

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: P954501

Luminaire Tested: **GALN-SB7D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51229 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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

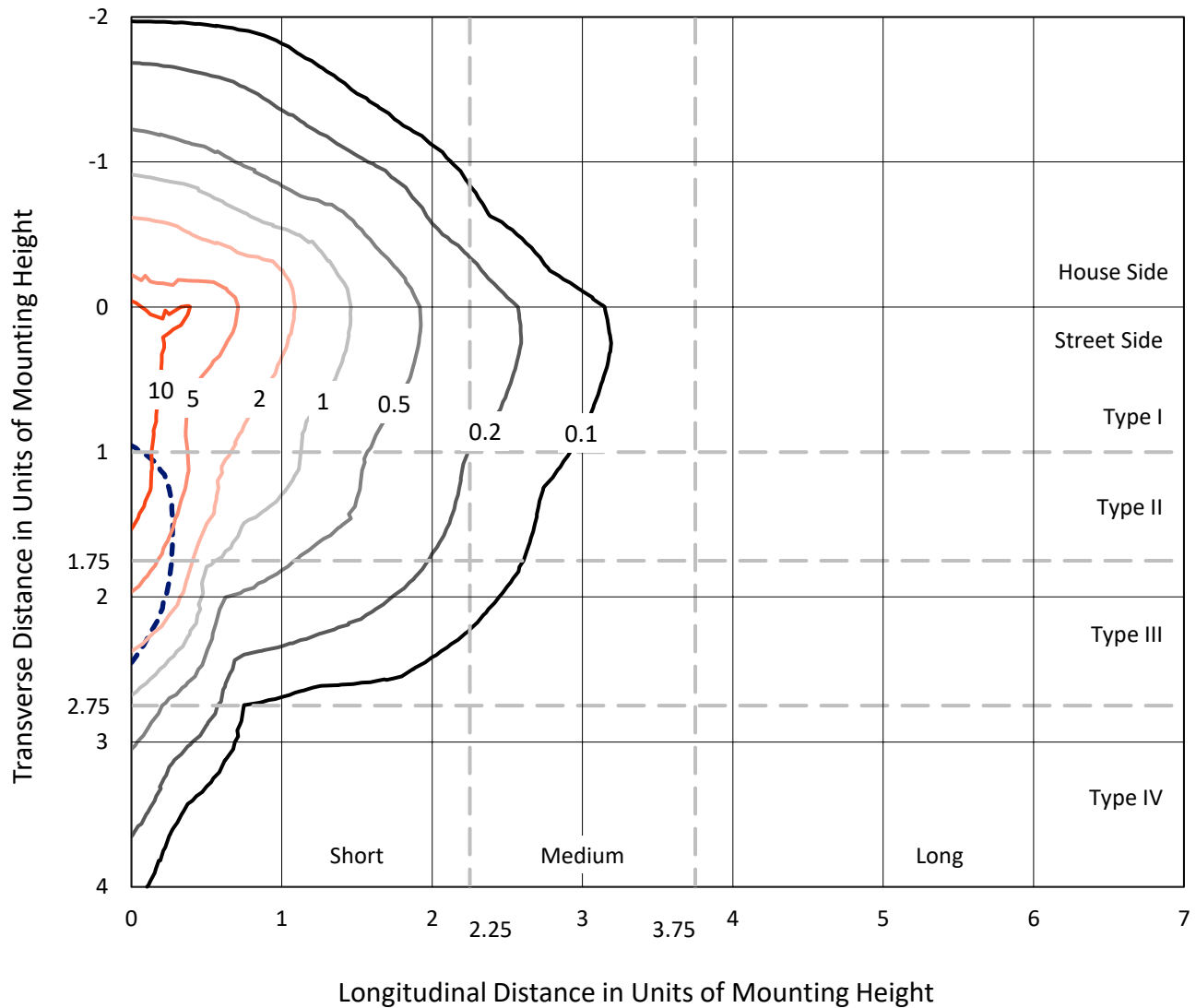


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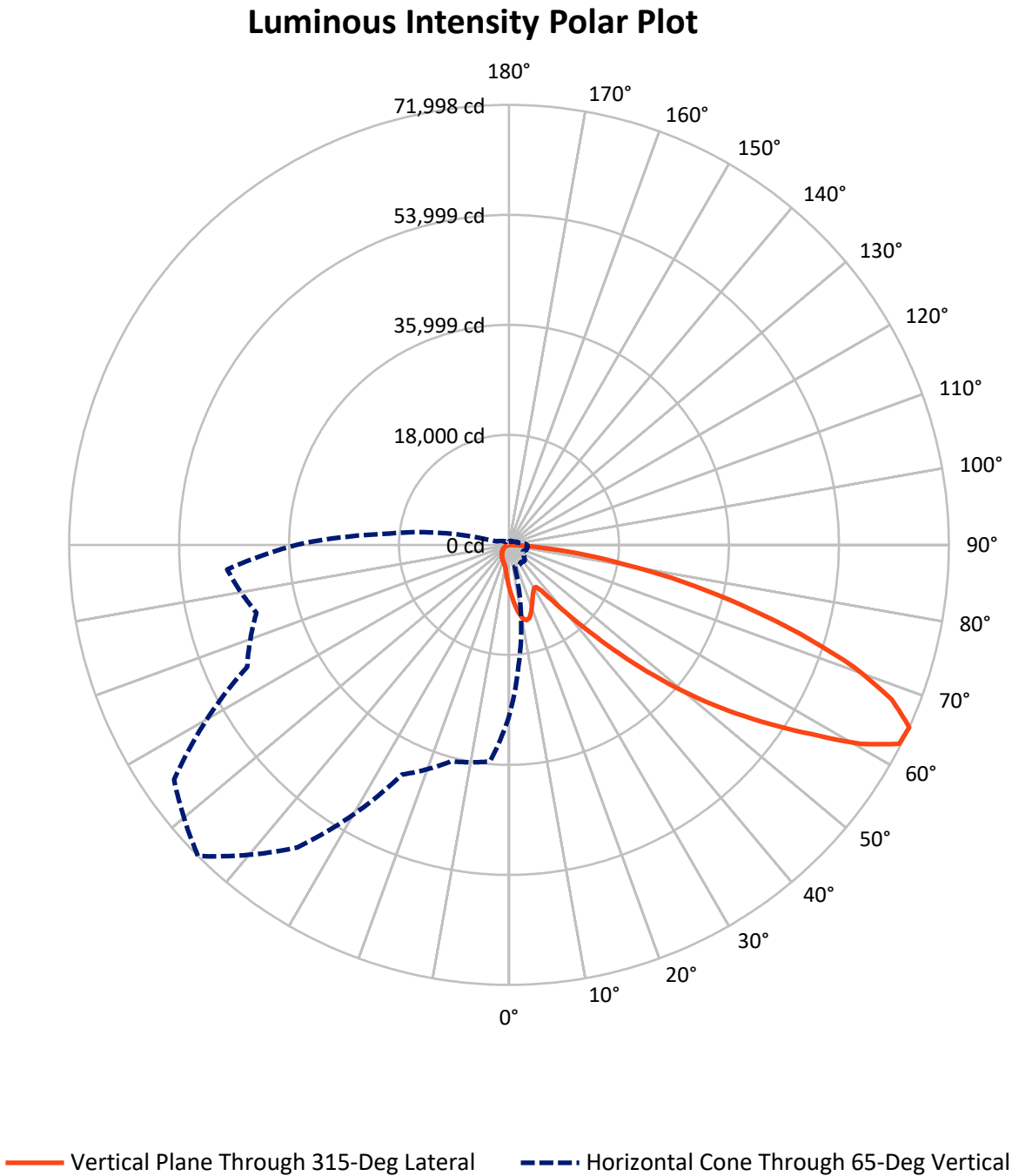
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type IV - Short - N/A

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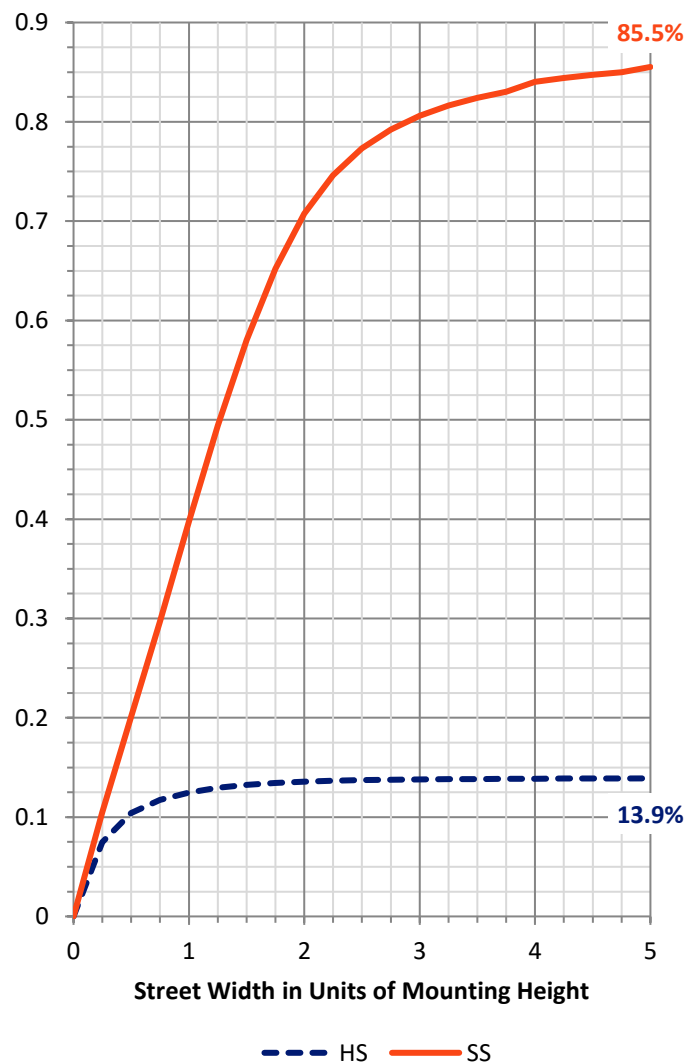
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7174.2	0.0	7174.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	44054.8	0.0	44054.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	51229.0	0.0	51229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.4	1.4
10°-20°	2093.6	4.1
20°-30°	3084.2	6.0
30°-40°	3962.4	7.7
40°-50°	6408.4	12.5
50°-60°	11237.7	21.9
60°-70°	14061.5	27.4
70°-80°	8216.9	16.0
80°-90°	1466.0	2.9
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°	51229.0	100.0
0°-180°	51229.0	100.0

Coefficient of Utilization



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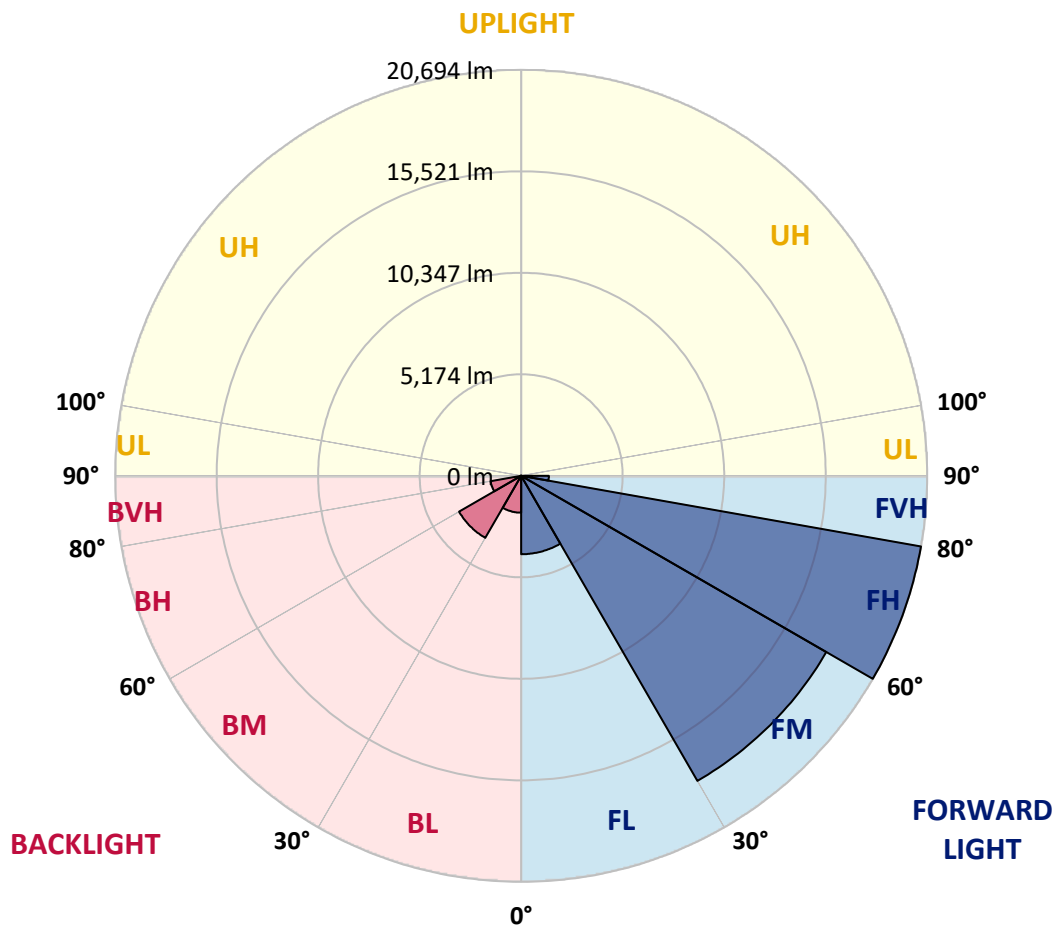
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3995.7	7.8			
FM	(30°-60°)	17955.2	35.0			
FH	(60°-80°)	20694.2	40.4			G5
FVH	(80°-90°)	1409.7	2.8			G5
BL	(0°-30°)	1880.5	3.7	B3/2500		
BM	(30°-60°)	3653.3	7.1	B3/5000		
BH	(60°-80°)	1584.1	3.1	B3/2500		G3/2500
BVH	(80°-90°)	56.3	0.1			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6
2.5°	8014.7	7877.0	7795.9	7594.7	7393.6	7231.2	7012.4	6867.7	6694.8	6528.9	6380.7
5°	8932.3	8709.9	8441.7	8074.7	7739.4	7397.1	7065.3	6737.1	6391.3	6073.7	5879.6
7.5°	9708.7	9387.5	8914.6	8427.6	8000.6	7587.7	7199.5	6765.4	6345.4	5847.8	5583.1
10°	10301.6	9892.2	9271.1	8632.3	8141.7	7725.3	7347.7	6980.6	6557.1	5957.2	5625.5
12.5°	10661.5	10223.9	9486.3	8738.2	8177.0	7711.2	7418.3	7255.9	7090.0	6493.6	6105.4
15°	10926.2	10453.3	9638.1	8812.3	8095.9	7524.1	7308.9	7471.2	7661.8	7280.6	6832.4
17.5°	11201.5	10703.9	9835.7	8844.0	7877.0	7160.6	7068.9	7488.8	7930.0	7912.3	7467.7
20°	11462.7	10968.6	10008.6	8822.9	7524.1	6719.5	6800.7	7337.1	7848.8	8064.1	7824.1
22.5°	11762.6	11240.3	10174.5	8741.7	7065.3	6306.6	6560.7	7097.1	7545.3	7799.4	7725.3
25°	12129.7	11582.6	10407.4	8621.7	6571.3	5964.3	6317.2	6818.3	7181.8	7358.3	7354.7
27.5°	12524.9	11992.0	10718.0	8558.2	6172.5	5720.7	6041.9	6486.6	6811.2	6934.8	6934.8
30°	13015.5	12468.5	11085.0	8487.6	5911.3	5579.6	5756.0	6101.9	6419.5	6543.0	6543.0
32.5°	13551.9	12997.8	11438.0	8318.2	5752.5	5473.7	5477.2	5696.0	5985.4	6133.7	6154.8
35°	14222.4	13633.1	11815.6	7947.6	5625.5	5350.2	5205.5	5311.4	5551.3	5727.8	5773.7
37.5°	15178.8	14466.0	12277.9	7418.3	5438.4	5159.6	4919.6	4944.3	5127.8	5321.9	5392.5
40°	16498.7	15584.7	12821.4	6867.7	5170.2	4891.4	4605.5	4594.9	4729.1	4919.6	4997.3
42.5°	18284.5	17063.4	13474.3	6341.9	4912.6	4566.7	4273.8	4256.1	4362.0	4527.9	4609.1
45°	20642.0	18955.0	14275.4	5890.1	4711.4	4249.1	3959.7	3952.6	4040.9	4185.6	4270.3
47.5°	23659.4	21584.2	15076.5	5583.1	4605.5	3998.5	3702.1	3716.2	3793.8	3924.4	3984.4
50°	27566.1	25011.0	15320.0	5427.8	4605.5	3864.4	3472.7	3543.3	3606.8	3705.6	3740.9
52.5°	32249.3	28300.2	14515.4	5286.7	4633.8	3882.1	3278.6	3430.3	3476.2	3560.9	3575.0
55°	36590.2	29913.0	12479.0	5092.6	4640.8	3991.5	3112.7	3338.6	3423.3	3455.0	3451.5
57.5°	39110.0	29358.9	10089.8	4764.3	4612.6	4065.6	3006.8	3225.6	3388.0	3409.2	3377.4
60°	38630.0	27414.4	7428.8	4513.8	4404.4	4037.3	2975.1	3052.7	3310.3	3342.1	3299.7
62.5°	34931.5	24153.5	5156.1	4319.7	3945.6	3913.8	2964.5	2781.0	3140.9	3218.6	3158.6
65°	28077.9	19015.0	3642.1	3719.7	3458.6	3645.6	2908.0	2498.6	2936.2	3042.1	2950.4
67.5°	20370.2	12867.3	2629.2	3013.9	3133.9	3211.5	2781.0	2293.9	2703.3	2844.5	2724.5
70°	13071.9	6948.9	1845.7	1990.4	2639.8	2728.0	2562.2	2110.4	2466.9	2629.2	2498.6
72.5°	9292.2	4104.4	1327.0	1394.0	2121.0	2272.8	2255.1	1905.7	2191.6	2389.2	2233.9
75°	6412.5	2262.2	896.4	995.2	1538.7	1845.7	1739.9	1637.5	1856.3	2057.5	1905.7
77.5°	4019.7	1012.9	536.4	691.7	1009.3	1450.5	1192.9	1267.0	1446.9	1634.0	1475.2
80°	2237.5	391.7	300.0	458.8	550.5	1055.2	659.9	815.2	1065.8	1199.9	1072.9
82.5°	487.0	49.4	134.1	197.6	215.3	614.1	349.4	472.9	670.5	659.9	571.7
85°	0.0	0.0	24.7	28.2	14.1	264.7	127.0	155.3	218.8	204.7	155.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6
2.5°	6352.5	6179.5	6052.5	5989.0	5936.0	5985.4	6013.7	6013.7	6133.7	6204.2	6232.5
5°	5756.0	5445.5	5209.0	5050.2	4954.9	4986.7	5022.0	5060.8	5212.5	5314.9	5381.9
7.5°	5343.1	4866.7	4506.7	4284.4	4167.9	4185.6	4210.3	4242.0	4390.3	4492.6	4580.8
10°	5265.5	4580.8	4072.6	3779.7	3638.5	3613.8	3599.7	3589.1	3677.4	3755.0	3825.6
12.5°	5583.1	4594.9	3885.6	3529.1	3356.2	3282.1	3197.4	3130.3	3144.5	3193.9	3282.1
15°	6151.3	4774.9	3825.6	3398.6	3183.3	3059.8	2961.0	2879.8	2862.1	2879.8	2893.9
17.5°	6800.7	5018.4	3818.5	3285.6	3017.4	2890.4	2809.2	2735.1	2710.4	2713.9	2731.6
20°	7231.2	5212.5	3797.4	3158.6	2858.6	2745.7	2675.1	2601.0	2576.3	2583.3	2586.9
22.5°	7273.6	5314.9	3765.6	3017.4	2699.8	2604.5	2533.9	2466.9	2463.3	2463.3	2484.5
25°	7044.2	5314.9	3698.5	2890.4	2548.0	2463.3	2399.8	2318.6	2332.8	2339.8	2368.1
27.5°	6687.7	5187.8	3571.5	2788.0	2417.5	2329.2	2265.7	2191.6	2209.2	2219.8	2251.6
30°	6334.8	5025.5	3419.7	2671.6	2293.9	2191.6	2145.7	2082.2	2089.3	2103.4	2138.7
32.5°	6006.6	4852.6	3239.8	2576.3	2170.4	2068.1	2032.8	1962.2	1972.8	1986.9	2025.7
35°	5681.9	4662.0	3028.0	2463.3	2057.5	1955.1	1926.9	1845.7	1852.8	1874.0	1916.3
37.5°	5332.5	4460.8	2855.1	2350.4	1948.1	1842.2	1814.0	1729.3	1736.3	1761.0	1810.5
40°	4965.5	4263.2	2685.7	2230.4	1831.6	1725.8	1701.0	1609.3	1616.3	1644.6	1697.5
42.5°	4594.9	4047.9	2555.1	2075.1	1711.6	1598.7	1574.0	1489.3	1499.9	1531.6	1584.6
45°	4252.6	3790.3	2470.4	1902.2	1598.7	1471.7	1446.9	1369.3	1390.5	1425.8	1478.7
47.5°	3959.7	3525.6	2435.1	1757.5	1478.7	1341.1	1319.9	1256.4	1291.7	1330.5	1372.8
50°	3709.1	3271.5	2389.2	1609.3	1365.8	1228.1	1207.0	1164.6	1210.5	1249.3	1288.1
52.5°	3529.1	2982.1	2290.4	1475.2	1267.0	1132.9	1125.8	1104.6	1147.0	1182.3	1217.6
55°	3373.9	2682.1	2131.6	1358.7	1178.7	1051.7	1058.7	1048.2	1083.4	1111.7	1143.4
57.5°	3232.7	2421.0	1930.4	1267.0	1083.4	981.1	1002.3	988.2	1005.8	1023.5	1062.3
60°	3063.3	2156.3	1690.5	1164.6	970.5	910.5	935.2	896.4	892.9	899.9	910.5
62.5°	2812.7	1799.9	1439.9	1037.6	871.7	832.9	843.5	769.4	712.9	712.9	723.5
65°	2463.3	1446.9	1207.0	896.4	758.8	727.0	719.9	614.1	536.4	529.4	561.1
67.5°	2057.5	1189.3	1002.3	755.2	631.7	610.5	617.6	540.0	462.3	455.3	490.6
70°	1676.3	984.6	808.2	603.5	487.0	508.2	540.0	462.3	388.2	377.6	409.4
72.5°	1362.2	783.5	631.7	462.3	360.0	420.0	458.8	377.6	307.0	300.0	328.2
75°	1051.7	575.3	451.7	314.1	261.2	324.7	360.0	275.3	218.8	208.2	232.9
77.5°	702.3	356.4	254.1	197.6	155.3	222.3	240.0	144.7	127.0	123.5	141.2
80°	427.0	165.9	109.4	95.3	52.9	81.2	95.3	60.0	67.1	70.6	84.7
82.5°	215.3	45.9	17.6	3.5	0.0	0.0	28.2	14.1	28.2	35.3	52.9
85°	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.6	31.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6
2.5°	6430.1	6578.3	6719.5	6945.4	7178.3	7407.7	7640.6	7866.5	7947.6	8007.6	8141.7
5°	5689.0	5967.8	6292.5	6740.7	7220.6	7714.7	8215.8	8674.6	8882.9	9024.0	9341.6
7.5°	4923.2	5286.7	5752.5	6426.6	7178.3	7965.3	8752.3	9475.7	9811.0	10082.8	10566.3
10°	4164.4	4559.7	5149.0	5918.4	6934.8	8064.1	9151.1	10146.3	10580.4	10922.7	11579.1
12.5°	3497.4	3867.9	4485.5	5336.1	6553.6	7986.5	9380.5	10576.8	11088.6	11473.2	12193.2
15°	3028.0	3289.2	3836.2	4753.8	6101.9	7735.9	9394.6	10781.5	11342.7	11745.0	12369.6
17.5°	2766.8	2855.1	3211.5	4160.9	5600.7	7407.7	9264.0	10852.1	11452.1	11826.2	12260.2
20°	2625.7	2639.8	2738.6	3391.5	4958.4	7100.6	9140.5	10922.7	11554.4	11868.5	11999.1
22.5°	2512.7	2512.7	2537.5	2773.9	4129.1	6733.6	9101.7	11046.2	11695.6	11889.7	11621.5
25°	2410.4	2410.4	2417.5	2481.0	3271.5	6172.5	9077.0	11236.8	11889.7	11942.6	11205.0
27.5°	2304.5	2308.1	2308.1	2343.4	2636.3	5410.2	8971.1	11483.8	12122.6	12013.2	10806.2
30°	2198.7	2205.7	2205.7	2230.4	2332.8	4517.3	8762.9	11780.3	12426.1	12105.0	10411.0
32.5°	2092.8	2099.8	2099.8	2121.0	2195.1	3606.8	8501.7	12052.0	12733.1	12143.8	10043.9
35°	1983.4	1994.0	1986.9	2015.1	2092.8	2869.2	8170.0	12323.8	13064.9	12267.3	9864.0
37.5°	1874.0	1881.0	1877.5	1905.7	1994.0	2477.5	7785.3	12528.5	13516.6	12542.6	10079.2
40°	1764.6	1761.0	1761.0	1792.8	1888.1	2364.5	7301.8	12853.1	14166.0	13026.1	11018.0
42.5°	1651.6	1651.6	1644.6	1679.9	1796.3	2279.8	6839.5	13435.4	15111.8	13795.4	12683.7
45°	1549.3	1545.8	1531.6	1563.4	1708.1	2131.6	6677.1	14522.4	16509.3	15041.2	14698.9
47.5°	1450.5	1446.9	1411.7	1439.9	1602.2	1997.5	7284.2	16301.1	18446.8	16872.8	16587.0
50°	1362.2	1365.8	1298.7	1323.4	1496.4	1895.1	8600.5	18609.2	21019.6	19339.7	18376.2
52.5°	1281.1	1281.1	1192.9	1207.0	1365.8	1803.4	9853.4	21111.3	24414.6	22780.6	20462.0
55°	1199.9	1192.9	1094.0	1101.1	1235.2	1672.8	10040.4	23553.5	29044.8	27957.9	23313.5
57.5°	1108.2	1094.0	1002.3	1002.3	1115.2	1577.5	8702.9	25431.0	34790.3	35566.7	27425.0
60°	995.2	984.6	924.6	907.0	1019.9	1662.2	6140.7	25649.8	38495.9	45684.8	35298.5
62.5°	850.5	864.6	832.9	808.2	928.2	1725.8	3638.5	23888.8	37599.5	48903.3	44728.4
65°	670.5	727.0	719.9	702.3	1019.9	1454.0	2149.2	20507.8	34850.3	46305.9	42805.0
67.5°	571.7	610.5	600.0	600.0	1069.3	1104.6	1351.7	16022.3	31067.0	43224.9	38234.7
70°	487.0	525.8	487.0	487.0	808.2	670.5	935.2	11187.4	26983.8	39815.8	35235.0
72.5°	402.3	441.1	398.8	370.6	645.8	501.1	684.7	6991.2	23108.8	36265.5	33181.0
75°	307.0	352.9	321.2	285.9	427.0	374.1	518.8	4062.0	19145.6	31028.2	30255.3
77.5°	194.1	254.1	240.0	201.2	314.1	271.7	374.1	2417.5	14773.0	24245.2	26023.9
80°	120.0	130.6	134.1	127.0	180.0	183.5	254.1	1376.4	10111.0	16897.5	20331.4
82.5°	77.6	77.6	60.0	67.1	88.2	105.9	144.7	518.8	5943.1	10287.5	14151.9
85°	56.5	49.4	31.8	31.8	42.3	52.9	56.5	158.8	2410.4	4062.0	5533.7
87.5°	28.2	24.7	10.6	14.1	21.2	17.6	14.1	7.1	607.0	1298.7	910.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6	7093.6
2.5°	8212.3	8321.7	8328.8	8328.8	8233.5	8230.0	8035.9	8014.7
5°	9669.9	9740.4	9758.1	9722.8	9532.2	9391.0	9013.4	8932.3
7.5°	11003.9	11145.0	11145.0	11060.3	10749.8	10460.4	9913.4	9708.7
10°	12069.7	12232.0	12196.7	12023.8	11632.1	11233.3	10569.8	10301.6
12.5°	12588.5	12754.3	12662.6	12464.9	12083.8	11663.8	10965.0	10661.5
15°	12577.9	12532.0	12436.7	12412.0	12228.5	11910.9	11258.0	10926.2
17.5°	12129.7	11741.5	11667.3	11914.4	12147.3	12069.7	11512.1	11201.5
20°	11420.3	10742.7	10675.7	11148.6	11812.0	12150.8	11748.5	11462.7
22.5°	10672.1	9941.6	9786.3	10308.6	11307.4	12175.5	12048.5	11762.6
25°	9962.8	9228.7	9073.4	9560.4	10746.2	12133.2	12373.2	12129.7
27.5°	9369.9	8660.5	8515.8	9002.8	10206.3	12013.2	12697.9	12524.9
30°	8911.1	8254.7	8148.8	8618.2	9740.4	11865.0	13110.8	13015.5
32.5°	8642.9	8162.9	8201.7	8586.4	9489.9	11702.6	13506.0	13551.9
35°	8907.6	8928.7	9267.5	9426.3	9722.8	11677.9	14042.5	14222.4
37.5°	10223.9	10958.0	11660.3	11529.7	10862.7	11963.8	14843.6	15178.8
40°	12464.9	13971.9	15111.8	14614.2	12934.3	12839.0	15997.6	16498.7
42.5°	15203.5	17758.6	19636.2	18302.1	15605.9	14370.7	17645.7	18284.5
45°	18093.9	22427.7	25385.1	22611.2	18453.9	16516.4	20140.8	20642.0
47.5°	21139.6	28102.6	31928.2	27389.7	21093.7	18958.6	23542.9	23659.4
50°	24471.1	34324.4	38598.2	32164.6	23641.7	21757.2	27700.2	27566.1
52.5°	27643.8	40722.8	45127.2	36960.7	25879.2	25229.8	32524.6	32249.3
55°	30671.8	47117.6	51694.9	41569.8	27989.6	29817.7	38255.9	36590.2
57.5°	34183.3	52866.6	58463.8	46200.0	30940.0	35774.9	44664.8	39110.0
60°	39374.6	59399.0	66118.5	52545.4	36551.3	42035.6	46962.3	38630.0
62.5°	46002.4	65405.6	71684.0	58763.8	42187.4	43214.4	43577.9	34931.5
65°	47290.5	66926.7	71998.0	60426.0	41460.4	36657.2	35577.3	28077.9
67.5°	43874.3	64177.5	67607.8	57330.9	36674.9	28328.4	26698.0	20370.2
70°	40041.7	58936.7	59956.6	52069.0	32256.4	20836.1	18030.4	13071.9
72.5°	36113.7	51945.5	49835.0	45218.9	28349.6	15171.8	13004.9	9292.2
75°	31448.2	42752.0	39254.7	37571.3	23472.3	11907.3	9408.7	6412.5
77.5°	25184.0	30093.0	29157.8	29122.5	17638.7	8699.3	6278.3	4019.7
80°	17765.7	19530.3	19053.8	21933.6	11833.2	6310.1	3779.7	2237.5
82.5°	8600.5	10799.2	11085.0	13061.4	5756.0	3712.7	871.7	487.0
85°	3366.8	5209.0	4393.8	4958.4	1616.3	1034.0	21.2	0.0
87.5°	377.6	603.5	554.1	437.6	197.6	42.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)