

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: P956979

Luminaire Tested: **GALN-SB9C-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956979
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-SB9C-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA 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: 43006 lumens
Efficiency: N/A
Efficacy: 95.6 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): 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

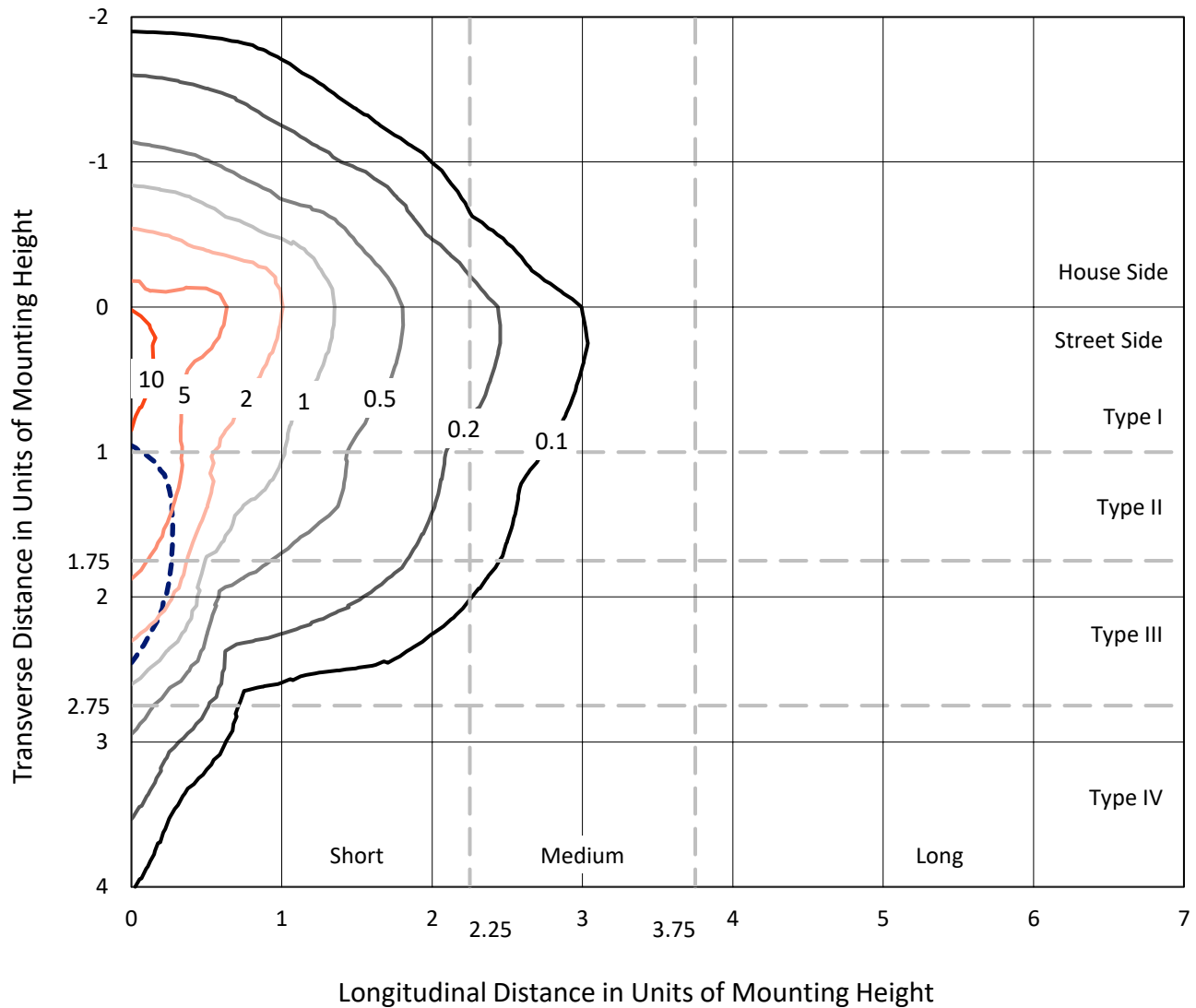


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Iso-Footcandle Lines of Horizontal Illumination

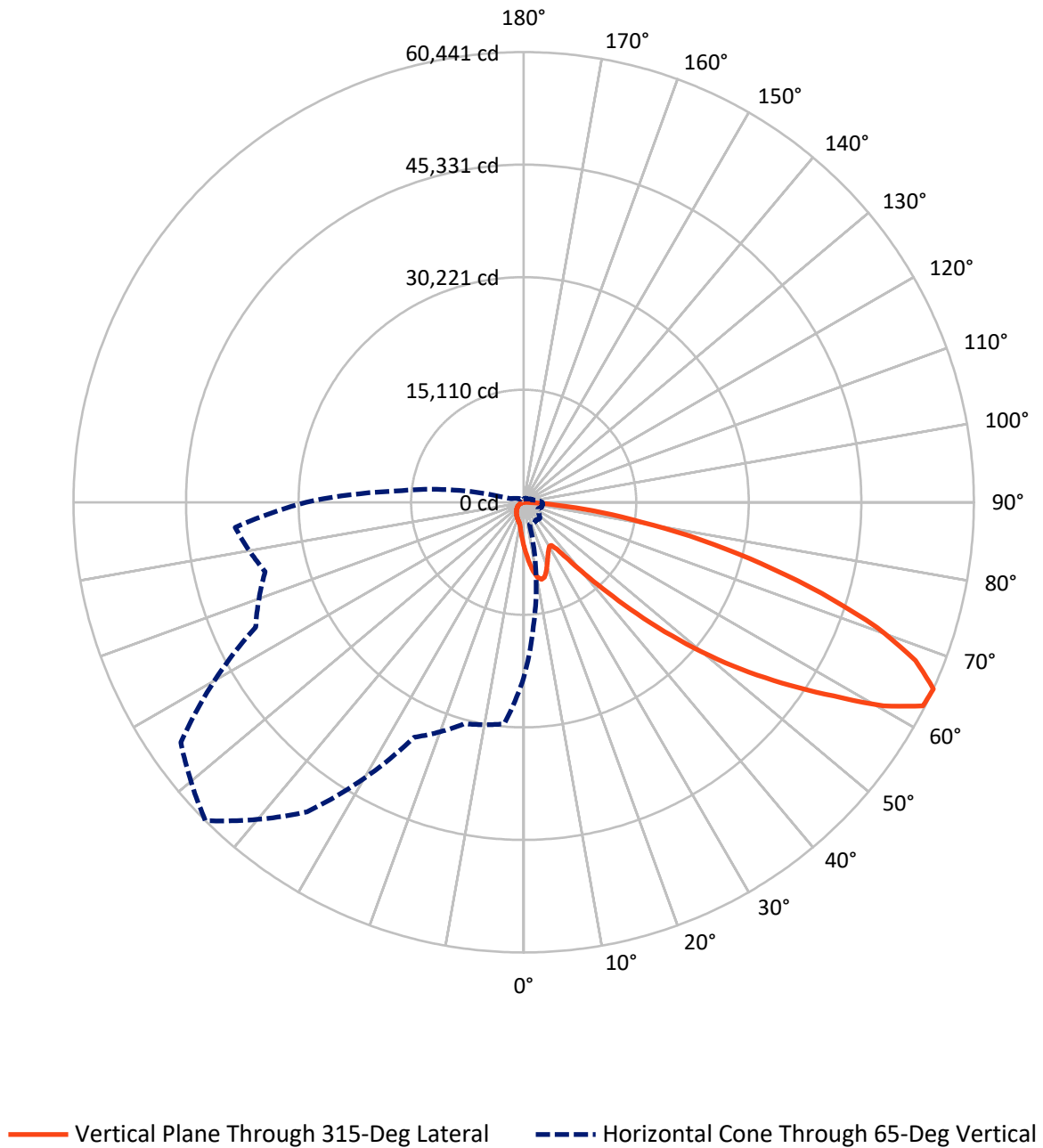
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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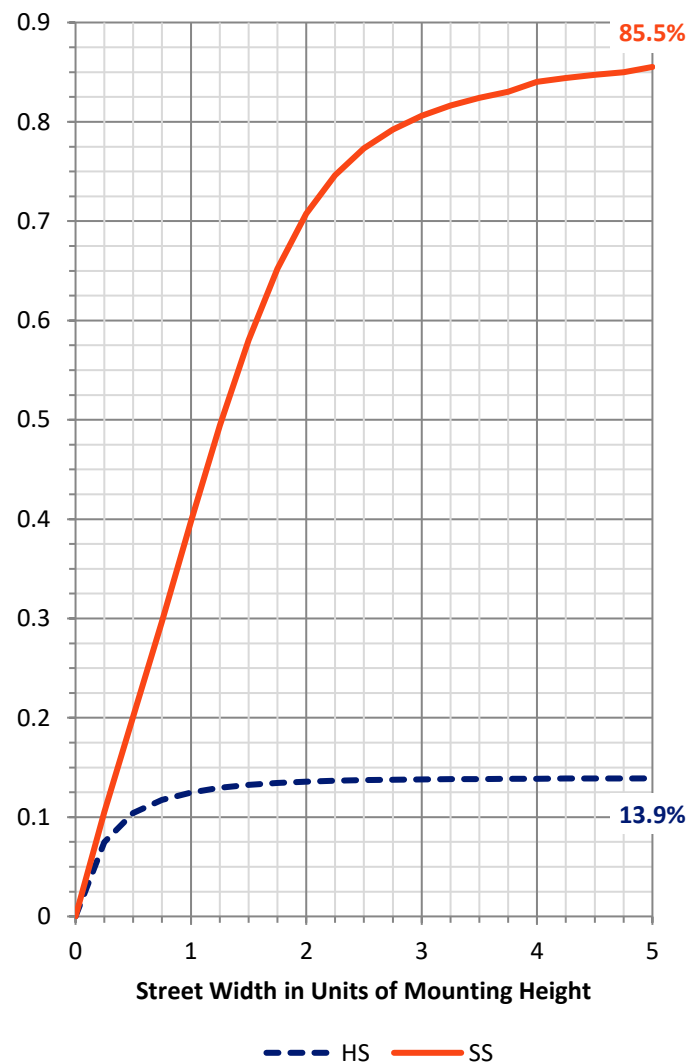
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6022.7	0.0	6022.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36983.3	0.0	36983.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	43006.0	0.0	43006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.3	1.4
10°-20°	1757.5	4.1
20°-30°	2589.2	6.0
30°-40°	3326.4	7.7
40°-50°	5379.7	12.5
50°-60°	9433.9	21.9
60°-70°	11804.4	27.4
70°-80°	6897.9	16.0
80°-90°	1230.7	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°	43006.0	100.0
0°-180°	43006.0	100.0

Coefficient of Utilization



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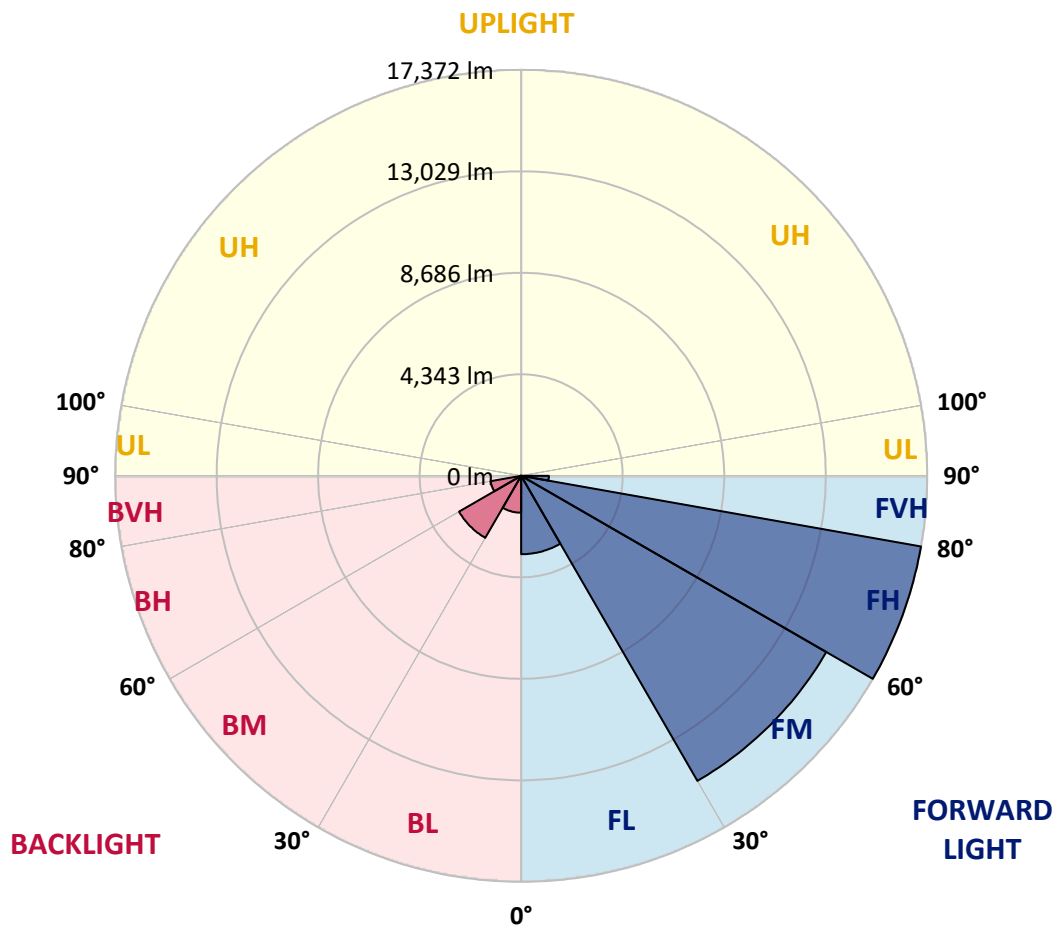
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3354.3	7.8			
FM	(30°-60°)	15073.1	35.0			
FH	(60°-80°)	17372.5	40.4			G5
FVH	(80°-90°)	1183.4	2.8			G5
BL	(0°-30°)	1578.6	3.7	B3/2500		
BM	(30°-60°)	3066.9	7.1	B3/5000		
BH	(60°-80°)	1329.8	3.1	B3/2500		G3/2500
BVH	(80°-90°)	47.3	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°	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0
2.5°	6728.2	6612.7	6544.5	6375.7	6206.8	6070.5	5886.8	5765.3	5620.2	5480.9	5356.5
5°	7498.5	7311.9	7086.7	6778.6	6497.1	6209.7	5931.3	5655.7	5365.4	5098.7	4935.8
7.5°	8150.3	7880.7	7483.7	7074.8	6716.4	6369.7	6043.8	5679.4	5326.9	4909.1	4686.9
10°	8648.0	8304.3	7782.9	7246.7	6834.9	6485.3	6168.3	5860.1	5504.6	5001.0	4722.5
12.5°	8950.2	8582.8	7963.6	7335.6	6864.5	6473.4	6227.5	6091.2	5952.0	5451.3	5125.4
15°	9172.4	8775.4	8091.0	7397.8	6796.4	6316.4	6135.7	6272.0	6431.9	6112.0	5735.7
17.5°	9403.5	8985.8	8256.9	7424.4	6612.7	6011.2	5934.2	6286.8	6657.1	6642.3	6269.0
20°	9622.7	9208.0	8402.1	7406.7	6316.4	5640.9	5709.1	6159.4	6589.0	6769.7	6568.2
22.5°	9874.6	9436.1	8541.4	7338.5	5931.3	5294.3	5507.6	5957.9	6334.2	6547.5	6485.3
25°	10182.7	9723.5	8736.9	7237.8	5516.5	5006.9	5303.2	5723.9	6029.0	6177.2	6174.2
27.5°	10514.5	10067.1	8997.6	7184.5	5181.7	4802.5	5072.1	5445.4	5717.9	5821.6	5821.6
30°	10926.3	10467.1	9305.7	7125.2	4962.5	4684.0	4832.1	5122.4	5389.1	5492.8	5492.8
32.5°	11376.6	10911.5	9602.0	6983.0	4829.1	4595.1	4598.1	4781.7	5024.7	5149.1	5166.9
35°	11939.5	11444.8	9919.0	6671.9	4722.5	4491.4	4369.9	4458.8	4660.3	4808.4	4846.9
37.5°	12742.4	12144.0	10307.1	6227.5	4565.5	4331.4	4130.0	4150.7	4304.8	4467.7	4527.0
40°	13850.5	13083.1	10763.4	5765.3	4340.3	4106.3	3866.3	3857.4	3970.0	4130.0	4195.1
42.5°	15349.6	14324.5	11311.5	5323.9	4124.0	3833.7	3587.8	3573.0	3661.9	3801.1	3869.2
45°	17328.6	15912.5	11984.0	4944.7	3955.2	3567.0	3324.1	3318.2	3392.3	3513.7	3584.8
47.5°	19861.7	18119.7	12656.5	4686.9	3866.3	3356.7	3107.8	3119.7	3184.9	3294.5	3344.8
50°	23141.4	20996.4	12860.9	4556.6	3866.3	3244.1	2915.3	2974.5	3027.8	3110.8	3140.4
52.5°	27072.8	23757.6	12185.4	4438.1	3890.0	3258.9	2752.3	2879.7	2918.2	2989.3	3001.2
55°	30716.9	25111.5	10476.0	4275.1	3895.9	3350.8	2613.1	2802.7	2873.8	2900.4	2897.5
57.5°	32832.2	24646.4	8470.3	3999.6	3872.2	3413.0	2524.2	2707.9	2844.2	2861.9	2835.3
60°	32429.3	23014.0	6236.4	3789.2	3697.4	3389.3	2497.5	2562.7	2779.0	2805.6	2770.1
62.5°	29324.4	20276.5	4328.5	3626.3	3312.3	3285.6	2488.6	2334.6	2636.8	2701.9	2651.6
65°	23571.0	15962.8	3057.5	3122.6	2903.4	3060.4	2441.2	2097.6	2464.9	2553.8	2476.8
67.5°	17100.5	10801.9	2207.2	2530.1	2630.8	2696.0	2334.6	1925.7	2269.4	2387.9	2287.2
70°	10973.7	5833.5	1549.5	1670.9	2216.1	2290.1	2150.9	1771.7	2070.9	2207.2	2097.6
72.5°	7800.7	3445.6	1114.0	1170.3	1780.6	1908.0	1893.1	1599.8	1839.8	2005.7	1875.4
75°	5383.2	1899.1	752.5	835.5	1291.7	1549.5	1460.6	1374.7	1558.4	1727.2	1599.8
77.5°	3374.5	850.3	450.3	580.7	847.3	1217.7	1001.4	1063.6	1214.7	1371.7	1238.4
80°	1878.3	328.9	251.8	385.1	462.2	885.8	554.0	684.4	894.7	1007.3	900.6
82.5°	408.8	41.5	112.6	165.9	180.7	515.5	293.3	397.0	562.9	554.0	480.0
85°	0.0	0.0	20.7	23.7	11.9	222.2	106.7	130.4	183.7	171.8	130.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	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°	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0
2.5°	5332.8	5187.6	5081.0	5027.6	4983.2	5024.7	5048.4	5048.4	5149.1	5208.4	5232.1
5°	4832.1	4571.4	4372.9	4239.6	4159.6	4186.2	4215.9	4248.5	4375.9	4461.8	4518.1
7.5°	4485.5	4085.5	3783.3	3596.7	3498.9	3513.7	3534.5	3561.1	3685.6	3771.5	3845.5
10°	4420.3	3845.5	3418.9	3173.0	3054.5	3033.8	3021.9	3013.0	3087.1	3152.3	3211.5
12.5°	4686.9	3857.4	3261.9	2962.7	2817.5	2755.3	2684.2	2627.9	2639.7	2681.2	2755.3
15°	5163.9	4008.5	3211.5	2853.0	2672.3	2568.6	2485.7	2417.5	2402.7	2417.5	2429.4
17.5°	5709.1	4212.9	3205.6	2758.2	2533.1	2426.4	2358.3	2296.1	2275.3	2278.3	2293.1
20°	6070.5	4375.9	3187.8	2651.6	2399.8	2305.0	2245.7	2183.5	2162.7	2168.7	2171.6
22.5°	6106.1	4461.8	3161.2	2533.1	2266.4	2186.4	2127.2	2070.9	2067.9	2067.9	2085.7
25°	5913.5	4461.8	3104.9	2426.4	2139.0	2067.9	2014.6	1946.5	1958.3	1964.2	1987.9
27.5°	5614.2	4355.1	2998.2	2340.5	2029.4	1955.4	1902.0	1839.8	1854.6	1863.5	1890.2
30°	5318.0	4218.8	2870.8	2242.7	1925.7	1839.8	1801.3	1748.0	1753.9	1765.7	1795.4
32.5°	5042.5	4073.7	2719.7	2162.7	1822.0	1736.1	1706.5	1647.2	1656.1	1668.0	1700.6
35°	4769.9	3913.7	2542.0	2067.9	1727.2	1641.3	1617.6	1549.5	1555.4	1573.2	1608.7
37.5°	4476.6	3744.8	2396.8	1973.1	1635.4	1546.5	1522.8	1451.7	1457.6	1478.4	1519.8
40°	4168.5	3578.9	2254.6	1872.4	1537.6	1448.7	1428.0	1351.0	1356.9	1380.6	1425.0
42.5°	3857.4	3398.2	2145.0	1742.0	1436.9	1342.1	1321.3	1250.2	1259.1	1285.8	1330.2
45°	3570.0	3181.9	2073.9	1596.9	1342.1	1235.4	1214.7	1149.5	1167.3	1196.9	1241.4
47.5°	3324.1	2959.7	2044.2	1475.4	1241.4	1125.8	1108.0	1054.7	1084.3	1116.9	1152.5
50°	3113.8	2746.4	2005.7	1351.0	1146.6	1031.0	1013.2	977.7	1016.2	1048.8	1081.4
52.5°	2962.7	2503.5	1922.8	1238.4	1063.6	951.0	945.1	927.3	962.9	992.5	1022.1
55°	2832.3	2251.6	1789.4	1140.6	989.5	882.9	888.8	879.9	909.5	933.2	959.9
57.5°	2713.8	2032.4	1620.6	1063.6	909.5	823.6	841.4	829.5	844.4	859.2	891.8
60°	2571.6	1810.2	1419.1	977.7	814.7	764.4	785.1	752.5	749.6	755.5	764.4
62.5°	2361.2	1511.0	1208.8	871.0	731.8	699.2	708.1	645.9	598.5	598.5	607.3
65°	2067.9	1214.7	1013.2	752.5	637.0	610.3	604.4	515.5	450.3	444.4	471.1
67.5°	1727.2	998.4	841.4	634.0	530.3	512.5	518.5	453.3	388.1	382.2	411.8
70°	1407.3	826.6	678.5	506.6	408.8	426.6	453.3	388.1	325.9	317.0	343.7
72.5°	1143.6	657.7	530.3	388.1	302.2	352.6	385.1	317.0	257.8	251.8	275.5
75°	882.9	482.9	379.2	263.7	219.2	272.6	302.2	231.1	183.7	174.8	195.5
77.5°	589.6	299.2	213.3	165.9	130.4	186.6	201.5	121.5	106.7	103.7	118.5
80°	358.5	139.2	91.8	80.0	44.4	68.1	80.0	50.4	56.3	59.3	71.1
82.5°	180.7	38.5	14.8	3.0	0.0	0.0	23.7	11.9	23.7	29.6	44.4
85°	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.8	26.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
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°	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0
2.5°	5398.0	5522.4	5640.9	5830.5	6026.1	6218.6	6414.2	6603.8	6671.9	6722.3	6834.9
5°	4775.8	5009.9	5282.4	5658.7	6061.6	6476.4	6897.1	7282.2	7457.0	7575.5	7842.2
7.5°	4132.9	4438.1	4829.1	5395.0	6026.1	6686.7	7347.4	7954.8	8236.2	8464.3	8870.2
10°	3495.9	3827.8	4322.5	4968.4	5821.6	6769.7	7682.2	8517.7	8882.1	9169.4	9720.5
12.5°	2936.0	3247.1	3765.5	4479.5	5501.7	6704.5	7874.8	8879.1	9308.7	9631.6	10236.0
15°	2542.0	2761.2	3220.4	3990.7	5122.4	6494.2	7886.6	9050.9	9522.0	9859.7	10384.1
17.5°	2322.7	2396.8	2696.0	3493.0	4701.7	6218.6	7777.0	9110.2	9613.8	9927.9	10292.3
20°	2204.2	2216.1	2299.0	2847.1	4162.5	5960.9	7673.3	9169.4	9699.8	9963.4	10073.1
22.5°	2109.4	2109.4	2130.2	2328.7	3466.3	5652.8	7640.7	9273.1	9818.3	9981.2	9756.1
25°	2023.5	2023.5	2029.4	2082.8	2746.4	5181.7	7620.0	9433.1	9981.2	10025.7	9406.5
27.5°	1934.6	1937.6	1937.6	1967.2	2213.1	4541.8	7531.1	9640.5	10176.8	10084.9	9071.7
30°	1845.7	1851.7	1851.7	1872.4	1958.3	3792.2	7356.3	9889.4	10431.5	10161.9	8739.9
32.5°	1756.9	1762.8	1762.8	1780.6	1842.8	3027.8	7137.1	10117.5	10689.3	10194.5	8431.7
35°	1665.0	1673.9	1668.0	1691.7	1756.9	2408.6	6858.6	10345.6	10967.8	10298.2	8280.6
37.5°	1573.2	1579.1	1576.1	1599.8	1673.9	2079.8	6535.6	10517.5	11347.0	10529.3	8461.4
40°	1481.3	1478.4	1478.4	1505.0	1585.0	1985.0	6129.8	10790.0	11892.1	10935.2	9249.4
42.5°	1386.5	1386.5	1380.6	1410.2	1508.0	1913.9	5741.6	11278.9	12686.1	11581.1	10647.8
45°	1300.6	1297.6	1285.8	1312.5	1433.9	1789.4	5605.4	12191.4	13859.3	12626.9	12339.5
47.5°	1217.7	1214.7	1185.1	1208.8	1345.0	1676.9	6114.9	13684.5	15485.8	14164.5	13924.5
50°	1143.6	1146.6	1090.3	1111.0	1256.2	1591.0	7220.0	15622.1	17645.6	16235.4	15426.6
52.5°	1075.4	1075.4	1001.4	1013.2	1146.6	1513.9	8271.8	17722.7	20495.7	19124.0	17177.5
55°	1007.3	1001.4	918.4	924.4	1036.9	1404.3	8428.8	19772.8	24382.7	23470.2	19571.4
57.5°	930.3	918.4	841.4	841.4	936.2	1324.3	7305.9	21349.0	29205.9	29857.7	23022.9
60°	835.5	826.6	776.2	761.4	856.2	1395.4	5155.0	21532.6	32316.7	38351.7	29632.6
62.5°	714.0	725.9	699.2	678.5	779.2	1448.7	3054.5	20054.3	31564.2	41053.6	37548.8
65°	562.9	610.3	604.4	589.6	856.2	1220.6	1804.3	17216.0	29256.3	38873.1	35934.2
67.5°	480.0	512.5	503.7	503.7	897.7	927.3	1134.7	13450.5	26080.3	36286.7	32097.5
70°	408.8	441.4	408.8	408.8	678.5	562.9	785.1	9391.6	22652.5	33424.8	29579.2
72.5°	337.7	370.3	334.8	311.1	542.2	420.7	574.8	5869.0	19399.5	30444.3	27855.0
75°	257.8	296.3	269.6	240.0	358.5	314.0	435.5	3410.0	16072.5	26047.7	25398.9
77.5°	162.9	213.3	201.5	168.9	263.7	228.1	314.0	2029.4	12401.7	20353.5	21846.7
80°	100.7	109.6	112.6	106.7	151.1	154.1	213.3	1155.4	8488.0	14185.2	17067.9
82.5°	65.2	65.2	50.4	56.3	74.1	88.9	121.5	435.5	4989.1	8636.2	11880.3
85°	47.4	41.5	26.7	26.7	35.6	44.4	47.4	133.3	2023.5	3410.0	4645.5
87.5°	23.7	20.7	8.9	11.9	17.8	14.8	11.9	5.9	509.6	1090.3	764.4
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°	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0	5955.0
2.5°	6894.1	6986.0	6991.9	6991.9	6911.9	6908.9	6746.0	6728.2
5°	8117.7	8177.0	8191.8	8162.1	8002.2	7883.6	7566.6	7498.5
7.5°	9237.6	9356.1	9356.1	9285.0	9024.3	8781.3	8322.1	8150.3
10°	10132.3	10268.6	10239.0	10093.8	9764.9	9430.2	8873.2	8648.0
12.5°	10567.8	10707.1	10630.0	10464.1	10144.2	9791.6	9205.0	8950.2
15°	10558.9	10520.4	10440.4	10419.7	10265.6	9999.0	9450.9	9172.4
17.5°	10182.7	9856.8	9794.6	10002.0	10197.5	10132.3	9664.2	9403.5
20°	9587.2	9018.3	8962.1	9359.1	9916.0	10200.5	9862.7	9622.7
22.5°	8959.1	8345.8	8215.5	8653.9	9492.4	10221.2	10114.5	9874.6
25°	8363.6	7747.4	7617.0	8025.9	9021.3	10185.6	10387.1	10182.7
27.5°	7865.9	7270.4	7148.9	7557.8	8568.0	10084.9	10659.7	10514.5
30°	7480.7	6929.7	6840.8	7234.8	8177.0	9960.5	11006.3	10926.3
32.5°	7255.6	6852.6	6885.2	7208.2	7966.6	9824.2	11338.1	11376.6
35°	7477.8	7495.5	7780.0	7913.3	8162.1	9803.5	11788.4	11939.5
37.5°	8582.8	9199.1	9788.6	9679.0	9119.1	10043.4	12461.0	12742.4
40°	10464.1	11729.2	12686.1	12268.4	10858.2	10778.2	13429.8	13850.5
42.5°	12763.2	14908.1	16484.3	15364.4	13100.9	12064.0	14813.3	15349.6
45°	15189.6	18827.7	21310.4	18981.8	15491.8	13865.3	16907.9	17328.6
47.5°	17746.4	23591.7	26803.2	22993.2	17707.8	15915.4	19763.9	19861.7
50°	20543.1	28814.9	32402.7	27001.7	19846.9	18264.8	23254.0	23141.4
52.5°	23206.5	34186.2	37883.6	31028.0	21725.2	21180.1	27303.9	27072.8
55°	25748.5	39554.5	43397.1	34897.2	23496.9	25031.5	32115.3	30716.9
57.5°	28696.4	44380.7	49079.5	38784.2	25973.7	30032.5	37495.5	32832.2
60°	33054.4	49864.6	55505.5	44111.1	30684.3	35288.3	39424.2	32429.3
62.5°	38618.3	54907.1	60177.6	49331.3	35415.7	36277.8	36583.0	29324.4
65°	39699.7	56184.0	60441.3	50726.7	34805.4	30773.2	29866.6	23571.0
67.5°	36831.8	53876.0	56755.8	48128.5	30788.0	23781.3	22412.6	17100.5
70°	33614.4	49476.5	50332.7	43711.1	27078.8	17491.6	15136.3	10973.7
72.5°	30316.9	43607.5	41835.8	37960.6	23799.1	12736.5	10917.4	7800.7
75°	26400.3	35889.7	32953.7	31540.5	19704.7	9996.0	7898.5	5383.2
77.5°	21141.6	25262.6	24477.5	24447.9	14807.4	7303.0	5270.6	3374.5
80°	14914.1	16395.4	15995.4	18413.0	9933.8	5297.2	3173.0	1878.3
82.5°	7220.0	9065.8	9305.7	10964.8	4832.1	3116.7	731.8	408.8
85°	2826.4	4372.9	3688.5	4162.5	1356.9	868.1	17.8	0.0
87.5°	317.0	506.6	465.1	367.4	165.9	35.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)