

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: P458957

Luminaire Tested: **GALN-SA4D-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458957  
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-SA4D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA 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: 28256 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

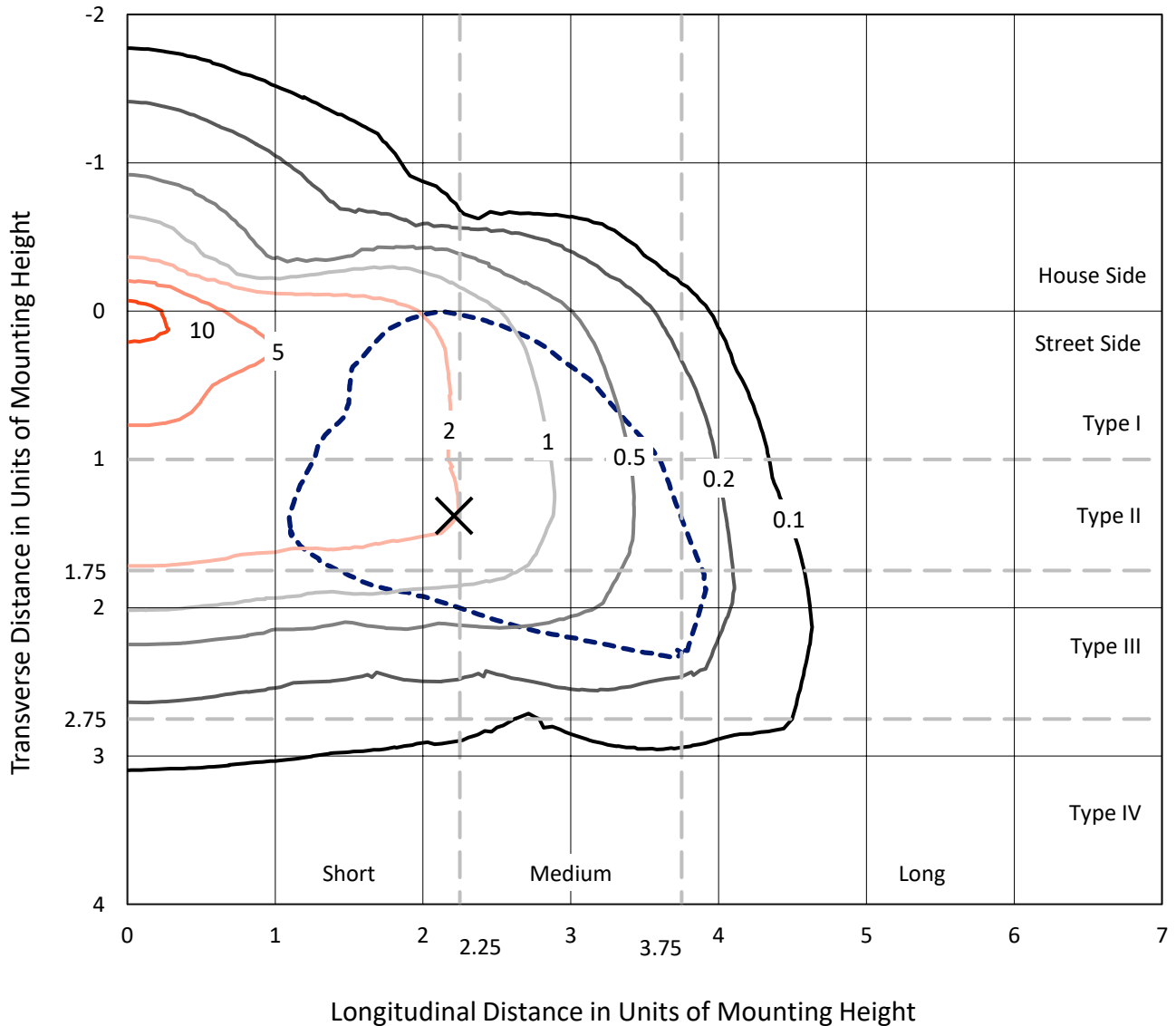
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

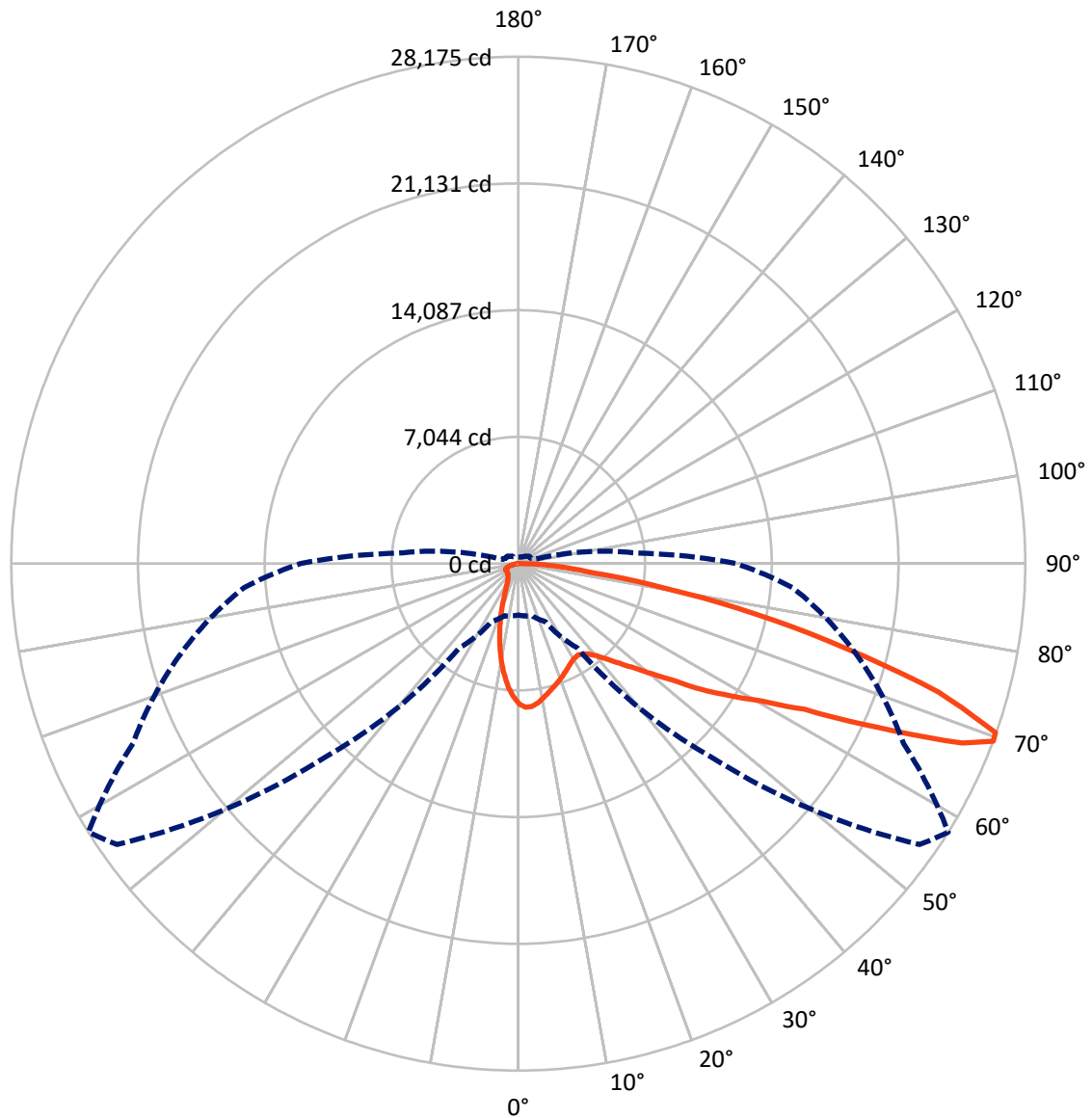
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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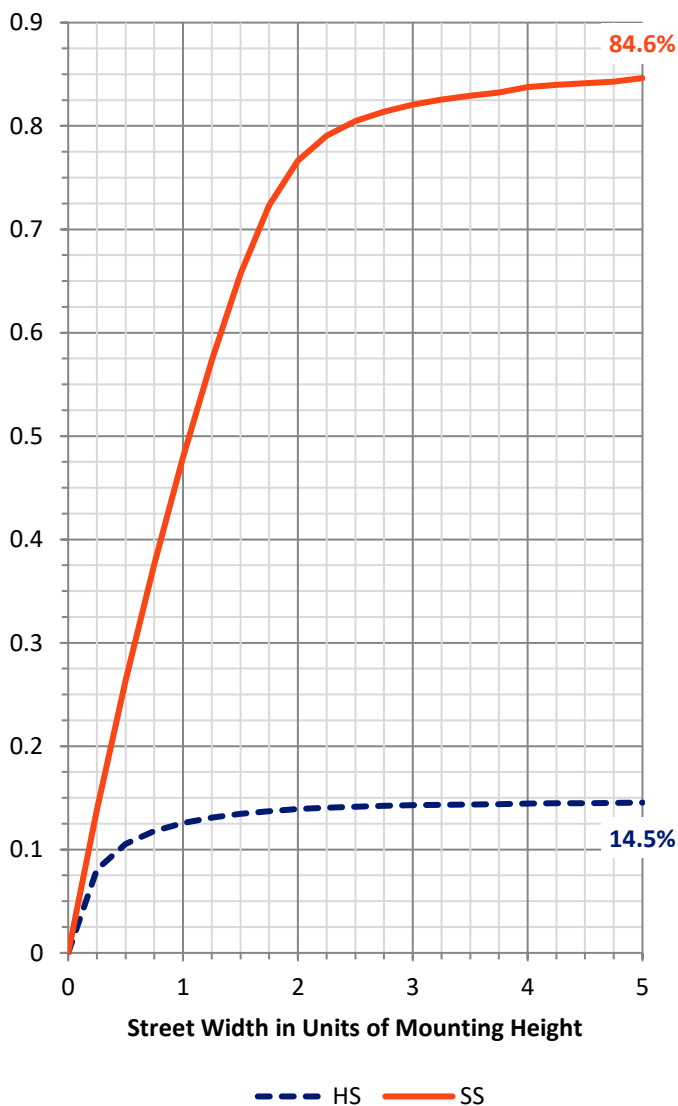
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4140.9	0.0	4140.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	24115.1	0.0	24115.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	28256.0	0.0	28256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.1	2.3
10°-20°	1456.1	5.2
20°-30°	1881.3	6.7
30°-40°	2443.4	8.6
40°-50°	3552.4	12.6
50°-60°	5668.4	20.1
60°-70°	7572.3	26.8
70°-80°	4365.1	15.4
80°-90°	653.8	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°	28256.0	100.0
0°-180°	28256.0	100.0

**Coefficient of Utilization**



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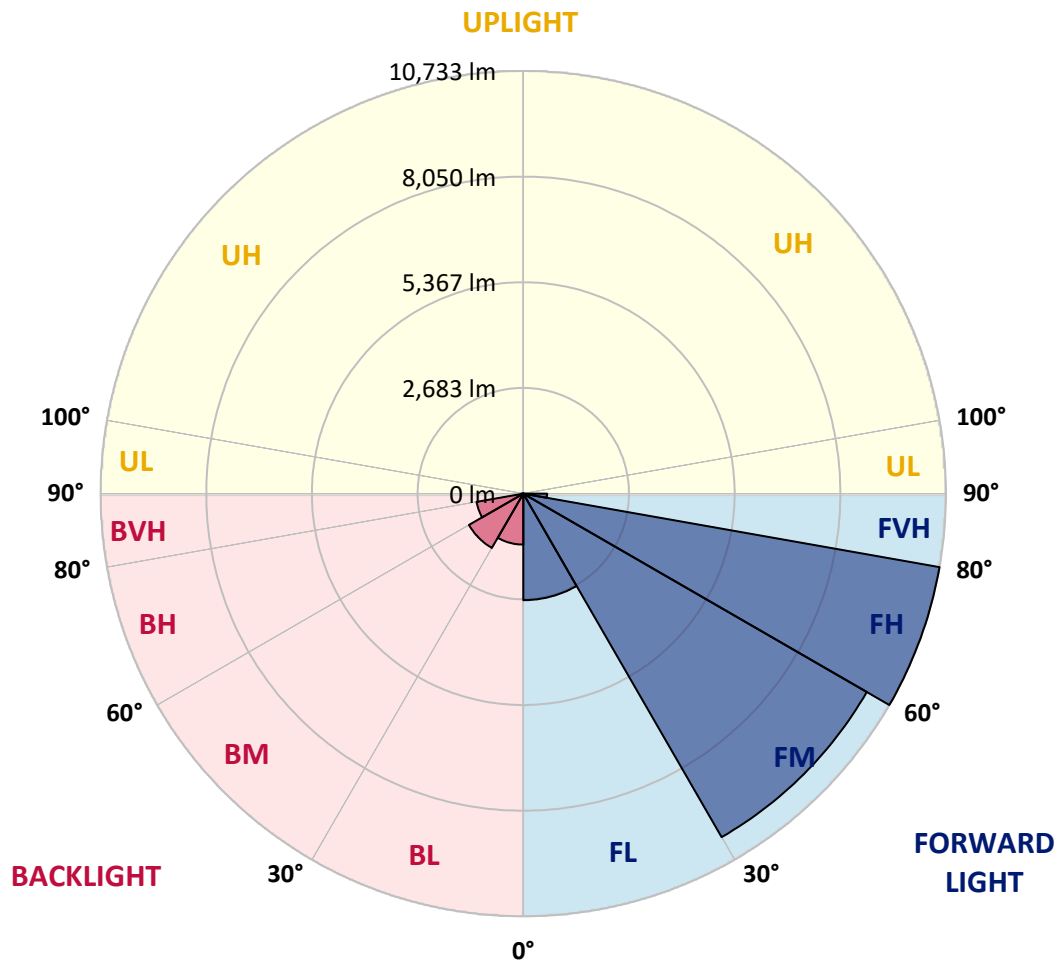
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2706.2	9.6			
FM	(30°-60°)	10071.8	35.6			
FH	(60°-80°)	10733.4	38.0			G4/12000
FVH	(80°-90°)	603.7	2.1			G4/750
BL	(0°-30°)	1294.3	4.6	B3/2500		
BM	(30°-60°)	1592.5	5.6	B2/2500		
BH	(60°-80°)	1204.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	50.1	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3
2.5°	8098.3	8120.3	8114.0	8106.1	8093.5	8058.9	8002.1	7992.7	7956.4	7879.2	7783.1
5°	7973.8	7992.7	7994.3	8005.3	8021.0	8014.7	7973.8	7969.0	7915.5	7811.5	7650.7
7.5°	7546.7	7571.9	7627.1	7688.5	7743.7	7795.7	7808.3	7816.2	7783.1	7663.3	7449.0
10°	7066.1	7091.3	7116.5	7207.9	7343.4	7472.6	7579.8	7594.0	7601.9	7491.6	7230.0
12.5°	6533.4	6585.4	6639.0	6774.6	6955.8	7159.1	7348.2	7378.1	7431.7	7348.2	7040.9
15°	6081.2	6134.8	6212.0	6333.3	6552.4	6845.5	7111.8	7160.6	7266.2	7223.7	6864.4
17.5°	5767.6	5786.5	5840.1	5978.7	6215.1	6524.0	6880.1	6977.8	7146.4	7135.4	6713.1
20°	5520.2	5543.8	5576.9	5662.0	5907.8	6234.0	6664.2	6790.3	7018.8	7056.6	6563.4
22.5°	5416.2	5433.5	5428.8	5474.5	5641.5	5969.3	6445.2	6594.9	6905.3	7003.0	6424.7
25°	5422.5	5438.2	5414.6	5403.6	5502.8	5736.1	6216.7	6407.4	6813.9	6966.8	6298.6
27.5°	5528.1	5539.1	5495.0	5450.8	5458.7	5591.1	6027.6	6238.8	6736.7	6982.6	6193.1
30°	5669.9	5690.4	5662.0	5608.4	5550.1	5556.4	5906.3	6114.3	6700.5	7037.7	6142.6
32.5°	5852.7	5871.6	5859.0	5816.4	5740.8	5657.3	5876.3	6068.6	6703.6	7149.6	6131.6
35°	6044.9	6082.8	6103.2	6100.1	6038.6	5893.7	5994.5	6153.7	6779.3	7337.1	6196.2
37.5°	6262.4	6293.9	6382.2	6438.9	6382.2	6213.6	6260.8	6371.1	6946.3	7608.2	6338.0
40°	6473.6	6520.8	6650.1	6826.6	6804.5	6656.4	6667.4	6739.9	7241.0	8011.6	6615.4
42.5°	6694.2	6750.9	6976.3	7237.8	7289.9	7174.8	7204.8	7269.4	7660.2	8571.0	7091.3
45°	6977.8	7045.6	7322.9	7649.1	7854.0	7783.1	7868.2	7899.7	8221.2	9299.1	7718.5
47.5°	7343.4	7422.2	7764.2	8170.7	8460.7	8525.3	8673.4	8654.5	8916.1	10161.0	8531.6
50°	7959.6	8003.7	8326.8	8741.2	9139.9	9431.4	9592.2	9622.1	9778.1	10999.4	9440.9
52.5°	8692.4	8731.7	8965.0	9327.4	9827.0	10444.7	10841.8	10744.1	10781.9	12020.5	10504.6
55°	9516.5	9582.7	9730.8	9971.9	10619.6	11528.9	12326.2	12349.9	11930.7	12997.6	11524.1
57.5°	10154.7	10266.6	10520.3	10863.9	11684.9	12734.4	13806.0	13821.7	13285.9	14040.8	12649.3
60°	9833.3	9965.6	10545.5	11382.3	13082.7	14838.1	15574.1	15484.2	14604.9	15229.0	14021.9
62.5°	8446.5	8470.2	9313.2	10621.2	13512.9	17652.6	18205.7	17825.9	16365.1	16735.5	15416.5
65°	5466.6	5621.0	6289.2	8121.9	12099.3	19214.3	22816.6	21938.9	18832.9	18445.2	16584.2
67.5°	3451.1	3411.7	3689.0	4637.7	8322.0	17838.5	26751.5	26612.8	22060.2	19524.7	16305.3
69°	2861.7	2905.9	3000.4	3555.1	5726.6	15230.5	27216.4	28174.5	23625.0	19439.6	15292.0
70°	2595.4	2615.9	2715.2	3151.7	4418.7	12756.5	26453.7	28132.0	24239.6	19083.5	14557.6
72.5°	2059.6	2058.1	2228.2	2622.2	3303.0	7282.0	21721.4	24424.0	23552.6	17425.7	12028.4
75°	1564.8	1590.0	1777.6	2218.8	3043.0	3979.0	15158.0	18809.3	18810.8	13763.4	7505.7
77.5°	1128.3	1144.1	1363.1	1862.6	2866.5	3225.8	10096.4	13490.8	12682.4	6306.5	2359.0
80°	739.1	748.5	915.6	1475.0	2584.4	3043.0	5986.6	8257.4	5981.9	1673.5	780.0
82.5°	405.0	452.3	559.4	955.0	2073.8	2811.3	3638.6	4179.1	2244.0	745.4	406.6
85°	203.3	215.9	315.2	557.8	1355.2	2325.9	2534.0	2396.9	1158.2	370.3	211.2
87.5°	59.9	75.6	130.8	215.9	550.0	1211.8	1410.4	1265.4	446.0	133.9	44.1
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°	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3	7808.3
2.5°	7743.7	7715.3	7589.3	7475.8	7371.8	7261.5	7168.5	7086.6	7094.4	7096.0	7012.5
5°	7567.2	7502.6	7263.1	7039.3	6850.2	6610.7	6405.8	6273.4	6207.2	6119.0	6150.5
7.5°	7327.7	7203.2	6870.7	6498.8	6150.5	5840.1	5502.8	5271.2	5123.1	4979.7	4998.6
10°	7080.3	6880.1	6396.3	5904.7	5454.0	4957.6	4527.4	4158.7	3884.5	3782.0	3714.3
12.5°	6826.6	6563.4	5948.8	5294.8	4672.4	4078.3	3468.4	3072.9	2770.3	2609.6	2630.1
15°	6594.9	6275.0	5482.4	4685.0	3876.6	3169.0	2560.7	2184.1	1973.0	1928.8	1954.0
17.5°	6380.6	5961.4	5045.9	4092.5	3148.5	2376.4	1924.1	1711.4	1626.3	1602.6	1601.1
20°	6160.0	5695.1	4555.8	3459.0	2453.6	1842.2	1579.0	1479.7	1464.0	1473.4	1475.0
22.5°	5936.2	5365.7	4051.5	2830.2	1954.0	1506.5	1380.4	1353.6	1366.3	1388.3	1391.5
25°	5729.8	5075.8	3566.1	2278.7	1560.1	1323.7	1262.3	1262.3	1290.6	1323.7	1325.3
27.5°	5559.6	4795.3	3082.3	1809.1	1306.4	1191.3	1170.9	1181.9	1221.3	1246.5	1248.1
30°	5419.3	4533.7	2625.4	1449.8	1148.8	1085.8	1081.0	1099.9	1128.3	1151.9	1153.5
32.5°	5313.7	4303.6	2198.3	1218.1	1040.1	1005.4	1003.8	1018.0	1033.8	1040.1	1046.4
35°	5272.8	4113.0	1807.5	1071.6	967.6	945.5	945.5	943.9	950.2	953.4	956.5
37.5°	5305.9	3966.4	1504.9	977.0	914.0	898.2	888.8	879.3	876.2	876.2	877.7
40°	5446.1	3889.2	1279.6	915.6	876.2	852.5	835.2	824.2	813.1	816.3	819.4
42.5°	5743.9	3903.4	1126.7	874.6	843.1	810.0	784.8	772.2	764.3	773.7	772.2
45°	6218.3	4045.2	1029.0	846.2	810.0	767.4	743.8	731.2	731.2	745.4	750.1
47.5°	6881.7	4316.2	977.0	824.2	784.8	734.3	710.7	701.3	704.4	728.0	729.6
50°	7691.7	4787.4	967.6	813.1	772.2	710.7	683.9	674.5	682.3	707.6	710.7
52.5°	8585.2	5394.1	1013.3	814.7	761.1	696.5	661.9	647.7	655.6	676.0	682.3
55°	9644.2	6153.7	1131.5	821.0	745.4	688.6	646.1	614.6	624.0	638.2	639.8
57.5°	10725.2	7111.8	1339.5	822.6	732.8	674.5	619.3	578.3	578.3	587.8	592.5
60°	12045.7	8155.0	1613.7	824.2	734.3	654.0	583.1	537.4	531.1	535.8	537.4
62.5°	13356.8	9028.0	1659.4	819.4	750.1	633.5	543.7	496.4	485.4	483.8	480.6
65°	13935.2	8865.7	1360.0	797.4	767.4	620.9	512.1	457.0	438.1	431.8	431.8
67.5°	12992.8	7499.4	1022.7	767.4	756.4	608.3	482.2	423.9	401.8	389.2	389.2
69°	12107.2	6670.5	918.7	746.9	728.0	587.8	463.3	406.6	379.8	365.6	360.9
70°	11423.3	6100.1	874.6	729.6	701.3	564.2	449.1	394.0	364.0	348.3	345.1
72.5°	9116.3	4785.8	765.9	663.4	597.2	474.3	398.7	354.6	326.2	308.9	304.1
75°	5253.9	2593.8	635.1	576.8	480.6	368.7	337.2	308.9	286.8	271.0	266.3
77.5°	1616.8	1002.2	460.1	455.4	353.0	285.2	269.5	258.4	242.7	225.3	222.2
80°	680.8	510.6	312.0	307.3	234.8	198.6	193.8	192.3	185.9	171.8	167.0
82.5°	373.5	288.4	217.5	189.1	141.8	115.0	119.8	121.3	116.6	102.4	93.0
85°	182.8	157.6	105.6	85.1	64.6	41.0	39.4	47.3	44.1	31.5	34.7
87.5°	36.2	44.1	28.4	12.6	6.3	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)