

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: P651397

Luminaire Tested: **GALN-SA5D-840-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32521.5 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

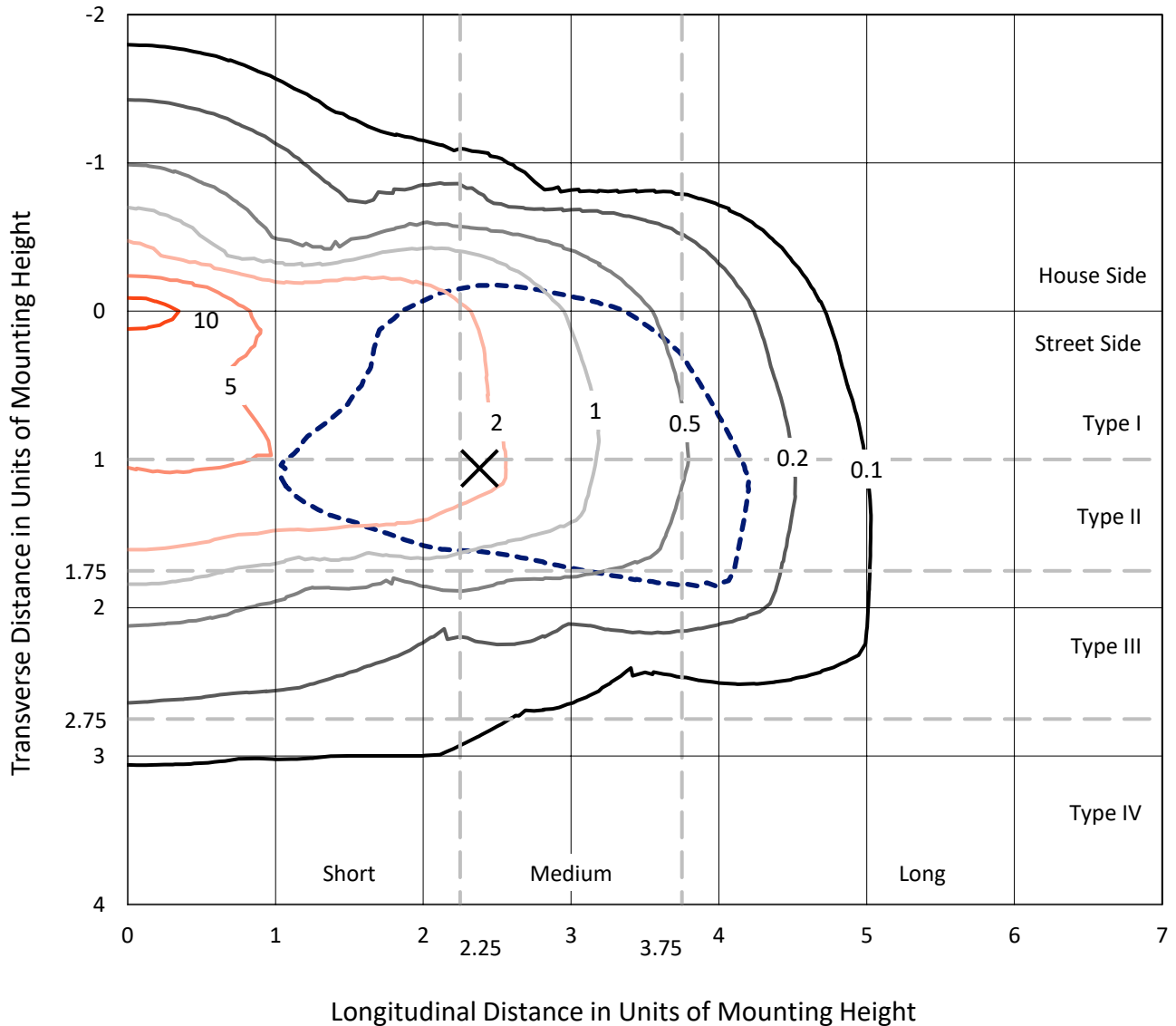
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

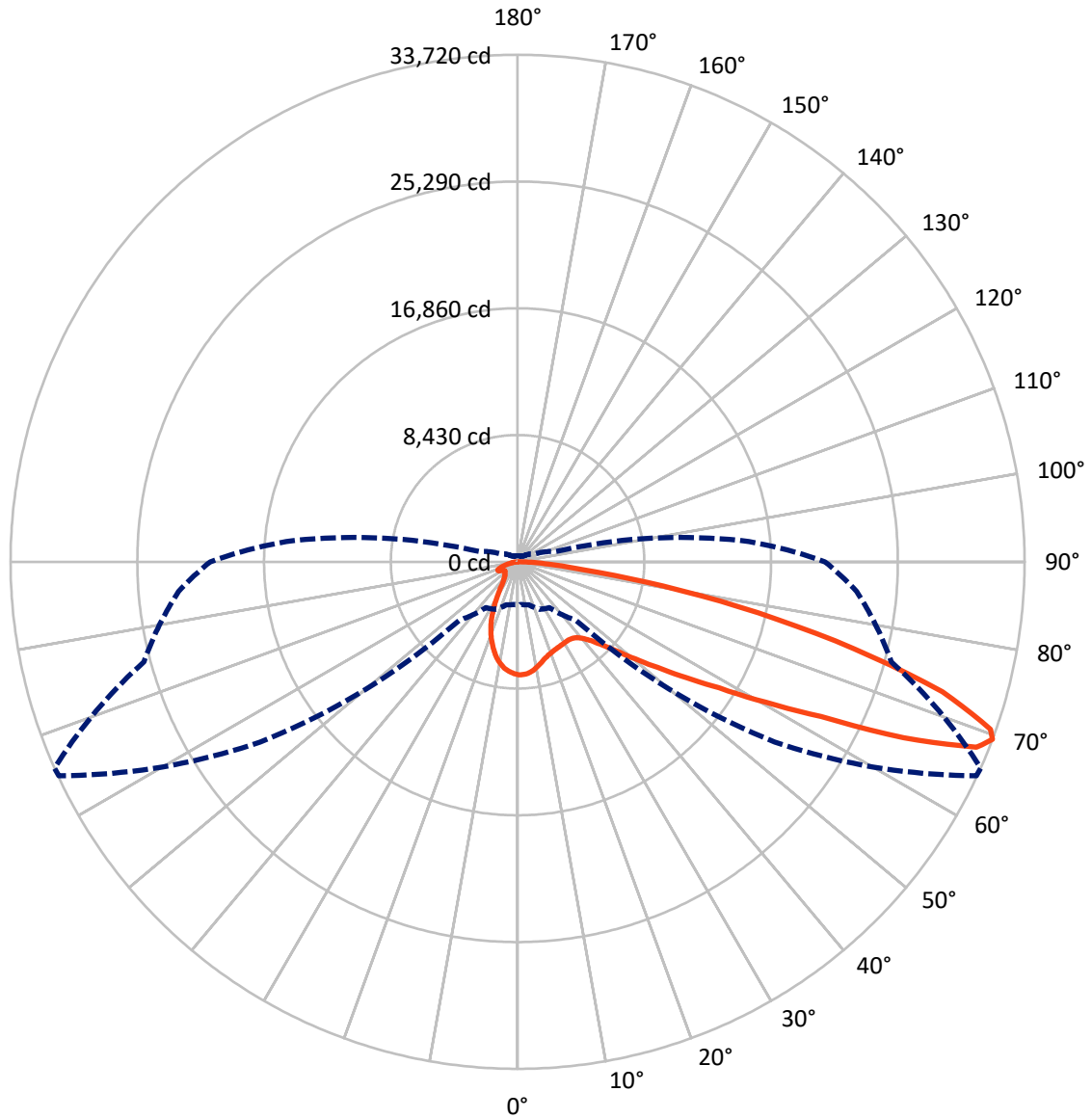
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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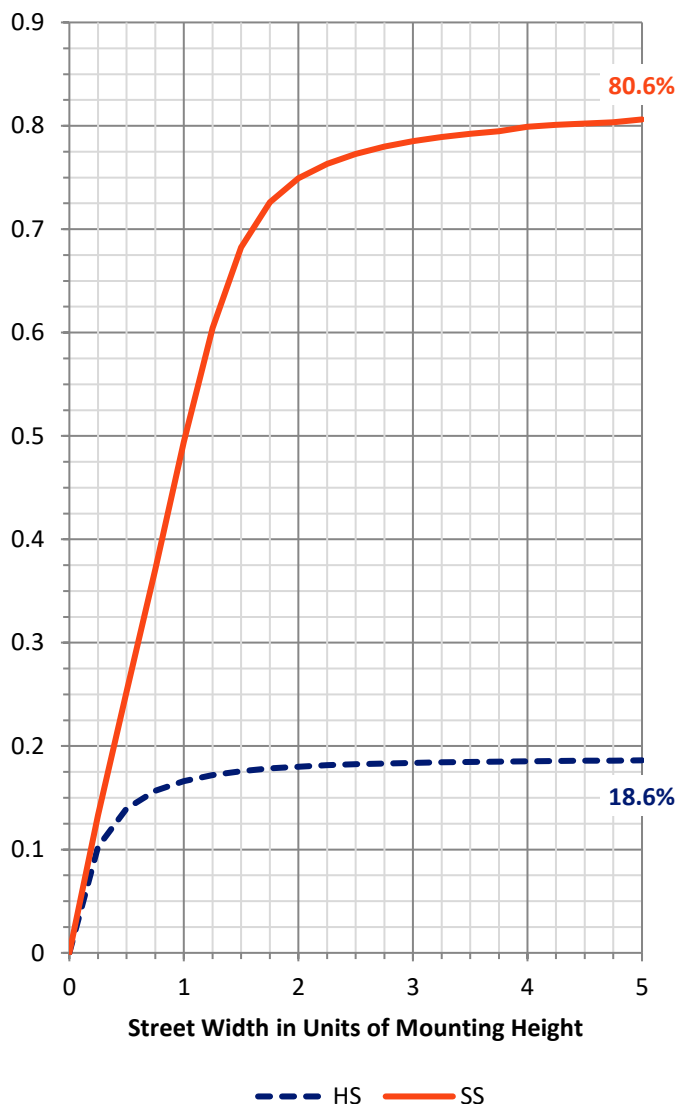
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6116.1	0.0	6116.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26405.4	0.0	26405.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32521.5	0.0	32521.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.2	2.0
10°-20°	1546.9	4.8
20°-30°	2105.9	6.5
30°-40°	2829.9	8.7
40°-50°	4225.5	13.0
50°-60°	6721.3	20.7
60°-70°	8266.8	25.4
70°-80°	5378.8	16.5
80°-90°	794.3	2.4
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°	32521.5	100.0
0°-180°	32521.5	100.0

**Coefficient of Utilization**

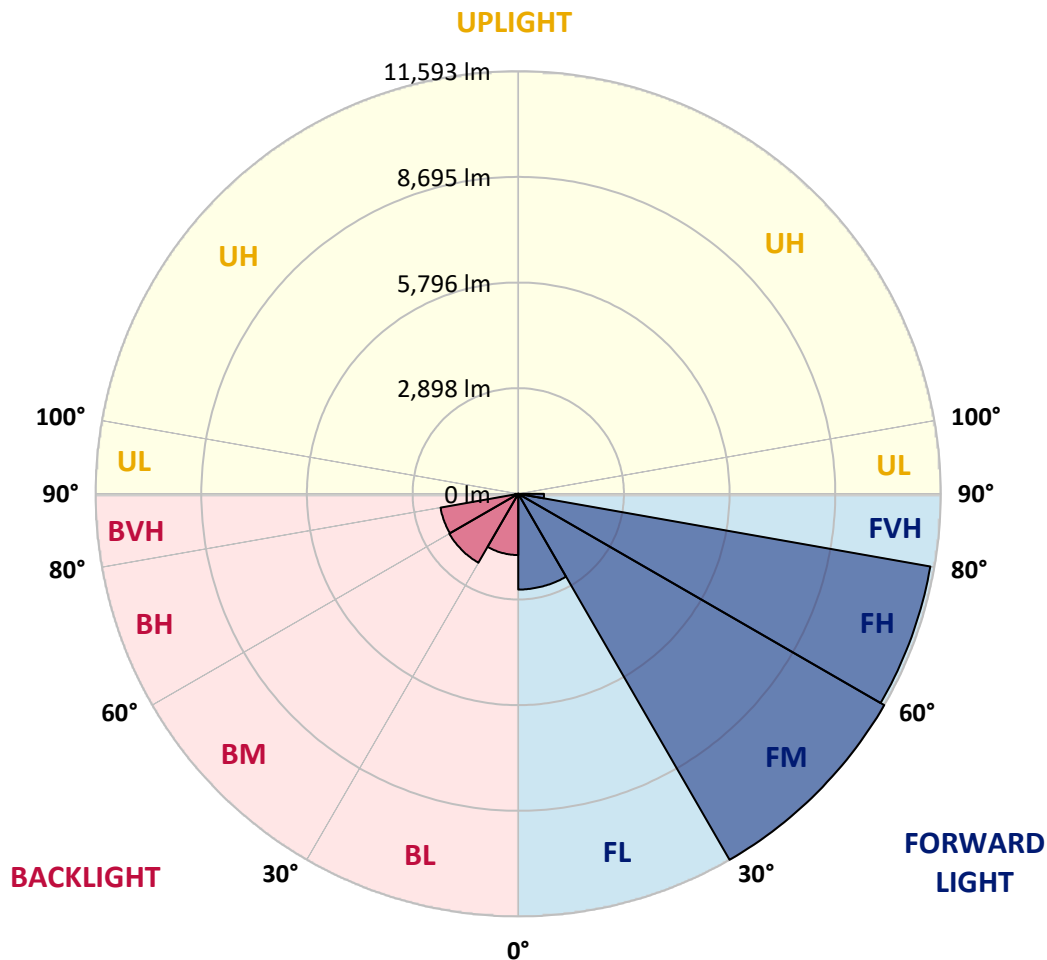


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.1	8.1			
FM (30°-60°)	11592.9	35.6			
FH (60°-80°)	11480.3	35.3			G4/12000
FVH (80°-90°)	706.2	2.2			G4/750
BL (0°-30°)	1678.9	5.2	B3/2500		
BM (30°-60°)	2183.7	6.7	B2/2500		
BH (60°-80°)	2165.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	88.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	7247.1	7276.0	7308.4	7344.5	7412.8	7450.7	7477.7	7508.3	7511.9	7528.1	7515.5
5°	6712.3	6746.5	6795.1	6863.6	6966.3	7126.5	7292.2	7427.3	7443.4	7519.1	7540.7
7.5°	6265.6	6285.5	6325.1	6434.9	6580.8	6759.1	7000.4	7274.1	7313.8	7493.9	7557.0
10°	5901.8	5921.6	5968.5	6081.9	6226.0	6449.3	6714.0	7074.2	7106.7	7416.4	7560.5
12.5°	5629.9	5647.9	5698.3	5810.0	5975.6	6184.5	6476.4	6858.2	6904.9	7313.8	7526.4
15°	5422.8	5457.0	5498.4	5590.3	5765.0	5966.6	6249.4	6660.0	6697.9	7205.8	7502.9
17.5°	5334.5	5350.7	5379.5	5464.2	5592.1	5790.2	6074.7	6505.1	6550.2	7130.1	7497.5
20°	5338.2	5354.3	5359.7	5406.5	5498.4	5669.5	5950.5	6382.7	6436.8	7063.5	7506.5
22.5°	5460.6	5462.4	5442.6	5426.4	5462.4	5604.7	5862.2	6290.8	6353.8	7034.6	7513.7
25°	5649.7	5682.1	5653.3	5577.7	5511.0	5579.4	5828.0	6240.4	6299.8	6993.3	7504.7
27.5°	5955.9	5961.3	5937.9	5835.2	5662.3	5611.9	5813.6	6202.6	6253.0	6962.6	7459.7
30°	6366.5	6350.3	6328.7	6215.2	5943.3	5736.1	5844.2	6168.4	6220.6	6917.6	7405.7
32.5°	6782.5	6833.0	6813.1	6679.9	6326.8	5977.5	5943.3	6164.8	6208.0	6883.3	7346.2
35°	7223.8	7247.1	7340.8	7272.4	6910.4	6368.3	6128.8	6220.6	6254.9	6885.2	7304.8
37.5°	7569.5	7632.6	7852.3	7911.7	7571.4	6885.2	6429.5	6379.1	6393.5	6973.4	7321.0
40°	7987.4	8095.5	8378.2	8621.3	8398.0	7557.0	6941.0	6672.7	6690.7	7185.9	7427.3
42.5°	8516.9	8592.5	8972.5	9302.1	9266.1	8444.8	7560.5	7153.5	7162.5	7609.2	7724.4
45°	9136.4	9244.4	9671.3	10166.6	10251.2	9449.8	8455.7	7881.1	7875.7	8266.5	8279.1
47.5°	9928.8	9995.5	10418.7	10959.0	11301.2	10712.2	9541.6	8925.7	8868.1	9224.7	9122.0
50°	10658.2	10762.7	11083.3	11674.0	12525.9	12190.9	10969.8	10280.0	10145.0	10478.1	10305.3
52.5°	10964.4	11074.3	11344.4	12077.4	13575.8	14103.5	12783.4	11895.5	11670.4	11926.1	11863.1
55°	10433.1	10575.4	10827.5	11719.0	14036.9	16309.8	15229.2	13763.1	13599.2	13489.4	13507.4
57.5°	9004.9	9140.0	9480.4	10463.7	13485.8	17910.8	18721.2	16163.9	15812.7	15306.6	15393.0
60°	6854.6	6939.2	7115.7	8205.3	11852.3	18326.8	22687.0	19198.5	18975.1	17116.5	17177.8
62.5°	4868.0	4963.5	5085.9	5629.9	8677.2	17154.4	25792.0	23436.2	22638.4	18991.4	18932.0
65°	3953.2	3888.4	4036.0	4289.9	5091.4	13294.9	26490.7	29318.3	28219.7	21460.6	20635.7
67.5°	3250.8	3182.3	3328.3	3780.3	3872.1	7717.2	23973.0	33136.3	32916.7	24145.8	22366.5
69°	2878.0	2842.0	2969.8	3484.9	3717.2	5480.4	20884.2	33667.7	33719.9	25728.9	22633.0
70°	2593.4	2607.9	2732.1	3335.4	3647.0	4518.7	17849.6	32934.7	33377.7	26519.5	22344.9
72.5°	1909.1	1939.7	2112.6	2762.7	3580.4	3834.3	10622.3	28767.2	29550.6	26566.3	20441.2
75°	1334.5	1320.1	1473.2	2080.1	3382.2	3800.1	6238.6	22247.6	23135.5	22962.6	17176.0
77.5°	873.5	896.9	1019.4	1469.6	2845.5	3771.3	4066.7	15783.8	16360.1	15357.0	10159.4
80°	615.9	614.1	682.6	1003.1	2110.7	3623.6	3330.0	9948.6	9802.8	6035.1	3013.1
82.5°	353.0	378.2	457.4	706.0	1412.0	3189.6	3063.5	4758.2	4344.0	1719.9	1017.5
85°	196.3	205.3	272.0	426.8	824.9	2402.5	2674.5	2164.8	2042.3	718.6	437.7
87.5°	63.1	68.5	113.5	216.1	374.6	1134.6	1514.6	999.5	922.1	259.4	176.5
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°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	7520.9	7542.5	7484.9	7429.1	7378.6	7308.4	7245.4	7193.2	7157.1	7151.7	7133.7
5°	7546.1	7547.9	7438.1	7290.4	7146.3	6987.8	6824.0	6706.9	6597.0	6535.7	6505.1
7.5°	7564.1	7547.9	7349.8	7110.3	6833.0	6544.7	6256.6	6026.1	5847.8	5777.6	5804.6
10°	7557.0	7506.5	7216.5	6833.0	6429.5	5999.1	5584.8	5260.7	4963.5	4810.4	4814.1
12.5°	7517.3	7434.4	7018.5	6521.4	5928.9	5352.5	4718.6	4280.9	3937.0	3733.5	3670.4
15°	7483.1	7339.0	6786.1	6098.2	5361.5	4538.5	3765.8	3225.6	2937.4	2777.2	2775.3
17.5°	7447.1	7247.1	6532.2	5649.7	4709.6	3650.6	2840.1	2427.7	2292.7	2308.9	2281.9
20°	7409.3	7139.1	6267.5	5150.8	3915.4	2723.1	2127.0	1959.4	1997.3	2071.1	2082.0
22.5°	7366.1	7023.9	5982.9	4601.5	3079.7	2049.5	1725.3	1700.2	1797.4	1912.7	1928.8
25°	7299.4	6879.8	5624.4	4027.0	2375.5	1651.5	1511.0	1529.0	1624.5	1721.8	1732.5
27.5°	7205.8	6701.5	5262.5	3310.2	1784.8	1417.3	1381.3	1404.8	1451.6	1511.0	1525.4
30°	7079.7	6499.8	4846.4	2690.7	1430.0	1300.3	1285.9	1298.5	1325.5	1350.7	1358.0
32.5°	6953.6	6305.2	4426.9	2060.4	1275.1	1222.9	1208.4	1208.4	1208.4	1212.0	1213.9
35°	6836.6	6121.6	3976.6	1604.7	1194.1	1161.7	1141.8	1120.2	1116.6	1104.0	1104.0
37.5°	6771.7	5954.0	3497.6	1343.5	1134.6	1111.2	1084.2	1048.1	1028.4	1030.1	1026.5
40°	6784.3	5844.2	3061.7	1195.8	1086.0	1060.8	1019.4	977.9	965.3	965.3	961.8
42.5°	6926.6	5808.2	2643.9	1118.4	1039.1	1010.4	958.2	920.3	913.1	911.3	914.9
45°	7254.4	5896.4	2269.3	1068.0	999.5	956.3	904.1	869.8	862.7	862.7	860.8
47.5°	7893.7	6182.8	2000.9	1035.6	970.8	914.9	860.8	826.6	814.0	810.5	810.5
50°	8887.9	6804.1	1801.0	1006.8	934.7	877.1	821.2	781.6	761.8	760.0	758.2
52.5°	10269.2	7773.0	1723.5	985.1	895.1	837.5	776.2	738.4	713.2	707.8	704.2
55°	11884.7	9125.6	1829.8	968.9	853.7	792.5	729.4	689.8	666.3	655.6	653.8
57.5°	13755.9	10750.1	2233.2	947.3	815.9	743.8	682.6	642.9	617.7	605.1	601.6
60°	15436.2	12419.6	2937.4	934.7	783.4	691.6	628.6	592.5	569.1	556.5	554.7
62.5°	17282.3	14011.6	3778.4	968.9	769.0	641.2	578.1	545.7	525.9	513.3	513.3
65°	19254.4	15605.5	4334.9	1084.2	790.6	601.6	524.1	497.0	479.0	470.0	468.3
67.5°	20583.5	16156.6	3571.4	1203.1	844.7	558.3	471.9	450.3	439.4	430.4	430.4
69°	20439.4	15459.7	2634.9	1233.7	860.8	536.7	443.0	426.8	412.4	408.8	405.2
70°	19983.8	14665.4	2208.0	1213.9	848.2	516.9	425.0	405.2	392.6	389.0	387.2
72.5°	17799.2	12718.5	1644.3	1055.4	722.2	448.4	376.4	358.4	347.6	342.2	342.2
75°	14787.9	10395.3	1284.1	839.2	565.5	378.2	322.4	308.0	299.0	295.4	293.6
77.5°	8288.1	5804.6	922.1	657.3	428.7	306.2	270.1	257.5	248.5	244.9	244.9
80°	2308.9	1658.7	542.1	434.0	291.7	232.4	214.3	205.3	192.7	183.7	189.1
82.5°	869.8	718.6	309.7	261.1	185.5	154.9	149.4	142.3	136.9	124.3	124.3
85°	423.2	349.4	198.1	138.7	102.7	81.1	77.5	73.8	70.2	61.2	63.1
87.5°	145.9	154.9	86.5	50.5	30.6	19.8	16.2	9.0	9.0	9.0	9.0
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)