

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: P651485

Luminaire Tested: **GALN-SA6D-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651485  
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-SA6D-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 38494.2 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

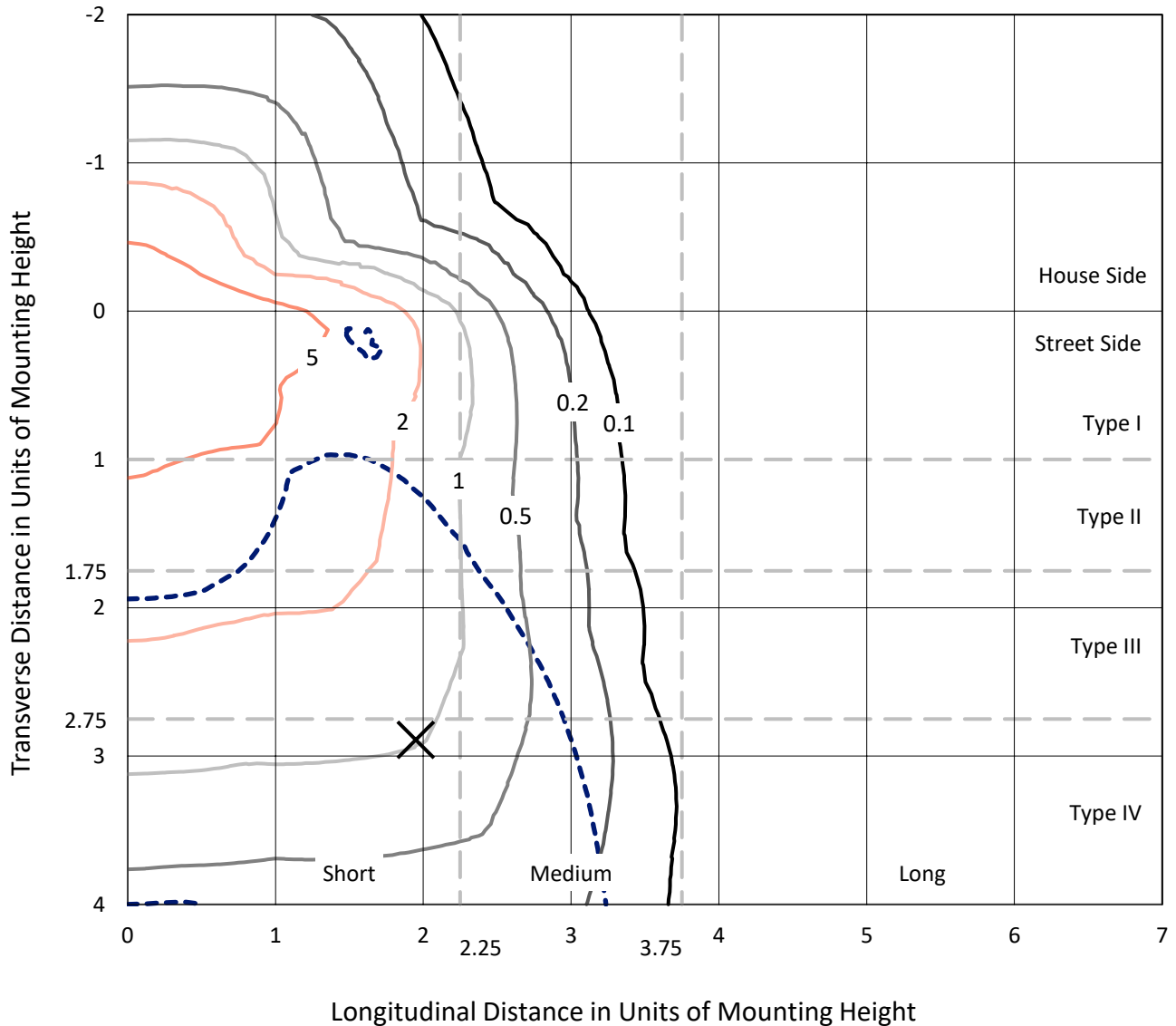
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

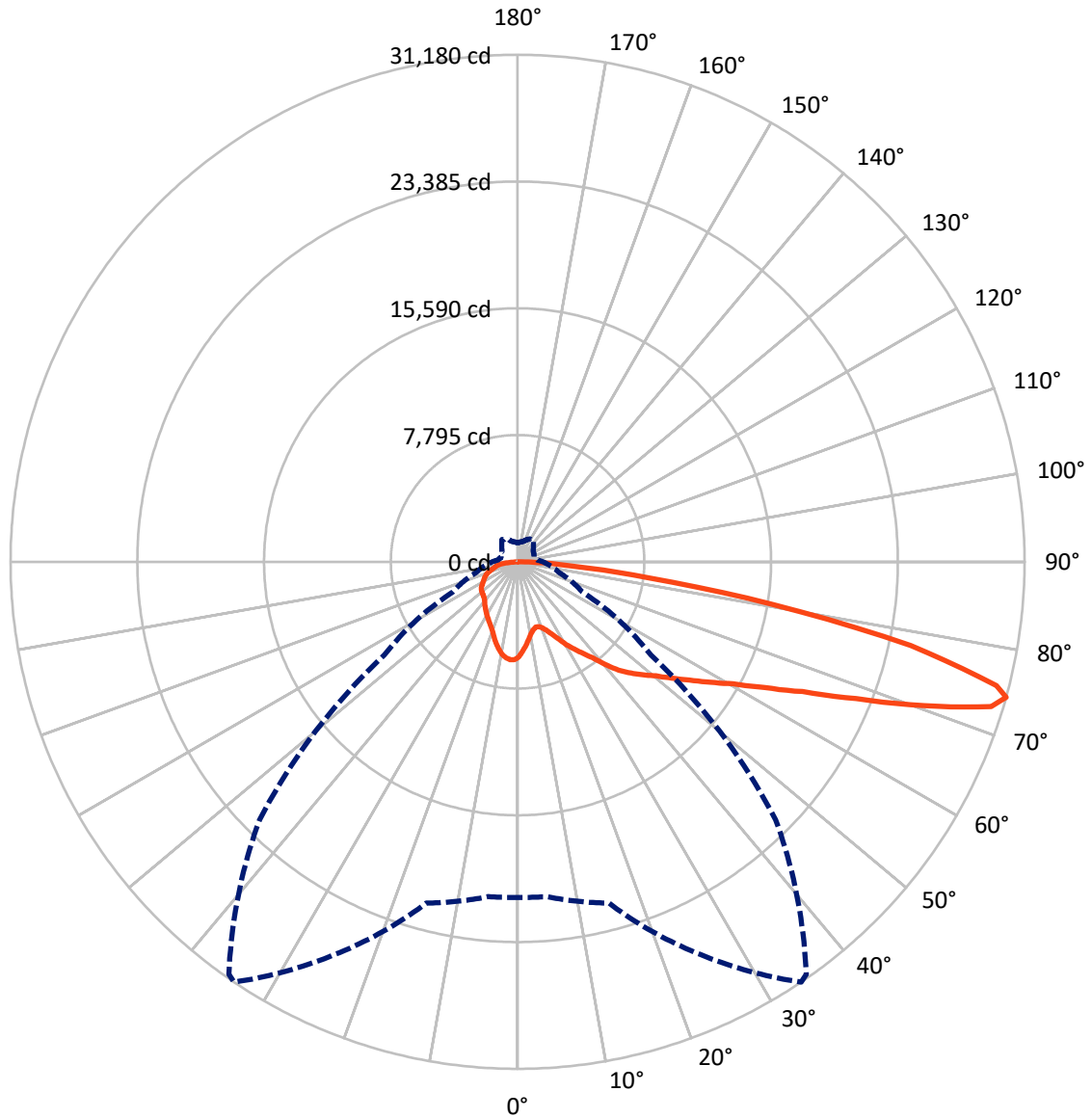
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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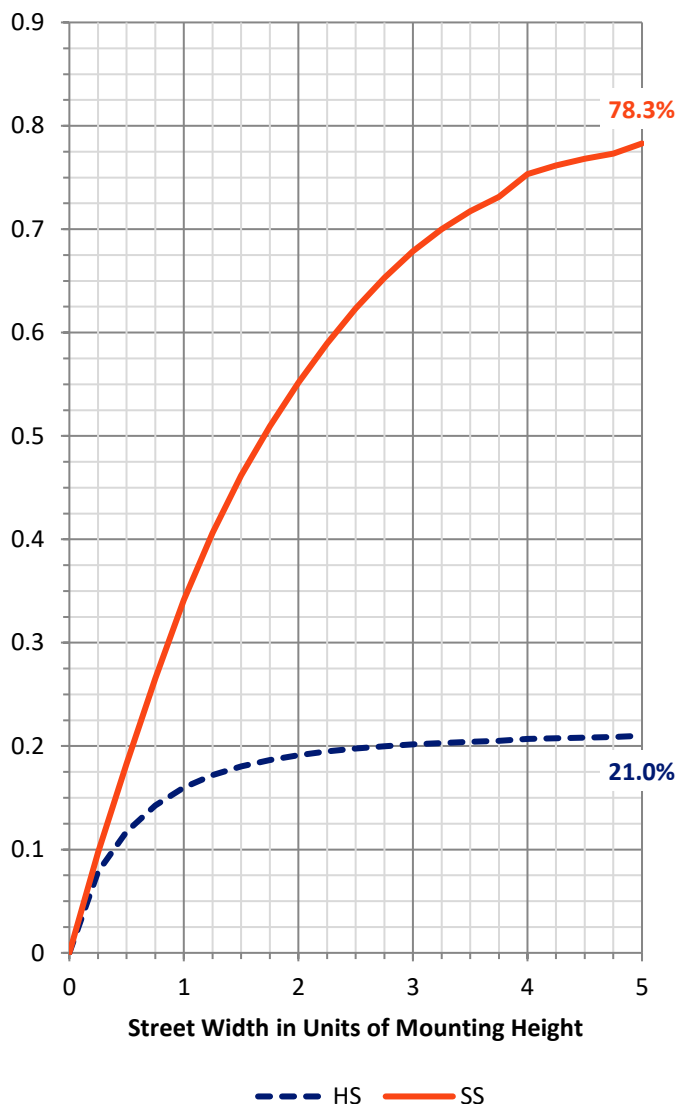
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8191.8	0.0	8191.8
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	30302.4	0.0	30302.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	38494.2	0.0	38494.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.5	1.4
10°-20°	1463.2	3.8
20°-30°	2412.5	6.3
30°-40°	3613.6	9.4
40°-50°	5253.2	13.6
50°-60°	7337.4	19.1
60°-70°	9186.1	23.9
70°-80°	7596.2	19.7
80°-90°	1097.6	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°	38494.2	100.0
0°-180°	38494.2	100.0

**Coefficient of Utilization**

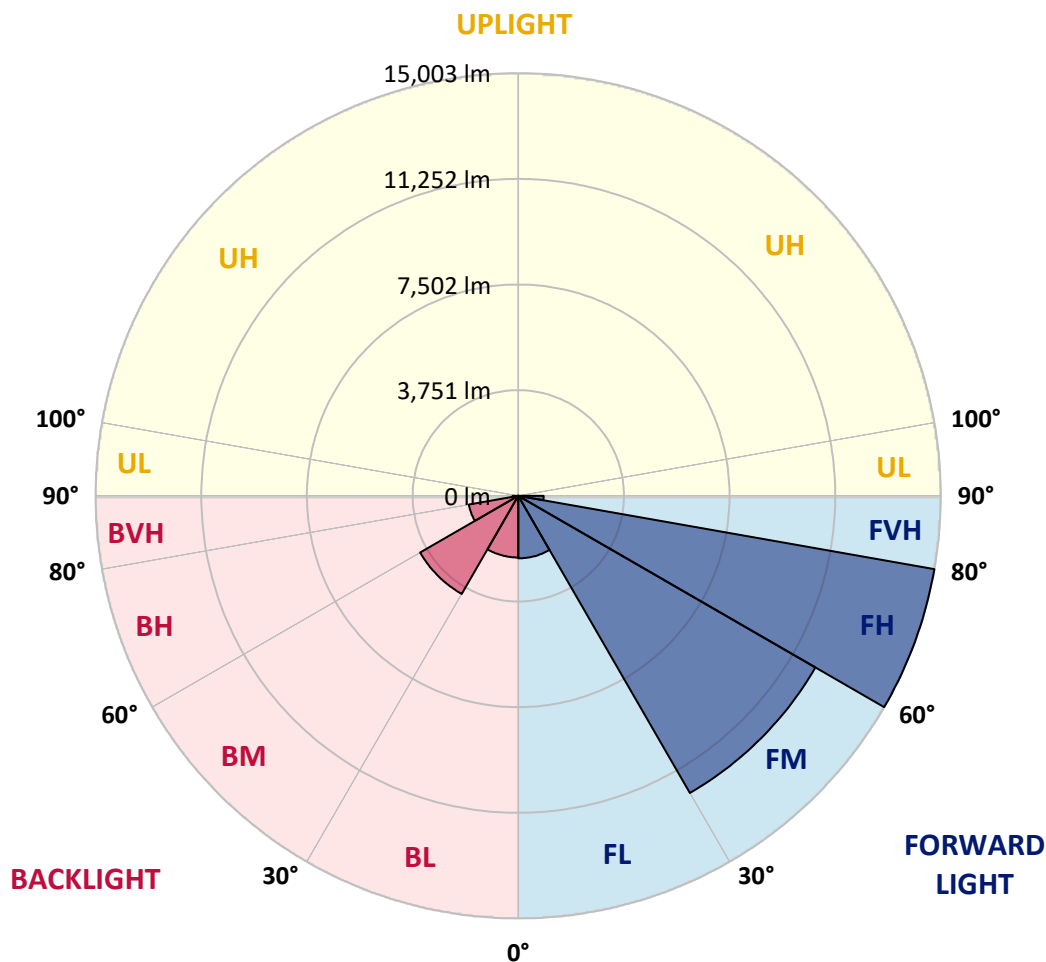


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.0	5.8			
FM (30°-60°)	12181.2	31.6			
FH (60°-80°)	15003.0	39.0			G5
FVH (80°-90°)	899.2	2.3			G5
BL (0°-30°)	2191.2	5.7	B3/2500		
BM (30°-60°)	4023.0	10.5	B3/5000		
BH (60°-80°)	1779.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	198.4	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°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5431.6	5459.4	5474.2	5527.6	5540.3	5557.4	5602.2	5661.9	5738.7	5806.9	5866.6
5°	4979.5	5022.2	5047.8	5094.7	5186.4	5194.9	5314.3	5450.8	5606.4	5751.5	5870.9
7.5°	4550.9	4597.7	4619.1	4704.4	4826.0	4845.2	5020.0	5235.4	5495.6	5715.3	5898.6
10°	4228.9	4252.3	4299.2	4363.2	4508.2	4521.0	4749.2	5037.1	5374.0	5698.2	5945.5
12.5°	4054.0	4066.7	4077.4	4145.7	4288.6	4307.8	4546.6	4872.8	5278.0	5711.0	6022.3
15°	4079.6	4083.8	4036.9	4049.8	4164.9	4192.6	4429.3	4764.1	5218.3	5742.9	6137.4
17.5°	4295.0	4280.0	4164.9	4105.2	4186.2	4199.0	4405.8	4721.5	5190.7	5802.6	6256.9
20°	4634.0	4612.7	4414.4	4282.2	4329.0	4339.7	4482.6	4753.4	5218.3	5900.8	6442.4
22.5°	5056.3	5047.8	4747.0	4587.2	4585.0	4585.0	4659.6	4868.6	5301.5	6035.1	6636.5
25°	5647.0	5602.2	5209.8	5002.9	4945.4	4941.1	4932.5	5058.4	5408.1	6178.0	6866.8
27.5°	6252.7	6175.9	5826.1	5508.4	5384.7	5369.8	5314.3	5327.1	5544.6	6340.0	7129.2
30°	6796.5	6747.4	6419.0	6067.1	5920.0	5885.8	5732.3	5661.9	5772.8	6632.2	7547.1
32.5°	7212.2	7182.4	6926.6	6606.6	6389.2	6382.7	6158.8	6101.2	6129.0	6986.3	8024.8
35°	7549.2	7559.9	7429.8	7152.5	6903.1	6866.8	6717.6	6645.0	6564.0	7498.0	8626.1
37.5°	8009.9	8033.3	8024.8	7786.0	7481.0	7489.5	7455.4	7336.0	7120.6	8069.6	9293.6
40°	8517.4	8534.5	8532.4	8440.6	8280.7	8289.2	8276.4	8140.0	7817.9	8796.8	10035.8
42.5°	9219.0	9138.0	8926.9	9018.5	9112.4	9152.9	9240.3	9110.2	8668.9	9573.0	10733.1
45°	10003.8	9850.2	9372.5	9415.2	9762.8	9839.6	10321.5	10142.4	9592.2	10464.4	11554.2
47.5°	10498.5	10347.2	9944.1	9935.6	10396.2	10470.8	11323.8	11257.7	10432.4	11426.2	12556.5
50°	10940.0	10918.7	10464.4	10573.2	11023.2	11134.1	12415.7	12353.9	11270.5	12560.8	13648.3
52.5°	11594.7	11422.0	11059.4	11283.4	11878.3	12023.4	13499.1	13317.8	12040.3	13563.1	14708.2
55°	11889.0	11848.4	11827.2	12021.2	12837.9	12942.5	14552.5	14136.7	12697.2	14411.8	15514.3
57.5°	12675.9	12601.2	12812.4	12944.6	13968.2	14128.1	15652.9	14991.8	13273.0	15085.7	15906.7
60°	13695.3	13654.7	13848.7	14087.6	15230.7	15473.8	16906.9	15721.1	13735.8	15424.8	15691.3
62.5°	15217.9	15213.6	15177.4	15689.2	17019.9	17243.8	18346.3	16431.3	13808.3	15171.0	14578.1
65°	17401.6	17324.9	17009.2	17568.0	19246.3	19508.6	19845.5	16828.0	13371.1	13868.0	12275.0
67.5°	19685.5	19681.3	19425.4	20150.4	22443.0	22713.8	21720.0	16740.5	12157.7	11234.2	8717.9
70°	21579.3	21487.6	21813.9	23746.0	26526.8	26840.3	23360.0	15710.5	9683.9	7419.1	5180.0
72.5°	22033.5	22037.8	22715.9	26518.2	30448.6	30497.6	23950.7	12733.5	6480.8	4092.4	2591.0
74°	20634.5	20670.9	21722.2	26656.9	31180.0	30958.2	22440.8	10008.1	4382.4	2672.1	1868.1
75°	18834.7	18606.5	20127.0	25733.5	30420.8	30182.0	20673.0	8031.2	3343.8	2134.7	1635.7
77.5°	10069.9	10302.3	12648.1	19203.6	24714.1	24439.0	14017.3	3851.4	1806.3	1486.4	1177.1
80°	3584.8	3953.7	5557.4	10048.6	15844.9	15930.1	6689.8	1765.8	1271.0	1096.2	831.7
82.5°	1462.9	1503.5	2386.3	4459.2	8046.1	8122.9	2731.8	1049.2	908.4	754.9	496.9
85°	571.5	588.6	1055.6	2004.6	3433.4	3657.3	944.7	554.5	558.8	432.9	253.8
87.5°	191.9	217.5	432.9	667.5	1166.5	1143.1	275.1	164.2	200.5	187.6	78.9
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°	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3	5877.3
2.5°	5896.5	5937.0	5964.7	5994.6	6022.3	6030.9	6024.4	6043.7	6045.8	6047.9	6050.1
5°	5930.6	5986.1	6039.4	6069.2	6082.0	6071.3	6035.1	6015.9	5998.9	5986.1	5990.4
7.5°	5977.6	6056.5	6105.5	6118.3	6084.1	6035.1	5945.5	5875.1	5830.4	5800.5	5798.4
10°	6050.1	6126.9	6167.3	6131.1	6037.3	5917.9	5777.1	5644.9	5544.6	5514.8	5512.7
12.5°	6141.7	6229.2	6227.0	6120.5	5956.2	5742.9	5514.8	5361.2	5224.7	5156.5	5184.3
15°	6261.2	6327.3	6265.4	6073.5	5813.3	5521.2	5239.7	5030.7	4877.1	4804.6	4808.9
17.5°	6399.8	6457.4	6293.1	5990.4	5612.8	5237.6	4911.3	4713.0	4591.4	4538.0	4533.8
20°	6572.5	6589.6	6293.1	5845.3	5354.8	4907.0	4595.6	4457.0	4388.8	4361.1	4369.6
22.5°	6758.0	6724.0	6259.1	5640.6	5015.7	4561.5	4352.5	4290.7	4256.6	4252.3	4256.6
25°	6967.0	6871.1	6188.7	5363.4	4661.7	4262.9	4141.4	4152.1	4158.5	4158.5	4173.4
27.5°	7222.9	7031.0	6071.3	5013.6	4248.1	3985.8	3951.6	4026.3	4060.3	4066.7	4077.4
30°	7559.9	7205.9	5877.3	4576.5	3896.2	3736.2	3795.9	3896.2	3934.5	3958.0	3953.7
32.5°	7960.8	7397.9	5615.0	4139.3	3612.5	3561.4	3633.9	3736.2	3778.9	3791.6	3774.6
35°	8432.1	7615.3	5269.5	3729.8	3365.2	3395.0	3480.3	3512.4	3550.7	3550.7	3559.2
37.5°	8939.7	7790.2	4847.3	3354.5	3173.3	3282.0	3343.8	3314.0	3296.9	3275.6	3286.3
40°	9455.7	7920.3	4299.2	2983.4	2981.3	3164.7	3181.8	3096.5	3028.2	3006.9	2996.2
42.5°	9905.7	8001.4	3804.4	2695.6	2800.0	3049.6	3062.3	2925.8	2817.1	2753.1	2731.8
45°	10436.7	8095.1	3320.4	2456.7	2631.6	2957.9	2989.8	2806.4	2646.5	2512.2	2478.0
47.5°	11163.9	8308.4	2938.6	2271.2	2510.0	2900.3	2945.0	2708.4	2497.2	2322.3	2294.6
50°	11984.9	8600.6	2642.3	2145.3	2416.2	2849.1	2904.6	2608.1	2358.6	2164.6	2143.2
52.5°	12737.7	8758.4	2386.3	2032.4	2324.4	2755.3	2851.2	2535.6	2222.1	2006.7	1987.5
55°	13149.3	8502.5	2134.7	1921.4	2198.6	2633.7	2776.6	2435.4	2089.9	1923.5	1895.9
57.5°	13204.8	7973.6	1906.5	1802.0	2066.4	2484.4	2638.0	2313.8	2004.6	1866.0	1842.5
60°	12776.1	7184.6	1729.5	1704.0	1932.1	2315.9	2482.3	2207.2	1917.1	1802.0	1778.5
62.5°	11709.8	6327.3	1605.8	1614.3	1795.6	2138.9	2367.2	2104.9	1834.0	1731.6	1710.3
65°	9875.9	5222.6	1486.4	1522.6	1674.1	2000.3	2262.6	2019.5	1750.8	1678.3	1659.1
67.5°	6860.5	3770.4	1388.3	1426.7	1558.9	1859.6	2141.1	1927.8	1657.0	1618.6	1588.7
70°	3798.0	2320.2	1273.1	1317.9	1439.5	1701.8	2004.6	1789.2	1520.5	1503.5	1460.8
72.5°	1996.0	1477.9	1143.1	1192.1	1277.4	1499.2	1795.6	1637.8	1386.1	1313.6	1258.2
74°	1558.9	1211.3	1055.6	1106.8	1164.4	1379.7	1671.9	1529.0	1290.2	1204.9	1162.3
75°	1358.5	1079.1	980.9	1047.0	1098.3	1298.8	1575.9	1452.2	1236.9	1155.9	1117.4
77.5°	959.7	808.2	801.8	880.8	908.4	1138.8	1420.3	1322.2	1102.6	1017.2	980.9
80°	673.9	605.6	635.5	684.6	722.9	1006.6	1317.9	1143.1	904.2	804.0	791.2
82.5°	439.3	396.6	454.2	499.0	511.8	742.1	1064.1	867.9	658.9	535.3	496.9
85°	202.6	198.3	260.2	253.8	251.6	362.6	631.3	507.5	379.6	283.7	266.6
87.5°	51.2	49.0	64.0	53.3	64.0	55.4	57.6	15.0	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)