

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: P647550

Luminaire Tested: **GALN-SA7D-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34899.9 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

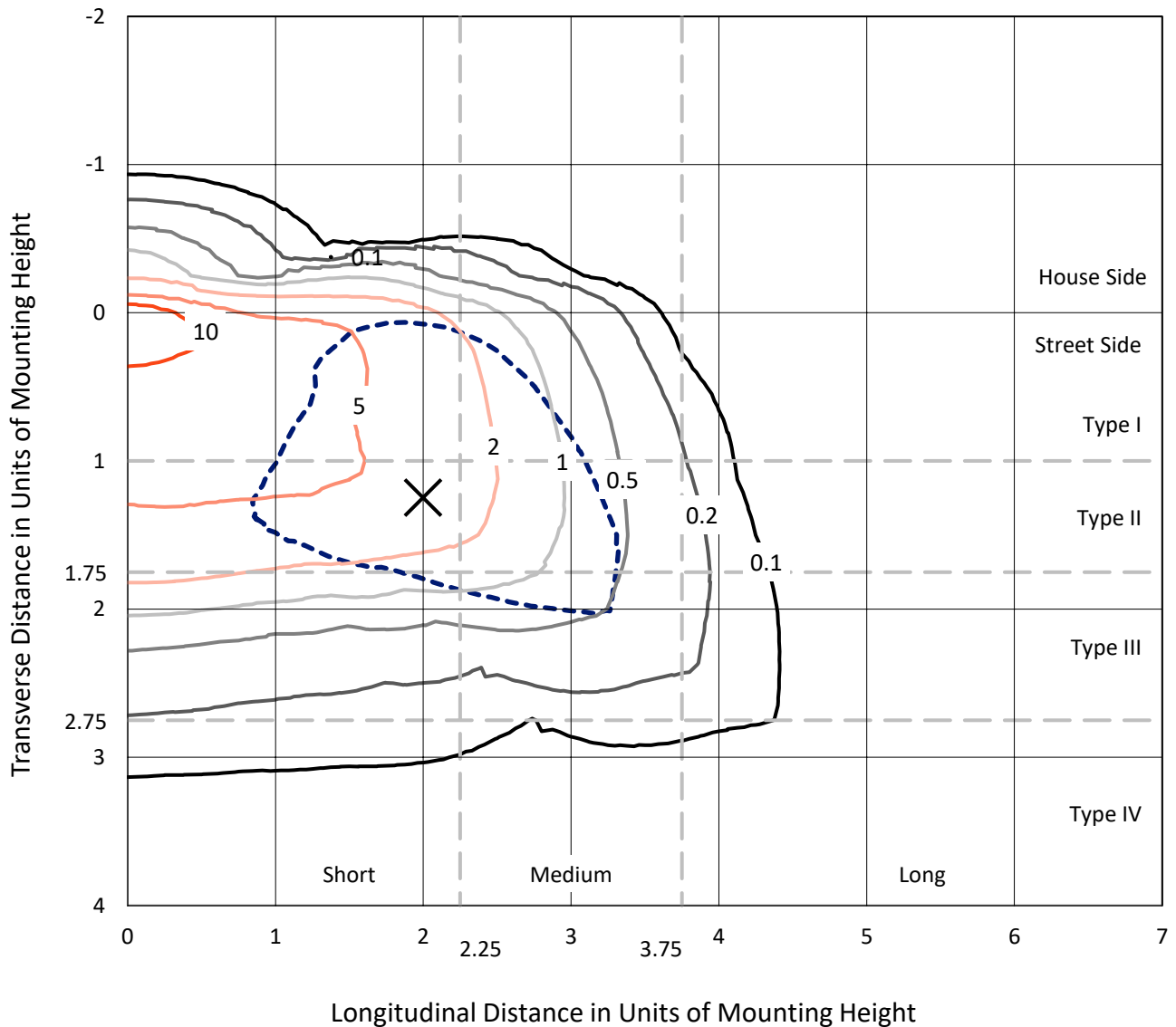
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

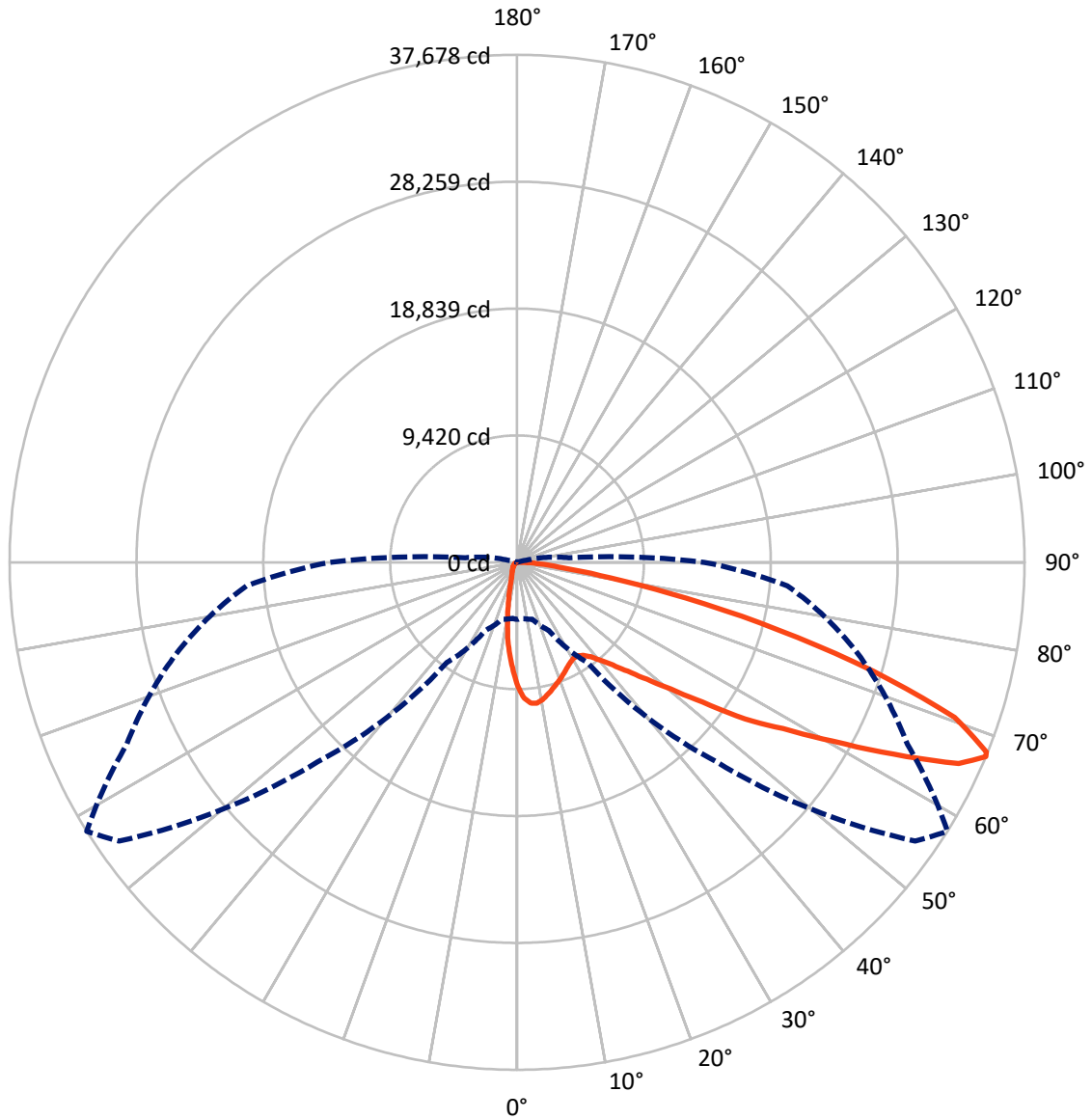
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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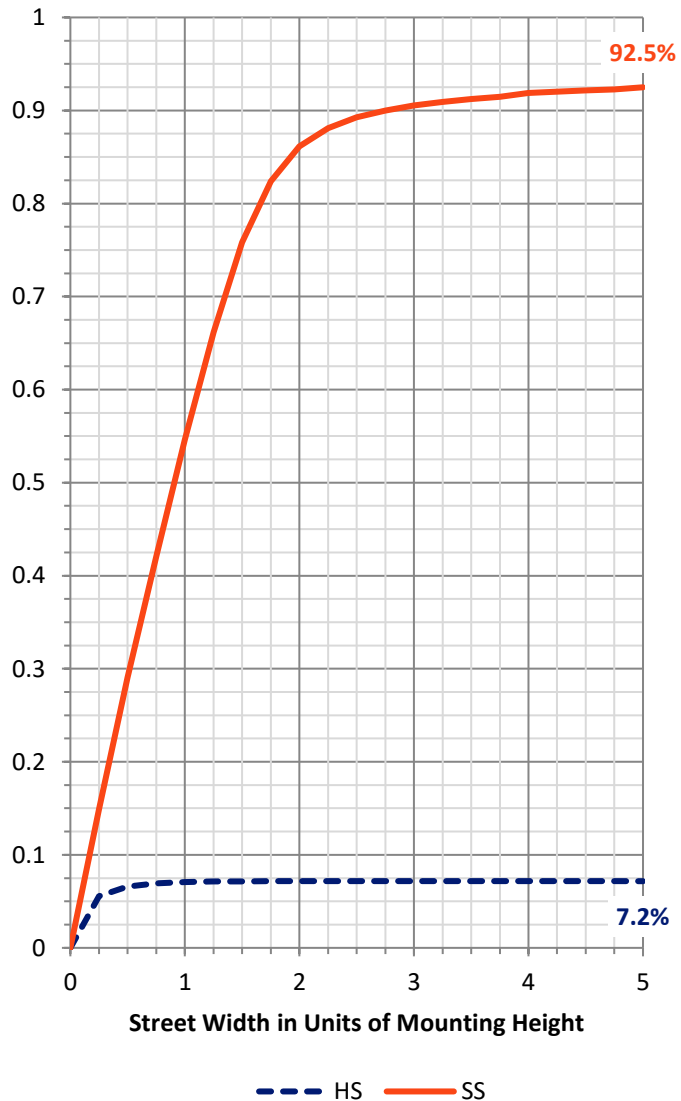
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2518.6	0.0	2518.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32381.3	0.0	32381.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34899.9	0.0	34899.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	750.7	2.2
10°-20°	1621.4	4.6
20°-30°	2197.2	6.3
30°-40°	3047.3	8.7
40°-50°	4860.1	13.9
50°-60°	8401.1	24.1
60°-70°	9596.7	27.5
70°-80°	4001.0	11.5
80°-90°	424.2	1.2
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°	34899.9	100.0
0°-180°	34899.9	100.0

**Coefficient of Utilization**



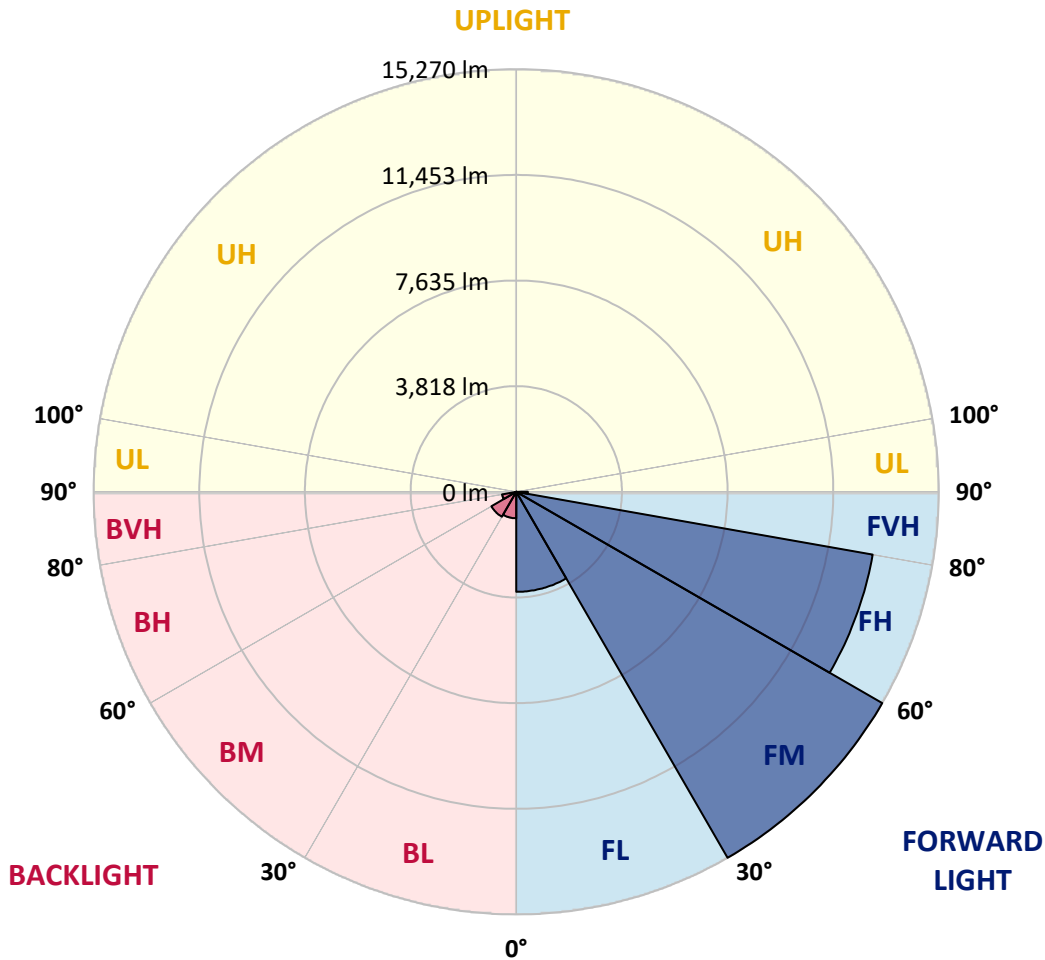
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3613.0	10.4			
FM (30°-60°)	15270.1	43.8			
FH (60°-80°)	13077.0	37.5			G5
FVH (80°-90°)	421.1	1.2			G3/500
BL (0°-30°)	956.4	2.7	B2/1000		
BM (30°-60°)	1038.5	3.0	B2/2500		
BH (60°-80°)	520.7	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6
2.5°	10737.2	10753.6	10692.9	10643.9	10518.0	10382.7	10203.1	10107.5	9944.3	9662.1	9349.6
5°	10989.1	11010.1	11000.8	10989.1	10940.1	10809.5	10581.0	10497.0	10256.8	9797.4	9233.0
7.5°	10429.4	10506.3	10515.7	10606.6	10692.9	10704.5	10618.3	10555.3	10333.7	9795.0	9025.4
10°	9687.7	9739.0	9813.7	9918.7	10126.2	10298.8	10382.7	10373.4	10245.2	9722.7	8782.9
12.5°	8939.1	8967.2	9081.4	9260.9	9515.2	9809.0	10032.9	10077.2	10079.6	9636.5	8580.0
15°	8295.5	8283.8	8372.4	8580.0	8936.8	9305.3	9706.4	9776.4	9888.4	9552.5	8391.1
17.5°	7745.0	7805.7	7819.7	8048.2	8377.1	8855.2	9365.9	9489.5	9713.4	9480.2	8234.8
20°	7404.6	7437.2	7467.5	7595.8	7892.0	8395.7	9046.4	9216.7	9550.2	9414.9	8059.9
22.5°	7304.3	7325.3	7299.6	7339.3	7549.1	7996.9	8698.9	8925.1	9393.9	9354.3	7917.6
25°	7381.3	7402.2	7341.6	7295.0	7367.2	7672.8	8363.1	8638.3	9268.0	9342.6	7810.3
27.5°	7567.9	7607.5	7523.5	7439.5	7397.5	7497.9	8099.6	8419.1	9181.7	9398.6	7761.4
30°	7859.4	7882.7	7819.7	7717.1	7621.5	7521.2	7961.9	8267.5	9158.4	9529.2	7756.7
32.5°	8176.5	8225.5	8190.5	8122.8	7999.3	7761.4	8001.6	8272.2	9214.3	9718.0	7815.0
35°	8568.3	8624.3	8656.9	8642.9	8484.4	8188.1	8253.4	8482.0	9363.6	10065.5	7973.6
37.5°	8953.1	9002.1	9186.3	9249.3	9109.3	8829.5	8743.2	8894.8	9692.4	10520.3	8260.5
40°	9393.9	9459.2	9718.0	9958.3	9890.6	9596.8	9438.2	9564.1	10196.1	11206.0	8803.9
42.5°	9816.0	9932.6	10326.8	10751.2	10814.2	10485.3	10380.4	10422.4	10942.4	12192.5	9561.8
45°	10415.4	10525.0	11033.4	11609.5	11905.6	11649.1	11541.8	11534.8	11966.3	13580.1	10790.8
47.5°	11280.6	11378.6	11977.9	12546.9	13074.1	13109.0	12906.1	12976.1	13253.6	15203.3	12297.4
50°	12341.7	12572.6	12966.7	13559.1	14263.4	14832.4	14895.4	14802.1	15040.0	17083.0	14107.2
52.5°	13883.3	13971.9	14333.4	14820.8	15646.4	16611.9	17360.5	17232.3	17157.6	18874.1	15935.5
55°	15033.1	15152.0	15714.0	16383.3	17593.7	18867.1	20490.2	20534.6	19592.4	20595.2	17724.3
57.5°	14685.6	14867.4	15718.7	17064.3	19725.3	22052.8	23260.9	23291.2	21845.2	22267.3	19744.0
60°	12901.4	12987.8	14207.5	16003.2	19907.2	25504.4	27190.5	26945.7	24137.8	24137.8	21528.0
62.5°	9149.0	9284.3	10273.1	12915.4	17978.5	26703.1	31896.8	31390.7	27295.5	25926.5	22591.5
65°	5846.7	5716.1	6371.4	8153.2	13393.5	24933.0	35994.4	36024.7	30266.6	26642.4	22010.8
67°	4235.2	4183.9	4372.7	5573.9	9081.4	20959.0	36080.7	37678.2	31973.8	26190.0	20154.4
67.5°	3873.7	3913.4	4050.9	5028.1	8251.2	19072.3	35688.9	37580.2	32358.6	25917.1	19482.8
70°	2936.2	2868.5	3017.8	3556.5	4946.5	12031.6	30700.4	34466.8	31880.5	23209.5	15567.1
72.5°	2159.6	2152.5	2360.1	2908.2	3808.4	6408.8	23046.3	27636.0	26045.5	17673.0	9802.0
75°	1457.6	1522.9	1854.1	2430.1	3451.5	4155.9	15711.7	20049.5	18081.2	10035.2	4006.6
77.5°	830.2	834.9	1194.1	1952.0	3099.4	3344.3	9309.9	12773.2	9571.2	3337.3	1189.4
80°	359.2	394.2	592.3	1417.9	2570.0	2961.9	5338.3	7019.8	3871.4	706.7	384.8
82.5°	133.0	156.3	261.2	872.3	1875.1	2439.4	3225.3	3351.3	1313.0	249.5	240.2
85°	0.0	4.7	95.6	408.1	977.2	1089.1	2154.9	1987.0	580.7	118.9	156.3
87.5°	0.0	0.0	0.0	42.0	128.3	405.8	669.3	746.3	139.9	42.0	37.3
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°	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6
2.5°	9181.7	9030.1	8650.0	8269.8	7987.6	7752.1	7397.5	7204.0	7101.4	6949.8	6959.1
5°	8950.8	8642.9	7973.6	7281.0	6721.3	6175.5	5522.5	5259.0	5037.4	4911.5	4827.6
7.5°	8608.0	8153.2	7162.0	6238.5	5378.0	4424.1	3708.1	3230.0	2908.2	2789.3	2675.0
10°	8232.5	7628.5	6338.8	5058.4	3864.3	2880.2	2273.8	1835.4	1679.1	1534.5	1548.5
12.5°	7885.0	7150.4	5583.2	3992.7	2707.6	1830.7	1427.3	1247.7	1196.4	1180.1	1180.1
15°	7600.5	6693.2	4771.6	3001.5	1856.4	1315.4	1142.8	1093.8	1075.1	1070.4	1070.4
17.5°	7297.3	6259.5	4039.3	2217.8	1350.3	1100.7	1042.5	1009.8	1002.8	998.2	998.2
20°	7026.8	5823.4	3344.3	1651.2	1091.4	991.2	953.9	932.9	925.9	921.2	923.5
22.5°	6770.2	5436.2	2691.3	1247.7	960.8	902.6	865.2	844.2	830.2	818.5	820.9
25°	6541.7	5063.1	2164.2	1021.5	865.2	813.9	776.6	746.3	716.0	702.0	699.6
27.5°	6380.7	4736.6	1686.1	874.5	778.9	722.9	676.4	639.0	599.4	578.4	573.7
30°	6247.8	4405.4	1334.0	772.0	692.6	639.0	580.7	527.0	485.1	464.1	454.8
32.5°	6161.5	4090.6	1051.8	688.0	620.4	555.1	489.8	436.1	389.5	368.5	363.8
35°	6147.6	3827.1	860.6	618.0	555.1	485.1	417.4	359.2	319.5	298.5	293.9
37.5°	6247.8	3624.2	720.7	562.0	501.4	424.5	349.8	296.2	261.2	244.8	242.6
40°	6516.0	3495.9	625.0	515.4	452.4	368.5	298.5	251.9	216.9	200.5	200.5
42.5°	7026.8	3500.6	562.0	471.1	403.5	314.8	254.2	209.9	179.5	165.6	160.9
45°	7824.4	3659.1	508.4	426.8	356.8	272.9	216.9	172.6	142.3	130.6	130.6
47.5°	8892.5	3974.0	461.7	382.5	314.8	233.2	184.2	139.9	114.2	102.7	102.7
50°	10289.5	4480.1	422.1	345.1	279.8	200.5	149.2	114.2	88.6	79.3	77.0
52.5°	11749.4	5105.1	375.4	312.5	240.2	170.2	121.3	88.6	67.7	60.6	58.3
55°	13360.9	5716.1	331.1	279.8	195.9	142.3	95.6	70.0	48.9	42.0	42.0
57.5°	14986.4	6315.4	277.5	233.2	153.9	104.9	74.6	51.3	32.7	25.7	25.7
60°	16362.4	6509.0	235.5	188.9	116.6	74.6	53.6	32.7	18.6	11.7	11.7
62.5°	16551.3	5856.1	198.3	144.6	83.9	51.3	28.0	18.6	7.0	4.7	4.7
65°	15525.1	4757.6	165.6	109.6	56.0	25.7	11.7	7.0	2.3	0.0	0.0
67°	13911.2	3857.4	135.3	81.6	39.6	16.3	7.0	2.3	0.0	0.0	0.0
67.5°	13498.5	3677.8	130.6	77.0	35.0	14.0	4.7	2.3	0.0	0.0	0.0
70°	10592.7	2754.3	93.3	46.7	21.0	9.3	0.0	0.0	0.0	0.0	0.0
72.5°	6583.6	1557.9	67.7	28.0	14.0	4.7	0.0	0.0	0.0	0.0	0.0
75°	2488.4	545.8	46.7	18.6	9.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	774.3	207.6	28.0	14.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	261.2	79.3	18.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	160.9	32.7	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	100.3	14.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	4.7	2.3	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)