

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: P956997

Luminaire Tested: **GALN-SB9C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61836 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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

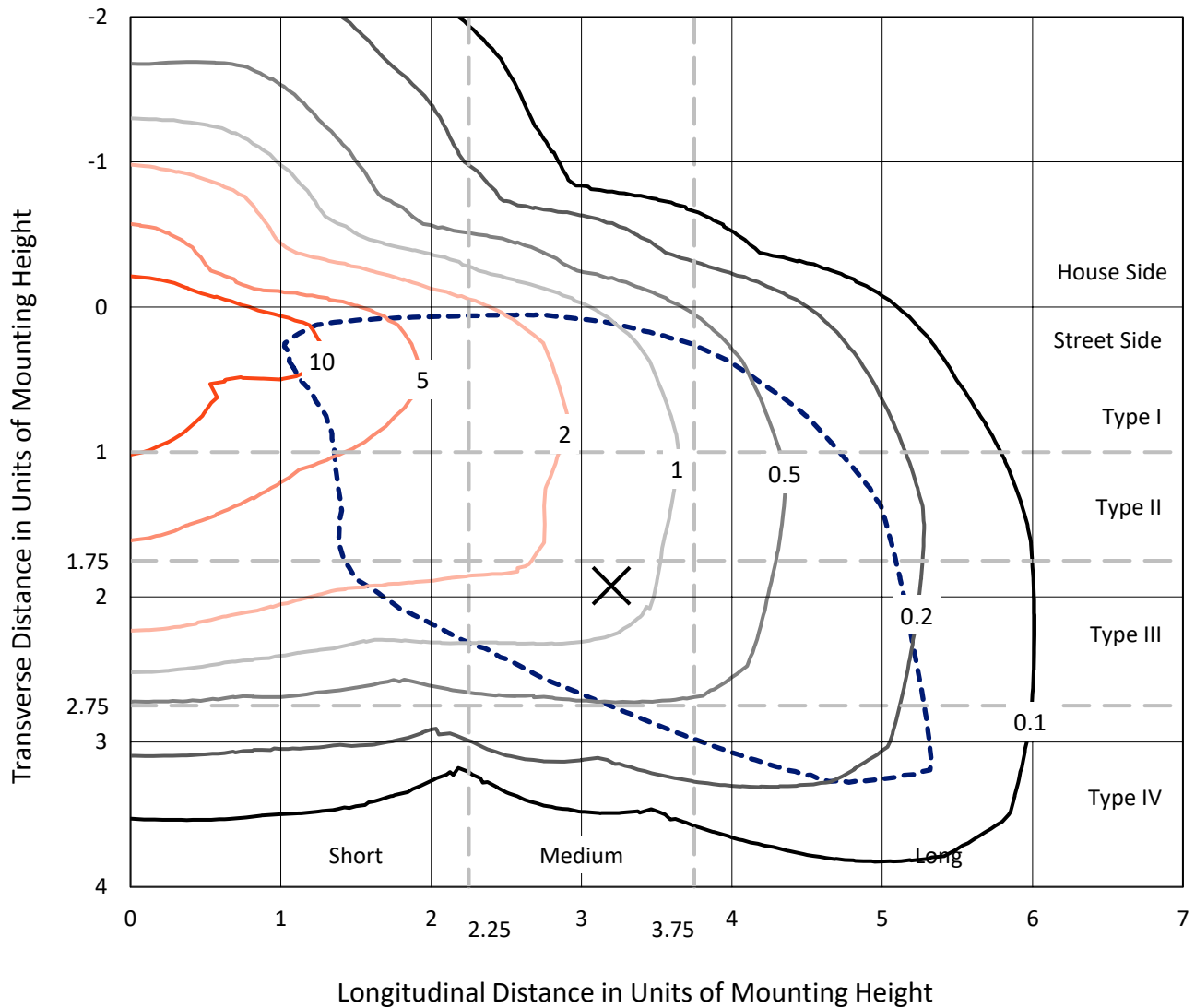


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

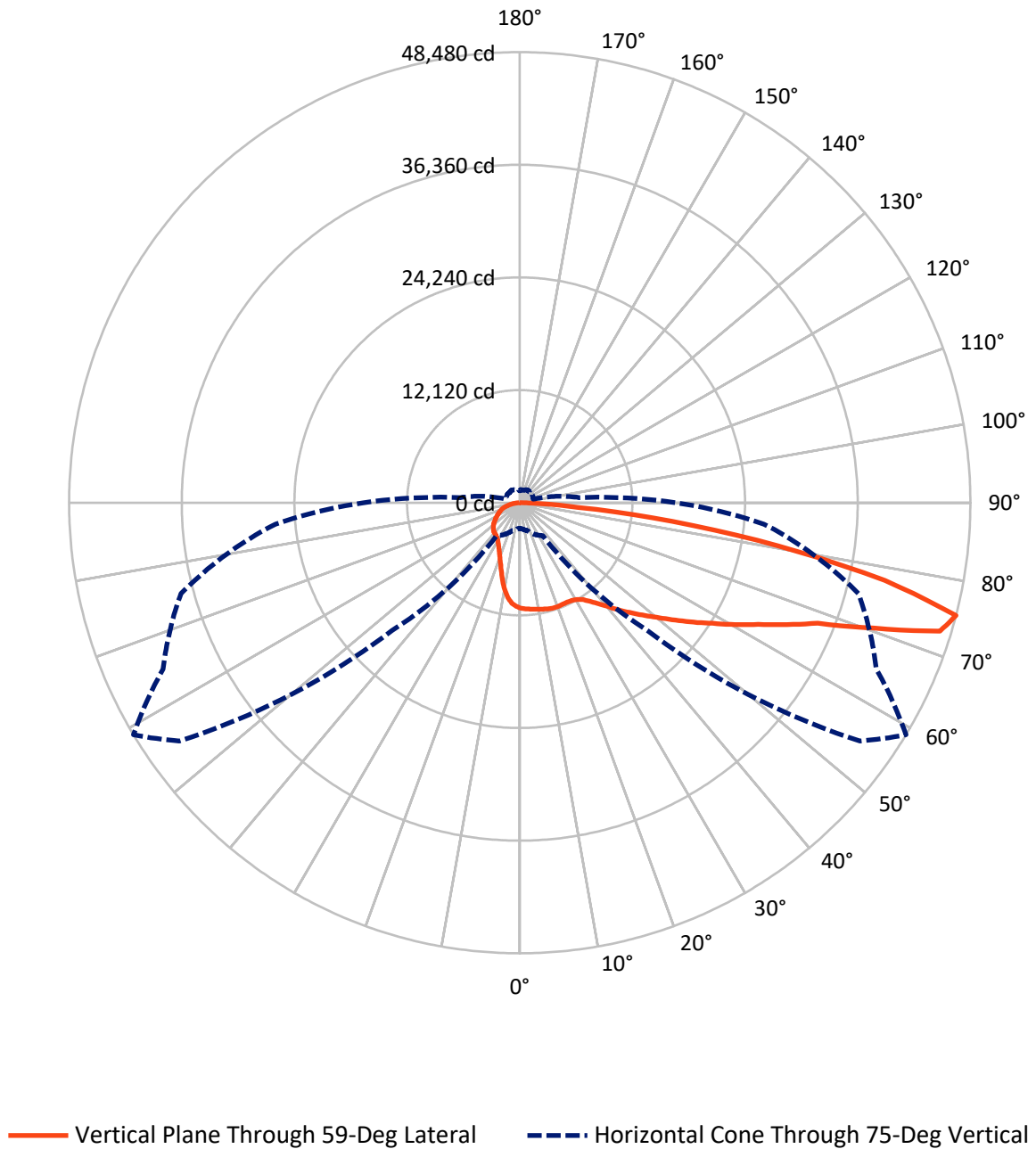


Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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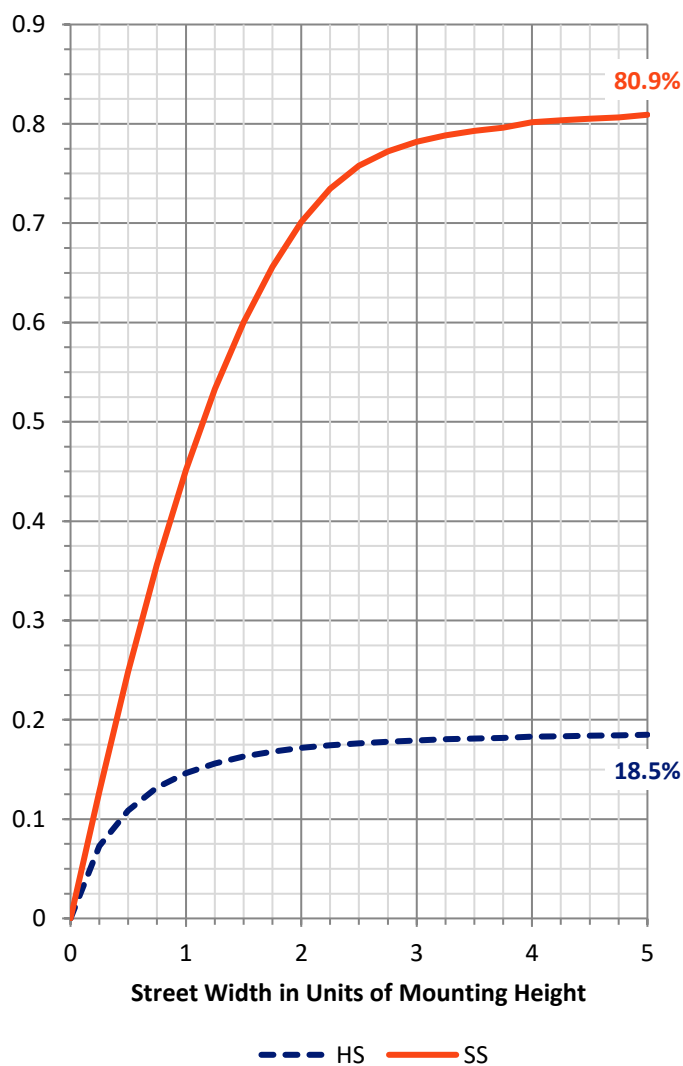
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11597.8	0.0	11597.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	50238.2	0.0	50238.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	61836.0	0.0	61836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.7	1.6
10°-20°	2601.3	4.2
20°-30°	3951.2	6.4
30°-40°	5873.3	9.5
40°-50°	8734.6	14.1
50°-60°	11856.2	19.2
60°-70°	14474.5	23.4
70°-80°	11359.4	18.4
80°-90°	1967.7	3.2
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°	61836.0	100.0
0°-180°	61836.0	100.0

Coefficient of Utilization



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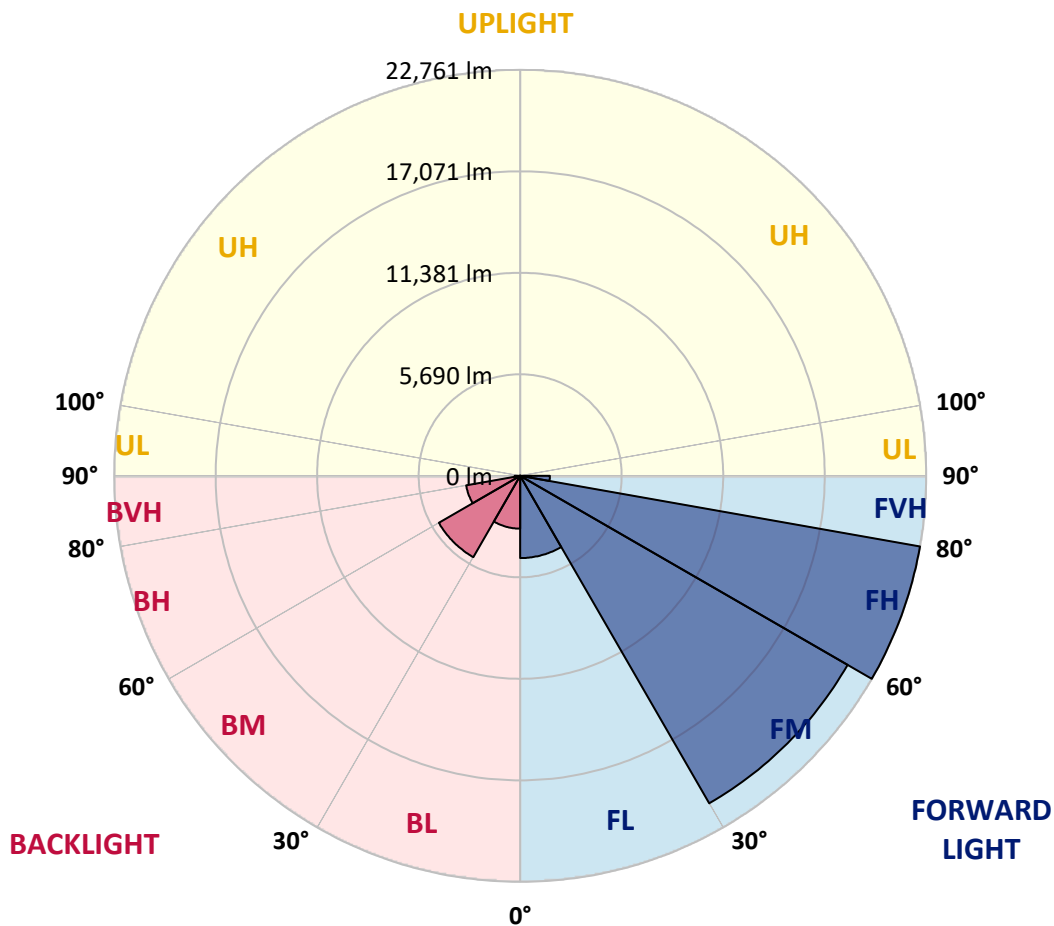
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4610.5	7.5			
FM	(30°-60°)	21200.0	34.3			
FH	(60°-80°)	22761.2	36.8			G5
FVH	(80°-90°)	1666.5	2.7			G5
BL	(0°-30°)	2959.6	4.8	B4/5000		
BM	(30°-60°)	5264.2	8.5	B4/8500		
BH	(60°-80°)	3072.7	5.0	B4/5000		G4/5000
BVH	(80°-90°)	301.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9
2.5°	11446.3	11406.4	11446.3	11429.7	11423.0	11409.7	11413.1	11436.3	11423.0	11439.7	11383.1
5°	11369.8	11346.5	11386.5	11376.5	11419.7	11426.4	11469.6	11496.2	11512.9	11516.2	11472.9
7.5°	11243.4	11220.1	11276.7	11323.2	11416.4	11443.0	11532.8	11576.1	11599.3	11639.3	11576.1
10°	10781.0	10771.1	10910.8	11087.1	11306.6	11443.0	11579.4	11652.6	11689.2	11795.6	11722.4
12.5°	9962.7	9976.0	10159.0	10498.3	10937.4	11376.5	11632.6	11739.1	11795.6	11928.7	11895.4
15°	9181.0	9177.7	9377.3	9739.9	10355.3	11083.7	11659.2	11842.2	11938.6	12134.9	12108.3
17.5°	8728.6	8715.3	8855.0	9131.1	9703.3	10634.7	11592.7	11898.7	12105.0	12351.1	12327.8
20°	8645.5	8618.8	8692.0	8828.4	9234.2	10142.4	11419.7	11898.7	12238.0	12557.4	12544.1
22.5°	8948.2	8904.9	8875.0	8858.3	9038.0	9736.5	11223.5	11858.8	12434.3	12853.4	12830.1
25°	9556.9	9490.4	9337.4	9187.7	9134.4	9553.6	11050.5	11848.8	12727.0	13252.6	13166.1
27.5°	10541.5	10458.4	10149.0	9789.8	9467.1	9646.7	10974.0	11908.7	13049.7	13675.1	13502.1
30°	11762.3	11672.5	11283.3	10731.1	10152.3	9992.7	11070.4	12085.0	13462.2	14237.2	13897.9
32.5°	12856.7	12756.9	12424.3	11862.1	11080.4	10591.4	11376.5	12421.0	14110.8	15018.9	14493.4
35°	13828.1	13711.6	13412.3	12893.3	12218.1	11433.0	11928.7	13016.4	15032.2	16289.6	15301.7
37.5°	14779.4	14643.0	14317.1	13768.2	13295.8	12554.0	12690.4	13781.5	16256.4	17833.1	16372.8
40°	15843.9	15647.6	15251.8	14709.6	14250.5	13868.0	13691.7	14719.6	17500.5	19556.2	17710.0
42.5°	16875.1	16688.8	16216.5	15754.1	15178.6	15068.8	14852.6	15817.3	18861.0	21449.0	19067.2
45°	17986.1	17763.3	17191.1	16605.7	16243.1	15867.2	15977.0	16915.0	20194.9	23378.3	20491.0
47.5°	19027.3	18777.8	18102.6	17450.6	17251.0	16539.1	17008.2	18122.5	21582.0	25334.3	21901.4
50°	19589.5	19343.3	18781.2	18192.4	18036.0	17367.4	18125.8	19449.8	23035.7	27283.6	23255.2
52.5°	20058.5	19792.4	19057.3	18731.3	18684.7	18268.9	19503.0	20966.6	24489.4	29006.7	24562.5
55°	20557.5	20261.4	19323.4	19030.6	19243.5	19280.1	21136.3	22686.4	26026.2	30686.5	25796.6
57.5°	21133.0	20757.1	19579.5	19283.5	19789.1	20464.3	23012.4	24469.4	27536.4	32243.3	26894.4
60°	21675.2	21296.0	20071.8	19686.0	20377.9	21838.2	25164.6	26628.3	29246.2	33630.4	27932.2
62.5°	21781.6	21468.9	20464.3	20461.0	21176.2	23441.5	27712.7	28807.1	30739.8	35000.9	28863.6
65°	19938.8	19742.5	19147.1	20431.1	22320.5	25750.1	30550.2	31594.7	32639.2	36198.5	29681.9
67.5°	15175.3	15201.9	15158.6	17636.9	21395.8	29066.6	34658.3	34578.5	34984.3	37542.4	30623.3
70°	6939.0	7095.3	8113.2	12174.8	17141.2	29449.1	41450.9	40416.4	37928.2	39282.1	31438.3
72.5°	3748.9	3868.7	4284.5	5897.8	10305.4	26182.5	46527.1	47262.3	41843.5	40453.0	30543.5
75°	2751.0	2817.5	3106.9	3748.9	4327.7	19459.8	44707.5	48479.7	42332.4	37722.0	26375.5
77.5°	2059.1	2089.0	2325.2	2970.5	2215.4	10258.8	35722.8	40150.3	36238.4	30992.6	19483.0
80°	1493.6	1526.8	1703.1	2228.7	1553.5	3752.2	24529.3	28181.7	24818.7	19755.8	9709.9
82.5°	1031.2	1044.5	1121.0	1516.9	1084.4	1457.0	13917.9	16525.8	13854.7	6932.3	2621.2
85°	622.0	638.7	671.9	884.8	615.4	691.9	6007.6	6213.8	4141.4	1656.6	815.0
87.5°	256.1	272.8	299.4	372.6	242.8	192.9	991.3	1244.1	775.1	485.7	252.8
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°	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9
2.5°	11366.5	11343.2	11280.0	11193.5	11113.7	11013.9	10970.6	10934.1	10900.8	10837.6	10807.6
5°	11436.3	11373.1	11203.5	10984.0	10734.5	10461.7	10195.6	10012.6	9856.3	9739.9	9643.4
7.5°	11542.8	11423.0	11113.7	10664.6	10092.5	9507.0	8978.1	8602.2	8319.5	8216.3	8036.7
10°	11652.6	11509.5	10970.6	10178.9	9191.0	8289.5	7587.6	7201.8	6975.6	6902.4	6789.3
12.5°	11782.3	11572.7	10747.8	9503.7	8183.1	7195.1	6583.1	6356.9	6240.4	6200.5	6210.5
15°	11971.9	11626.0	10411.8	8658.8	7221.7	6396.8	6000.9	5844.6	5784.7	5781.4	5794.7
17.5°	12114.9	11635.9	9889.5	7754.0	6483.3	5914.4	5588.4	5528.6	5568.5	5628.4	5651.6
20°	12274.6	11546.1	9204.3	6929.0	5964.3	5492.0	5355.6	5395.5	5492.0	5578.5	5608.4
22.5°	12387.7	11383.1	8376.0	6287.0	5515.3	5249.1	5242.5	5325.7	5378.9	5422.1	5445.4
25°	12487.5	11107.0	7497.8	5748.1	5146.0	5102.8	5176.0	5149.4	5112.8	5149.4	5172.6
27.5°	12560.7	10671.3	6712.8	5275.8	4886.6	5003.0	4959.7	4899.9	4896.5	4916.5	4949.8
30°	12537.4	10089.1	6067.5	4826.7	4703.6	4816.7	4713.6	4703.6	4693.6	4703.6	4740.2
32.5°	12537.4	9427.2	5571.8	4517.3	4587.2	4543.9	4534.0	4510.7	4470.8	4467.4	4510.7
35°	12607.3	8765.2	5146.0	4351.0	4490.7	4387.6	4394.2	4337.7	4254.5	4214.6	4254.5
37.5°	12750.3	8233.0	4723.6	4271.2	4321.1	4317.7	4291.1	4194.7	4048.3	3921.9	3965.1
40°	13096.2	8076.6	4434.2	4234.6	4241.2	4281.1	4211.3	4025.0	3692.4	3486.1	3512.7
42.5°	13638.5	8339.4	4371.0	4144.8	4188.0	4227.9	4091.5	3659.1	3422.9	3299.8	3299.8
45°	14327.0	8798.5	4507.3	4015.0	4061.6	4131.5	3725.6	3519.4	3412.9	3416.3	3432.9
47.5°	15198.6	9280.8	4760.2	3901.9	3878.6	3918.6	3482.8	3356.4	3210.0	3246.6	3339.8
50°	16206.5	9769.8	4999.7	3748.9	3675.7	3546.0	3326.5	3206.7	3020.4	2933.9	2957.2
52.5°	17297.6	10242.2	5096.1	3562.6	3456.2	3306.5	3220.0	3073.6	2847.4	2704.4	2701.1
55°	18332.1	10671.3	4989.7	3339.8	3236.6	3120.2	3106.9	3017.1	2774.3	2574.7	2574.7
57.5°	19310.1	11030.5	4723.6	3113.6	3013.8	2943.9	3033.7	2990.5	2684.4	2428.3	2415.0
60°	20138.4	11276.7	4337.7	2884.0	2814.2	2777.6	2914.0	2900.7	2558.0	2272.0	2262.0
62.5°	20797.0	11373.1	3911.9	2664.5	2647.9	2581.3	2747.7	2747.7	2398.4	2119.0	2109.0
65°	21312.6	11280.0	3479.5	2448.3	2481.5	2381.7	2544.7	2524.8	2228.7	1982.6	1969.3
67.5°	21768.3	10974.0	3000.5	2235.4	2311.9	2185.5	2331.8	2285.3	2042.4	1846.2	1832.9
70°	21971.2	10262.1	2454.9	2022.5	2115.6	1992.5	2119.0	2032.5	1832.9	1699.8	1673.2
72.5°	20341.3	8529.0	1932.7	1799.6	1879.4	1779.7	1889.4	1789.6	1606.7	1546.8	1496.9
75°	16828.5	6400.1	1486.9	1556.8	1616.7	1540.1	1613.3	1540.1	1373.8	1417.1	1294.0
77.5°	12221.4	4321.1	1137.6	1300.6	1327.3	1287.3	1350.5	1267.4	1117.7	1107.7	1057.8
80°	6077.4	2531.4	891.5	1027.9	1017.9	991.3	1064.5	1024.5	898.1	951.4	941.4
82.5°	1759.7	1084.4	648.7	721.8	701.9	708.5	761.8	781.7	1170.9	1160.9	1187.5
85°	552.2	425.8	389.2	402.5	382.5	392.5	449.1	891.5	825.0	482.3	522.3
87.5°	143.0	146.4	96.5	103.1	106.4	126.4	143.0	542.2	259.5	169.6	179.6
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)