

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: P650961

Luminaire Tested: **GALN-SA6C-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650961  
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-SA6C-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 34751 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

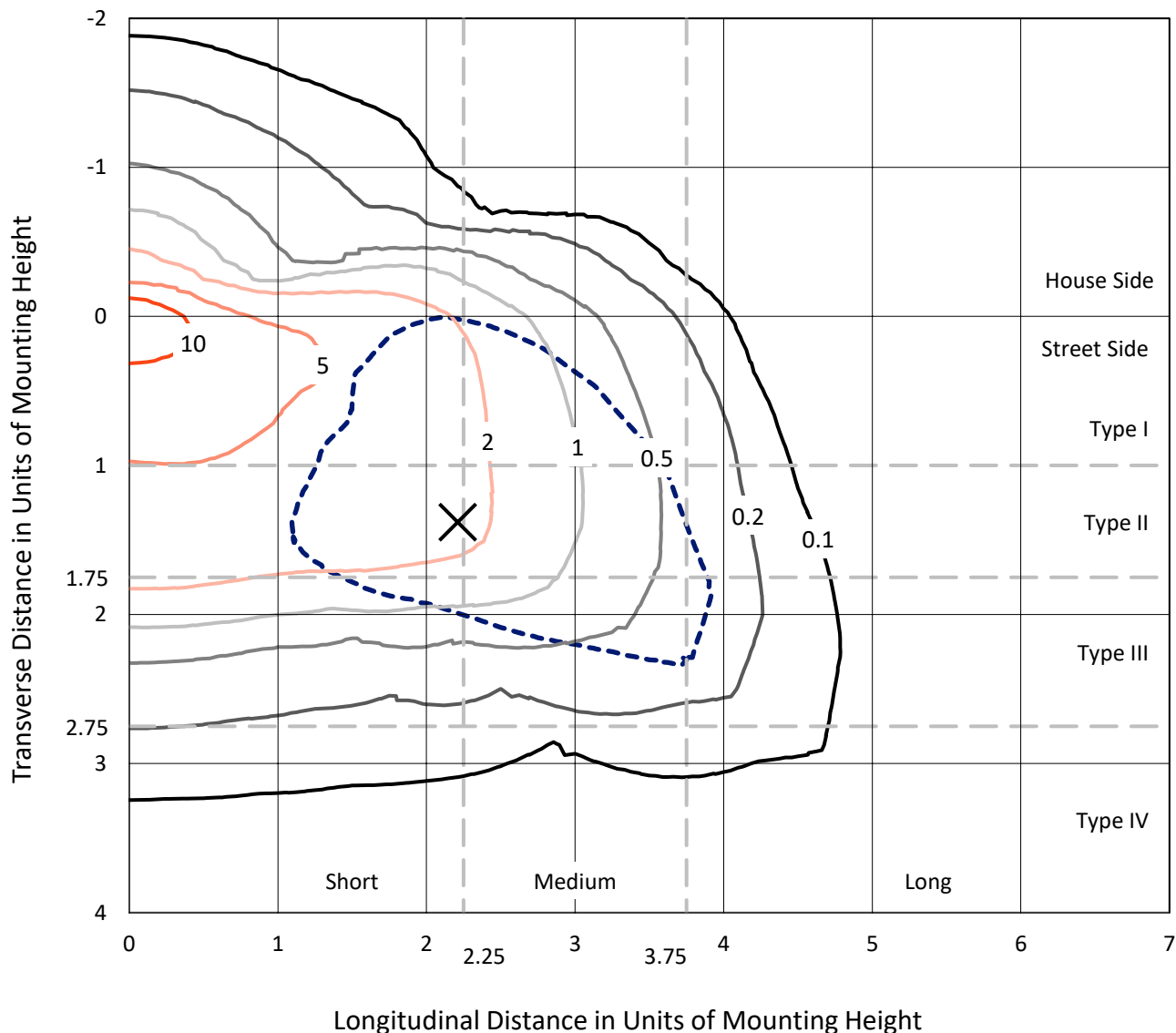
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

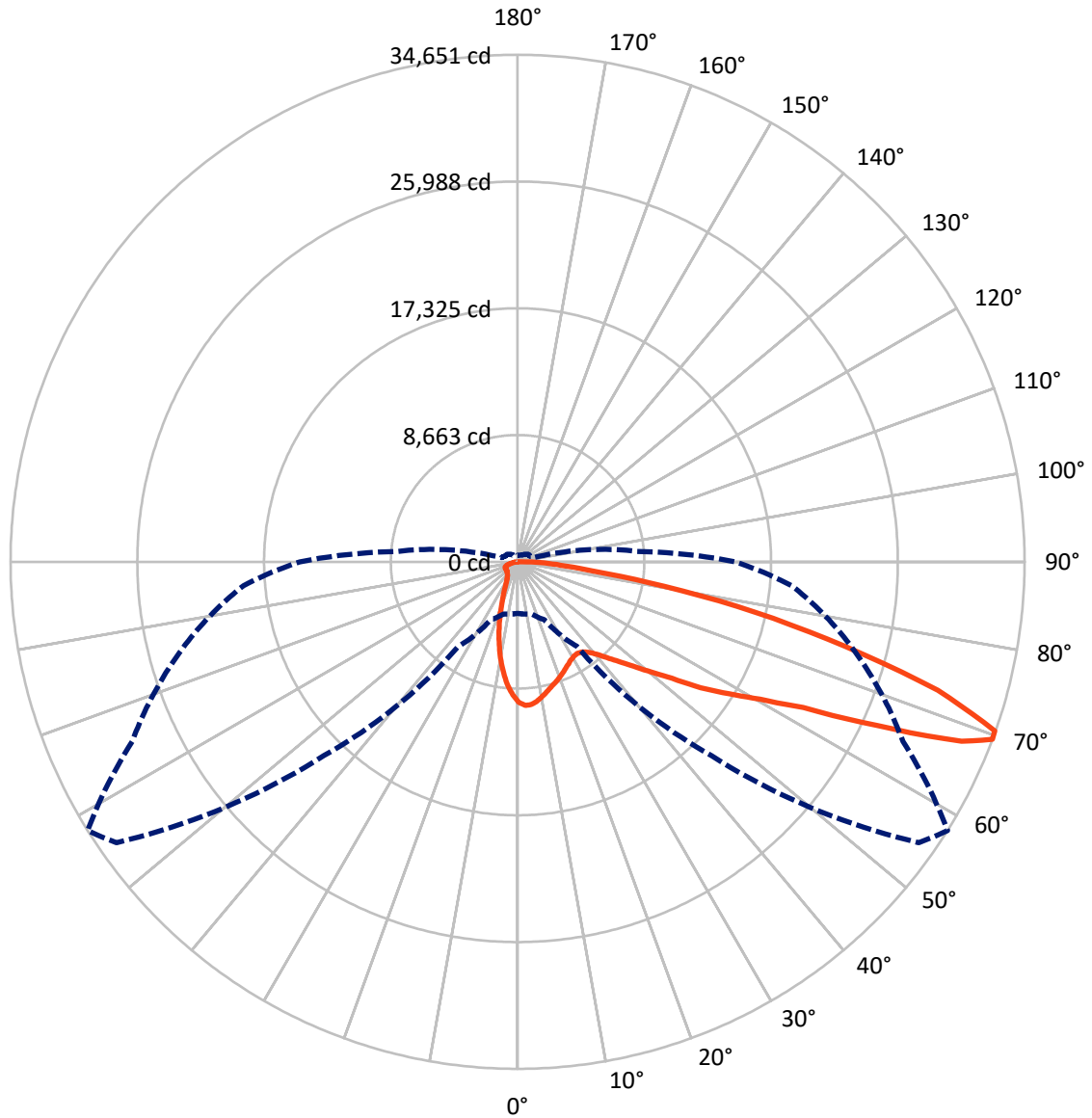
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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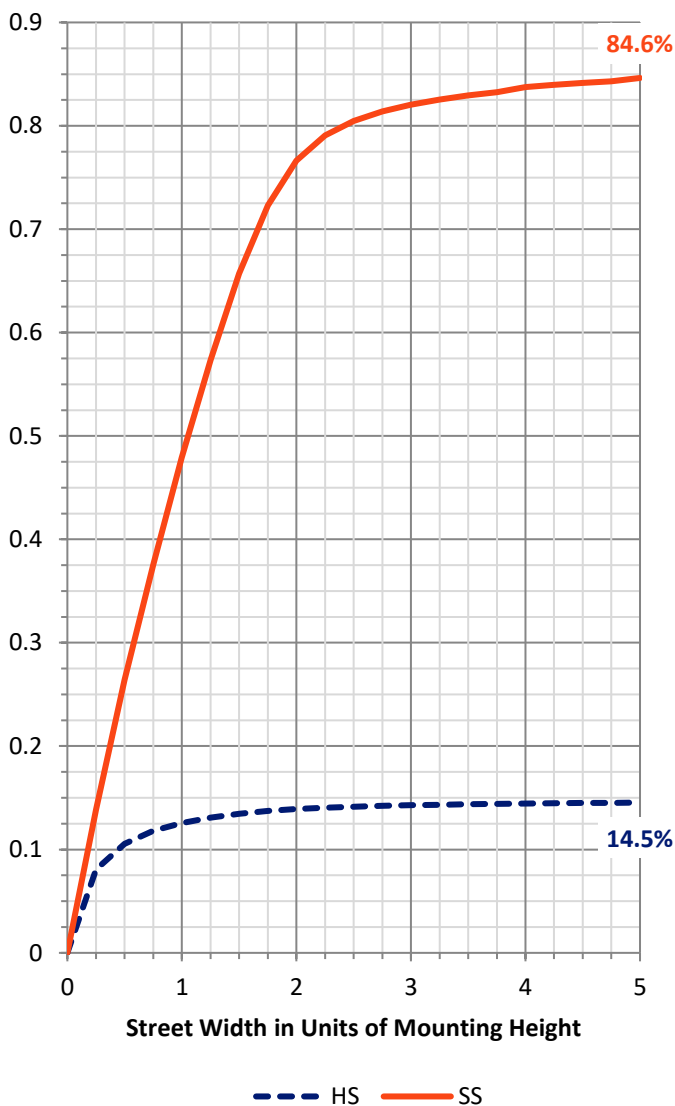
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5092.7	0.0	5092.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	29658.2	0.0	29658.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	34751.0	0.0	34751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	815.5	2.3
10°-20°	1790.8	5.2
20°-30°	2313.7	6.7
30°-40°	3005.1	8.6
40°-50°	4368.9	12.6
50°-60°	6971.4	20.1
60°-70°	9312.9	26.8
70°-80°	5368.5	15.4
80°-90°	804.1	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°	34751.0	100.0
0°-180°	34751.0	100.0

**Coefficient of Utilization**

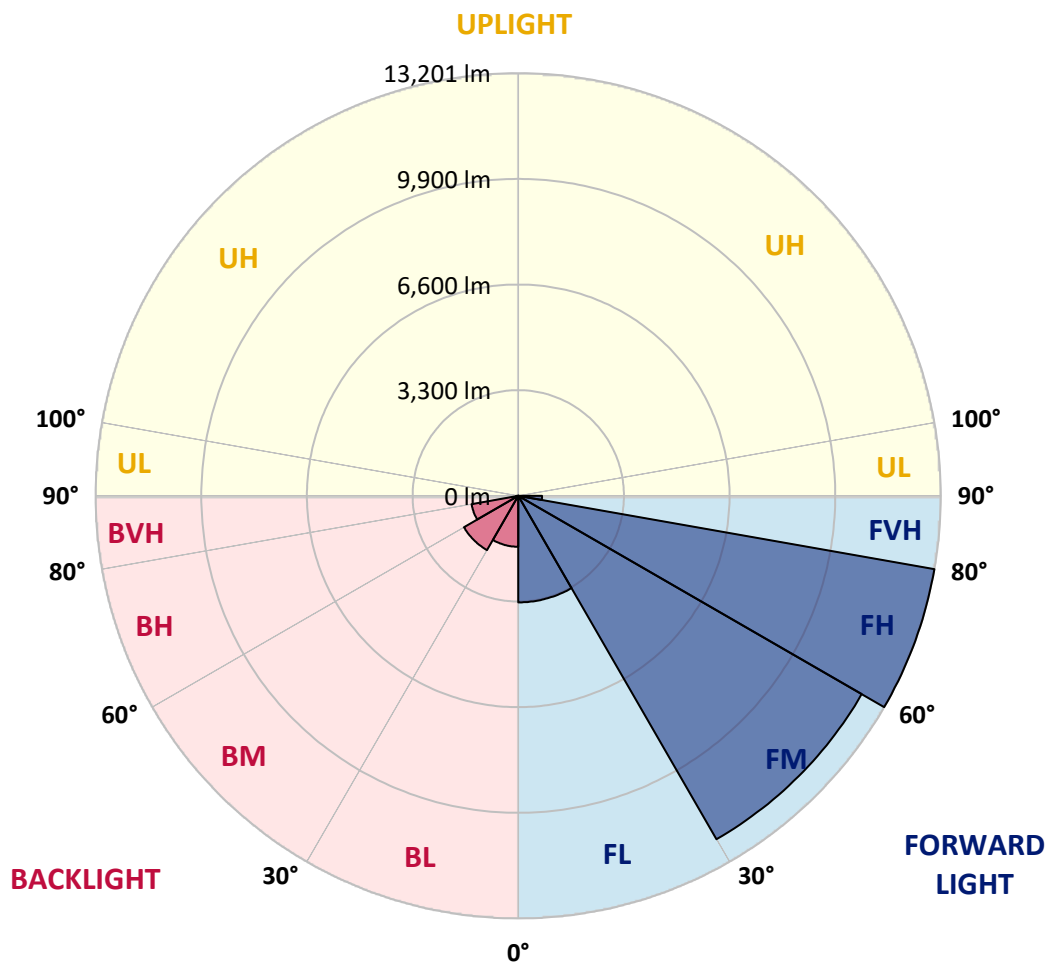


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3328.3	9.6			
FM (30°-60°)	12386.9	35.6			
FH (60°-80°)	13200.6	38.0			G5
FVH (80°-90°)	742.5	2.1			G4/750
BL (0°-30°)	1591.8	4.6	B3/2500		
BM (30°-60°)	1958.5	5.6	B2/2500		
BH (60°-80°)	1480.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	61.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1
2.5°	9959.7	9986.9	9979.1	9969.5	9953.9	9911.3	9841.6	9829.9	9785.3	9690.3	9572.1
5°	9806.6	9829.9	9831.8	9845.4	9864.8	9857.0	9806.6	9800.8	9734.9	9607.0	9409.4
7.5°	9281.4	9312.4	9380.3	9455.9	9523.7	9587.7	9603.1	9612.8	9572.1	9424.8	9161.3
10°	8690.3	8721.3	8752.3	8864.7	9031.4	9190.4	9322.1	9339.6	9349.2	9213.6	8891.9
12.5°	8035.3	8099.2	8165.1	8331.8	8554.7	8804.7	9037.2	9074.1	9139.9	9037.2	8659.3
15°	7479.0	7544.9	7639.9	7789.1	8058.5	8419.0	8746.5	8806.6	8936.5	8884.1	8442.2
17.5°	7093.3	7116.6	7182.5	7353.0	7643.8	8023.6	8461.6	8581.7	8789.1	8775.6	8256.2
20°	6789.1	6818.2	6858.9	6963.5	7265.8	7667.0	8196.1	8351.1	8632.2	8678.7	8072.1
22.5°	6661.1	6682.5	6676.6	6732.9	6938.2	7341.4	7926.7	8110.9	8492.6	8612.8	7901.5
25°	6668.9	6688.3	6659.2	6645.7	6767.7	7054.6	7645.7	7880.2	8380.2	8568.2	7746.5
27.5°	6798.7	6812.4	6758.0	6703.8	6713.5	6876.3	7413.1	7672.8	8285.3	8587.6	7616.6
30°	6973.2	6998.4	6963.5	6897.5	6825.9	6833.6	7263.9	7519.7	8240.7	8655.4	7554.6
32.5°	7198.0	7221.2	7205.8	7153.4	7060.4	6957.7	7227.0	7463.5	8244.6	8793.0	7541.0
35°	7434.4	7480.9	7506.2	7502.2	7426.7	7248.4	7372.4	7568.2	8337.6	9023.7	7620.5
37.5°	7701.9	7740.6	7849.1	7918.9	7849.1	7641.8	7699.9	7835.6	8543.0	9357.0	7794.9
40°	7961.6	8019.7	8178.6	8395.7	8368.6	8186.4	8200.0	8289.1	8905.4	9853.2	8136.0
42.5°	8232.9	8302.7	8579.8	8901.6	8965.5	8824.0	8860.9	8940.3	9421.0	10541.2	8721.3
45°	8581.7	8665.1	9006.2	9407.4	9659.3	9572.1	9676.8	9715.6	10110.9	11436.5	9492.6
47.5°	9031.4	9128.3	9548.9	10048.9	10405.5	10484.9	10667.2	10643.9	10965.6	12496.7	10492.7
50°	9789.2	9843.5	10240.8	10750.5	11240.8	11599.3	11797.0	11833.9	12025.7	13527.7	11610.9
52.5°	10690.4	10738.8	11025.7	11471.4	12085.8	12845.5	13333.9	13213.8	13260.3	14783.6	12919.2
55°	11704.0	11785.4	11967.6	12264.1	13060.6	14178.9	15159.6	15188.6	14673.1	15985.2	14173.1
57.5°	12488.9	12626.5	12938.5	13361.1	14370.8	15661.5	16979.5	16998.8	16339.9	17268.2	15556.9
60°	12093.6	12256.3	12969.6	13998.7	16089.8	18248.9	19153.9	19043.4	17962.0	18729.5	17245.0
62.5°	10388.0	10417.1	11454.0	13062.6	16618.9	21710.2	22390.5	21923.4	20126.8	20582.3	18960.1
65°	6723.1	6913.1	7734.8	9988.8	14880.5	23630.8	28061.3	26981.8	23161.9	22685.1	20396.3
67.5°	4244.4	4195.9	4537.0	5703.7	10235.0	21938.9	32900.7	32730.1	27131.0	24012.7	20053.2
69°	3519.5	3573.8	3690.1	4372.3	7043.0	18731.4	33472.4	34650.7	29055.5	23908.0	18807.0
70°	3192.0	3217.2	3339.3	3876.2	5434.4	15688.7	32534.3	34598.4	29811.3	23470.0	17903.9
72.5°	2533.1	2531.2	2740.4	3225.0	4062.2	8955.8	26714.4	30038.2	28966.4	21431.2	14793.3
75°	1924.5	1955.5	2186.2	2728.8	3742.4	4893.6	18642.3	23132.8	23134.7	16927.1	9231.0
77.5°	1387.6	1407.1	1676.4	2290.8	3525.4	3967.2	12417.2	16591.8	15597.6	7756.1	2901.3
80°	909.0	920.6	1126.0	1814.0	3178.4	3742.4	7362.7	10155.5	7356.9	2058.3	959.3
82.5°	498.1	556.2	688.0	1174.5	2550.5	3457.5	4475.0	5139.8	2759.8	916.7	500.1
85°	250.0	265.5	387.6	686.1	1666.8	2860.6	3116.4	2947.8	1424.5	455.5	259.7
87.5°	73.7	93.0	160.9	265.5	676.4	1490.3	1734.6	1556.3	548.5	164.8	54.2
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°	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1	9603.1
2.5°	9523.7	9488.8	9333.8	9194.2	9066.3	8930.7	8816.3	8715.5	8725.2	8727.1	8624.4
5°	9306.6	9227.1	8932.6	8657.3	8424.8	8130.2	7878.2	7715.4	7634.1	7525.5	7564.3
7.5°	9012.0	8858.9	8449.9	7992.6	7564.3	7182.5	6767.7	6482.8	6300.7	6124.3	6147.5
10°	8707.7	8461.6	7866.6	7262.0	6707.6	6097.2	5568.1	5114.5	4777.3	4651.4	4568.1
12.5°	8395.7	8072.1	7316.2	6511.9	5746.4	5015.7	4265.7	3779.2	3407.1	3209.4	3234.7
15°	8110.9	7717.4	6742.5	5761.9	4767.6	3897.4	3149.4	2686.2	2426.5	2372.2	2403.2
17.5°	7847.2	7331.8	6205.7	5033.1	3872.3	2922.6	2366.4	2104.8	2000.1	1971.1	1969.1
20°	7575.9	7004.2	5603.0	4254.0	3017.6	2265.6	1942.0	1819.8	1800.5	1812.1	1814.0
22.5°	7300.7	6599.2	4982.8	3480.7	2403.2	1852.8	1697.7	1664.8	1680.3	1707.4	1711.4
25°	7046.8	6242.5	4385.8	2802.5	1918.7	1628.0	1552.4	1552.4	1587.3	1628.0	1629.9
27.5°	6837.5	5897.5	3790.9	2224.9	1606.6	1465.2	1440.0	1453.6	1502.0	1533.0	1534.9
30°	6665.0	5575.8	3228.9	1783.0	1412.9	1335.3	1329.5	1352.7	1387.6	1416.7	1418.7
32.5°	6535.2	5292.8	2703.6	1498.2	1279.2	1236.5	1234.6	1252.0	1271.3	1279.2	1286.9
35°	6484.8	5058.4	2222.9	1317.8	1190.0	1162.9	1162.9	1160.9	1168.7	1172.5	1176.4
37.5°	6525.5	4878.1	1850.9	1201.6	1124.1	1104.7	1093.0	1081.4	1077.6	1077.6	1079.5
40°	6698.0	4783.2	1573.7	1126.0	1077.6	1048.5	1027.2	1013.6	1000.0	1003.9	1007.8
42.5°	7064.2	4800.6	1385.7	1075.6	1036.9	996.2	965.1	949.7	940.0	951.6	949.7
45°	7647.6	4975.0	1265.5	1040.7	996.2	943.9	914.8	899.3	899.3	916.7	922.5
47.5°	8463.6	5308.4	1201.6	1013.6	965.1	903.1	874.1	862.4	866.3	895.4	897.3
50°	9459.7	5887.8	1190.0	1000.0	949.7	874.1	841.1	829.5	839.1	870.2	874.1
52.5°	10558.6	6634.0	1246.2	1002.0	936.1	856.6	814.0	796.5	806.3	831.4	839.1
55°	11861.0	7568.2	1391.5	1009.7	916.7	847.0	794.6	755.8	767.5	784.9	786.8
57.5°	13190.5	8746.5	1647.4	1011.6	901.2	829.5	761.7	711.2	711.2	722.9	728.7
60°	14814.6	10029.5	1984.6	1013.6	903.1	804.3	717.1	660.9	653.1	658.9	660.9
62.5°	16427.1	11103.2	2040.8	1007.8	922.5	779.1	668.6	610.5	596.9	595.0	591.1
65°	17138.3	10903.6	1672.6	980.7	943.9	763.6	629.9	562.0	538.7	531.0	531.0
67.5°	15979.3	9223.2	1257.8	943.9	930.3	748.1	593.1	521.3	494.2	478.7	478.7
69°	14890.2	8203.9	1129.9	918.6	895.4	722.9	569.8	500.1	467.1	449.6	443.8
70°	14049.1	7502.2	1075.6	897.3	862.4	693.8	552.4	484.5	447.7	428.3	424.5
72.5°	11211.7	5885.9	941.9	815.9	734.5	583.3	490.3	436.1	401.2	379.9	374.1
75°	6461.5	3190.1	781.0	709.3	591.1	453.5	414.8	379.9	352.7	333.4	327.6
77.5°	1988.5	1232.7	565.9	560.1	434.1	350.8	331.4	317.8	298.5	277.1	273.2
80°	837.2	628.0	383.7	377.9	288.8	244.2	238.4	236.4	228.7	211.3	205.5
82.5°	459.4	354.6	267.4	232.5	174.4	141.5	147.3	149.2	143.4	126.0	114.4
85°	224.8	193.8	129.9	104.6	79.5	50.4	48.4	58.1	54.2	38.8	42.6
87.5°	44.6	54.2	34.9	15.5	7.7	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)