

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: P647580

Luminaire Tested: **GALN-SA7D-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647580  
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-SA7D-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA 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: 42096.4 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

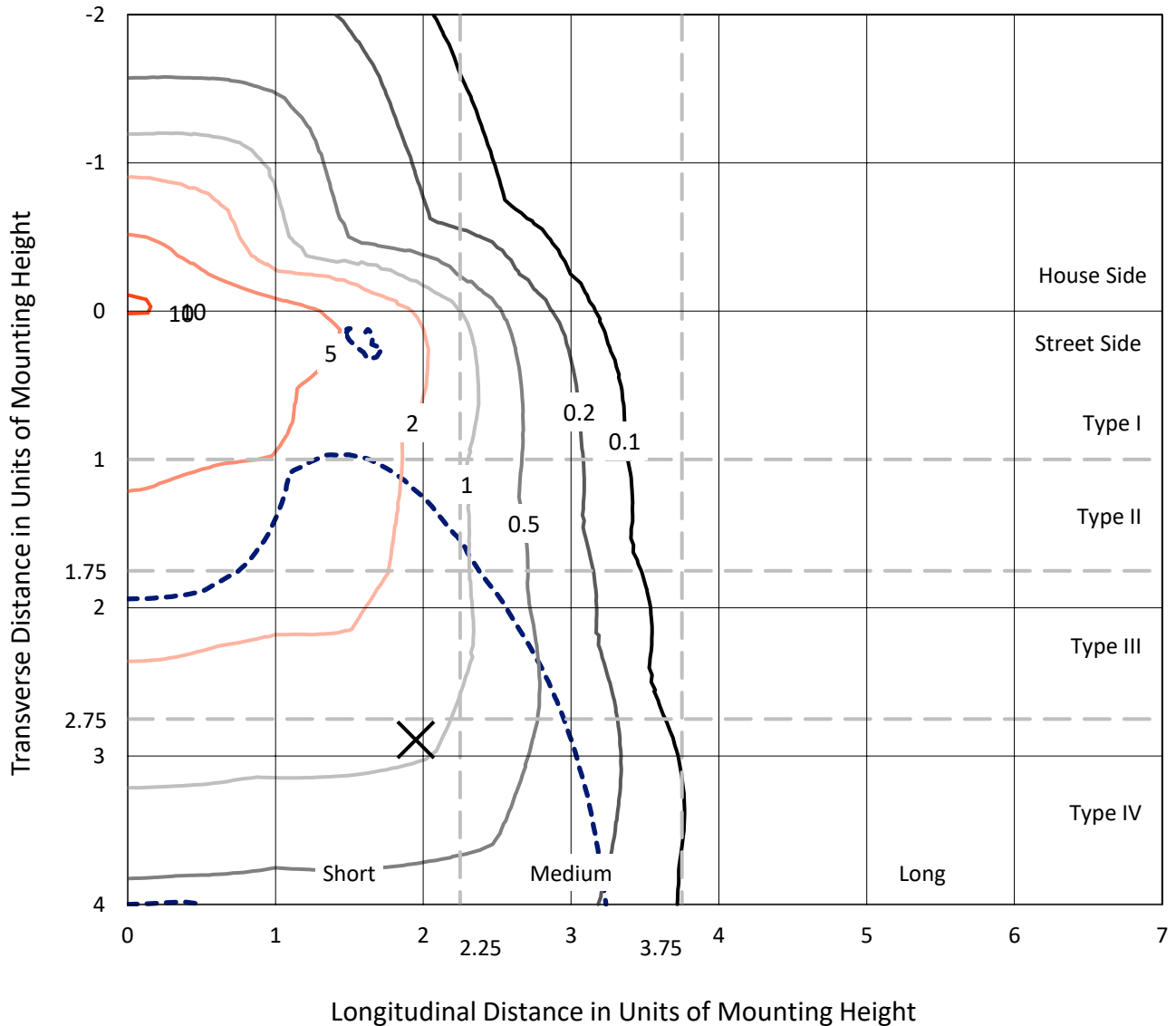
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

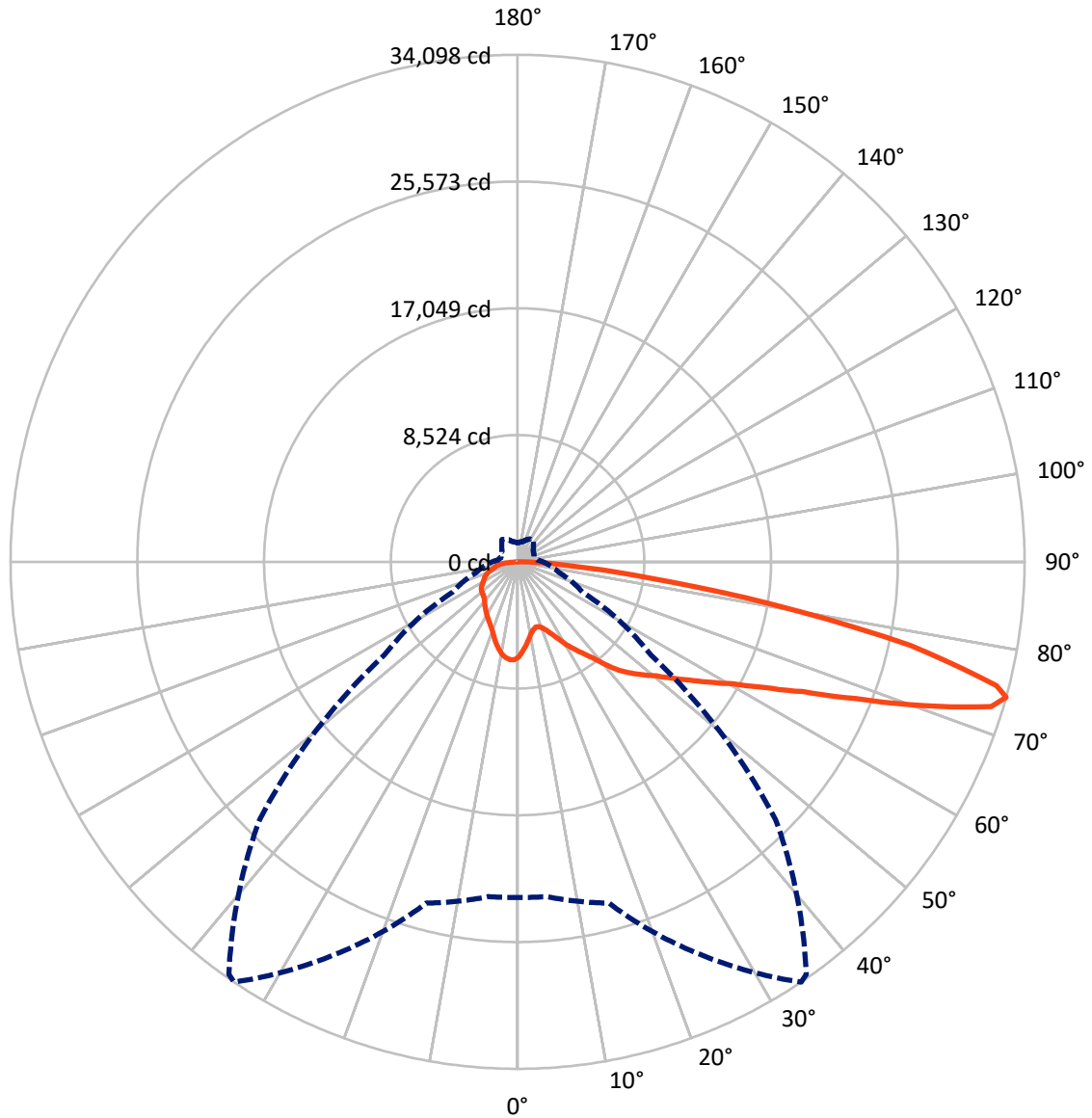
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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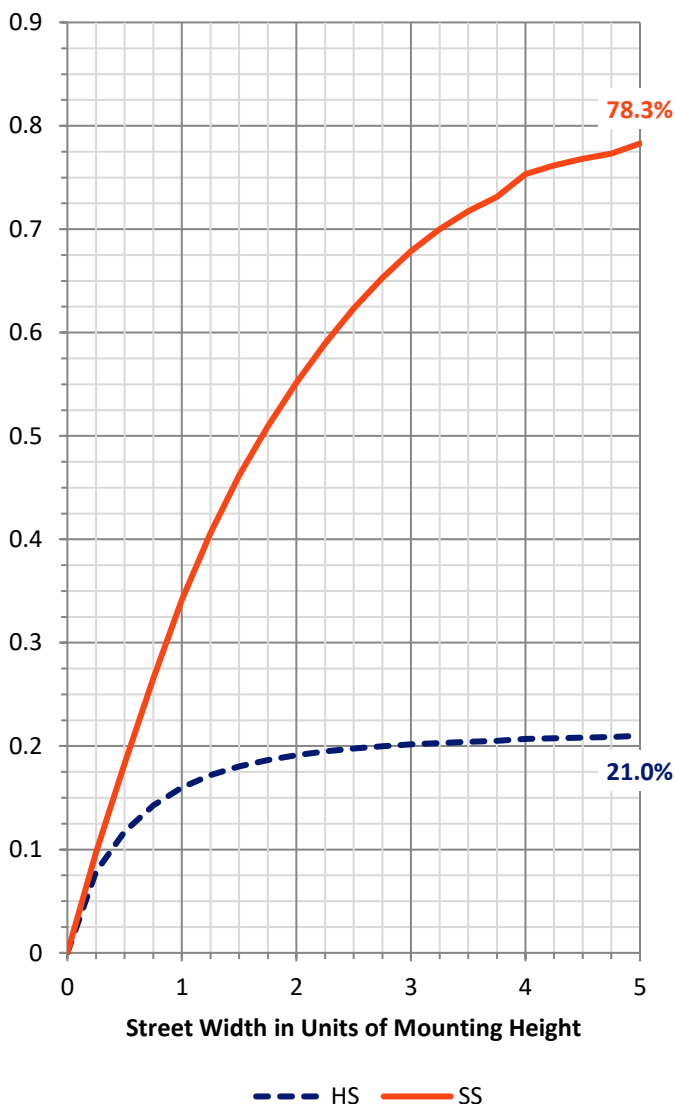
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8958.4	0.0	8958.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	33138.0	0.0	33138.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	42096.4	0.0	42096.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.5	1.4
10°-20°	1600.1	3.8
20°-30°	2638.2	6.3
30°-40°	3951.7	9.4
40°-50°	5744.8	13.6
50°-60°	8024.1	19.1
60°-70°	10045.7	23.9
70°-80°	8307.0	19.7
80°-90°	1200.3	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°	42096.4	100.0
0°-180°	42096.4	100.0

**Coefficient of Utilization**



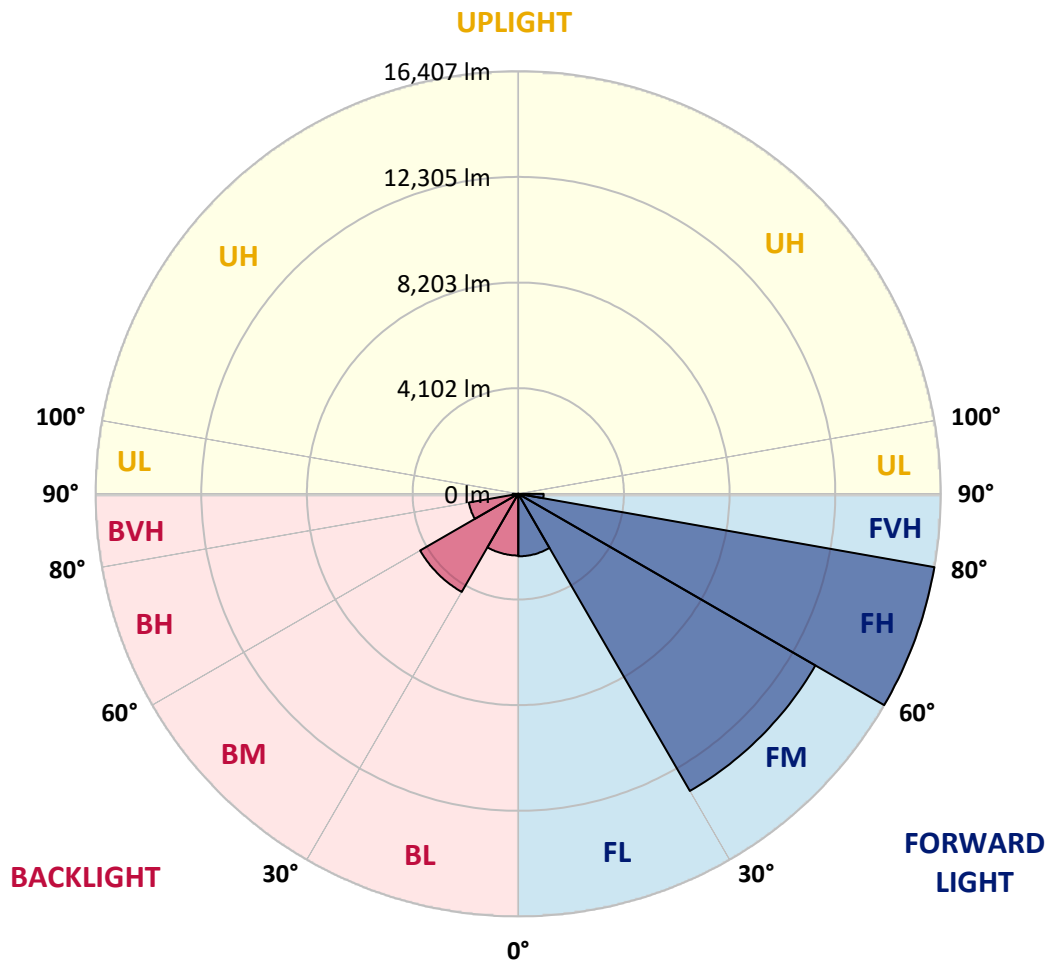
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.7	5.8			
FM (30°-60°)	13321.0	31.6			
FH (60°-80°)	16407.0	39.0			G5
FVH (80°-90°)	983.3	2.3			G5
BL (0°-30°)	2396.2	5.7	B3/2500		
BM (30°-60°)	4399.5	10.5	B3/5000		
BH (60°-80°)	1945.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	217.0	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°	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3
2.5°	5939.9	5970.2	5986.5	6044.8	6058.9	6077.5	6126.4	6191.7	6275.7	6350.4	6415.7
5°	5445.5	5492.1	5520.1	5571.4	5671.7	5681.0	5811.6	5960.9	6131.1	6289.7	6420.3
7.5°	4976.7	5028.0	5051.4	5144.6	5277.6	5298.6	5489.8	5725.3	6009.8	6250.1	6450.6
10°	4624.6	4650.2	4701.5	4771.5	4930.1	4944.1	5193.6	5508.4	5876.9	6231.4	6502.0
12.5°	4433.3	4447.4	4459.0	4533.6	4689.9	4710.8	4972.0	5328.9	5772.0	6245.4	6585.9
15°	4461.3	4466.0	4414.7	4428.6	4554.6	4584.9	4843.8	5209.9	5706.7	6280.4	6711.8
17.5°	4696.9	4680.5	4554.6	4489.3	4578.0	4591.9	4818.1	5163.3	5676.4	6345.7	6842.4
20°	5067.7	5044.3	4827.4	4682.9	4734.2	4745.8	4902.1	5198.3	5706.7	6452.9	7045.3
22.5°	5529.5	5520.1	5191.3	5016.4	5014.0	5014.0	5095.7	5324.2	5797.6	6599.9	7257.5
25°	6175.4	6126.4	5697.3	5471.1	5408.2	5403.5	5394.2	5531.7	5914.2	6756.1	7509.4
27.5°	6837.8	6753.8	6371.3	6023.9	5888.6	5872.3	5811.6	5825.6	6063.5	6933.4	7796.3
30°	7432.4	7378.8	7019.7	6634.8	6473.9	6436.7	6268.7	6191.7	6313.0	7252.9	8253.4
32.5°	7887.2	7854.5	7574.7	7224.9	6987.0	6980.0	6735.1	6672.2	6702.5	7640.0	8775.7
35°	8255.6	8267.3	8125.0	7821.9	7549.1	7509.4	7346.1	7266.9	7178.2	8199.7	9433.3
37.5°	8759.4	8785.0	8775.7	8514.5	8181.0	8190.3	8153.1	8022.5	7786.9	8824.7	10163.3
40°	9314.4	9333.1	9330.8	9230.5	9055.6	9064.9	9050.9	8901.7	8549.5	9619.9	10974.9
42.5°	10081.7	9993.1	9762.2	9862.5	9965.1	10009.4	10105.0	9962.7	9480.0	10468.9	11737.5
45°	10939.9	10772.0	10249.6	10296.3	10676.4	10760.4	11287.4	11091.5	10489.9	11443.6	12635.3
47.5°	11481.0	11315.4	10874.6	10865.3	11369.0	11450.7	12383.5	12311.2	11408.7	12495.4	13731.5
50°	11963.7	11940.4	11443.6	11562.6	12054.7	12176.0	13577.5	13509.9	12325.2	13736.1	14925.5
52.5°	12679.7	12490.8	12094.3	12339.2	12989.8	13148.4	14762.2	14564.0	13167.1	14832.2	16084.5
55°	13001.5	12957.2	12933.9	13146.1	14039.3	14153.6	15914.3	15459.6	13885.4	15760.4	16966.1
57.5°	13862.1	13780.4	14011.3	14155.9	15275.3	15450.2	17117.7	16394.7	14515.0	16497.3	17395.2
60°	14976.8	14932.5	15144.7	15405.9	16655.9	16921.8	18489.0	17192.3	15021.2	16868.2	17159.7
62.5°	16642.0	16637.3	16597.6	17157.3	18612.5	18857.5	20063.1	17968.9	15100.4	16590.6	15942.3
65°	19030.0	18946.0	18600.9	19211.9	21047.3	21334.2	21702.6	18402.7	14622.3	15165.7	13423.6
67.5°	21527.7	21523.0	21243.2	22036.1	24543.1	24839.3	23752.5	18307.1	13295.3	12285.6	9533.7
70°	23598.6	23498.3	23855.1	25968.0	29009.1	29351.9	25545.9	17180.7	10590.1	8113.4	5664.7
72.5°	24095.3	24100.0	24841.6	28999.7	33297.9	33351.5	26191.9	13925.0	7087.2	4475.3	2833.5
74°	22565.5	22605.1	23754.9	29151.3	34097.8	33855.2	24540.8	10944.6	4792.5	2922.2	2042.9
75°	20597.2	20347.7	22010.4	28141.6	33267.6	33006.3	22607.5	8782.8	3656.8	2334.4	1788.8
77.5°	11012.2	11266.4	13831.8	21000.6	27026.8	26726.0	15328.9	4211.8	1975.3	1625.5	1287.3
80°	3920.2	4323.7	6077.5	10988.9	17327.6	17420.9	7315.8	1931.0	1389.9	1198.7	909.5
82.5°	1599.8	1644.1	2609.7	4876.4	8799.0	8883.0	2987.5	1147.4	993.5	825.6	543.4
85°	625.0	643.6	1154.4	2192.2	3754.7	3999.6	1033.1	606.4	611.0	473.4	277.5
87.5°	209.9	237.9	473.4	729.9	1275.7	1250.0	300.8	179.5	219.2	205.2	86.3
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°	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3	6427.3
2.5°	6448.3	6492.6	6522.9	6555.6	6585.9	6595.2	6588.2	6609.2	6611.5	6613.8	6616.2
5°	6485.6	6546.2	6604.5	6637.2	6651.2	6639.5	6599.9	6578.8	6560.2	6546.2	6550.9
7.5°	6536.9	6623.2	6676.8	6690.8	6653.5	6599.9	6502.0	6425.0	6376.0	6343.3	6341.0
10°	6616.2	6700.1	6744.4	6704.8	6602.2	6471.6	6317.7	6173.1	6063.5	6030.8	6028.5
12.5°	6716.5	6812.1	6809.8	6693.2	6513.5	6280.4	6030.8	5862.9	5713.6	5639.0	5669.4
15°	6847.1	6919.4	6851.7	6641.9	6357.3	6037.8	5730.0	5501.4	5333.6	5254.2	5258.9
17.5°	6998.7	7061.6	6882.0	6550.9	6138.1	5727.6	5370.8	5153.9	5021.1	4962.7	4958.0
20°	7187.5	7206.2	6882.0	6392.3	5855.9	5366.2	5025.7	4874.1	4799.5	4769.2	4778.5
22.5°	7390.4	7353.2	6844.8	6168.4	5485.1	4988.4	4759.9	4692.2	4654.9	4650.2	4654.9
25°	7619.0	7514.1	6767.8	5865.2	5098.0	4661.9	4529.0	4540.6	4547.6	4547.6	4564.0
27.5°	7898.8	7689.0	6639.5	5482.8	4645.5	4358.7	4321.4	4403.0	4440.3	4447.4	4459.0
30°	8267.3	7880.2	6427.3	5004.7	4260.8	4085.9	4151.2	4260.8	4302.7	4328.4	4323.7
32.5°	8705.8	8090.1	6140.4	4526.6	3950.6	3894.6	3973.9	4085.9	4132.5	4146.5	4127.8
35°	9221.2	8328.0	5762.6	4078.9	3680.1	3712.8	3806.0	3841.0	3883.0	3883.0	3892.3
37.5°	9776.2	8519.2	5300.9	3668.4	3470.2	3589.1	3656.8	3624.1	3605.4	3582.1	3593.8
40°	10340.5	8661.5	4701.5	3262.6	3260.3	3460.9	3479.5	3386.2	3311.6	3288.3	3276.6
42.5°	10832.6	8750.1	4160.5	2947.8	3062.1	3335.0	3348.9	3199.7	3080.7	3010.8	2987.5
45°	11413.3	8852.7	3631.1	2686.6	2877.8	3234.7	3269.7	3069.0	2894.1	2747.2	2709.9
47.5°	12208.6	9085.9	3213.7	2483.7	2744.9	3171.7	3220.6	2961.8	2730.9	2539.7	2509.4
50°	13106.5	9405.4	2889.5	2346.1	2642.3	3115.7	3176.3	2852.2	2579.3	2367.1	2343.8
52.5°	13929.6	9578.0	2609.7	2222.5	2542.0	3013.1	3118.1	2772.9	2430.0	2194.5	2173.5
55°	14379.8	9298.1	2334.4	2101.3	2404.4	2880.2	3036.4	2663.3	2285.5	2103.5	2073.2
57.5°	14440.4	8719.7	2084.9	1970.7	2259.8	2716.9	2884.8	2530.3	2192.2	2040.6	2015.0
60°	13971.7	7856.9	1891.3	1863.4	2112.9	2532.7	2714.6	2413.8	2096.6	1970.7	1945.0
62.5°	12805.6	6919.4	1756.1	1765.4	1963.6	2339.1	2588.7	2301.8	2005.6	1893.7	1870.4
65°	10800.0	5711.4	1625.5	1665.1	1830.7	2187.5	2474.4	2208.5	1914.7	1835.4	1814.4
67.5°	7502.4	4123.2	1518.2	1560.2	1704.7	2033.6	2341.4	2108.2	1812.0	1770.0	1737.4
70°	4153.5	2537.3	1392.3	1441.3	1574.1	1861.0	2192.2	1956.6	1662.8	1644.1	1597.5
72.5°	2182.8	1616.2	1250.0	1303.6	1397.0	1639.4	1963.6	1791.0	1515.9	1436.6	1376.0
74°	1704.7	1324.6	1154.4	1210.4	1273.3	1508.8	1828.4	1672.1	1410.9	1317.6	1271.0
75°	1485.6	1180.1	1072.8	1145.1	1201.0	1420.3	1723.5	1588.2	1352.6	1264.0	1222.0
77.5°	1049.5	883.9	876.9	963.2	993.5	1245.4	1553.2	1445.9	1205.7	1112.4	1072.8
80°	737.0	662.3	695.0	748.6	790.6	1100.7	1441.3	1250.0	988.9	879.2	865.2
82.5°	480.4	433.8	496.7	545.8	559.7	811.6	1163.7	949.2	720.6	585.4	543.4
85°	221.6	216.9	284.5	277.5	275.2	396.4	690.3	555.1	415.1	310.1	291.5
87.5°	56.0	53.6	70.0	58.3	70.0	60.6	63.0	16.3	2.3	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)