

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: P955938

Luminaire Tested: **GALN-SB8D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76173 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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



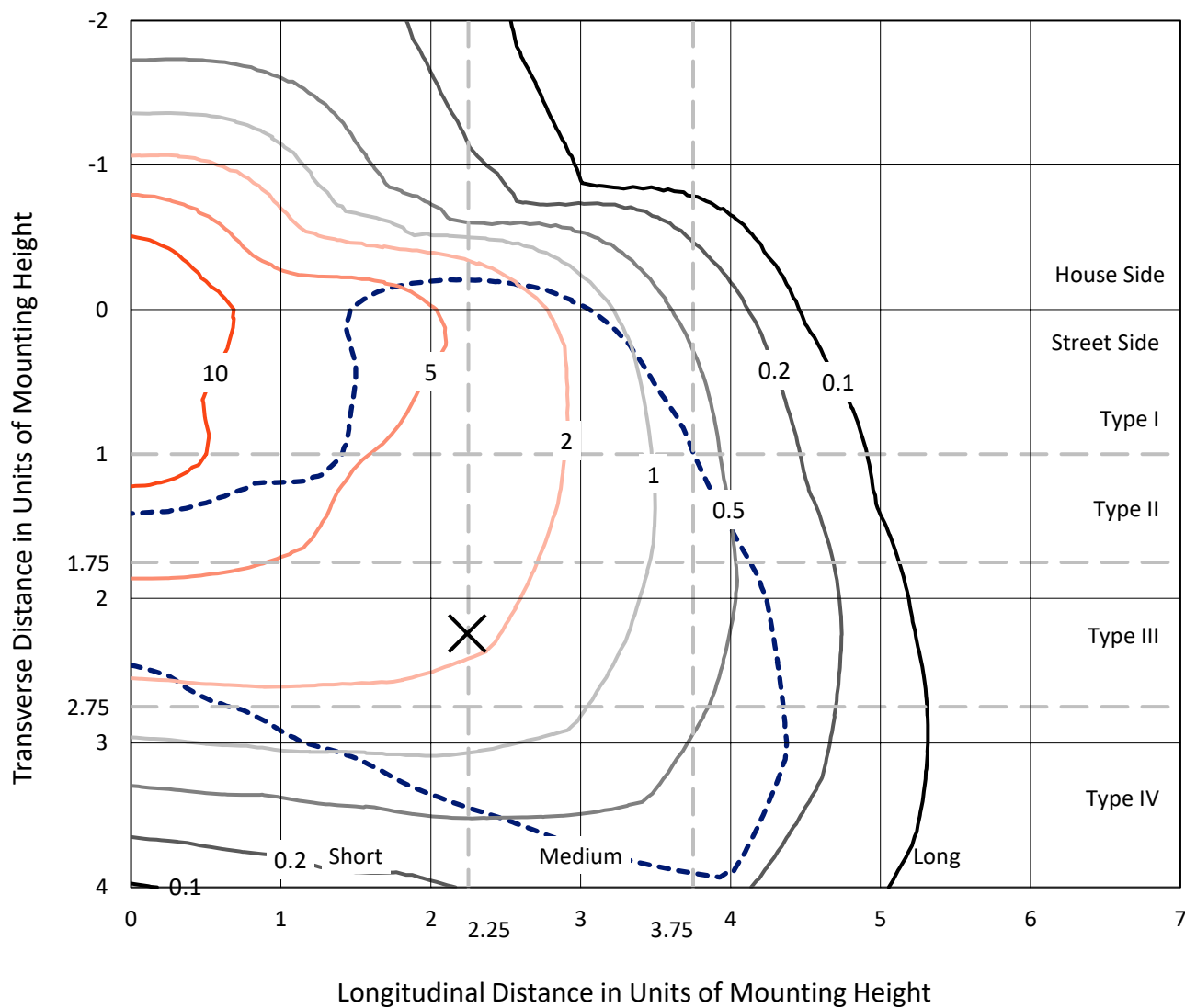
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



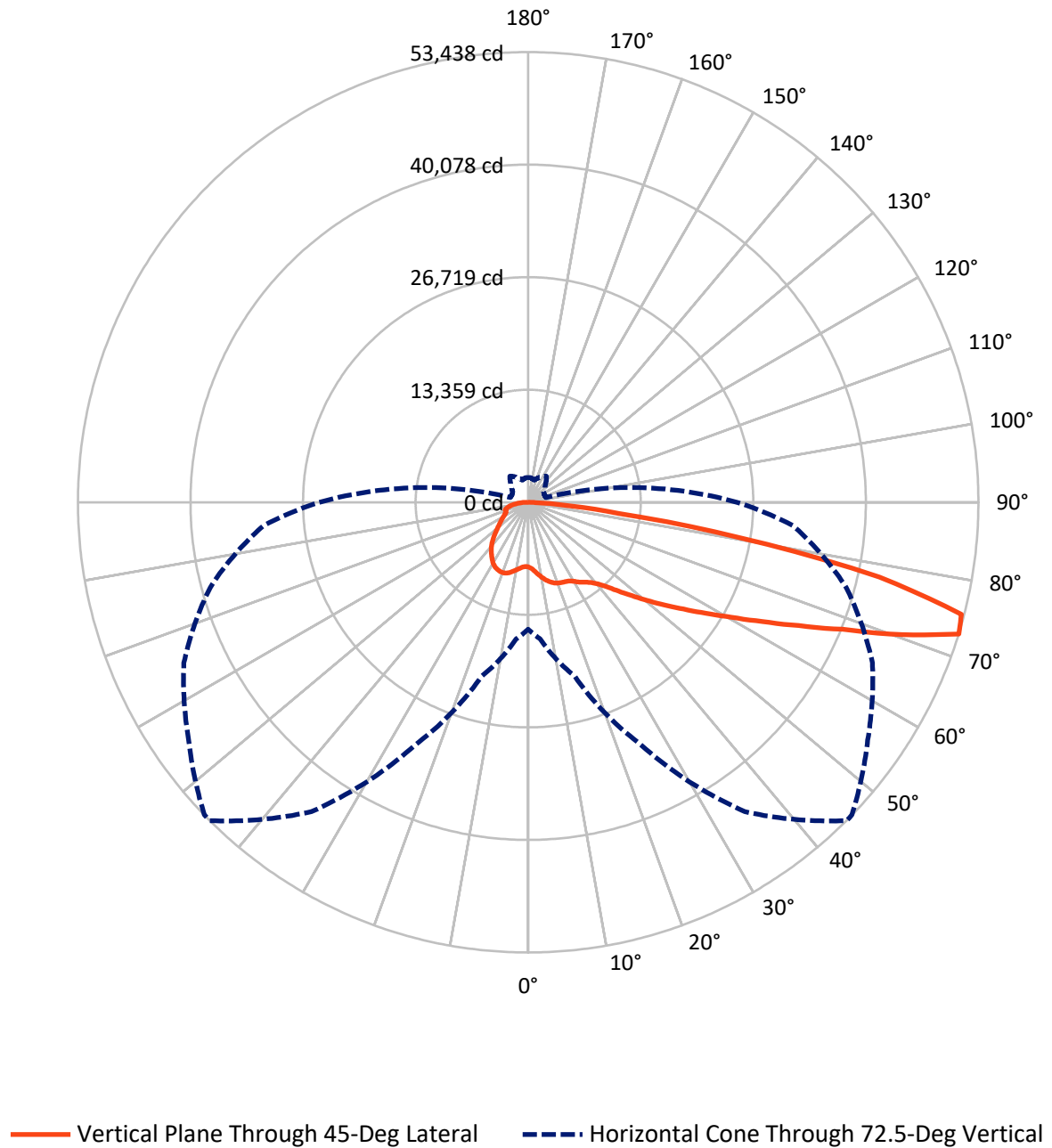
Based on 25 foot mounting height. Maximum calculated value = 15.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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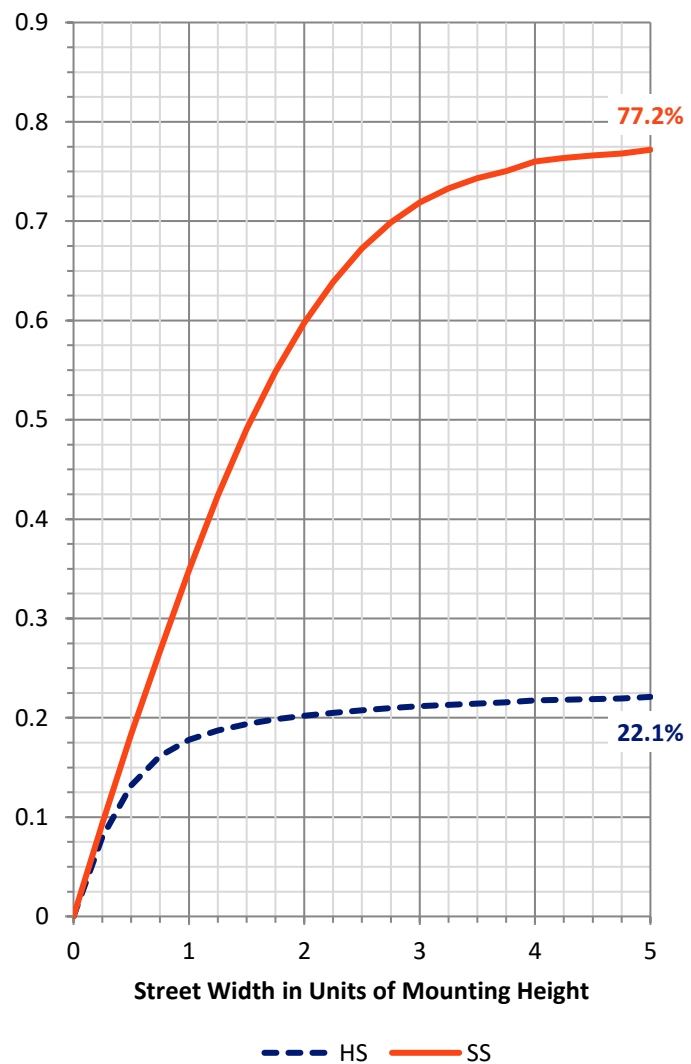
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17220.1	0.0	17220.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	58952.9	0.0	58952.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	76173.0	0.0	76173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.1	1.0
10°-20°	2607.7	3.4
20°-30°	4536.2	6.0
30°-40°	6502.9	8.5
40°-50°	9156.5	12.0
50°-60°	14025.0	18.4
60°-70°	20317.3	26.7
70°-80°	16224.6	21.3
80°-90°	2020.7	2.7
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°	76173.0	100.0
0°-180°	76173.0	100.0

Coefficient of Utilization



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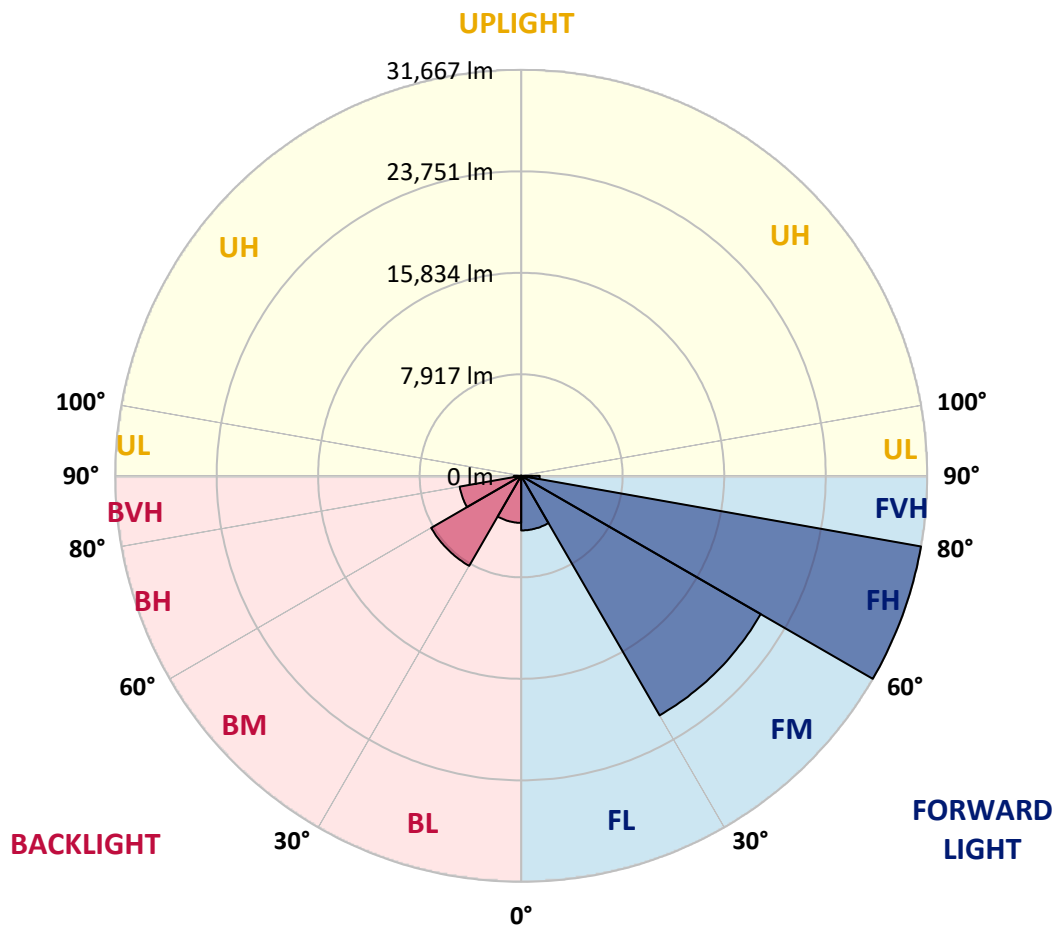
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4259.7	5.6			
FM	(30°-60°)	21576.2	28.3			
FH	(60°-80°)	31667.3	41.6			G5
FVH	(80°-90°)	1449.7	1.9			G5
BL	(0°-30°)	3666.3	4.8	B4/5000		
BM	(30°-60°)	8108.2	10.6	B4/8500		
BH	(60°-80°)	4874.6	6.4	B4/5000		G4/5000
BVH	(80°-90°)	571.0	0.7			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4
2.5°	7985.3	8037.5	7989.3	7945.2	7925.1	7873.0	7869.0	7836.9	7816.8	7760.6	7744.6
5°	8543.1	8611.3	8531.1	8442.8	8362.5	8234.1	8218.1	8125.8	8021.4	7901.1	7832.8
7.5°	9173.1	9233.3	9141.0	9008.6	8868.1	8655.5	8651.4	8482.9	8318.4	8113.7	7997.4
10°	9722.8	9803.1	9678.7	9498.1	9321.6	9080.8	9052.7	8860.1	8651.4	8386.6	8210.0
12.5°	10208.4	10264.6	10144.2	9923.5	9718.8	9478.1	9441.9	9229.3	8996.5	8695.6	8470.9
15°	10593.6	10665.8	10505.3	10268.6	10051.9	9815.1	9783.0	9590.4	9357.7	9040.7	8751.8
17.5°	10846.4	10906.6	10742.1	10477.2	10268.6	10071.9	10047.9	9887.4	9682.7	9361.7	9052.7
20°	10942.7	11006.9	10834.4	10565.5	10372.9	10220.4	10208.4	10092.0	9951.6	9658.6	9345.6
22.5°	11039.0	11099.2	10874.5	10593.6	10425.1	10328.8	10324.7	10248.5	10192.3	9951.6	9646.6
25°	11428.2	11444.3	11143.3	10738.1	10497.3	10413.0	10409.0	10405.0	10429.1	10240.5	9971.6
27.5°	11765.3	11761.3	11504.5	11123.3	10750.1	10573.5	10569.5	10609.7	10685.9	10529.4	10308.7
30°	12258.9	12214.7	11909.8	11512.5	11171.4	10898.6	10874.5	10838.4	10898.6	10774.2	10645.8
32.5°	13306.2	13165.8	12672.2	11966.0	11520.5	11311.9	11279.8	11055.1	11079.1	11002.9	10938.7
35°	14807.0	14622.4	13964.3	12824.7	11953.9	11657.0	11640.9	11356.0	11307.9	11239.6	11263.7
37.5°	16592.6	16363.9	15597.5	14068.6	12700.3	12058.2	12034.2	11777.4	11580.7	11508.5	11644.9
40°	18386.3	18097.4	17463.4	15585.4	13799.8	12728.4	12652.1	12262.9	12038.2	11917.8	12206.7
42.5°	20127.8	19887.1	19345.4	17286.8	15156.1	13707.5	13538.9	12872.8	12704.3	12591.9	13113.6
45°	21668.7	21452.0	21054.8	19104.6	16745.1	15039.7	14875.2	13787.7	13735.6	13735.6	14490.0
47.5°	22920.7	22872.5	22451.2	20958.5	18619.1	16556.5	16271.6	15059.8	15200.2	15416.9	16444.2
50°	24309.1	24176.7	23727.3	22784.3	20822.0	18294.0	18061.3	16620.7	17146.4	17740.3	19269.1
52.5°	25585.2	25657.4	25155.8	24686.3	23309.9	20232.2	19822.9	18462.6	19598.2	20581.3	22579.6
55°	26897.3	26901.3	26760.9	26696.7	25918.2	22375.0	21925.5	20677.6	22483.3	23703.2	26439.9
57.5°	28129.2	28137.2	28345.9	28911.7	28943.8	24846.8	24337.2	23398.2	25689.5	26933.4	30420.5
60°	29228.7	29284.9	29854.7	31178.9	31604.2	27679.8	27198.3	26612.4	29004.0	30256.0	34605.8
62.5°	29597.9	29802.5	31070.5	32952.5	34232.6	31154.8	30681.3	30332.2	32487.0	33650.7	38104.9
65°	28971.9	29441.4	31893.2	34417.2	36937.2	35283.9	34814.4	34433.2	36106.5	37202.0	40978.0
67.5°	27435.0	28040.9	31845.0	35954.0	40219.6	40251.7	39814.3	38919.4	39986.8	40408.2	41912.9
70°	23386.2	24293.1	29040.1	36527.9	43987.5	47045.2	46623.9	44320.6	43859.1	41820.6	39280.6
72.5°	15067.8	16287.7	21383.8	31804.9	44826.2	53437.5	53413.4	49196.0	45083.0	39075.9	31503.9
75°	5497.4	6243.8	9935.5	19963.3	37627.3	53112.5	53269.0	48361.4	41154.5	30183.7	19626.3
77.5°	2002.4	2190.9	3242.3	7672.3	23141.4	42615.2	42940.2	38662.6	29292.9	15148.0	7776.7
80°	1051.3	1155.7	1661.3	2977.4	9915.4	25308.3	25817.9	22976.9	13767.7	4562.5	2331.4
82.5°	581.8	630.0	931.0	1617.1	4466.2	10822.3	11127.3	9076.8	4843.4	1934.1	963.1
85°	313.0	333.1	437.4	882.8	2182.9	3751.9	3836.2	2712.6	1930.1	1135.6	465.5
87.5°	92.3	112.4	144.5	280.9	854.7	842.7	862.7	537.7	762.4	573.8	152.5
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°	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4	7684.4
2.5°	7720.5	7708.4	7664.3	7644.2	7620.2	7616.2	7636.2	7640.2	7644.2	7648.3	7664.3
5°	7792.7	7752.6	7712.5	7688.4	7696.4	7700.4	7740.6	7768.6	7788.7	7804.8	7812.8
7.5°	7933.2	7901.1	7832.8	7828.8	7840.9	7877.0	7929.1	7993.4	8029.5	8057.6	8065.6
10°	8141.8	8081.6	8001.4	8013.4	8037.5	8089.7	8198.0	8250.2	8310.4	8362.5	8350.5
12.5°	8354.5	8302.3	8210.0	8218.1	8258.2	8350.5	8454.8	8519.0	8559.1	8599.3	8615.3
15°	8631.4	8539.1	8438.8	8438.8	8511.0	8611.3	8659.5	8711.6	8735.7	8779.8	8795.9
17.5°	8916.3	8795.9	8663.5	8655.5	8743.7	8791.9	8820.0	8828.0	8836.0	8884.2	8900.2
20°	9201.2	9068.8	8880.2	8864.1	8884.2	8876.2	8872.1	8864.1	8876.2	8936.3	8960.4
22.5°	9482.1	9329.6	9068.8	8996.5	8940.4	8864.1	8860.1	8856.1	8864.1	8924.3	8964.4
25°	9811.1	9626.5	9277.4	9060.7	8872.1	8767.8	8779.8	8783.9	8791.9	8840.0	8904.2
27.5°	10168.3	9963.6	9470.0	9040.7	8699.6	8627.4	8607.3	8619.3	8647.4	8723.7	8799.9
30°	10525.4	10284.6	9646.6	8960.4	8482.9	8382.6	8318.4	8346.5	8434.8	8511.0	8595.3
32.5°	10850.4	10609.7	9787.0	8783.9	8206.0	8049.5	7965.3	8001.4	8089.7	8117.7	8218.1
35°	11231.6	10958.8	9847.2	8503.0	7905.1	7664.3	7552.0	7499.8	7543.9	7515.8	7604.1
37.5°	11657.0	11372.1	9839.2	8133.8	7552.0	7275.1	7118.6	6922.0	6829.7	6733.4	6793.5
40°	12287.0	11877.7	9742.9	7688.4	7114.6	6861.8	6580.9	6247.8	6039.2	5850.6	5862.6
42.5°	13145.7	12579.9	9566.3	7198.8	6621.0	6384.2	6003.0	5613.8	5284.8	4971.8	4943.7
45°	14425.8	13498.8	9345.6	6677.2	6087.3	5854.6	5441.3	5003.9	4630.7	4229.4	4181.3
47.5°	16271.6	14734.7	9137.0	6083.3	5525.5	5312.9	4939.7	4534.4	4093.0	3703.7	3659.6
50°	18807.7	16508.4	8944.4	5505.5	4971.8	4811.3	4514.3	4101.0	3655.6	3342.6	3322.5
52.5°	22033.9	18920.0	8864.1	4947.7	4454.1	4393.9	4157.2	3772.0	3350.6	3085.8	3065.7
55°	25737.6	21805.2	8864.1	4414.0	4000.7	4020.8	3856.2	3499.1	3133.9	2897.2	2873.1
57.5°	29517.6	24726.4	8703.6	3920.4	3615.5	3699.7	3595.4	3282.4	2953.4	2708.6	2668.5
60°	33000.7	27174.2	8053.5	3471.0	3274.4	3406.8	3338.6	3069.7	2668.5	2463.8	2431.7
62.5°	35677.2	28554.6	6801.6	3113.9	2993.5	3146.0	3109.9	2788.8	2616.3	2532.0	2503.9
65°	37017.4	28329.9	5200.5	2796.9	2756.7	2993.5	2917.3	2905.2	2768.8	2672.5	2640.4
67.5°	36194.8	26395.7	3772.0	2564.1	2620.3	2853.0	3146.0	3194.1	2941.3	2752.7	2720.6
70°	32587.4	22896.6	2808.9	2343.4	2447.8	2857.1	3587.4	3342.6	2885.2	2664.5	2628.3
72.5°	24790.6	17074.2	2178.9	2110.7	2223.1	2877.1	3784.0	3274.4	2724.6	2945.3	2921.3
75°	14177.0	9373.7	1749.5	1825.8	1942.2	2688.5	3683.7	3097.8	2600.2	2704.6	2704.6
77.5°	5405.1	3603.4	1444.6	1544.9	1561.0	2347.4	3523.2	3085.8	2475.9	2415.7	2203.0
80°	1873.9	1408.5	1195.8	1227.9	1207.8	2086.6	3378.7	2684.5	2026.4	1813.8	1753.6
82.5°	766.4	702.2	947.0	906.9	858.7	1621.1	2728.7	2195.0	1657.3	1464.6	1448.6
85°	333.1	445.4	626.0	549.7	497.6	1123.6	2186.9	1857.9	1400.4	1207.8	1203.8
87.5°	68.2	168.5	264.8	248.8	256.8	750.4	1552.9	1320.2	991.1	742.4	581.8
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)