

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: P650908

Luminaire Tested: **GALN-SA5C-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28983.4 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

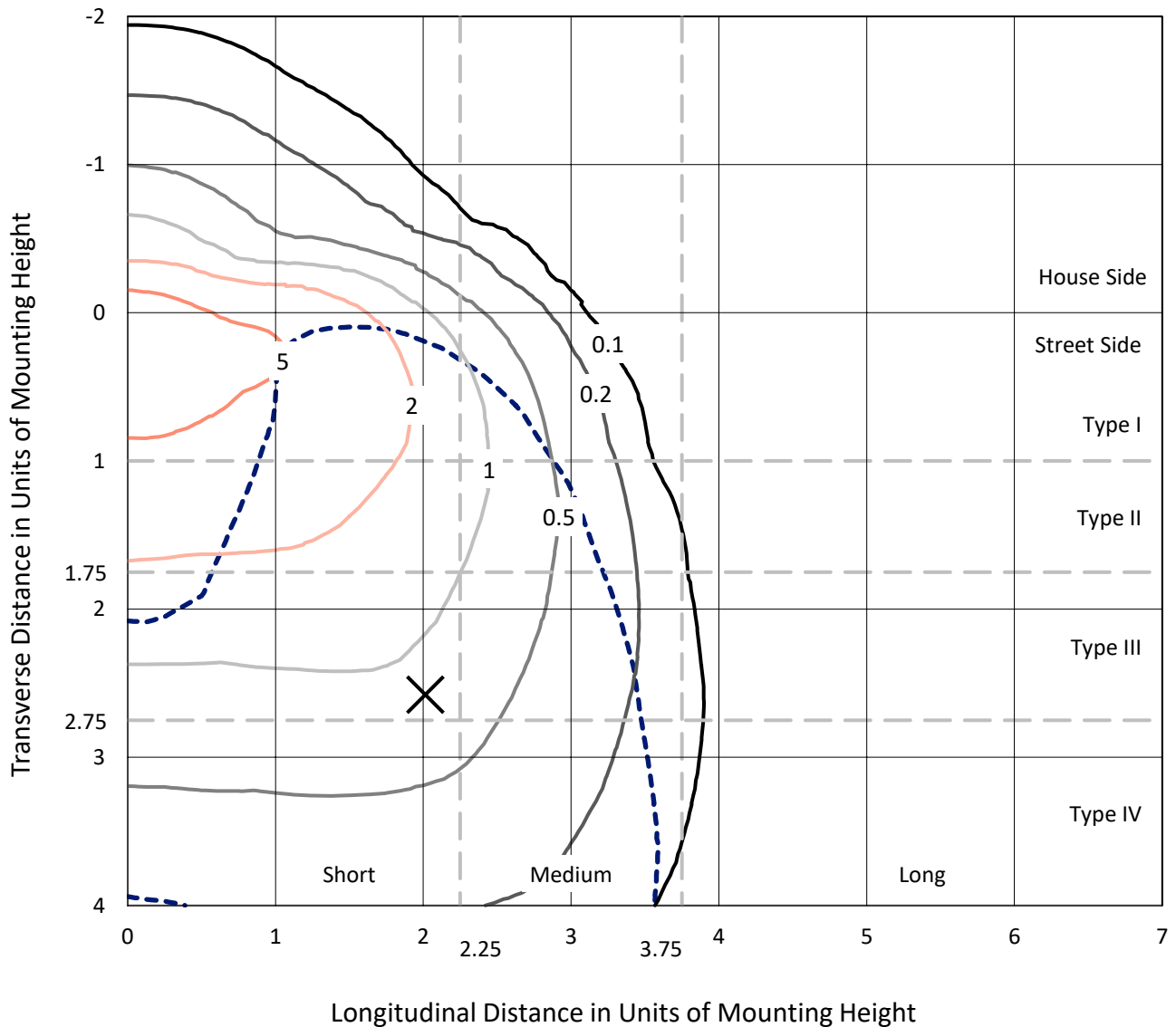
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

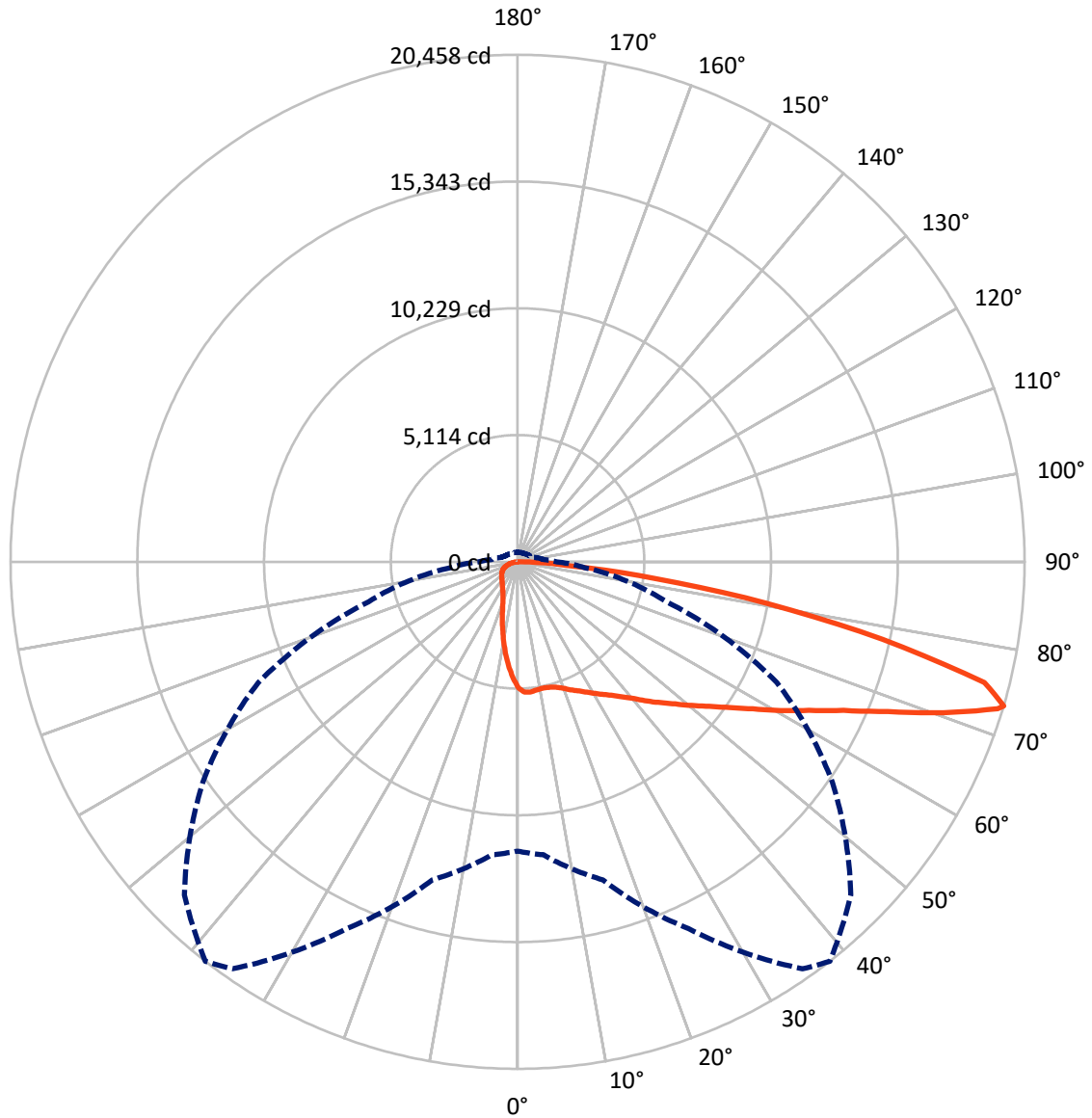
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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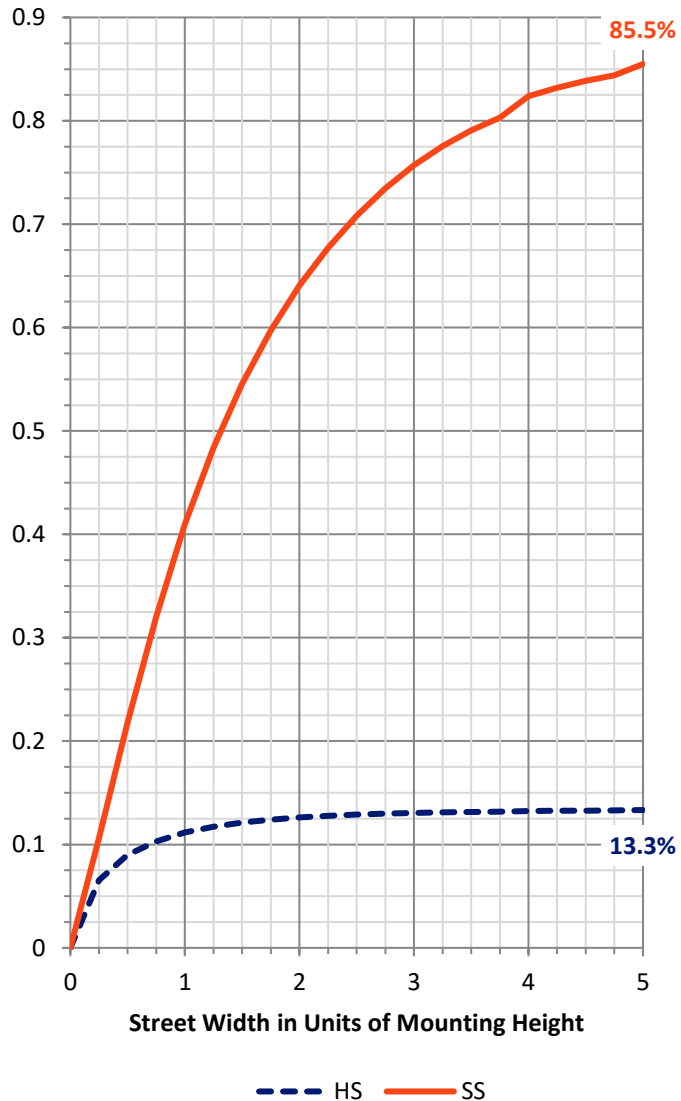
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3896.2	0.0	3896.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	25087.2	0.0	25087.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28983.4	0.0	28983.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.5	1.5
10°-20°	1139.8	3.9
20°-30°	1774.8	6.1
30°-40°	2603.2	9.0
40°-50°	3861.6	13.3
50°-60°	5471.2	18.9
60°-70°	6940.3	23.9
70°-80°	5777.3	19.9
80°-90°	970.7	3.3
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°	28983.4	100.0
0°-180°	28983.4	100.0

**Coefficient of Utilization**



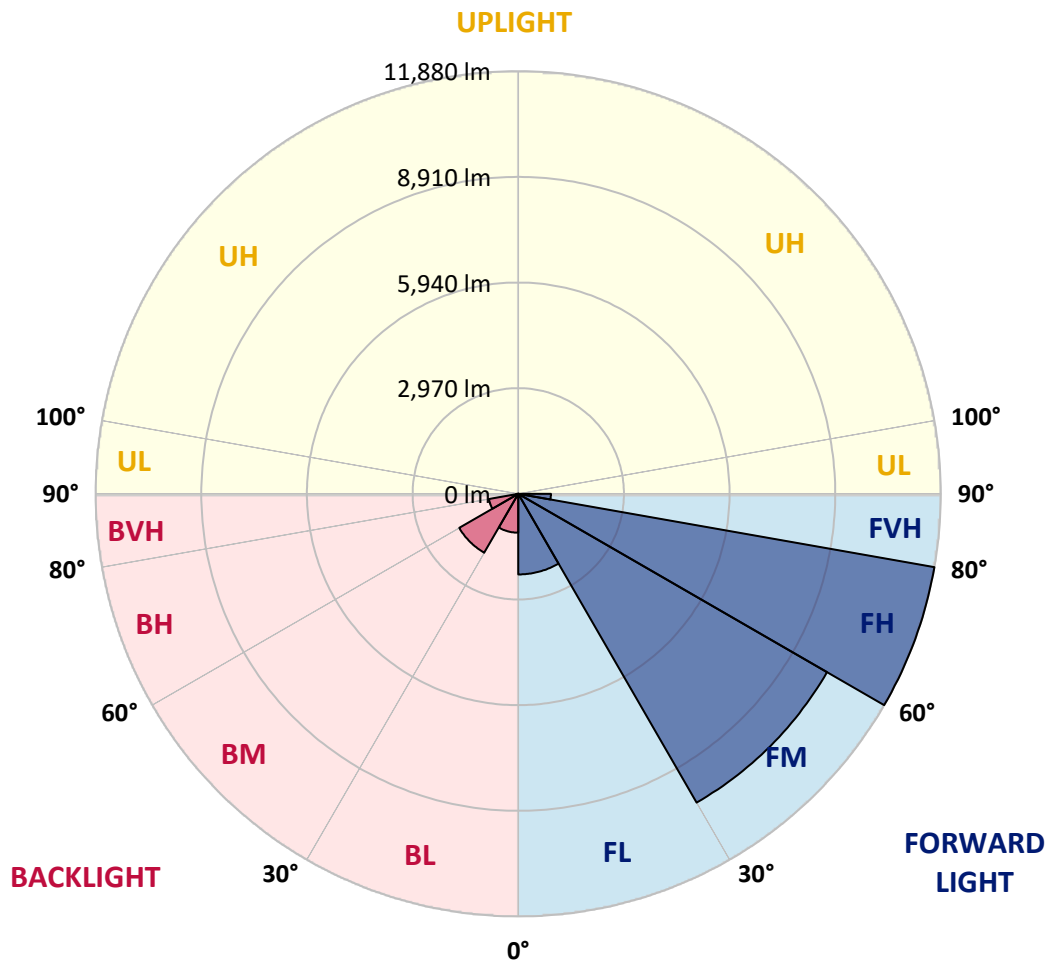
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.7	7.8			
FM (30°-60°)	10023.2	34.6			
FH (60°-80°)	11880.2	41.0			G4/12000
FVH (80°-90°)	918.0	3.2			G5
BL (0°-30°)	1093.3	3.8	B3/2500		
BM (30°-60°)	1912.8	6.6	B2/2500		
BH (60°-80°)	837.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.6	0.2			G1/100
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°	35°	38°	45°	55°	65°	75°	85°
0°	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9
2.5°	5296.4	5322.7	5309.6	5291.6	5280.1	5268.7	5252.3	5204.9	5167.2	5126.2	5062.4
5°	5335.7	5352.1	5340.7	5317.7	5291.6	5280.1	5249.0	5186.8	5126.2	5057.5	4962.6
7.5°	5312.8	5319.4	5306.3	5278.5	5255.6	5234.3	5198.3	5129.5	5055.8	4972.4	4848.0
10°	5231.0	5255.6	5255.6	5232.6	5209.7	5198.3	5162.3	5096.8	5029.7	4934.7	4787.5
12.5°	5163.9	5190.1	5211.3	5204.9	5203.2	5203.2	5175.3	5126.2	5047.7	4957.7	4782.5
15°	5118.1	5149.2	5195.0	5221.2	5237.6	5242.5	5231.0	5188.5	5108.2	5003.5	4802.2
17.5°	5108.2	5145.9	5229.3	5286.7	5329.2	5327.6	5324.3	5265.4	5177.0	5069.0	4826.8
20°	5152.5	5201.6	5317.7	5407.8	5469.9	5458.5	5440.5	5363.6	5260.5	5139.4	4849.6
22.5°	5285.0	5335.7	5463.4	5561.6	5622.2	5622.2	5568.2	5466.7	5357.0	5221.2	4880.7
25°	5474.9	5530.5	5666.4	5766.2	5794.1	5772.8	5718.8	5596.0	5469.9	5339.0	4946.3
27.5°	5707.3	5774.4	5900.5	5983.9	5975.7	5959.3	5903.7	5746.6	5620.6	5501.1	5057.5
30°	5997.0	6046.1	6177.1	6196.7	6167.2	6163.9	6085.4	5928.3	5810.4	5718.8	5216.3
32.5°	6270.3	6314.6	6419.3	6427.4	6375.1	6381.7	6308.0	6163.9	6096.8	6064.1	5483.1
35°	6560.1	6582.9	6673.0	6663.2	6628.8	6623.9	6594.4	6456.9	6478.2	6537.1	5861.2
37.5°	6802.3	6848.1	6898.8	6907.0	6905.4	6921.8	6941.4	6875.9	6998.7	7183.7	6357.1
40°	7024.9	7064.1	7139.4	7165.7	7229.5	7262.2	7329.3	7330.9	7614.1	7918.5	6967.6
42.5°	7175.5	7242.5	7383.3	7430.8	7586.2	7684.5	7784.3	7890.7	8301.5	8692.7	7687.7
45°	7306.4	7394.7	7628.8	7776.1	7987.3	8106.7	8317.9	8540.5	9131.3	9643.7	8419.3
47.5°	7504.4	7583.0	7851.4	8111.7	8430.9	8568.4	8884.2	9216.4	9989.0	10550.4	9119.9
50°	7779.4	7826.9	8100.2	8524.1	8931.7	9108.5	9525.8	10005.4	10905.6	11445.7	9735.3
52.5°	8131.3	8151.0	8368.6	8933.3	9470.2	9689.5	10242.7	10802.5	11707.6	12223.2	10223.0
55°	8547.1	8514.3	8684.5	9367.1	10085.6	10372.0	10966.1	11609.4	12609.4	12851.7	10578.3
57.5°	8957.8	8907.1	9042.9	9894.1	10845.0	11190.3	11882.7	12440.8	13414.7	13439.3	10827.0
60°	9393.2	9355.6	9517.6	10512.8	11776.4	12185.5	12825.5	13303.4	14193.8	13848.4	10866.3
62.5°	9840.0	9779.5	10010.3	11208.3	12825.5	13197.0	13817.3	14220.0	14958.1	14000.6	10488.2
65°	10273.8	10246.0	10602.8	12035.0	14020.3	14442.6	15044.9	15318.2	15570.3	13771.5	9550.4
67.5°	10735.4	10791.0	11360.6	13138.1	15578.4	16108.8	16758.5	16501.6	15745.4	12686.3	8042.9
70°	11439.1	11475.2	12355.7	14583.4	17586.7	18226.7	18540.9	16922.3	14900.8	10625.7	6046.1
72.5°	11742.0	11900.7	13244.5	16100.6	19868.4	20259.5	19140.0	15984.4	12413.0	7218.1	3176.9
73°	11674.8	11864.7	13285.4	16331.4	20046.7	20457.6	19012.3	15501.6	11539.0	6216.3	2723.5
75°	10838.5	11072.5	12753.4	16138.2	19699.8	19454.3	16959.9	13211.8	7797.4	2826.7	1240.6
77.5°	8552.0	8619.1	10105.2	13031.7	15513.0	15058.0	12692.9	8257.4	3185.1	1050.7	703.8
80°	4289.9	4537.0	5695.8	7465.1	10373.7	10224.7	8011.8	3905.3	1327.4	617.0	466.5
82.5°	2063.9	2239.1	2774.3	3640.1	5731.8	5596.0	3967.4	2134.3	842.9	360.1	275.0
85°	1329.0	1460.0	1766.0	1736.6	2356.9	2250.5	1782.4	1615.5	499.2	188.2	191.5
87.5°	877.3	960.8	1152.3	921.5	857.7	775.8	787.3	910.0	98.2	72.0	26.2
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°	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9	5091.9
2.5°	5036.2	5015.0	4944.6	4875.9	4810.4	4748.2	4707.2	4653.3	4617.3	4627.0	4641.8
5°	4910.2	4862.7	4738.4	4617.3	4502.6	4366.8	4257.1	4168.8	4101.6	4077.1	4072.2
7.5°	4777.6	4697.4	4519.0	4311.1	4116.4	3947.8	3753.0	3656.5	3543.6	3504.3	3491.2
10°	4697.4	4589.4	4339.0	4049.2	3756.3	3476.4	3265.3	3093.5	2937.9	2908.5	2893.7
12.5°	4674.5	4532.1	4195.0	3821.8	3432.2	3088.5	2775.9	2550.0	2399.5	2365.1	2314.3
15°	4661.4	4484.6	4060.8	3592.7	3098.3	2679.3	2350.3	2086.9	1949.4	1857.7	1859.4
17.5°	4650.0	4430.6	3910.1	3342.2	2810.3	2327.5	1964.1	1726.7	1600.8	1551.6	1546.7
20°	4633.6	4366.8	3736.6	3078.7	2481.3	2006.6	1677.6	1500.8	1415.7	1374.9	1373.2
22.5°	4627.0	4304.7	3566.4	2810.3	2190.0	1759.5	1487.8	1363.4	1309.4	1281.6	1281.6
25°	4643.4	4260.4	3388.1	2555.0	1931.4	1548.4	1356.9	1271.8	1240.6	1225.9	1221.0
27.5°	4694.1	4240.8	3211.3	2299.6	1694.0	1404.3	1268.5	1209.5	1186.7	1175.2	1176.8
30°	4790.8	4239.1	3037.8	2047.6	1517.2	1294.6	1198.1	1157.1	1139.1	1132.7	1131.0
32.5°	4946.3	4275.1	2867.6	1839.7	1368.3	1203.0	1132.7	1103.1	1095.0	1090.1	1088.4
35°	5209.7	4376.6	2699.0	1649.8	1253.8	1121.1	1070.4	1055.7	1044.3	1049.1	1050.7
37.5°	5564.9	4551.7	2538.6	1500.8	1167.0	1060.6	1018.0	1005.0	998.4	1003.3	1008.2
40°	6041.2	4803.8	2404.3	1381.4	1104.8	1009.9	972.2	960.8	954.2	962.4	964.0
42.5°	6566.6	5095.2	2293.1	1288.1	1054.0	967.3	931.3	918.2	913.3	918.2	919.9
45°	7106.7	5434.0	2235.8	1221.0	1011.5	936.2	898.6	883.8	872.4	869.1	874.1
47.5°	7638.6	5728.6	2234.1	1180.1	977.2	908.4	867.5	851.1	836.4	828.2	826.5
50°	8072.4	5962.6	2273.4	1162.1	947.6	877.3	836.4	820.0	800.4	784.0	787.3
52.5°	8399.7	6114.8	2291.5	1153.9	931.3	844.5	803.7	788.9	766.0	744.7	744.7
55°	8610.9	6150.8	2247.2	1145.7	918.2	810.2	766.0	752.9	730.0	708.7	708.7
57.5°	8682.9	6039.6	2088.5	1126.1	905.1	780.7	728.3	716.9	698.9	677.6	674.3
60°	8516.0	5663.1	1810.3	1067.1	878.9	749.7	687.4	682.6	676.0	658.0	656.3
62.5°	7872.7	4864.3	1507.4	990.2	834.8	716.9	649.8	658.0	662.9	653.0	651.4
65°	6802.3	3949.4	1288.1	883.8	775.8	671.0	608.9	630.2	643.2	643.2	640.0
67.5°	5517.5	3032.9	1085.1	792.2	702.2	608.9	563.0	579.4	589.2	585.9	594.2
70°	3921.6	2054.1	883.8	687.4	608.9	538.5	504.1	504.1	497.5	494.3	494.3
72.5°	1901.9	1173.5	716.9	574.5	518.8	459.9	432.1	420.7	407.5	406.0	397.7
73°	1589.2	1052.4	684.2	553.2	497.5	448.5	417.4	399.4	391.1	384.7	383.0
75°	967.3	798.7	571.2	466.5	423.9	386.3	358.4	342.1	333.9	329.0	327.3
77.5°	636.7	595.8	443.5	356.8	324.0	301.2	289.7	273.3	268.4	261.9	261.9
80°	474.7	455.0	317.6	252.0	232.5	212.8	209.5	206.2	193.1	184.9	181.7
82.5°	306.0	324.0	216.1	168.6	147.3	130.9	132.5	137.5	124.4	112.9	109.7
85°	217.7	234.1	130.9	77.0	62.2	54.0	60.6	54.0	55.7	44.2	36.0
87.5°	36.0	62.2	22.9	9.8	4.9	3.3	0.0	0.0	0.0	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)