

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: P651016

Luminaire Tested: **GALN-SA7C-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40817.9 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 - Short  
BUG Rating: B3 - U0 - G5

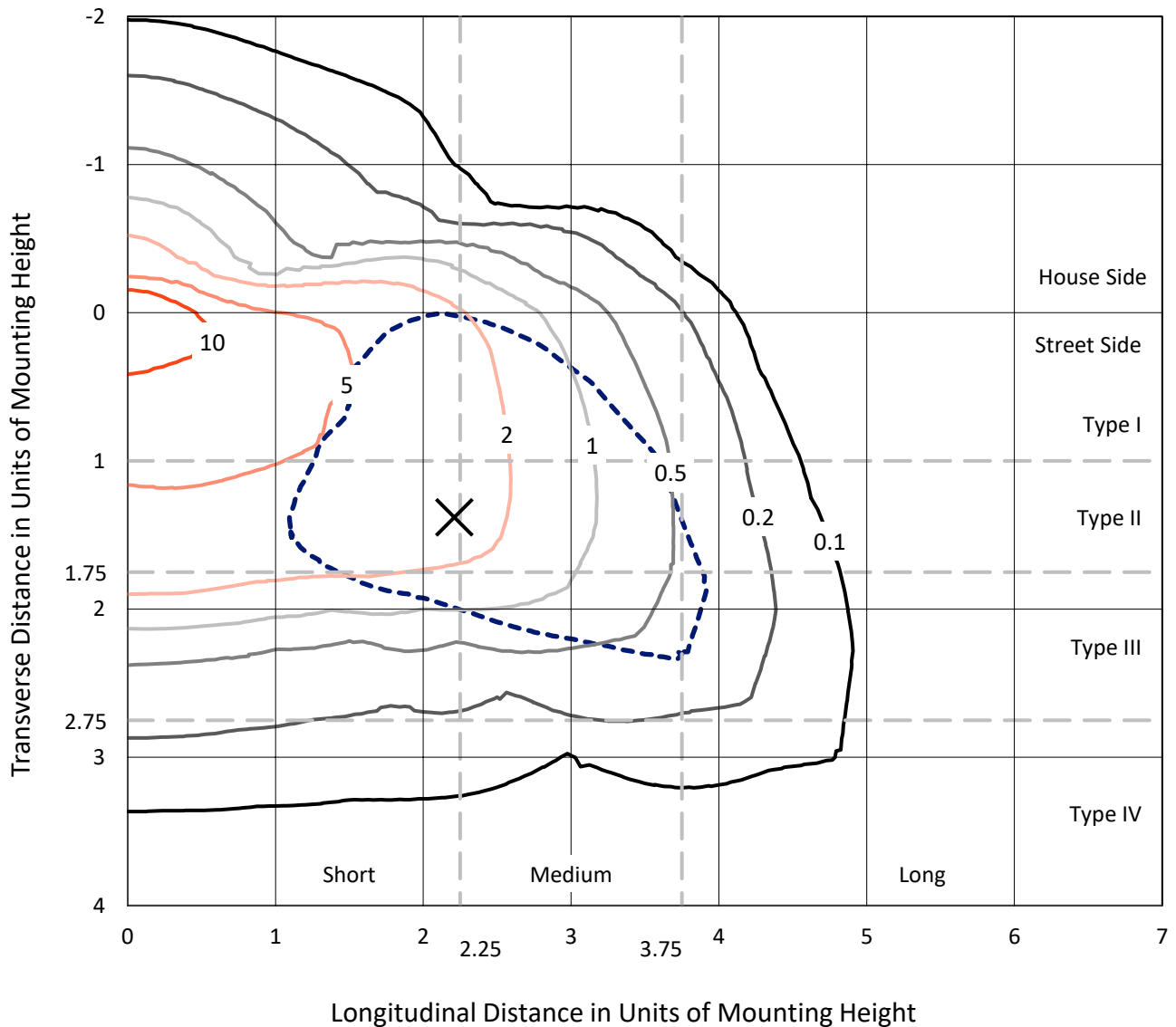
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

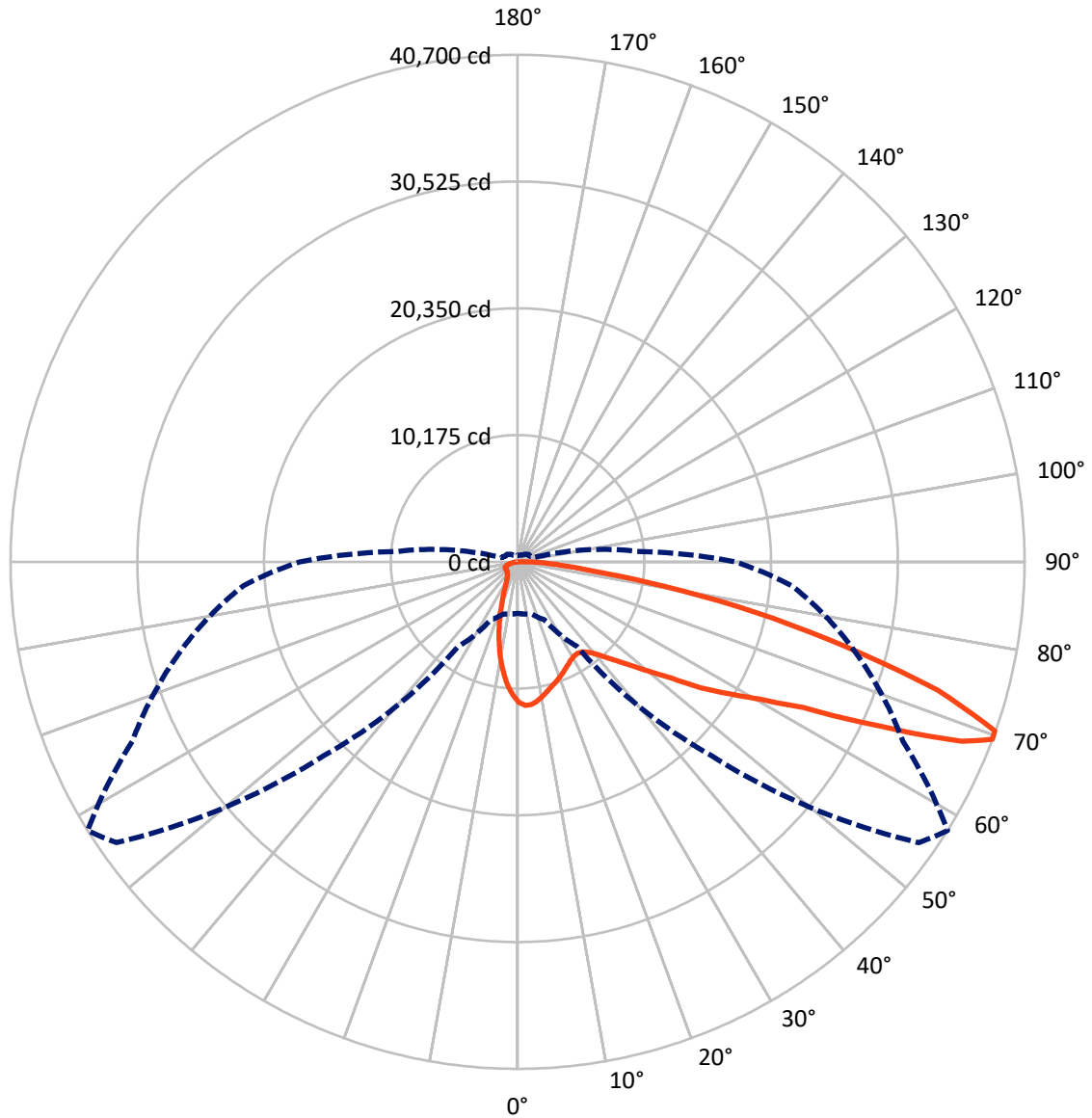
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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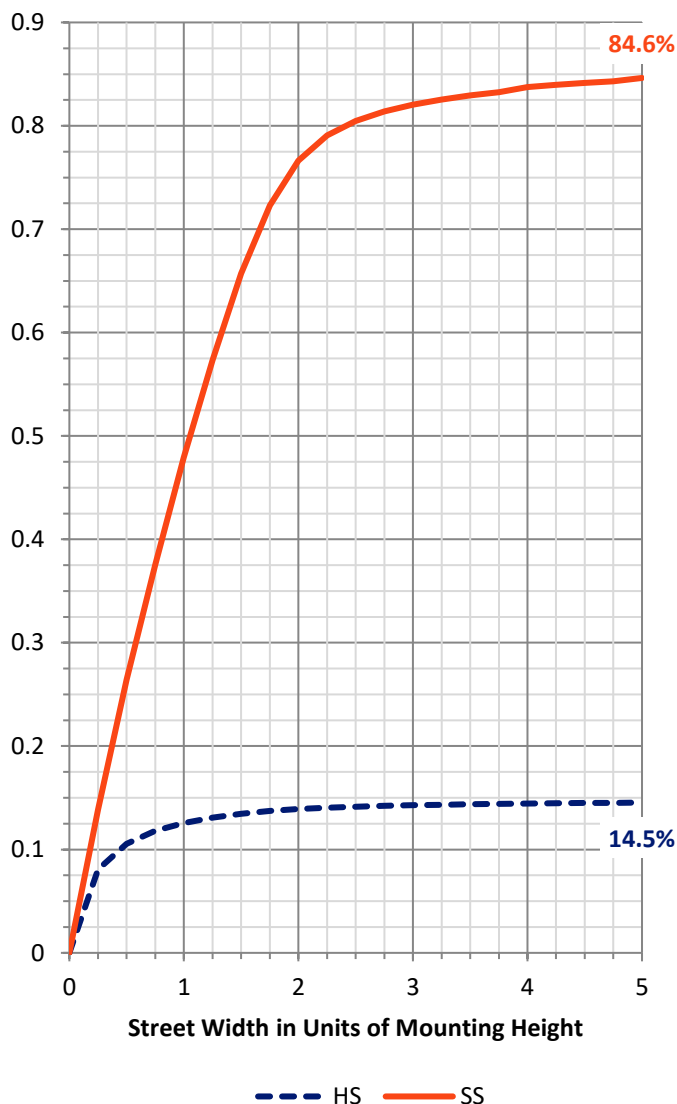
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5981.9	0.0	5981.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	34836.1	0.0	34836.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	40817.9	0.0	40817.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.9	2.3
10°-20°	2103.4	5.2
20°-30°	2717.7	6.7
30°-40°	3529.7	8.6
40°-50°	5131.7	12.6
50°-60°	8188.5	20.1
60°-70°	10938.8	26.8
70°-80°	6305.8	15.4
80°-90°	944.5	2.3
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°	40817.9	100.0
0°-180°	40817.9	100.0

**Coefficient of Utilization**



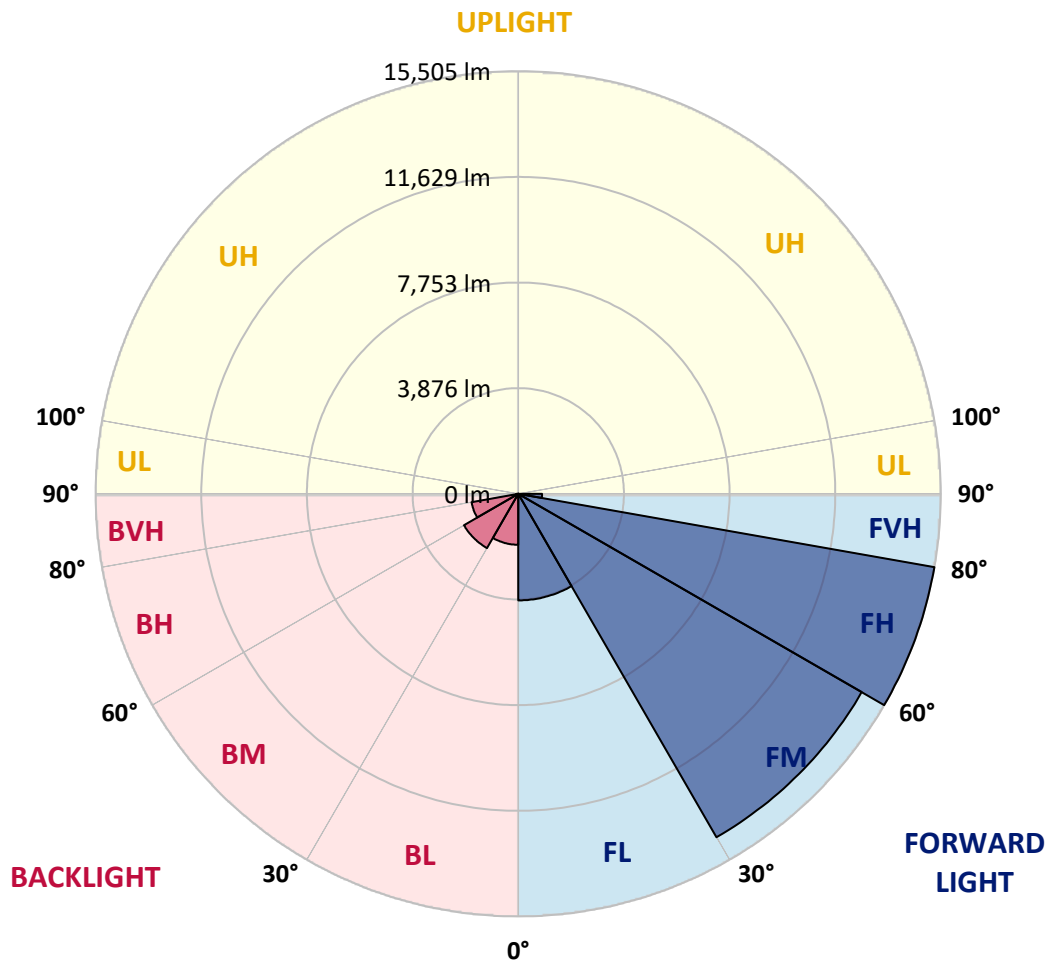
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3909.3	9.6			
FM (30°-60°)	14549.5	35.6			
FH (60°-80°)	15505.2	38.0			G5
FVH (80°-90°)	872.1	2.1			G5
BL (0°-30°)	1869.7	4.6	B3/2500		
BM (30°-60°)	2300.4	5.6	B2/2500		
BH (60°-80°)	1739.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	72.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7
2.5°	11698.6	11730.4	11721.4	11709.9	11691.8	11641.6	11559.7	11546.0	11493.7	11382.1	11243.2
5°	11518.7	11546.0	11548.3	11564.3	11587.0	11577.9	11518.7	11511.9	11434.5	11284.2	11052.1
7.5°	10901.8	10938.2	11017.9	11106.7	11186.4	11261.5	11279.7	11291.1	11243.2	11070.3	10760.7
10°	10207.5	10243.9	10280.3	10412.3	10608.1	10794.8	10949.6	10970.1	10981.4	10822.2	10444.2
12.5°	9438.0	9513.1	9590.6	9786.4	10048.1	10341.8	10614.9	10658.2	10735.6	10614.9	10171.1
15°	8784.7	8862.1	8973.6	9149.0	9465.4	9888.8	10273.5	10344.0	10496.6	10435.1	9916.1
17.5°	8331.7	8359.0	8436.4	8636.7	8978.2	9424.4	9938.9	10080.0	10323.6	10307.6	9697.6
20°	7974.3	8008.4	8056.3	8179.2	8534.3	9005.5	9627.0	9809.1	10139.2	10193.8	9481.3
22.5°	7824.1	7849.1	7842.3	7908.3	8149.6	8623.1	9310.5	9526.8	9975.3	10116.5	9281.0
25°	7833.2	7855.9	7821.8	7805.8	7949.3	8286.2	8980.5	9256.0	9843.2	10064.1	9098.9
27.5°	7985.7	8001.6	7937.9	7874.1	7885.6	8076.8	8707.3	9012.4	9731.7	10086.9	8946.4
30°	8190.6	8220.2	8179.2	8101.8	8017.6	8026.7	8532.0	8832.5	9679.3	10166.5	8873.5
32.5°	8454.7	8482.0	8463.7	8402.3	8293.0	8172.3	8488.8	8766.5	9683.9	10328.2	8857.6
35°	8732.4	8787.0	8816.6	8812.1	8723.3	8513.9	8659.5	8889.5	9793.2	10599.0	8950.9
37.5°	9046.6	9092.1	9219.5	9301.5	9219.5	8975.9	9044.2	9203.6	10034.5	10990.6	9155.8
40°	9351.6	9419.9	9606.5	9861.5	9829.6	9615.7	9631.6	9736.3	10460.2	11573.3	9556.5
42.5°	9670.2	9752.2	10077.7	10455.6	10530.7	10364.6	10407.8	10501.1	11065.7	12381.5	10243.9
45°	10080.0	10177.9	10578.5	11049.7	11345.7	11243.2	11366.2	11411.7	11876.1	13433.2	11149.9
47.5°	10608.1	10722.0	11215.9	11803.3	12222.2	12315.4	12529.5	12502.1	12880.0	14678.4	12324.6
50°	11498.2	11562.0	12028.7	12627.4	13203.3	13624.4	13856.6	13899.9	14125.2	15889.4	13638.1
52.5°	12556.8	12613.7	12950.6	13474.2	14195.8	15088.1	15661.8	15520.7	15575.3	17364.5	15174.7
55°	13747.3	13842.9	14056.9	14405.2	15340.8	16654.3	17806.2	17840.4	17234.8	18776.0	16647.5
57.5°	14669.3	14831.0	15197.4	15693.6	16879.7	18395.8	19943.7	19966.5	19192.5	20283.0	18272.8
60°	14204.9	14396.2	15233.9	16442.6	18898.9	21434.8	22497.9	22368.2	21097.9	21999.4	20255.7
62.5°	12201.6	12235.8	13453.6	15343.1	19520.4	25500.5	26299.6	25750.9	23640.7	24175.6	22270.3
65°	7896.9	8120.0	9085.2	11732.7	17478.4	27756.4	32960.4	31692.4	27205.6	26645.6	23957.1
67.5°	4985.4	4928.4	5329.1	6699.5	12021.8	25769.2	38644.6	38444.3	31867.7	28204.9	23554.1
69°	4134.0	4197.8	4334.3	5135.7	8272.5	22001.7	39316.2	40700.2	34128.2	28082.0	22090.5
70°	3749.3	3778.9	3922.3	4552.8	6383.1	18427.7	38214.4	40638.7	35016.0	27567.5	21029.6
72.5°	2975.3	2973.0	3218.8	3787.9	4771.4	10519.4	31378.2	35282.3	34023.4	25172.7	17376.0
75°	2260.5	2296.9	2567.8	3205.2	4395.7	5748.0	21896.9	27171.4	27173.7	19882.3	10842.6
77.5°	1629.9	1652.6	1969.1	2690.7	4140.8	4659.8	14585.0	19488.5	18320.7	9110.2	3407.8
80°	1067.6	1081.3	1322.6	2130.8	3733.4	4395.7	8648.2	11928.5	8641.3	2417.5	1126.9
82.5°	585.0	653.4	808.1	1379.5	2995.8	4061.1	5256.2	6037.1	3241.6	1076.7	587.4
85°	293.7	311.8	455.3	805.8	1957.8	3360.0	3660.5	3462.5	1673.2	535.0	305.0
87.5°	86.5	109.2	189.0	311.8	794.5	1750.5	2037.4	1828.0	644.2	193.5	63.7
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°	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7	11279.7
2.5°	11186.4	11145.4	10963.3	10799.4	10649.1	10489.8	10355.5	10237.1	10248.4	10250.8	10130.1
5°	10931.4	10838.1	10492.1	10168.8	9895.6	9549.6	9253.7	9062.4	8966.8	8839.3	8884.9
7.5°	10585.4	10405.5	9925.2	9388.0	8884.9	8436.4	7949.3	7614.7	7400.6	7193.5	7220.8
10°	10228.0	9938.9	9240.0	8529.8	7878.7	7161.6	6540.2	6007.5	5611.4	5463.4	5365.5
12.5°	9861.5	9481.3	8593.5	7648.8	6749.6	5891.4	5010.4	4439.1	4002.0	3769.8	3799.4
15°	9526.8	9064.7	7919.7	6767.8	5600.0	4577.9	3699.2	3155.1	2850.1	2786.3	2822.7
17.5°	9217.3	8611.8	7289.1	5911.9	4548.3	3432.9	2779.5	2472.2	2349.2	2315.1	2312.8
20°	8898.5	8227.0	6581.2	4996.7	3544.4	2661.2	2281.0	2137.6	2114.8	2128.5	2130.8
22.5°	8575.3	7751.2	5852.7	4088.4	2822.7	2176.3	1994.2	1955.4	1973.7	2005.5	2010.1
25°	8277.1	7332.3	5151.5	3291.7	2253.6	1912.2	1823.5	1823.5	1864.4	1912.2	1914.5
27.5°	8031.2	6927.1	4452.7	2613.3	1887.1	1720.9	1691.4	1707.3	1764.2	1800.7	1802.9
30°	7828.6	6549.3	3792.5	2094.3	1659.5	1568.5	1561.7	1589.0	1629.9	1664.1	1666.4
32.5°	7676.1	6216.9	3175.6	1759.7	1502.4	1452.3	1450.1	1470.6	1493.4	1502.4	1511.5
35°	7616.9	5941.5	2611.1	1547.9	1397.7	1365.9	1365.9	1363.6	1372.7	1377.2	1381.8
37.5°	7664.7	5729.7	2174.0	1411.4	1320.3	1297.6	1283.9	1270.2	1265.7	1265.7	1268.0
40°	7867.3	5618.2	1848.4	1322.6	1265.7	1231.6	1206.5	1190.6	1174.6	1179.2	1183.7
42.5°	8297.6	5638.7	1627.7	1263.4	1217.9	1170.1	1133.7	1115.4	1104.1	1117.7	1115.4
45°	8982.8	5843.6	1486.5	1222.5	1170.1	1108.6	1074.5	1056.3	1056.3	1076.7	1083.5
47.5°	9941.1	6235.1	1411.4	1190.6	1133.7	1060.8	1026.7	1013.0	1017.5	1051.7	1054.0
50°	11111.2	6915.8	1397.7	1174.6	1115.4	1026.7	988.0	974.3	985.7	1022.2	1026.7
52.5°	12402.0	7792.2	1463.8	1176.9	1099.5	1006.2	956.1	935.6	947.0	976.6	985.7
55°	13931.8	8889.5	1634.5	1186.0	1076.7	994.8	933.3	887.8	901.5	922.0	924.3
57.5°	15493.3	10273.5	1935.0	1188.3	1058.6	974.3	894.7	835.4	835.4	849.1	856.0
60°	17401.0	11780.5	2331.1	1190.6	1060.8	944.7	842.3	776.2	767.2	774.0	776.2
62.5°	19295.0	13041.6	2397.1	1183.7	1083.5	915.1	785.3	717.0	701.1	698.9	694.3
65°	20130.4	12807.2	1964.6	1151.8	1108.6	896.9	739.8	660.2	632.9	623.8	623.8
67.5°	18769.1	10833.5	1477.4	1108.6	1092.7	878.7	696.6	612.3	580.5	562.3	562.3
69°	17489.8	9636.1	1327.2	1079.0	1051.7	849.1	669.3	587.4	548.6	528.1	521.3
70°	16501.8	8812.1	1263.4	1054.0	1013.0	814.9	648.7	569.1	525.9	503.1	498.5
72.5°	13169.1	6913.5	1106.3	958.4	862.8	685.2	575.9	512.2	471.2	446.2	439.3
75°	7589.6	3747.0	917.4	833.2	694.3	532.7	487.2	446.2	414.3	391.6	384.8
77.5°	2335.6	1447.8	664.7	657.9	509.9	412.0	389.3	373.3	350.5	325.6	321.0
80°	983.4	737.6	450.7	443.9	339.2	286.9	280.0	277.7	268.6	248.1	241.3
82.5°	539.5	416.5	314.1	273.2	204.9	166.2	173.0	175.3	168.5	147.9	134.3
85°	264.1	227.7	152.6	123.0	93.4	59.2	56.9	68.3	63.7	45.5	50.0
87.5°	52.4	63.7	41.0	18.2	9.1	0.0	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)