

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: P646997

Luminaire Tested: **GALN-SA6C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646997  
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-SA6C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA 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: 32583.8 lumens  
Efficiency: N/A  
Efficacy: 101.5 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): 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

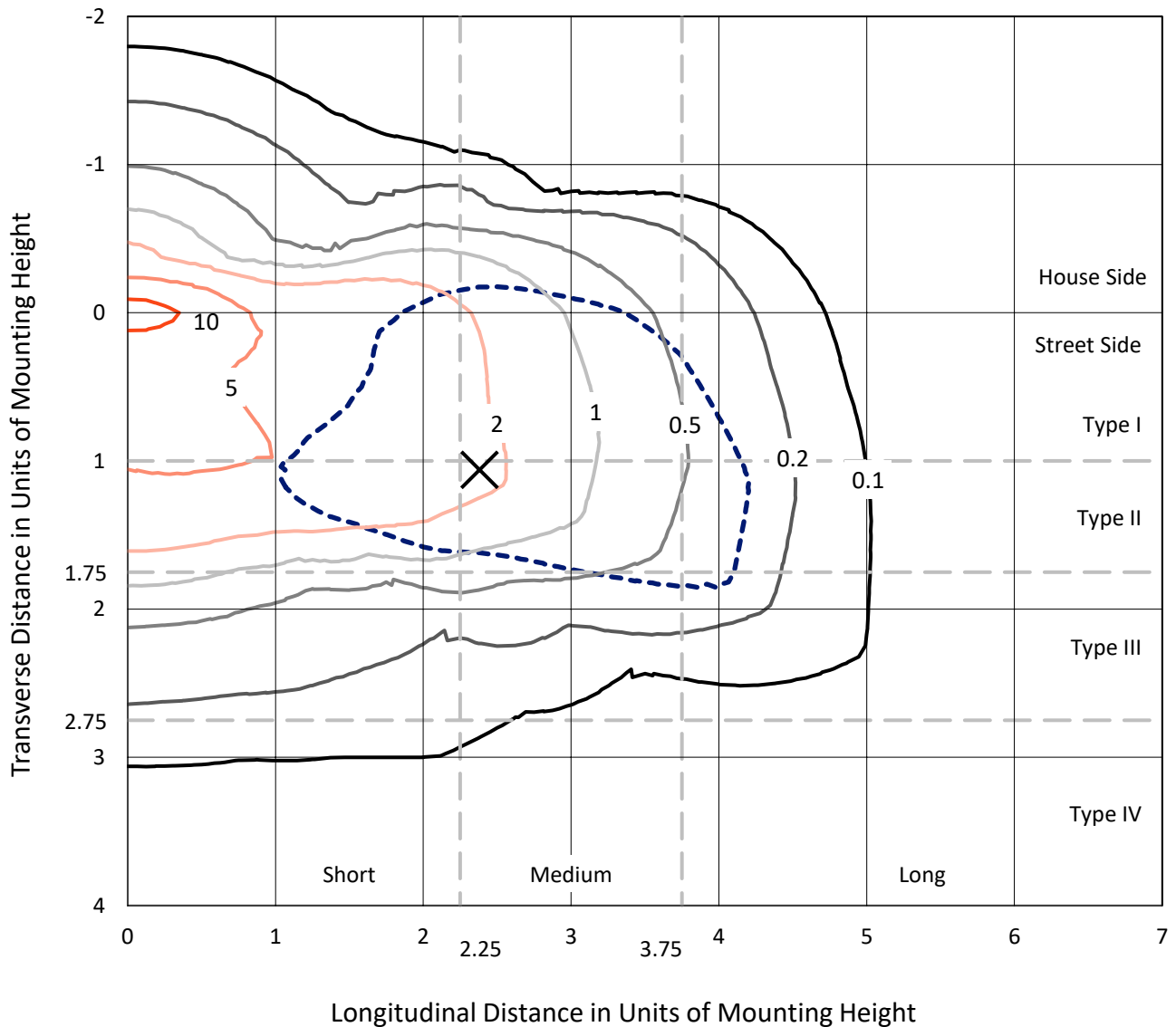




REPORT NUMBER: P646997  
 CATALOG NUMBER: GALN-SA6C-835-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

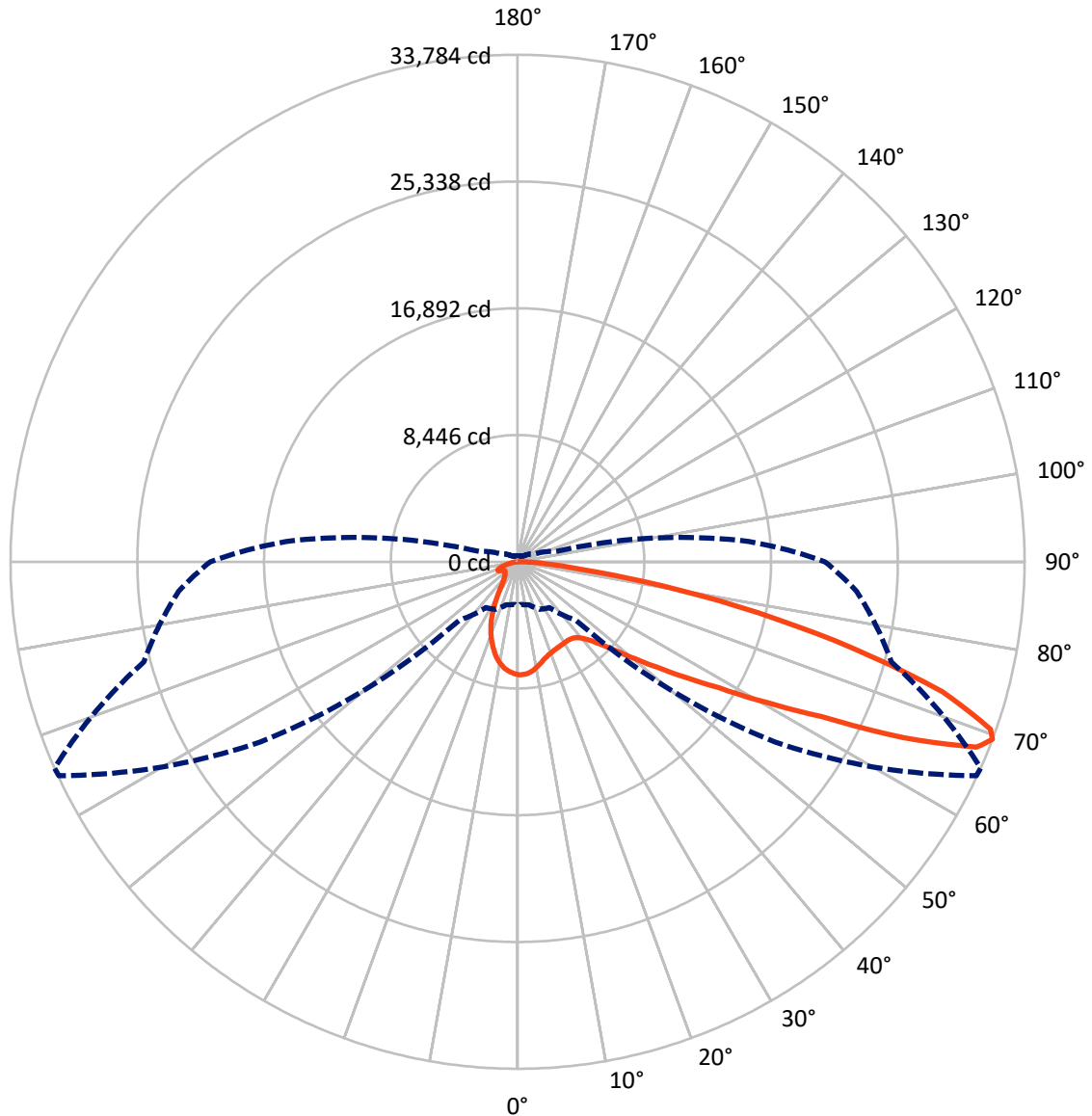
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P646997  
CATALOG NUMBER: GALN-SA6C-835-U-SL2

### Luminous Intensity Polar Plot



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

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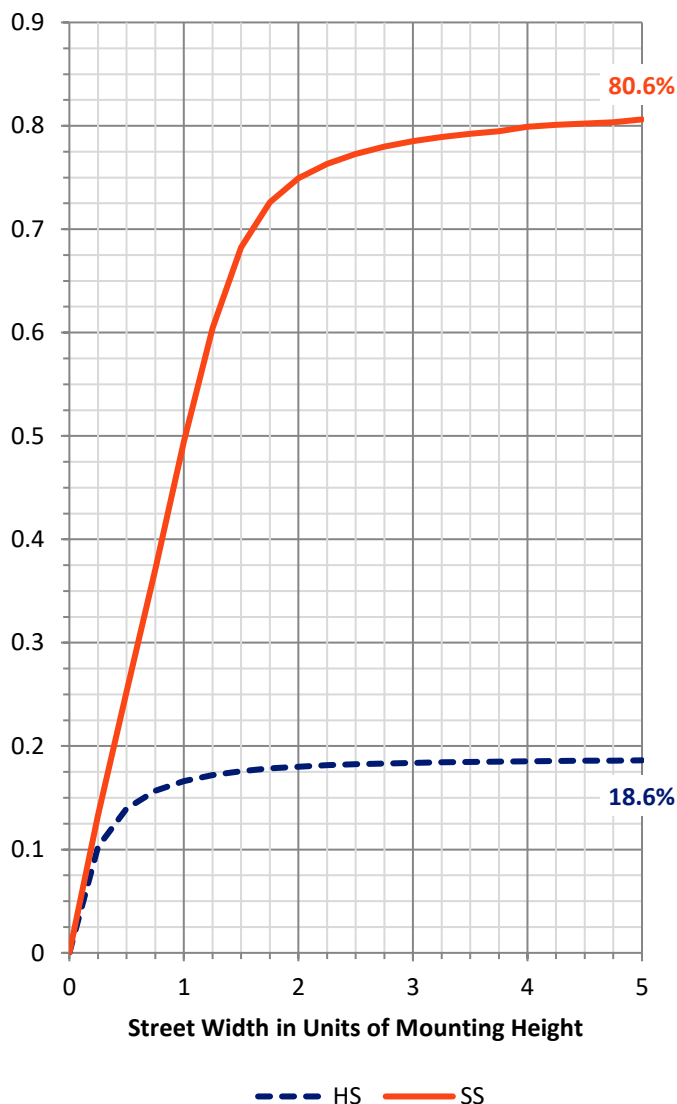
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6127.8	0.0	6127.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26456.0	0.0	26456.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32583.8	0.0	32583.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.4	2.0
10°-20°	1549.9	4.8
20°-30°	2109.9	6.5
30°-40°	2835.3	8.7
40°-50°	4233.6	13.0
50°-60°	6734.2	20.7
60°-70°	8282.7	25.4
70°-80°	5389.1	16.5
80°-90°	795.8	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°	32583.8	100.0
0°-180°	32583.8	100.0

**Coefficient of Utilization**

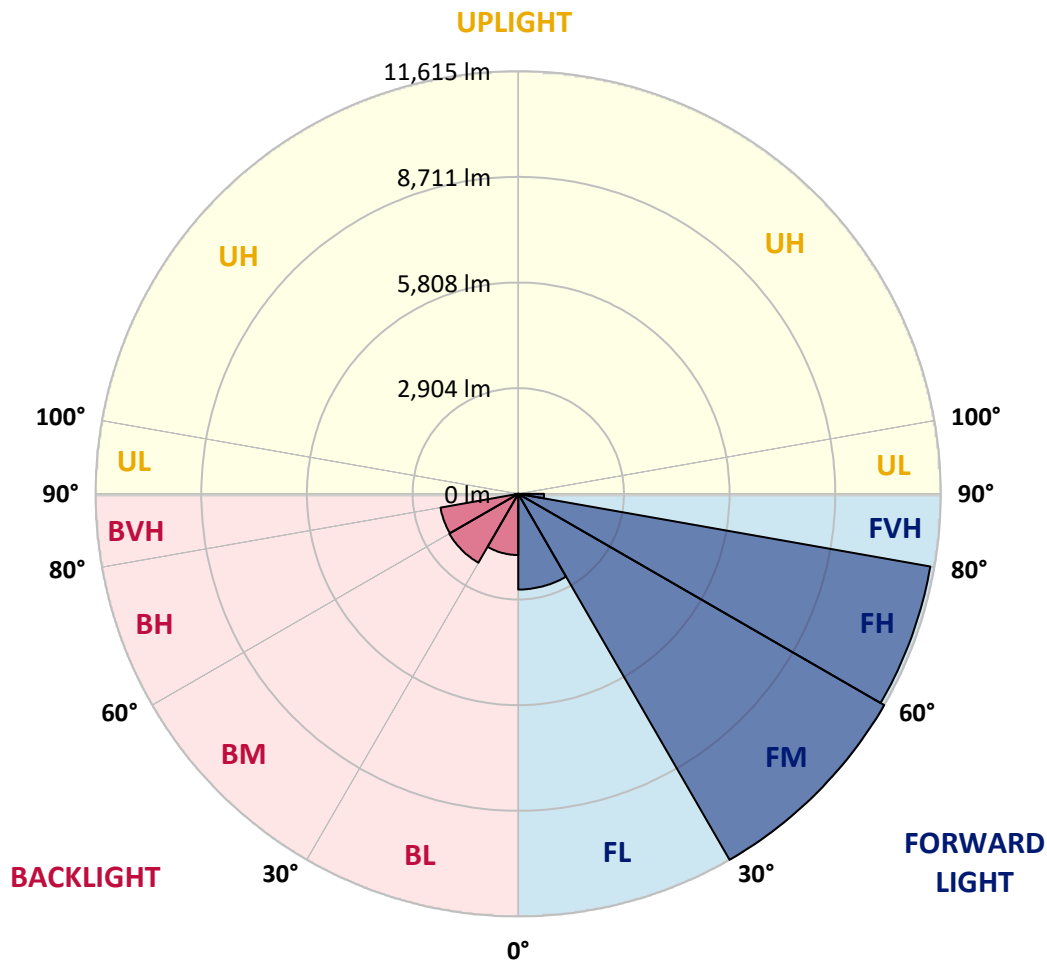


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.1	8.1			
FM (30°-60°)	11615.1	35.6			
FH (60°-80°)	11502.2	35.3			G4/12000
FVH (80°-90°)	707.5	2.2			G4/750
BL (0°-30°)	1682.1	5.2	B3/2500		
BM (30°-60°)	2187.9	6.7	B2/2500		
BH (60°-80°)	2169.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	88.3	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





REPORT NUMBER: P646997

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5
2.5°	7261.1	7289.9	7322.4	7358.5	7427.1	7465.0	7492.0	7522.7	7526.3	7542.6	7529.9
5°	6725.1	6759.4	6808.1	6876.7	6979.6	7140.2	7306.2	7441.5	7457.8	7533.6	7555.2
7.5°	6277.6	6297.5	6337.2	6447.2	6593.4	6772.0	7013.9	7288.1	7327.8	7508.3	7571.4
10°	5913.1	5932.9	5979.9	6093.5	6237.9	6461.7	6726.9	7087.8	7120.3	7430.7	7575.1
12.5°	5640.7	5658.7	5709.2	5821.1	5987.1	6196.4	6488.7	6871.3	6918.2	7327.8	7540.8
15°	5433.2	5467.5	5509.0	5601.0	5776.0	5978.1	6261.4	6672.8	6710.7	7219.6	7517.3
17.5°	5344.8	5361.0	5389.9	5474.7	5602.8	5801.2	6086.3	6517.6	6562.7	7143.8	7511.9
20°	5348.4	5364.6	5370.0	5417.0	5509.0	5680.4	5961.8	6394.9	6449.0	7077.0	7520.9
22.5°	5471.1	5472.9	5453.0	5436.8	5472.9	5615.4	5873.4	6302.9	6366.0	7048.1	7528.1
25°	5660.5	5693.0	5664.1	5588.3	5521.6	5590.2	5839.1	6252.3	6311.9	7006.6	7519.1
27.5°	5967.2	5972.6	5949.2	5846.3	5673.1	5622.6	5824.7	6214.5	6265.0	6976.0	7474.0
30°	6378.7	6362.4	6340.8	6227.1	5954.6	5747.1	5855.4	6180.2	6232.5	6930.8	7419.9
32.5°	6795.5	6846.0	6826.2	6692.6	6339.0	5988.9	5954.6	6176.6	6219.9	6896.6	7360.3
35°	7237.6	7261.1	7354.9	7286.3	6923.6	6380.5	6140.5	6232.5	6266.8	6898.4	7318.8
37.5°	7584.1	7647.2	7867.3	7926.9	7585.9	6898.4	6441.8	6391.3	6405.7	6986.8	7335.1
40°	8002.7	8110.9	8394.2	8637.8	8414.1	7571.4	6954.3	6685.4	6703.5	7199.7	7441.5
42.5°	8533.2	8608.9	8989.7	9319.9	9283.8	8461.0	7575.1	7167.2	7176.3	7623.8	7739.3
45°	9153.9	9262.2	9689.8	10186.0	10270.8	9467.9	8471.8	7896.2	7890.8	8282.3	8295.0
47.5°	9947.9	10014.6	10438.6	10980.0	11322.8	10732.8	9559.9	8942.8	8885.0	9242.3	9139.5
50°	10678.6	10783.3	11104.5	11696.4	12549.8	12214.3	10990.8	10299.7	10164.4	10498.2	10325.0
52.5°	10985.4	11095.5	11366.1	12100.6	13601.8	14130.6	12807.8	11918.3	11692.8	11949.0	11885.8
55°	10453.1	10595.6	10848.2	11741.5	14063.8	16341.0	15258.3	13789.5	13625.3	13515.2	13533.3
57.5°	9022.2	9157.5	9498.6	10483.7	13511.6	17945.1	18757.1	16194.8	15842.9	15335.9	15422.5
60°	6867.7	6952.5	7129.3	8221.0	11875.0	18361.9	22730.5	19235.3	19011.6	17149.3	17210.7
62.5°	4877.4	4973.0	5095.8	5640.7	8693.8	17187.2	25841.3	23481.2	22681.8	19027.8	18968.3
65°	3960.7	3895.7	4043.7	4298.2	5101.2	13320.3	26541.4	29374.4	28273.7	21501.6	20675.2
67.5°	3257.0	3188.5	3334.6	3787.5	3879.5	7732.0	24018.8	33199.8	32979.6	24192.0	22409.3
69°	2883.5	2847.4	2975.5	3491.6	3724.3	5490.9	20924.3	33732.1	33784.4	25778.2	22676.3
70°	2598.4	2612.8	2737.3	3341.8	3653.9	4527.3	17883.8	32997.7	33441.6	26570.3	22387.6
72.5°	1912.7	1943.4	2116.6	2768.0	3587.2	3841.6	10642.5	28822.2	29607.2	26617.2	20480.3
75°	1337.1	1322.6	1476.0	2084.1	3388.7	3807.3	6250.5	22290.2	23179.8	23006.6	17208.9
77.5°	875.2	898.6	1021.3	1472.4	2851.0	3778.5	4074.4	15814.1	16391.5	15386.4	10178.8
80°	617.1	615.3	683.9	1005.1	2114.8	3630.5	3336.4	9967.7	9821.6	6046.6	3018.9
82.5°	353.7	378.9	458.3	707.4	1414.6	3195.7	3069.4	4767.3	4352.3	1723.2	1019.5
85°	196.7	205.7	272.5	427.7	826.5	2407.1	2679.6	2168.9	2046.2	720.0	438.5
87.5°	63.2	68.6	113.7	216.5	375.3	1136.8	1517.5	1001.5	923.9	259.9	176.8
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°	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5	7524.5
2.5°	7535.4	7557.0	7499.3	7443.3	7392.8	7322.4	7259.3	7206.9	7170.8	7165.4	7147.4
5°	7560.6	7562.4	7452.3	7304.4	7160.0	7001.2	6837.0	6719.7	6609.6	6548.3	6517.6
7.5°	7578.7	7562.4	7363.9	7123.9	6846.0	6557.3	6268.6	6037.6	5859.0	5788.6	5815.7
10°	7571.4	7520.9	7230.4	6846.0	6441.8	6010.5	5595.6	5270.8	4973.0	4819.7	4823.3
12.5°	7531.7	7448.7	7031.9	6533.8	5940.2	5362.8	4727.6	4289.1	3944.5	3740.6	3677.4
15°	7497.5	7353.1	6799.1	6109.8	5371.8	4547.2	3773.0	3231.8	2943.1	2782.5	2780.7
17.5°	7461.4	7261.1	6544.7	5660.5	4718.6	3657.6	2845.6	2432.4	2297.0	2313.3	2286.2
20°	7423.5	7152.8	6279.4	5160.7	3922.8	2728.3	2131.0	1963.2	2001.1	2075.1	2085.9
22.5°	7380.2	7037.3	5994.3	4610.3	3085.6	2053.4	1728.6	1703.4	1800.8	1916.3	1932.5
25°	7313.4	6892.9	5635.3	4034.7	2380.1	1654.6	1513.9	1531.9	1627.6	1725.0	1735.8
27.5°	7219.6	6714.3	5272.6	3316.6	1788.2	1420.1	1384.0	1407.4	1454.3	1513.9	1528.3
30°	7093.2	6512.2	4855.8	2695.8	1432.7	1302.8	1288.3	1301.0	1328.0	1353.3	1360.5
32.5°	6966.9	6317.3	4435.3	2064.3	1277.5	1225.2	1210.8	1210.8	1210.8	1214.4	1216.2
35°	6849.6	6133.2	3984.2	1607.7	1196.3	1163.9	1144.0	1122.4	1118.8	1106.1	1106.1
37.5°	6784.7	5965.4	3504.2	1346.1	1136.8	1113.3	1086.3	1050.2	1030.3	1032.2	1028.5
40°	6797.3	5855.4	3067.6	1198.1	1088.1	1062.8	1021.3	979.8	967.2	967.2	963.6
42.5°	6939.9	5819.3	2648.9	1120.6	1041.2	1012.3	960.0	922.1	914.9	913.1	916.7
45°	7268.3	5907.7	2273.6	1070.0	1001.5	958.2	905.9	871.6	864.4	864.4	862.6
47.5°	7908.8	6194.6	2004.7	1037.6	972.6	916.7	862.6	828.3	815.6	812.0	812.0
50°	8904.9	6817.2	1804.4	1008.7	936.5	878.8	822.9	783.2	763.3	761.5	759.7
52.5°	10288.9	7788.0	1726.8	987.0	896.8	839.1	777.7	739.9	714.6	709.2	705.6
55°	11907.5	9143.1	1833.3	970.8	855.3	794.0	730.8	691.1	667.7	656.8	655.0
57.5°	13782.3	10770.7	2237.5	949.2	817.4	745.3	683.9	644.2	618.9	606.3	602.7
60°	15465.8	12443.4	2943.1	936.5	785.0	692.9	629.8	593.7	570.2	557.6	555.8
62.5°	17315.3	14038.5	3785.7	970.8	770.5	642.4	579.2	546.8	526.9	514.3	514.3
65°	19291.2	15635.4	4343.3	1086.3	792.2	602.7	525.1	498.0	480.0	471.0	469.2
67.5°	20622.9	16187.6	3578.2	1205.4	846.3	559.4	472.8	451.1	440.3	431.3	431.3
69°	20478.5	15489.3	2639.9	1236.0	862.6	537.7	443.9	427.7	413.2	409.6	406.0
70°	20022.0	14693.5	2212.2	1216.2	849.9	517.9	425.9	406.0	393.4	389.8	388.0
72.5°	17833.2	12742.9	1647.4	1057.4	723.6	449.3	377.1	359.1	348.3	342.9	342.9
75°	14816.2	10415.2	1286.5	840.9	566.6	378.9	323.0	308.6	299.5	295.9	294.1
77.5°	8304.0	5815.7	923.9	658.6	429.5	306.8	270.7	258.0	249.0	245.4	245.4
80°	2313.3	1661.9	543.2	434.9	292.3	232.8	214.7	205.7	193.1	184.1	189.5
82.5°	871.6	720.0	310.4	261.7	185.9	155.2	149.8	142.6	137.1	124.5	124.5
85°	424.1	350.1	198.5	138.9	102.9	81.2	77.6	74.0	70.4	61.4	63.2
87.5°	146.2	155.2	86.6	50.5	30.7	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)