3018.9	1699.9	1694.2	1770.1	1795.9	1783.0	1768.7	1761.5	1752.9
52.5°	8407.9	6637.8	2815.5	1571.0	1612.6	1709.9	1797.3	1807.3	1807.3	1803.0	1797.3
55°	8803.2	6821.1	2609.3	1466.5	1529.5	1661.2	1794.4	1833.1	1847.4	1841.7	1836.0
57.5°	9095.3	6921.4	2350.1	1376.3	1459.3	1614.0	1778.7	1836.0	1850.3	1857.4	1854.6
60°	9155.5	6828.3	2010.7	1281.7	1383.4	1545.2	1721.4	1793.0	1811.6	1856.0	1860.3
62.5°	8884.8	6541.9	1672.7	1188.7	1290.3	1440.7	1644.1	1744.3	1781.5	1850.3	1857.4
64°	8552.6	6221.1	1485.1	1129.9	1230.2	1382.0	1605.4	1731.4	1780.1	1871.8	1877.5
65°	8309.1	5987.7	1367.7	1092.7	1191.5	1343.3	1583.9	1735.7	1793.0	1904.7	1913.3
67.5°	7412.6	5184.2	1131.4	1005.3	1099.9	1277.4	1588.2	1771.5	1790.1	1917.6	1916.2
70°	6133.7	4127.3	948.1	925.1	1011.1	1224.5	1571.0	1714.2	1715.7	1800.2	1780.1
72.5°	4592.8	3050.4	822.0	842.1	912.3	1098.4	1483.7	1636.9	1612.6	1624.0	1604.0
75°	3154.9	2017.8	707.5	753.3	809.1	971.0	1360.5	1486.5	1447.9	1433.5	1419.2
77.5°	1684.2	1115.6	588.6	665.9	703.2	839.2	1187.2	1308.9	1268.9	1213.0	1194.4
80°	681.7	525.6	474.0	551.4	572.8	676.0	988.2	1064.1	1034.0	936.6	905.1
82.5°	342.3	315.1	372.3	433.9	435.4	482.6	734.7	806.3	739.0	620.1	592.9
85°	179.0	184.7	256.3	305.0	269.2	260.6	441.1	488.3	448.3	389.5	350.9
87.5°	64.4	74.5	134.6	133.2	94.5	50.1	97.4	47.3	25.8	15.8	20.0
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)