

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: P957336

Luminaire Tested: **GALN-SB9D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957336
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-SB9D-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 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: 58436 lumens
Efficiency: N/A
Efficacy: 88.8 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): 658
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

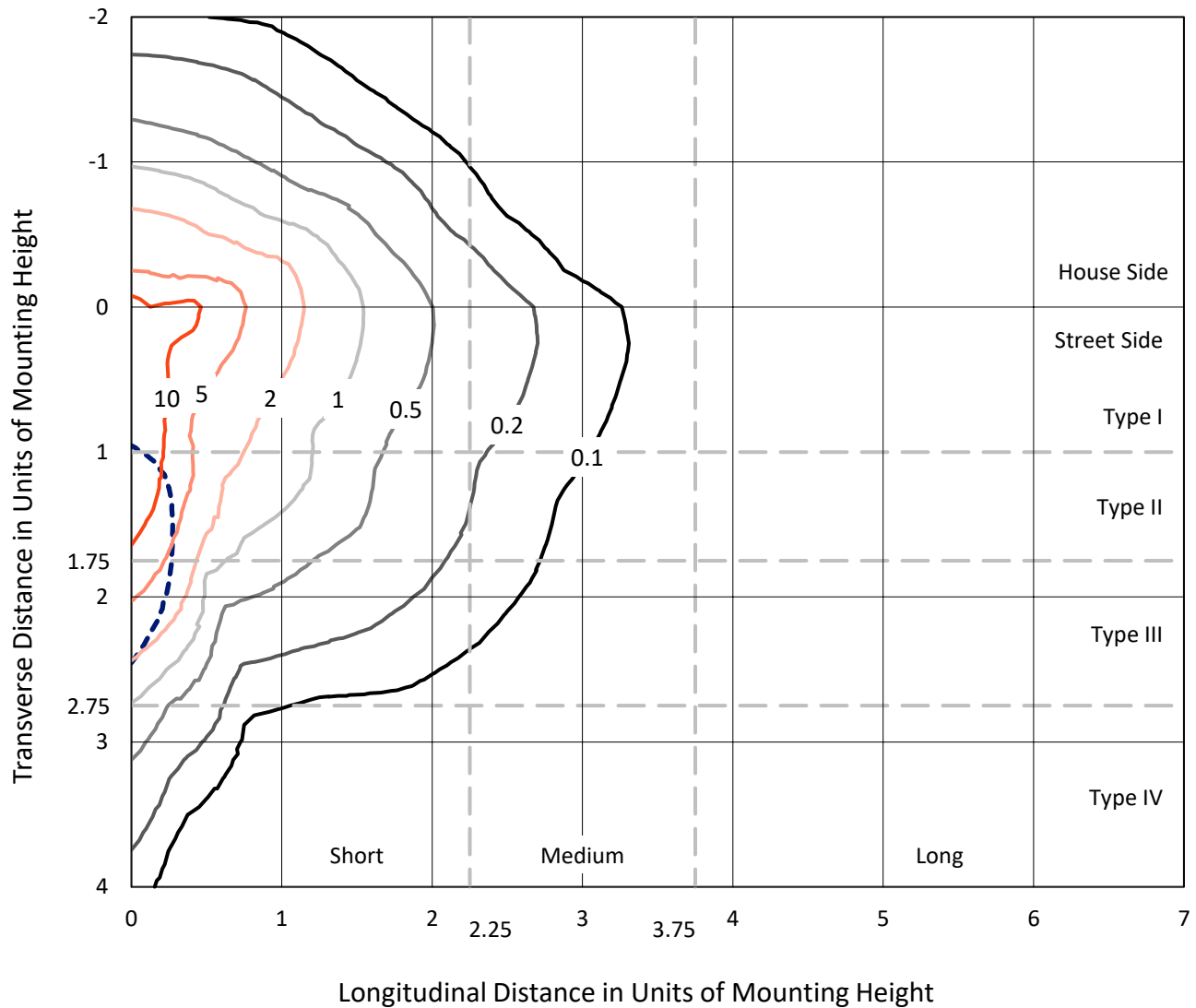


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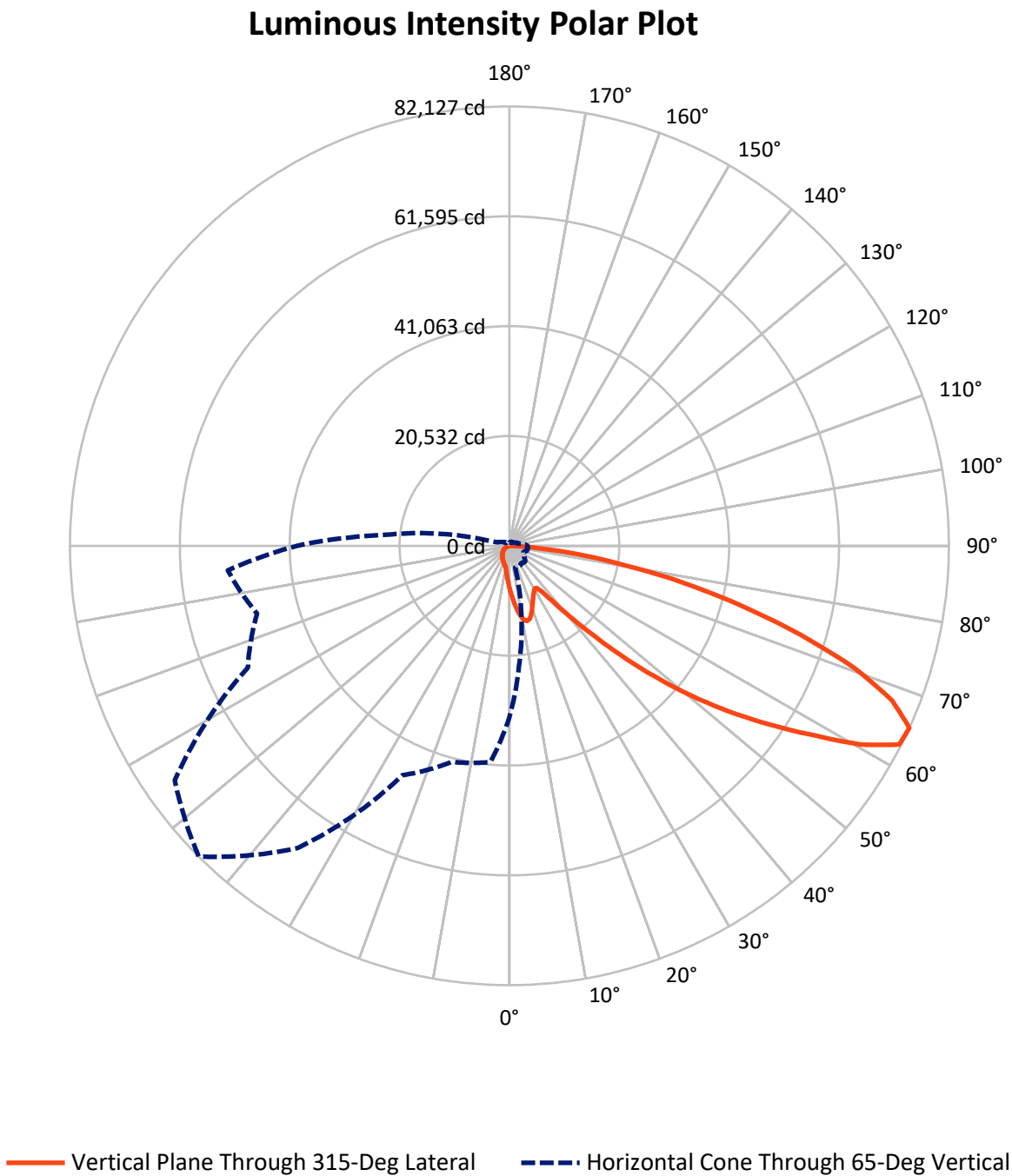
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type IV - Short - N/A

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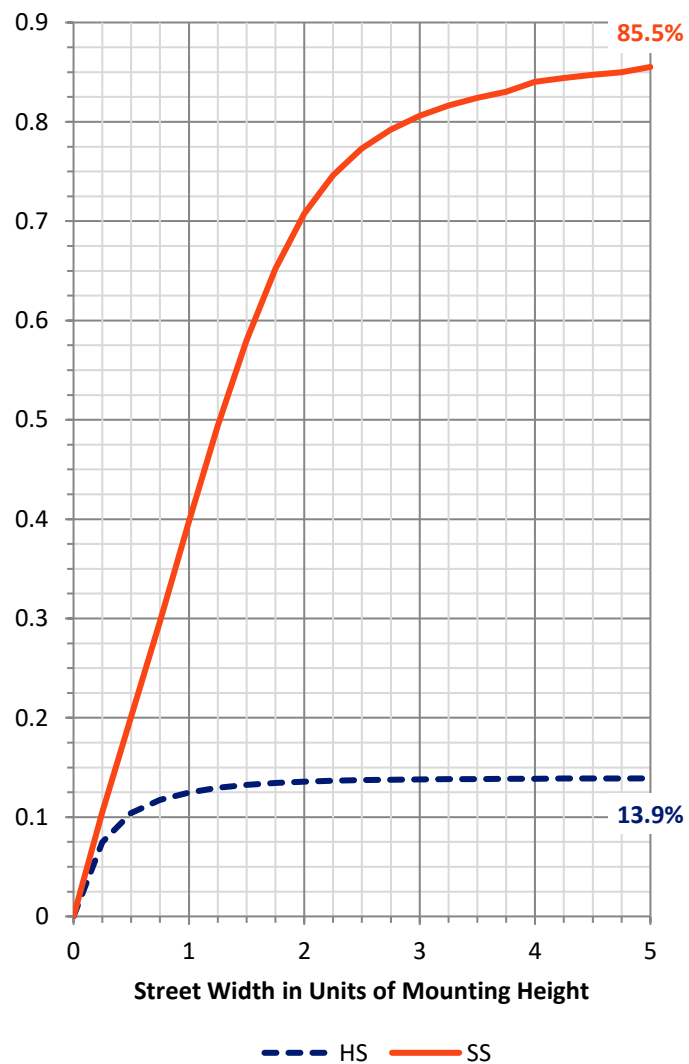
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8183.5	0.0	8183.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	50252.5	0.0	50252.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	58436.0	0.0	58436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.6	1.4
10°-20°	2388.1	4.1
20°-30°	3518.1	6.0
30°-40°	4519.8	7.7
40°-50°	7309.9	12.5
50°-60°	12818.7	21.9
60°-70°	16039.6	27.4
70°-80°	9372.8	16.0
80°-90°	1672.3	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°	58436.0	100.0
0°-180°	58436.0	100.0

Coefficient of Utilization



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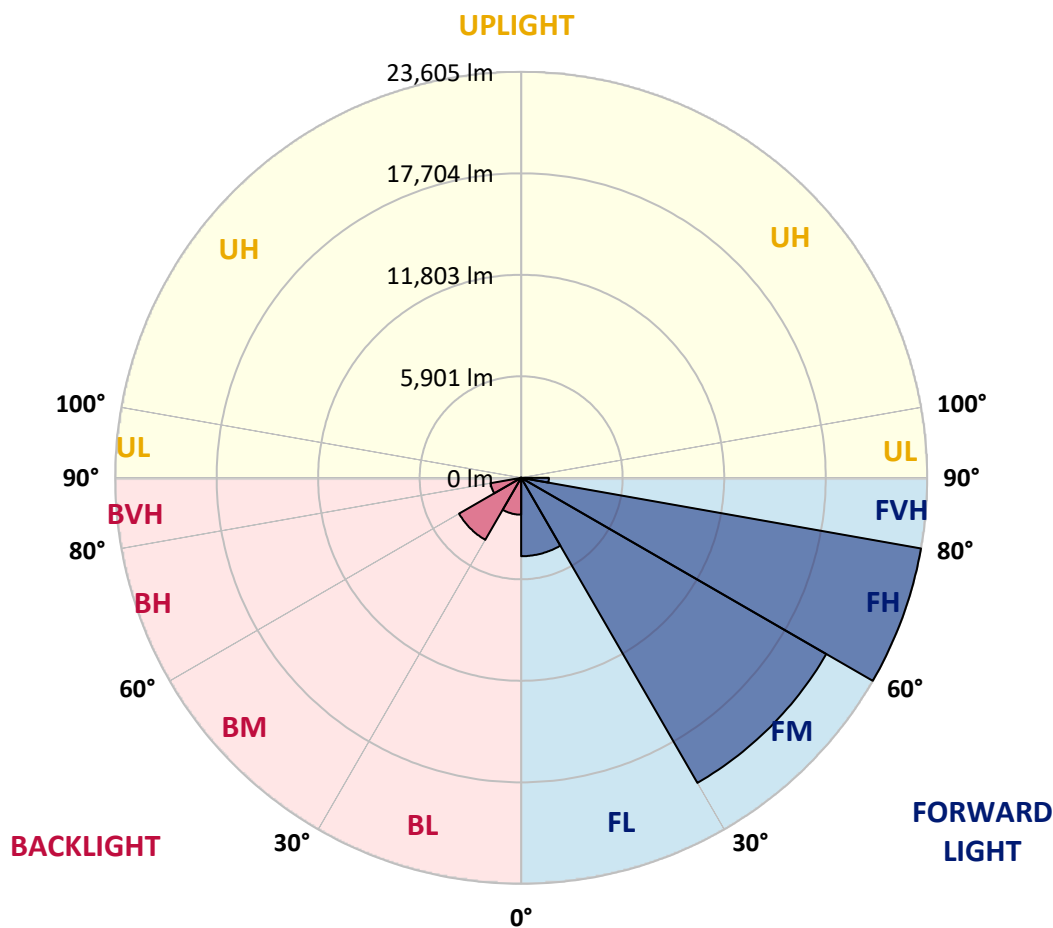
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4557.8	7.8			
FM	(30°-60°)	20481.2	35.0			
FH	(60°-80°)	23605.5	40.4			G5
FVH	(80°-90°)	1608.0	2.8			G5
BL	(0°-30°)	2145.0	3.7	B3/2500		
BM	(30°-60°)	4167.3	7.1	B3/5000		
BH	(60°-80°)	1807.0	3.1	B3/2500		G3/2500
BVH	(80°-90°)	64.2	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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	9142.2	8985.2	8892.6	8663.2	8433.7	8248.5	7998.9	7833.9	7636.6	7447.4	7278.3
5°	10188.9	9935.3	9629.3	9210.6	8828.2	8437.7	8059.3	7684.9	7290.4	6928.1	6706.7
7.5°	11074.5	10708.2	10168.7	9613.2	9126.1	8655.1	8212.3	7717.1	7238.1	6670.5	6368.5
10°	11750.8	11283.8	10575.3	9846.7	9287.1	8812.1	8381.4	7962.7	7479.6	6795.3	6416.9
12.5°	12161.4	11662.2	10820.9	9967.5	9327.4	8796.0	8461.9	8276.7	8087.5	7407.2	6964.3
15°	12463.4	11923.9	10994.0	10052.0	9234.8	8582.6	8337.1	8522.3	8739.6	8304.9	7793.6
17.5°	12777.3	12209.7	11219.4	10088.2	8985.2	8168.0	8063.3	8542.4	9045.6	9025.5	8518.2
20°	13075.2	12511.7	11416.7	10064.1	8582.6	7664.8	7757.4	8369.3	8953.0	9198.6	8924.8
22.5°	13417.4	12821.6	11605.9	9971.5	8059.3	7193.8	7483.6	8095.5	8606.8	8896.6	8812.1
25°	13836.1	13212.1	11871.6	9834.6	7495.7	6803.3	7205.9	7777.5	8192.2	8393.4	8389.4
27.5°	14287.0	13679.1	12225.8	9762.2	7040.8	6525.5	6891.9	7399.1	7769.5	7910.4	7910.4
30°	14846.5	14222.6	12644.5	9681.6	6742.9	6364.5	6565.8	6960.3	7322.6	7463.5	7463.5
32.5°	15458.4	14826.4	13047.1	9488.4	6561.8	6243.8	6247.8	6497.4	6827.5	6996.5	7020.7
35°	16223.3	15551.0	13477.8	9065.7	6416.9	6102.9	5937.8	6058.6	6332.3	6533.6	6585.9
37.5°	17314.2	16501.1	14005.2	8461.9	6203.5	5885.5	5611.7	5639.9	5849.2	6070.6	6151.2
40°	18819.8	17777.2	14625.1	7833.9	5897.5	5579.5	5253.4	5241.4	5394.3	5611.7	5700.3
42.5°	20856.8	19463.9	15369.9	7234.1	5603.7	5209.2	4875.0	4854.9	4975.7	5164.9	5257.5
45°	23545.9	21621.7	16283.7	6718.8	5374.2	4846.9	4516.8	4508.7	4609.3	4774.4	4871.0
47.5°	26987.8	24620.8	17197.5	6368.5	5253.4	4561.0	4222.9	4239.0	4327.6	4476.5	4544.9
50°	31444.2	28529.6	17475.3	6191.4	5253.4	4408.1	3961.2	4041.7	4114.2	4226.9	4267.2
52.5°	36786.2	32281.5	16557.4	6030.4	5285.7	4428.2	3739.8	3912.9	3965.2	4061.9	4078.0
55°	41737.7	34121.2	14234.6	5809.0	5293.7	4553.0	3550.6	3808.2	3904.9	3941.1	3937.1
57.5°	44612.0	33489.2	11509.3	5434.6	5261.5	4637.5	3429.8	3679.4	3864.6	3888.8	3852.5
60°	44064.5	31271.1	8474.0	5148.8	5024.0	4605.3	3393.6	3482.2	3776.0	3812.3	3764.0
62.5°	39845.7	27551.4	5881.4	4927.4	4500.7	4464.4	3381.5	3172.2	3582.8	3671.4	3602.9
65°	32027.9	21690.1	4154.5	4243.0	3945.1	4158.5	3317.1	2850.1	3349.3	3470.1	3365.4
67.5°	23235.9	14677.4	2999.1	3437.9	3574.8	3663.3	3172.2	2616.7	3083.6	3244.7	3107.8
70°	14910.9	7926.5	2105.4	2270.5	3011.2	3111.8	2922.6	2407.3	2813.9	2999.1	2850.1
72.5°	10599.5	4681.8	1513.6	1590.1	2419.4	2592.5	2572.4	2173.8	2499.9	2725.4	2548.2
75°	7314.6	2580.4	1022.5	1135.2	1755.2	2105.4	1984.6	1867.9	2117.5	2346.9	2173.8
77.5°	4585.2	1155.4	611.9	789.0	1151.3	1654.5	1360.7	1445.2	1650.5	1863.9	1682.7
80°	2552.2	446.8	342.2	523.3	628.0	1203.7	752.8	929.9	1215.7	1368.7	1223.8
82.5°	555.5	56.4	153.0	225.4	245.6	700.5	398.5	539.4	764.9	752.8	652.2
85°	0.0	0.0	28.2	32.2	16.1	301.9	144.9	177.1	249.6	233.5	177.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	7246.1	7048.9	6904.0	6831.5	6771.1	6827.5	6859.7	6859.7	6996.5	7077.1	7109.3
5°	6565.8	6211.5	5941.8	5760.7	5652.0	5688.2	5728.5	5772.8	5945.9	6062.6	6139.1
7.5°	6094.8	5551.3	5140.7	4887.1	4754.3	4774.4	4802.6	4838.8	5007.9	5124.6	5225.3
10°	6006.2	5225.3	4645.6	4311.4	4150.4	4122.2	4106.1	4094.1	4194.7	4283.3	4363.8
12.5°	6368.5	5241.4	4432.2	4025.6	3828.4	3743.8	3647.2	3570.7	3586.8	3643.2	3743.8
15°	7016.7	5446.7	4363.8	3876.7	3631.1	3490.2	3377.5	3284.9	3264.8	3284.9	3301.0
17.5°	7757.4	5724.4	4355.7	3747.9	3441.9	3297.0	3204.4	3119.9	3091.7	3095.7	3115.8
20°	8248.5	5945.9	4331.6	3602.9	3260.8	3131.9	3051.4	2966.9	2938.7	2946.8	2950.8
22.5°	8296.8	6062.6	4295.3	3441.9	3079.6	2970.9	2890.4	2813.9	2809.9	2809.9	2834.0
25°	8035.2	6062.6	4218.9	3297.0	2906.5	2809.9	2737.4	2644.8	2660.9	2669.0	2701.2
27.5°	7628.6	5917.7	4073.9	3180.2	2757.6	2656.9	2584.5	2499.9	2520.0	2532.1	2568.4
30°	7226.0	5732.5	3900.8	3047.4	2616.7	2499.9	2447.6	2375.1	2383.2	2399.3	2439.5
32.5°	6851.6	5535.2	3695.5	2938.7	2475.8	2359.0	2318.8	2238.3	2250.3	2266.4	2310.7
35°	6481.3	5317.9	3454.0	2809.9	2346.9	2230.2	2198.0	2105.4	2113.5	2137.6	2185.9
37.5°	6082.7	5088.4	3256.7	2681.1	2222.1	2101.4	2069.2	1972.6	1980.6	2008.8	2065.1
40°	5664.1	4863.0	3063.5	2544.2	2089.3	1968.5	1940.4	1835.7	1843.7	1875.9	1936.3
42.5°	5241.4	4617.4	2914.6	2367.1	1952.4	1823.6	1795.4	1698.8	1710.9	1747.1	1807.5
45°	4850.9	4323.5	2817.9	2169.8	1823.6	1678.7	1650.5	1561.9	1586.1	1626.4	1686.7
47.5°	4516.8	4021.6	2777.7	2004.8	1686.7	1529.7	1505.6	1433.1	1473.4	1517.7	1566.0
50°	4230.9	3731.8	2725.4	1835.7	1557.9	1400.9	1376.8	1328.5	1380.8	1425.1	1469.4
52.5°	4025.6	3401.7	2612.6	1682.7	1445.2	1292.2	1284.2	1260.0	1308.3	1348.6	1388.8
55°	3848.5	3059.5	2431.5	1549.9	1344.6	1199.6	1207.7	1195.6	1235.9	1268.1	1304.3
57.5°	3687.5	2761.6	2202.0	1445.2	1235.9	1119.1	1143.3	1127.2	1147.3	1167.4	1211.7
60°	3494.2	2459.7	1928.3	1328.5	1107.0	1038.6	1066.8	1022.5	1018.5	1026.5	1038.6
62.5°	3208.4	2053.1	1642.5	1183.5	994.3	950.0	962.1	877.6	813.2	813.2	825.3
65°	2809.9	1650.5	1376.8	1022.5	865.5	829.3	821.2	700.5	611.9	603.8	640.1
67.5°	2346.9	1356.6	1143.3	861.5	720.6	696.4	704.5	615.9	527.4	519.3	559.6
70°	1912.2	1123.2	921.9	688.4	555.5	579.7	615.9	527.4	442.8	430.7	467.0
72.5°	1553.9	893.7	720.6	527.4	410.6	479.0	523.3	430.7	350.2	342.2	374.4
75°	1199.6	656.2	515.3	358.3	297.9	370.4	410.6	314.0	249.6	237.5	265.7
77.5°	801.1	406.6	289.8	225.4	177.1	253.6	273.7	165.1	144.9	140.9	161.0
80°	487.1	189.2	124.8	108.7	60.4	92.6	108.7	68.4	76.5	80.5	96.6
82.5°	245.6	52.3	20.1	4.0	0.0	0.0	32.2	16.1	32.2	40.3	60.4
85°	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.1	36.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	7334.7	7503.8	7664.8	7922.4	8188.1	8449.8	8715.5	8973.1	9065.7	9134.2	9287.1
5°	6489.3	6807.3	7177.7	7689.0	8236.4	8800.0	9371.7	9895.0	10132.5	10293.5	10655.8
7.5°	5615.8	6030.4	6561.8	7330.7	8188.1	9085.8	9983.6	10808.8	11191.3	11501.2	12052.7
10°	4750.2	5201.1	5873.4	6751.0	7910.4	9198.6	10438.5	11573.7	12068.8	12459.3	13208.1
12.5°	3989.4	4412.1	5116.6	6086.8	7475.6	9110.0	10700.1	12064.8	12648.5	13087.3	13908.6
15°	3454.0	3751.9	4375.9	5422.5	6960.3	8824.2	10716.2	12298.3	12938.4	13397.3	14109.8
17.5°	3156.1	3256.7	3663.3	4746.2	6388.7	8449.8	10567.3	12378.8	13063.2	13489.9	13985.0
20°	2995.1	3011.2	3123.9	3868.6	5656.0	8099.6	10426.4	12459.3	13179.9	13538.2	13687.1
22.5°	2866.2	2866.2	2894.4	3164.1	4710.0	7680.9	10382.1	12600.2	13340.9	13562.3	13256.4
25°	2749.5	2749.5	2757.6	2830.0	3731.8	7040.8	10353.9	12817.6	13562.3	13622.7	12781.4
27.5°	2628.7	2632.8	2632.8	2673.0	3007.1	6171.3	10233.2	13099.4	13828.0	13703.2	12326.5
30°	2508.0	2516.0	2516.0	2544.2	2660.9	5152.8	9995.6	13437.6	14174.2	13807.9	11875.6
32.5°	2387.2	2395.2	2395.2	2419.4	2503.9	4114.2	9697.7	13747.5	14524.5	13852.2	11456.9
35°	2262.4	2274.5	2266.4	2298.6	2387.2	3272.8	9319.3	14057.5	14902.9	13993.1	11251.6
37.5°	2137.6	2145.7	2141.6	2173.8	2274.5	2826.0	8880.5	14291.0	15418.2	14307.1	11497.2
40°	2012.8	2008.8	2008.8	2045.0	2153.7	2697.2	8329.0	14661.3	16158.9	14858.6	12568.0
42.5°	1884.0	1884.0	1875.9	1916.2	2049.0	2600.6	7801.7	15325.6	17237.7	15736.2	14468.1
45°	1767.3	1763.2	1747.1	1783.4	1948.4	2431.5	7616.5	16565.5	18831.9	17157.2	16766.7
47.5°	1654.5	1650.5	1610.3	1642.5	1827.6	2278.5	8308.9	18594.4	21042.0	19246.5	18920.5
50°	1553.9	1557.9	1481.4	1509.6	1706.9	2161.8	9810.5	21227.1	23976.7	22060.5	20961.5
52.5°	1461.3	1461.3	1360.7	1376.8	1557.9	2057.1	11239.6	24081.3	27849.3	25985.4	23340.6
55°	1368.7	1360.7	1247.9	1256.0	1409.0	1908.1	11452.9	26867.1	33130.9	31891.0	26593.3
57.5°	1264.0	1247.9	1143.3	1143.3	1272.1	1799.5	9927.2	29008.7	39684.7	40570.3	31283.2
60°	1135.2	1123.2	1054.7	1034.6	1163.4	1896.1	7004.6	29258.3	43911.6	52111.8	40264.4
62.5°	970.2	986.3	950.0	921.9	1058.7	1968.5	4150.4	27249.5	42889.1	55783.2	51020.8
65°	764.9	829.3	821.2	801.1	1163.4	1658.6	2451.6	23392.9	39753.1	52820.3	48826.9
67.5°	652.2	696.4	684.4	684.4	1219.8	1260.0	1541.8	18276.4	35437.6	49305.9	43613.7
70°	555.5	599.8	555.5	555.5	921.9	764.9	1066.8	12761.2	30780.0	45417.2	40191.9
72.5°	458.9	503.2	454.9	422.7	736.7	571.6	781.0	7974.8	26359.8	41367.4	37849.0
75°	350.2	402.6	366.3	326.1	487.1	426.7	591.8	4633.5	21839.0	35393.3	34511.7
77.5°	221.4	289.8	273.7	229.5	358.3	310.0	426.7	2757.6	16851.3	27656.1	29685.0
80°	136.9	148.9	153.0	144.9	205.3	209.3	289.8	1570.0	11533.4	19274.7	23191.7
82.5°	88.6	88.6	68.4	76.5	100.6	120.8	165.1	591.8	6779.2	11734.7	16142.8
85°	64.4	56.4	36.2	36.2	48.3	60.4	64.4	181.2	2749.5	4633.5	6312.2
87.5°	32.2	28.2	12.1	16.1	24.2	20.1	16.1	8.1	692.4	1481.4	1038.6
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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	9367.6	9492.4	9500.5	9500.5	9391.8	9387.8	9166.4	9142.2
5°	11030.2	11110.7	11130.9	11090.6	10873.2	10712.2	10281.5	10188.9
7.5°	12551.9	12712.9	12712.9	12616.3	12262.1	11932.0	11308.0	11074.5
10°	13767.7	13952.8	13912.6	13715.3	13268.5	12813.6	12056.8	11750.8
12.5°	14359.4	14548.6	14444.0	14218.5	13783.8	13304.7	12507.6	12161.4
15°	14347.3	14295.0	14186.3	14158.1	13948.8	13586.5	12841.8	12463.4
17.5°	13836.1	13393.3	13308.7	13590.5	13856.2	13767.7	13131.6	12777.3
20°	13026.9	12254.0	12177.5	12717.0	13473.8	13860.2	13401.3	13075.2
22.5°	12173.5	11340.2	11163.1	11758.9	12898.1	13888.4	13743.5	13417.4
25°	11364.4	10527.0	10349.9	10905.4	12258.0	13840.1	14113.9	13836.1
27.5°	10688.0	9878.9	9713.8	10269.4	11642.1	13703.2	14484.2	14287.0
30°	10164.7	9415.9	9295.2	9830.6	11110.7	13534.2	14955.2	14846.5
32.5°	9858.8	9311.3	9355.6	9794.4	10824.9	13349.0	15406.1	15458.4
35°	10160.7	10184.8	10571.3	10752.5	11090.6	13320.8	16018.0	16223.3
37.5°	11662.2	12499.6	13300.7	13151.7	12390.9	13646.9	16931.8	17314.2
40°	14218.5	15937.5	17237.7	16670.1	14753.9	14645.2	18248.2	18819.8
42.5°	17342.4	20257.0	22398.6	20876.9	17801.3	16392.4	20128.1	20856.8
45°	20639.4	25582.9	28956.4	25792.2	21050.0	18839.9	22974.3	23545.9
47.5°	24113.5	32056.1	36419.9	31242.9	24061.2	21625.7	26855.0	26987.8
50°	27913.7	39153.3	44028.3	36689.6	26967.7	24818.0	31597.2	31444.2
52.5°	31532.8	46451.7	51475.7	42160.4	29519.9	28779.2	37100.2	36786.2
55°	34986.7	53746.2	58967.4	47417.9	31927.3	34012.5	43637.8	41737.7
57.5°	38992.3	60303.9	66688.6	52699.5	35292.7	40807.8	50948.4	44612.0
60°	44914.0	67755.4	75420.2	59937.6	41693.4	47949.3	53569.1	44064.5
62.5°	52474.1	74607.0	81768.6	67030.8	48122.4	49293.8	49708.5	39845.7
65°	53943.4	76342.0	82126.9	68926.8	47293.1	41814.2	40582.4	32027.9
67.5°	50046.6	73206.1	77119.0	65396.4	41834.3	32313.7	30453.9	23235.9
70°	45674.8	67228.0	68391.4	59394.1	36794.3	23767.3	20566.9	14910.9
72.5°	41194.3	59253.2	56845.9	51580.4	32337.9	17306.2	14834.4	10599.5
75°	35872.4	48766.5	44777.1	42856.9	26774.5	13582.5	10732.3	7314.6
77.5°	28726.9	34326.5	33259.8	33219.5	20120.1	9923.2	7161.6	4585.2
80°	20265.0	22277.8	21734.4	25019.3	13497.9	7197.8	4311.4	2552.2
82.5°	9810.5	12318.4	12644.5	14898.9	6565.8	4235.0	994.3	555.5
85°	3840.5	5941.8	5011.9	5656.0	1843.7	1179.5	24.2	0.0
87.5°	430.7	688.4	632.0	499.2	225.4	48.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)