

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: P648537

Luminaire Tested: **GALN-SA7B-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648537  
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-SA7B-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA 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: 30976.3 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 286  
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

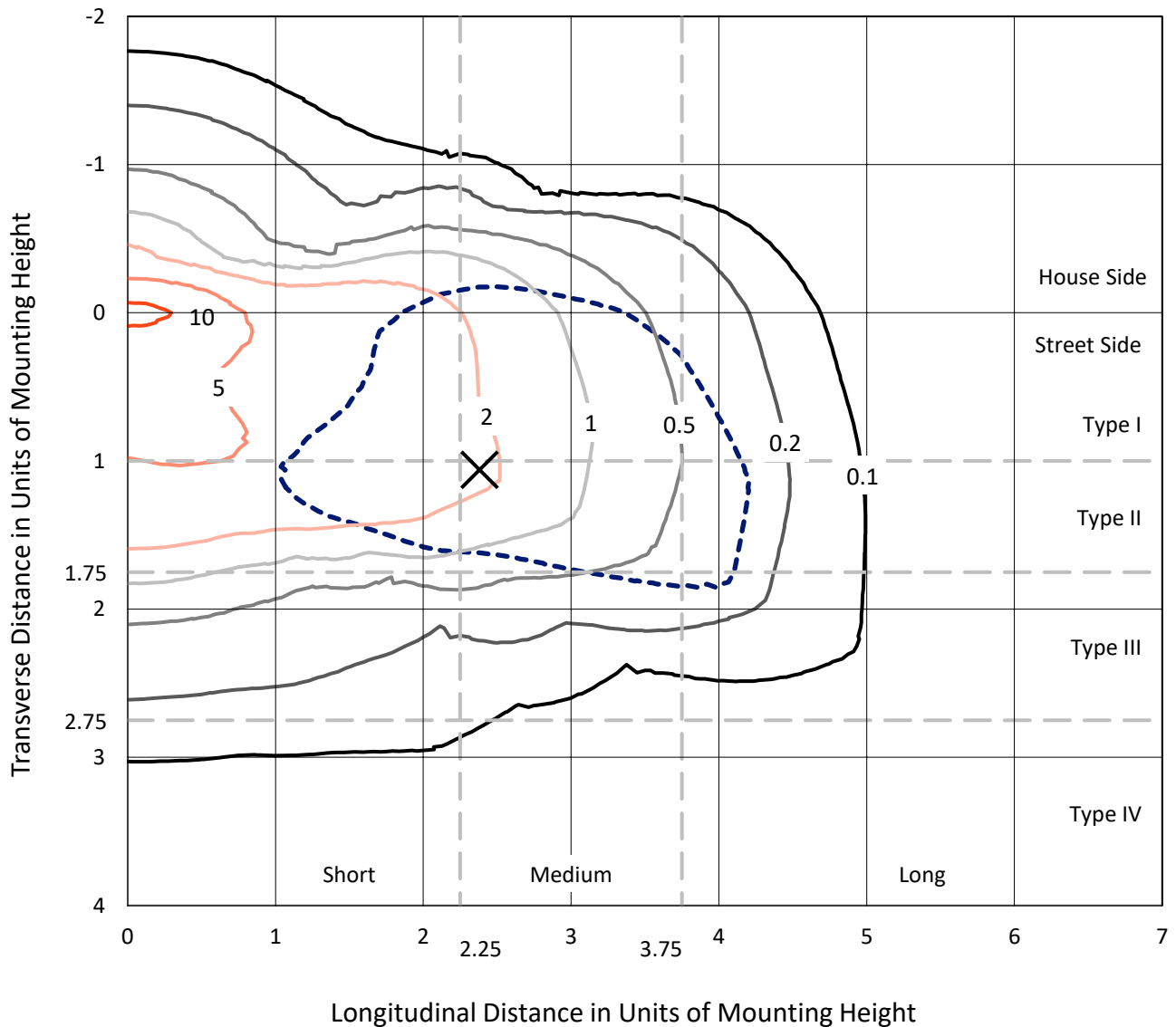




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### Iso-Footcandle Lines of Horizontal Illumination

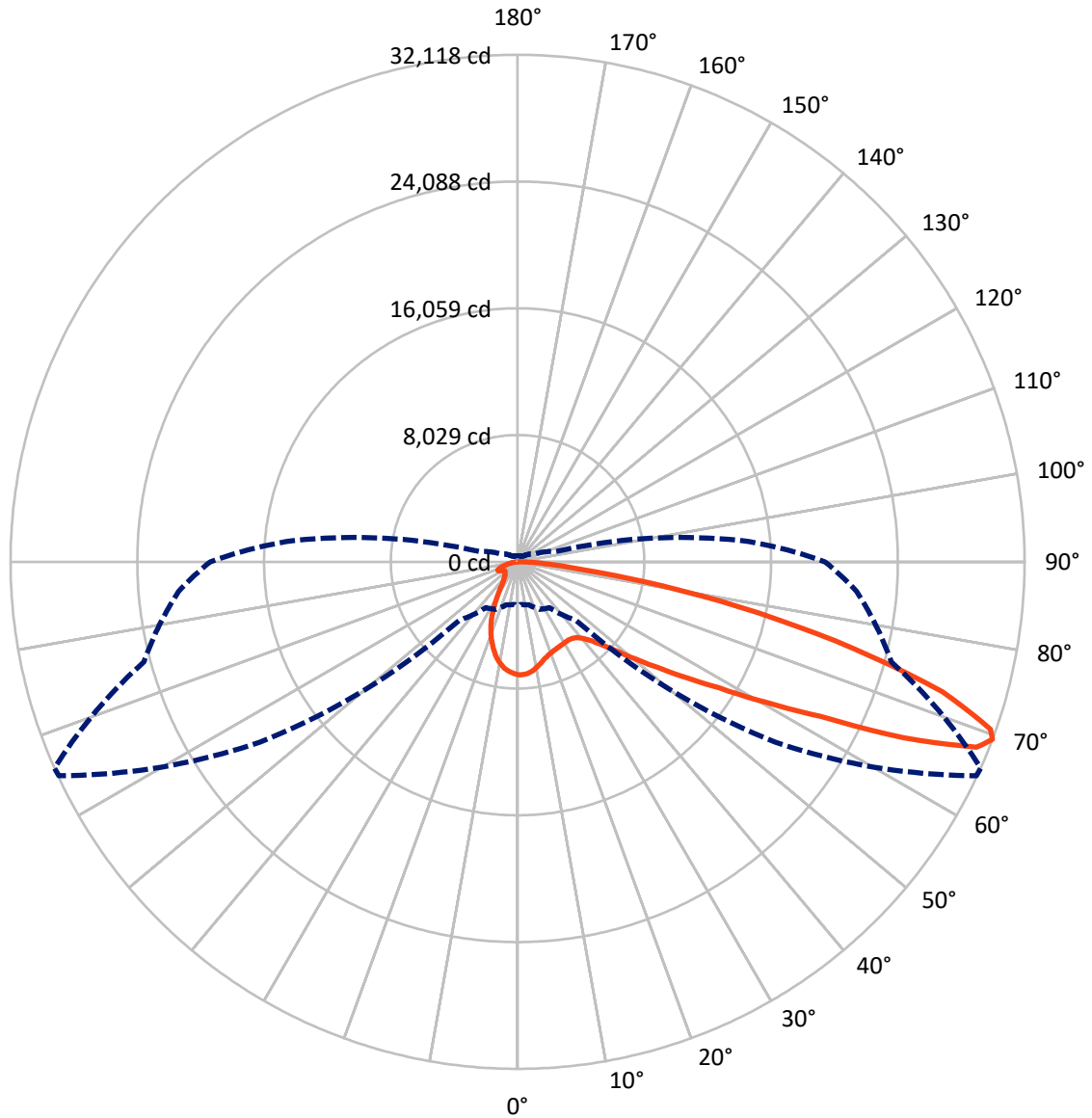
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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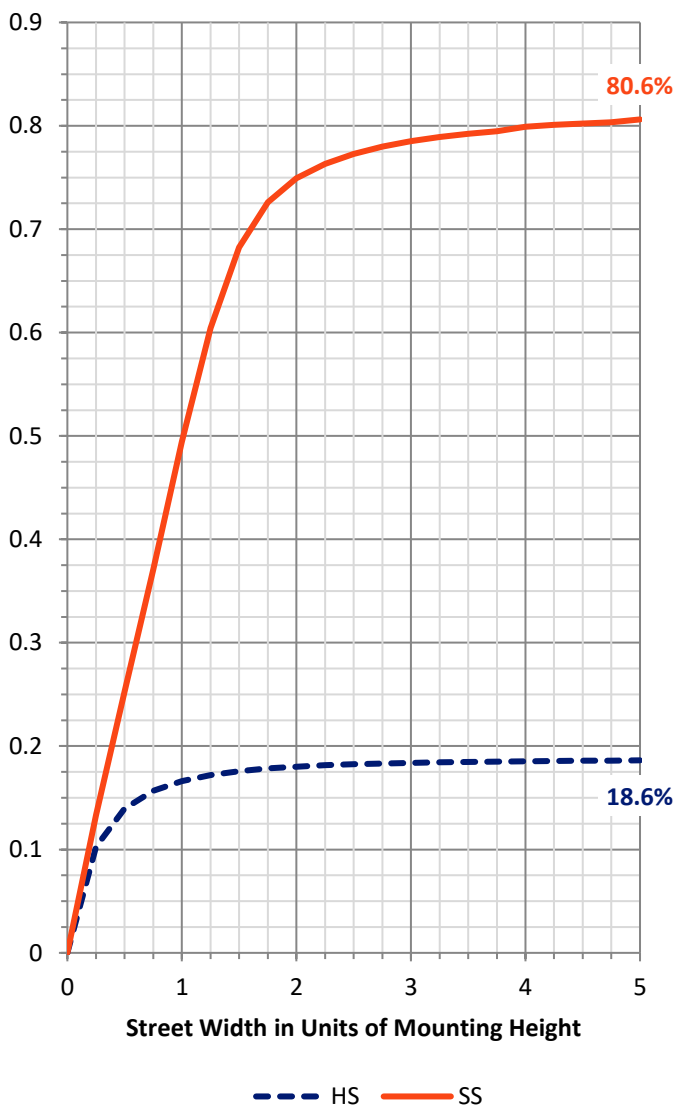
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5825.5	0.0	5825.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25150.8	0.0	25150.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	30976.3	0.0	30976.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.2	2.0
10°-20°	1473.4	4.8
20°-30°	2005.8	6.5
30°-40°	2695.4	8.7
40°-50°	4024.7	13.0
50°-60°	6401.9	20.7
60°-70°	7874.0	25.4
70°-80°	5123.2	16.5
80°-90°	756.5	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°	30976.3	100.0
0°-180°	30976.3	100.0

**Coefficient of Utilization**

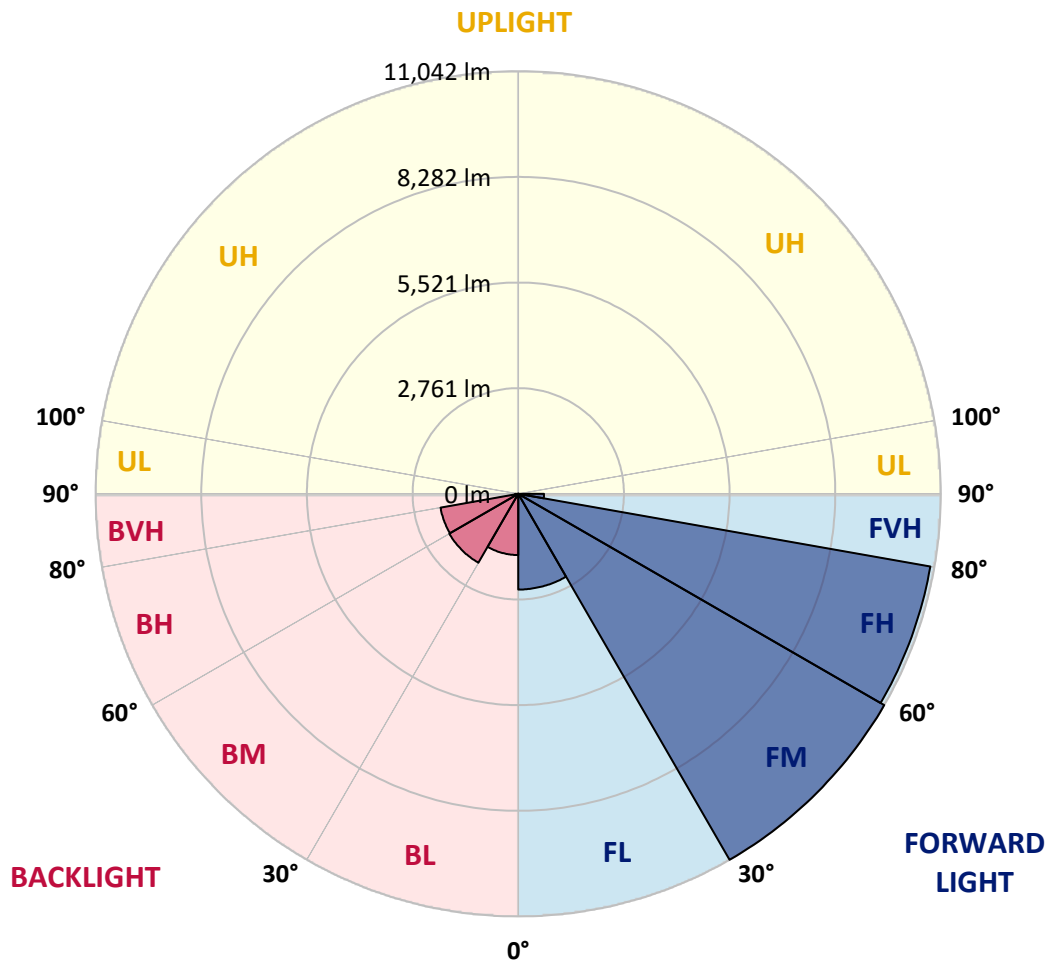


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.3	8.1			
FM (30°-60°)	11042.1	35.6			
FH (60°-80°)	10934.8	35.3			G4/12000
FVH (80°-90°)	672.6	2.2			G4/750
BL (0°-30°)	1599.1	5.2	B3/2500		
BM (30°-60°)	2079.9	6.7	B2/2500		
BH (60°-80°)	2062.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	83.9	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°	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3
2.5°	6902.8	6930.3	6961.2	6995.5	7060.6	7096.6	7122.4	7151.5	7155.0	7170.4	7158.4
5°	6393.4	6425.9	6472.3	6537.4	6635.2	6787.9	6945.7	7074.4	7089.8	7161.9	7182.5
7.5°	5967.9	5986.8	6024.6	6129.2	6268.1	6438.0	6667.8	6928.5	6966.3	7137.8	7197.9
10°	5621.4	5640.3	5684.9	5792.9	5930.2	6142.9	6395.1	6738.2	6769.0	7064.1	7201.3
12.5°	5362.4	5379.5	5427.6	5533.9	5691.8	5890.7	6168.6	6532.3	6576.9	6966.3	7168.8
15°	5165.1	5197.7	5237.2	5324.6	5491.0	5683.2	5952.5	6343.6	6379.6	6863.4	7146.4
17.5°	5081.0	5096.5	5124.0	5204.6	5326.4	5515.1	5786.1	6196.1	6238.9	6791.4	7141.3
20°	5084.5	5099.9	5105.1	5149.7	5237.2	5400.1	5667.7	6079.4	6130.9	6727.8	7149.9
22.5°	5201.2	5202.9	5184.0	5168.6	5202.9	5338.3	5583.7	5991.9	6052.0	6700.4	7156.7
25°	5381.2	5412.1	5384.7	5312.7	5249.2	5314.4	5551.1	5943.9	6000.5	6661.0	7148.2
27.5°	5672.9	5678.0	5655.7	5558.0	5393.2	5345.2	5537.4	5907.9	5955.9	6631.8	7105.3
30°	6064.0	6048.5	6028.0	5919.9	5660.9	5463.6	5566.5	5875.3	5925.0	6588.9	7053.8
32.5°	6460.2	6508.3	6489.4	6362.5	6026.3	5693.4	5660.9	5871.9	5913.1	6556.3	6997.2
35°	6880.5	6902.8	6992.0	6926.8	6582.1	6065.7	5837.6	5925.0	5957.6	6558.0	6957.7
37.5°	7209.9	7269.9	7479.2	7535.8	7211.6	6558.0	6124.0	6076.0	6089.7	6642.1	6973.2
40°	7607.9	7710.8	7980.1	8211.7	7999.0	7197.9	6611.2	6355.6	6372.8	6844.5	7074.4
42.5°	8112.2	8184.2	8546.2	8860.1	8825.8	8043.6	7201.3	6813.7	6822.2	7247.6	7357.4
45°	8702.3	8805.2	9211.8	9683.5	9764.2	9000.8	8053.9	7506.6	7501.5	7873.8	7885.7
47.5°	9457.1	9520.6	9923.7	10438.3	10764.2	10203.3	9088.3	8501.6	8446.7	8786.4	8688.6
50°	10151.8	10251.3	10556.6	11119.3	11930.7	11611.7	10448.6	9791.6	9662.9	9980.3	9815.6
52.5°	10443.4	10548.1	10805.4	11503.6	12930.8	13433.4	12176.0	11330.3	11115.9	11359.5	11299.5
55°	9937.4	10072.9	10313.0	11162.2	13370.0	15534.8	14505.5	13109.2	12953.1	12848.5	12865.6
57.5°	8577.1	8705.7	9029.9	9966.6	12845.0	17059.8	17831.7	15395.8	15061.3	14579.3	14661.7
60°	6528.9	6609.5	6777.6	7815.4	11289.1	17456.0	21609.1	18286.3	18073.6	16303.3	16361.6
62.5°	4636.8	4727.7	4844.3	5362.4	8264.9	16339.3	24566.5	22322.7	21562.8	18089.0	18032.4
65°	3765.4	3703.6	3844.2	4086.1	4849.5	12663.2	25232.0	27925.2	26878.8	20440.9	19655.3
67.5°	3096.3	3031.1	3170.1	3600.6	3688.2	7350.6	22833.9	31561.9	31352.7	22998.6	21303.7
69°	2741.2	2706.9	2828.7	3319.3	3540.6	5220.0	19892.0	32068.0	32117.7	24506.4	21557.6
70°	2470.2	2483.9	2602.3	3176.9	3473.7	4304.0	17001.5	31369.8	31791.8	25259.5	21283.1
72.5°	1818.4	1847.5	2012.2	2631.4	3410.3	3652.1	10117.5	27400.3	28146.5	25304.1	19469.9
75°	1271.1	1257.4	1403.2	1981.3	3221.6	3619.5	5942.2	21190.5	22036.2	21871.5	16359.9
77.5°	831.9	854.3	970.9	1399.8	2710.4	3592.1	3873.4	15033.9	15582.8	14627.4	9676.6
80°	586.7	585.0	650.1	955.5	2010.4	3451.4	3171.8	9475.9	9337.0	5748.3	2869.9
82.5°	336.2	360.3	435.7	672.4	1344.9	3038.0	2917.9	4532.2	4137.6	1638.2	969.2
85°	187.0	195.6	259.0	406.5	785.7	2288.4	2547.4	2062.0	1945.3	684.4	416.9
87.5°	60.1	65.2	108.1	205.9	356.8	1080.7	1442.7	952.0	878.3	247.0	168.1
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°	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3	7153.3
2.5°	7163.6	7184.2	7129.3	7076.0	7028.1	6961.2	6901.1	6851.3	6817.0	6811.9	6794.8
5°	7187.6	7189.3	7084.7	6944.0	6806.8	6655.8	6499.7	6388.2	6283.6	6225.2	6196.1
7.5°	7204.8	7189.3	7000.6	6772.5	6508.3	6233.9	5959.3	5739.8	5569.9	5503.1	5528.8
10°	7197.9	7149.9	6873.6	6508.3	6124.0	5714.0	5319.5	5010.7	4727.7	4581.9	4585.3
12.5°	7160.1	7081.2	6684.9	6211.5	5647.2	5098.2	4494.4	4077.6	3749.9	3556.1	3496.0
15°	7127.6	6990.3	6463.7	5808.4	5106.8	4322.9	3586.9	3072.3	2797.8	2645.1	2643.5
17.5°	7093.3	6902.8	6221.8	5381.2	4485.8	3477.1	2705.2	2312.4	2183.7	2199.1	2173.5
20°	7057.2	6799.9	5969.7	4906.1	3729.4	2593.7	2025.9	1866.4	1902.4	1972.7	1983.0
22.5°	7016.1	6690.1	5698.6	4382.9	2933.4	1952.2	1643.4	1619.3	1712.0	1821.8	1837.2
25°	6952.6	6552.8	5357.2	3835.7	2262.6	1573.0	1439.2	1456.4	1547.3	1639.9	1650.3
27.5°	6863.4	6383.1	5012.5	3152.9	1700.0	1350.0	1315.8	1338.0	1382.6	1439.2	1452.9
30°	6743.3	6190.9	4616.2	2562.8	1362.0	1238.5	1224.8	1236.8	1262.5	1286.5	1293.4
32.5°	6623.2	6005.7	4216.5	1962.4	1214.5	1164.8	1151.0	1151.0	1151.0	1154.5	1156.2
35°	6511.7	5830.7	3787.6	1528.4	1137.3	1106.5	1087.6	1067.0	1063.5	1051.6	1051.6
37.5°	6450.0	5671.2	3331.4	1279.7	1080.7	1058.4	1032.7	998.4	979.5	981.3	977.8
40°	6461.9	5566.5	2916.2	1139.0	1034.4	1010.4	970.9	931.5	919.5	919.5	916.0
42.5°	6597.5	5532.2	2518.2	1065.3	989.8	962.4	912.6	876.6	869.7	868.0	871.4
45°	6909.7	5616.3	2161.4	1017.3	952.0	910.9	861.1	828.6	821.7	821.7	820.0
47.5°	7518.7	5889.0	1905.8	986.3	924.6	871.4	820.0	787.4	775.4	772.0	772.0
50°	8465.6	6480.8	1715.4	958.9	890.3	835.4	782.2	744.5	725.6	723.9	722.2
52.5°	9781.3	7403.7	1641.6	938.3	852.5	797.6	739.3	703.3	679.3	674.2	670.7
55°	11320.0	8692.0	1742.9	922.9	813.1	754.8	694.8	657.0	634.7	624.4	622.7
57.5°	13102.3	10239.3	2127.1	902.3	777.0	708.5	650.1	612.4	588.4	576.4	572.9
60°	14702.8	11829.5	2797.8	890.3	746.2	658.7	598.7	564.4	542.1	530.1	528.4
62.5°	16461.1	13345.9	3598.9	922.9	732.5	610.7	550.7	519.8	500.9	488.9	488.9
65°	18339.5	14864.1	4129.0	1032.7	753.1	572.9	499.2	473.5	456.3	447.7	446.0
67.5°	19605.5	15389.0	3401.7	1145.9	804.5	531.8	449.4	428.8	418.6	410.0	410.0
69°	19468.3	14725.1	2509.7	1175.0	820.0	511.2	422.0	406.5	392.8	389.4	385.9
70°	19034.3	13968.6	2103.1	1156.2	808.0	492.4	404.8	385.9	374.0	370.5	368.8
72.5°	16953.4	12114.3	1566.2	1005.2	687.9	427.1	358.5	341.4	331.1	326.0	326.0
75°	14085.3	9901.3	1223.1	799.4	538.6	360.3	307.1	293.3	284.8	281.3	279.6
77.5°	7894.4	5528.8	878.3	626.2	408.3	291.6	257.3	245.3	236.7	233.3	233.3
80°	2199.1	1579.9	516.3	413.4	277.9	221.3	204.1	195.6	183.5	175.0	180.1
82.5°	828.6	684.4	295.0	248.8	176.7	147.5	142.3	135.5	130.4	118.4	118.4
85°	403.1	332.8	188.7	132.1	97.8	77.2	73.8	70.3	66.9	58.3	60.1
87.5°	139.0	147.5	82.4	48.0	29.1	18.9	15.4	8.6	8.6	8.6	8.6
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)