

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: P647491

Luminaire Tested: **GALN-SA6D-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29396.9 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

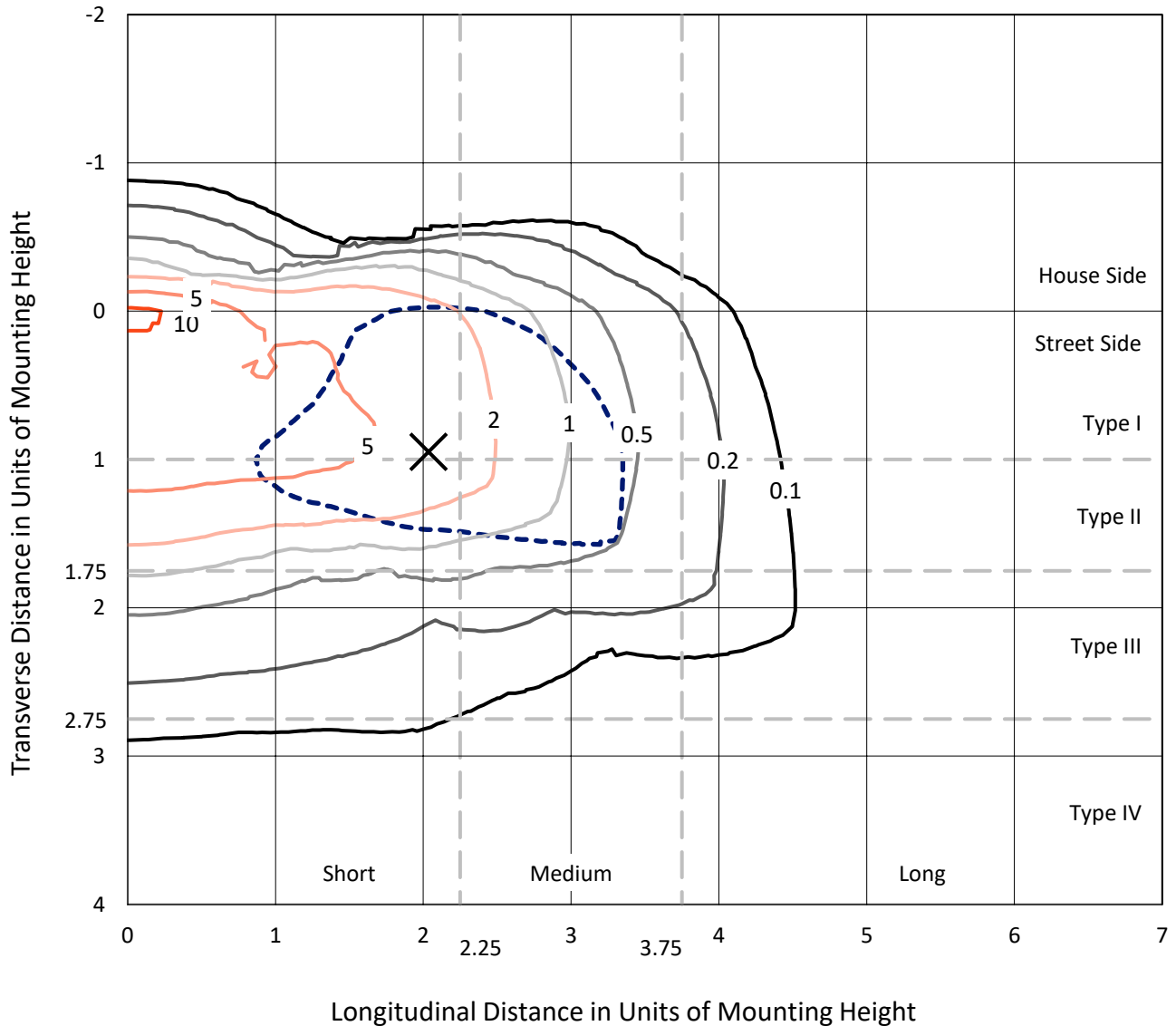
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

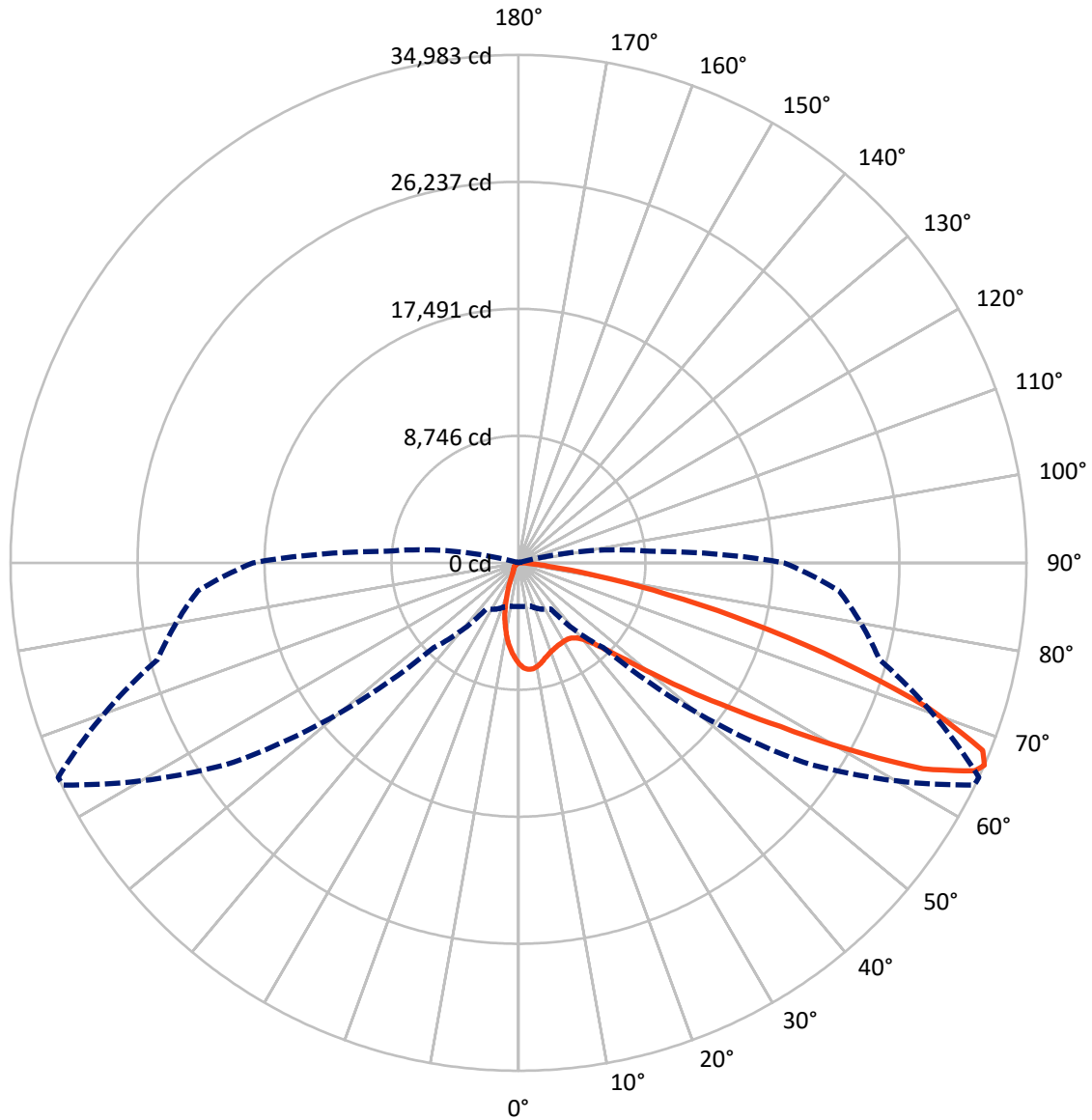
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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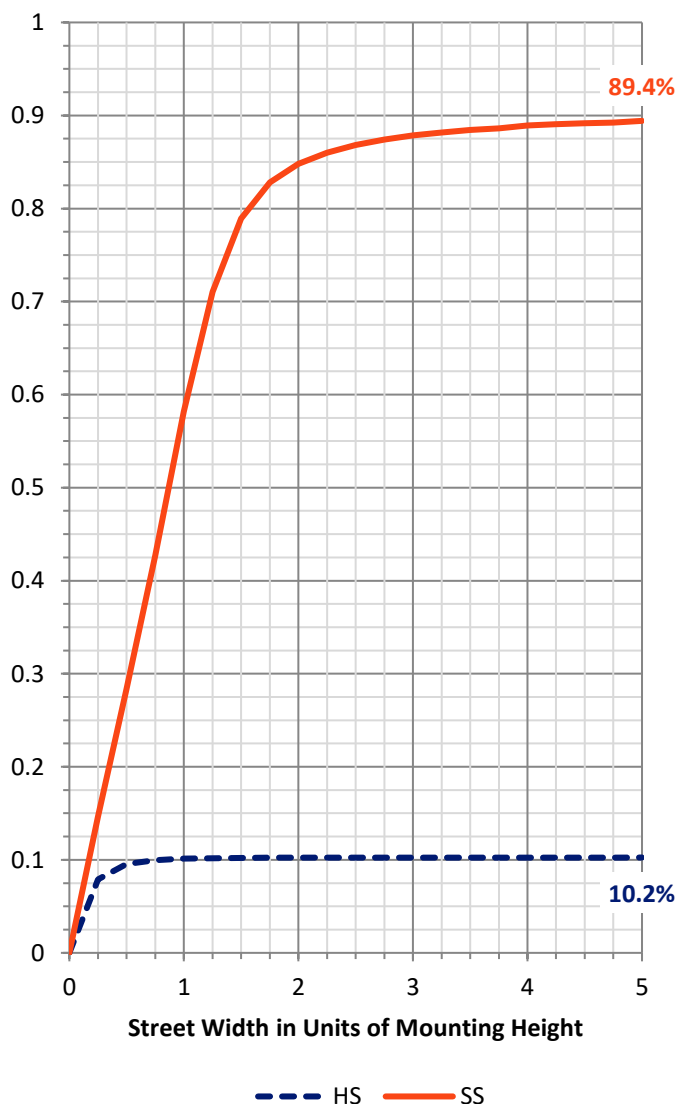
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3040.1	0.0	3040.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	26356.9	0.0	26356.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	29396.9	0.0	29396.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	570.1	1.9
10°-20°	1242.2	4.2
20°-30°	1779.5	6.1
30°-40°	2599.1	8.8
40°-50°	4358.2	14.8
50°-60°	7273.2	24.7
60°-70°	7720.3	26.3
70°-80°	3496.5	11.9
80°-90°	357.8	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°	29396.9	100.0
0°-180°	29396.9	100.0

**Coefficient of Utilization**



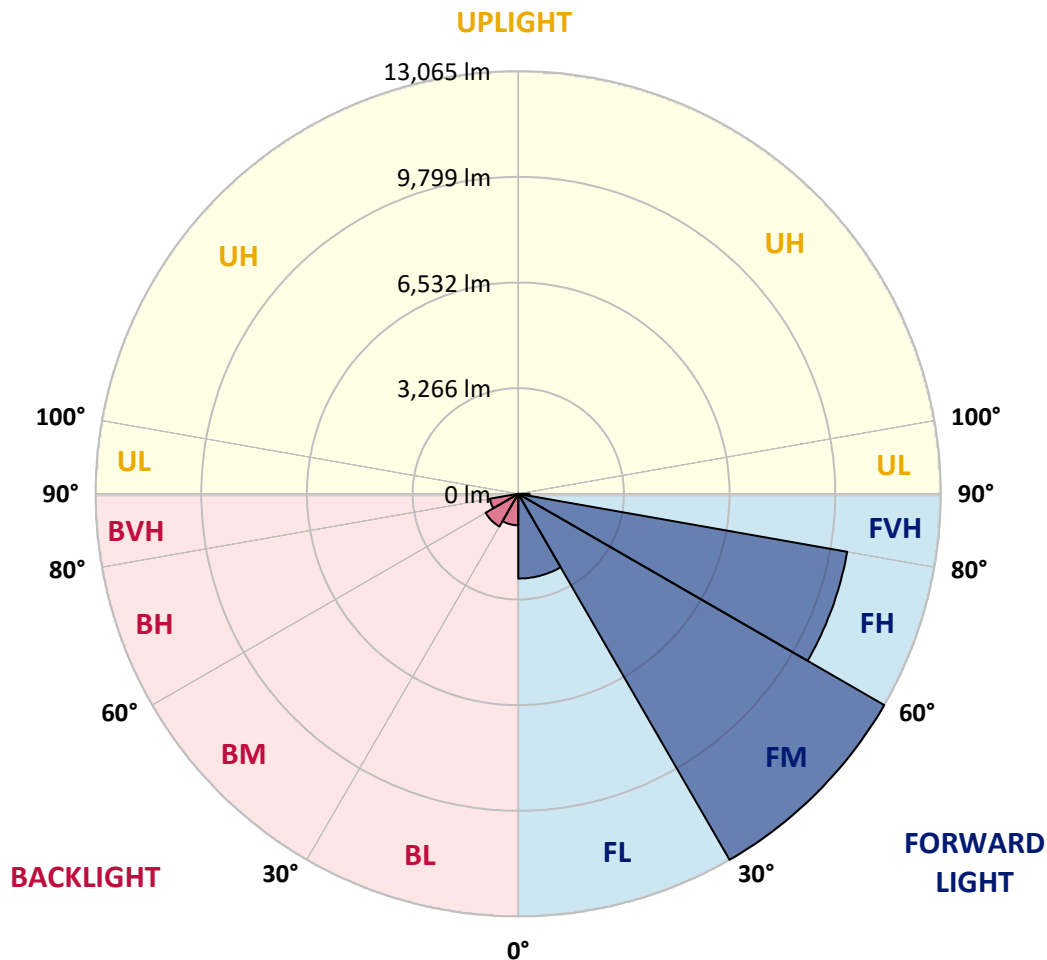
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.4	8.9			
FM (30°-60°)	13064.7	44.4			
FH (60°-80°)	10326.5	35.1			G4/12000
FVH (80°-90°)	346.4	1.2			G3/500
BL (0°-30°)	972.5	3.3	B2/1000		
BM (30°-60°)	1165.9	4.0	B2/2500		
BH (60°-80°)	890.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1
2.5°	7346.3	7354.3	7364.2	7378.1	7388.1	7358.2	7316.6	7268.9	7259.0	7157.7	7034.6
5°	6953.2	6965.2	7052.5	7100.2	7207.4	7304.7	7366.2	7374.1	7370.2	7274.9	7078.3
7.5°	6393.4	6427.1	6512.4	6595.8	6796.4	6981.0	7199.5	7352.3	7362.2	7336.4	7092.2
10°	5938.7	5960.5	6004.2	6168.9	6335.7	6617.7	6923.4	7211.4	7235.2	7338.4	7080.3
12.5°	5583.3	5615.0	5668.6	5795.7	5996.2	6262.3	6609.8	6996.9	7046.5	7300.7	7046.5
15°	5335.0	5350.9	5404.5	5529.6	5724.2	5970.4	6321.9	6772.6	6816.2	7251.0	7040.6
17.5°	5217.9	5235.8	5273.5	5372.8	5533.6	5761.9	6105.4	6591.8	6647.4	7219.3	7062.4
20°	5249.7	5265.5	5267.6	5319.2	5428.4	5620.9	5946.6	6423.1	6494.6	7199.5	7098.2
22.5°	5430.3	5432.4	5408.5	5384.7	5422.4	5561.4	5849.3	6315.9	6389.4	7195.5	7139.9
25°	5700.4	5706.3	5666.6	5583.3	5507.8	5579.3	5827.5	6246.4	6311.9	7185.5	7165.7
27.5°	6073.7	6071.7	6059.8	5920.7	5706.3	5658.7	5845.3	6208.6	6264.2	7157.7	7175.6
30°	6595.8	6579.9	6554.2	6397.3	6069.7	5851.3	5920.7	6184.8	6236.4	7118.0	7149.8
32.5°	7110.1	7169.6	7165.7	7016.8	6607.7	6194.8	6077.6	6216.6	6254.4	7092.2	7112.1
35°	7709.7	7707.7	7860.6	7805.0	7326.5	6633.6	6345.7	6321.9	6351.6	7110.1	7094.2
37.5°	8265.7	8317.3	8555.5	8613.1	8176.3	7253.0	6724.9	6548.2	6558.1	7231.2	7137.9
40°	8958.6	9057.9	9413.3	9605.8	9220.7	8172.3	7284.8	6963.1	6965.2	7529.0	7302.6
42.5°	9852.1	10008.9	10340.5	10662.2	10455.6	9260.4	8124.6	7620.4	7616.4	8053.2	7679.9
45°	10938.1	11047.3	11424.6	11934.9	11803.8	10779.3	9347.8	8638.9	8587.3	8912.9	8349.1
47.5°	11875.3	12024.2	12407.4	12989.2	13584.8	12633.8	10809.1	10038.7	10004.9	10280.9	9496.7
50°	12284.3	12415.3	12818.4	13634.5	15077.9	15068.0	12985.2	12081.8	12024.2	12173.1	11271.7
52.5°	11835.6	11958.7	12365.7	13382.3	15780.8	18034.3	16138.2	14645.1	14575.5	14385.0	13392.2
55°	10298.8	10400.0	11001.7	12169.2	15510.8	20011.9	20482.4	17811.9	17541.9	16801.3	15792.7
57.5°	8200.1	8148.5	8521.8	9877.9	13926.3	20675.0	24941.9	21757.1	21274.7	18890.1	17823.9
60°	5682.5	5841.3	5992.2	6885.7	10471.5	19525.4	27715.6	26716.9	26081.6	20945.1	19769.7
62.5°	4177.5	4282.7	4382.0	4795.0	6583.9	15590.2	28206.1	31811.7	31247.9	23127.2	21626.1
65°	3303.9	3311.9	3351.6	3758.6	4338.3	10138.0	25849.3	34684.8	34539.8	25227.8	22378.6
66°	3010.0	3012.0	3073.6	3510.3	3893.5	8255.7	23961.1	34903.2	34982.6	25732.1	22158.2
67.5°	2630.8	2622.8	2712.2	3154.9	3546.1	5952.5	20581.7	34017.6	34488.2	26119.3	21366.0
70°	2039.1	2029.2	2138.4	2646.7	3266.1	3971.0	13680.1	29208.7	29967.2	25327.1	18904.0
72.5°	1358.1	1366.0	1552.7	2088.7	3117.2	3496.5	8229.9	22219.7	23291.9	20915.3	14871.4
75°	792.2	806.1	1018.5	1552.7	2706.2	3333.6	4658.0	15844.3	16529.3	14442.5	9264.4
77.5°	415.0	420.9	569.9	1024.6	2074.9	3095.4	3103.3	10122.1	10443.7	7018.7	3667.3
80°	220.4	214.5	305.8	617.5	1427.6	2718.2	2517.6	5358.9	5571.4	2084.8	927.2
82.5°	83.4	91.3	162.8	405.0	843.8	1951.8	2168.2	2368.7	2295.2	458.7	389.2
85°	15.9	19.9	69.5	240.2	424.9	816.0	1598.3	1161.5	1076.2	172.7	224.3
87.5°	2.0	4.0	19.9	57.6	61.5	276.0	472.5	321.7	278.0	63.5	93.3
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°	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1	6971.1
2.5°	6975.0	6921.5	6742.8	6566.1	6385.4	6222.6	6111.4	5930.7	5885.0	5819.5	5781.8
5°	6961.2	6836.1	6492.6	6117.3	5767.9	5390.6	5102.7	4824.8	4675.8	4600.4	4572.6
7.5°	6921.5	6722.9	6186.8	5599.2	5039.2	4475.3	3984.9	3611.7	3371.4	3206.6	3095.4
10°	6842.0	6568.0	5831.4	5023.3	4177.5	3432.9	2811.4	2338.9	1973.6	1858.5	1862.4
12.5°	6760.7	6395.3	5434.3	4384.0	3335.7	2396.5	1737.3	1364.1	1189.3	1131.7	1119.8
15°	6685.2	6230.5	5045.2	3764.5	2483.8	1552.7	1119.8	988.8	941.2	931.2	929.2
17.5°	6645.5	6077.6	4630.2	3055.7	1733.3	1054.3	897.5	861.7	847.8	837.9	833.9
20°	6611.7	5944.6	4233.1	2392.5	1185.4	863.7	804.1	770.4	746.5	736.6	730.7
22.5°	6587.9	5807.6	3822.1	1852.5	907.3	766.4	712.8	669.2	635.3	623.4	615.5
25°	6552.1	5656.7	3407.1	1354.1	764.4	681.1	619.5	567.8	524.1	502.3	498.4
27.5°	6500.5	5485.9	2952.5	1002.7	683.0	605.6	530.1	466.6	422.9	399.1	401.1
30°	6417.2	5307.3	2497.8	796.2	617.5	528.1	446.7	385.2	343.5	325.6	323.6
32.5°	6317.9	5090.8	2080.8	683.0	557.9	458.7	373.3	319.7	287.9	274.0	272.0
35°	6224.5	4872.5	1655.9	613.6	496.3	395.1	313.7	268.0	244.2	232.3	234.3
37.5°	6172.9	4677.9	1290.5	557.9	446.7	339.5	270.1	230.3	208.5	198.6	196.5
40°	6206.7	4519.0	1026.5	508.3	391.1	291.9	232.3	198.6	176.7	162.8	162.8
42.5°	6365.6	4449.5	827.9	460.6	339.5	252.1	202.5	170.8	146.9	133.0	135.0
45°	6850.0	4523.0	693.0	416.9	291.9	218.4	174.7	140.9	119.1	109.2	107.2
47.5°	7654.1	4798.9	599.6	371.3	250.2	186.7	146.9	117.1	95.3	87.4	85.3
50°	9059.9	5368.8	530.1	325.6	212.4	158.9	121.1	93.3	75.5	67.5	67.5
52.5°	10993.7	6611.7	480.5	274.0	178.7	135.0	99.3	75.5	59.6	53.6	51.6
55°	13014.9	7922.2	454.7	230.3	148.9	111.2	79.4	59.6	45.6	39.7	37.7
57.5°	14958.7	8950.6	424.9	186.7	119.1	85.3	61.5	45.6	31.8	27.8	25.8
60°	16823.1	9782.6	361.4	148.9	93.3	61.5	45.6	31.8	21.8	17.9	17.9
62.5°	18491.0	10267.0	283.9	119.1	71.5	43.7	29.8	23.8	15.9	11.9	11.9
65°	18685.6	9637.6	214.5	91.3	51.6	27.8	17.9	17.9	11.9	7.9	7.9
66°	18294.4	9103.5	188.6	83.4	45.6	23.8	15.9	13.9	9.9	6.0	6.0
67.5°	17420.8	8192.2	162.8	71.5	37.7	17.9	11.9	11.9	7.9	4.0	4.0
70°	15052.1	6691.1	129.0	53.6	27.8	13.9	7.9	7.9	6.0	4.0	4.0
72.5°	11472.2	4995.5	105.2	39.7	19.9	9.9	6.0	6.0	6.0	4.0	4.0
75°	6919.4	2690.4	81.4	29.8	17.9	7.9	4.0	6.0	7.9	6.0	4.0
77.5°	2549.4	915.3	63.5	23.8	13.9	7.9	4.0	4.0	7.9	6.0	6.0
80°	625.5	238.3	45.6	19.9	13.9	7.9	4.0	4.0	7.9	7.9	7.9
82.5°	289.9	101.2	31.8	17.9	13.9	7.9	4.0	4.0	6.0	7.9	7.9
85°	166.8	47.7	25.8	19.9	13.9	7.9	4.0	4.0	6.0	7.9	7.9
87.5°	67.5	23.8	23.8	19.9	15.9	9.9	4.0	4.0	4.0	6.0	6.0
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)