

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: P956412

Luminaire Tested: **GALN-SB9A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956412
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-SB9A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA 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: 27115 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

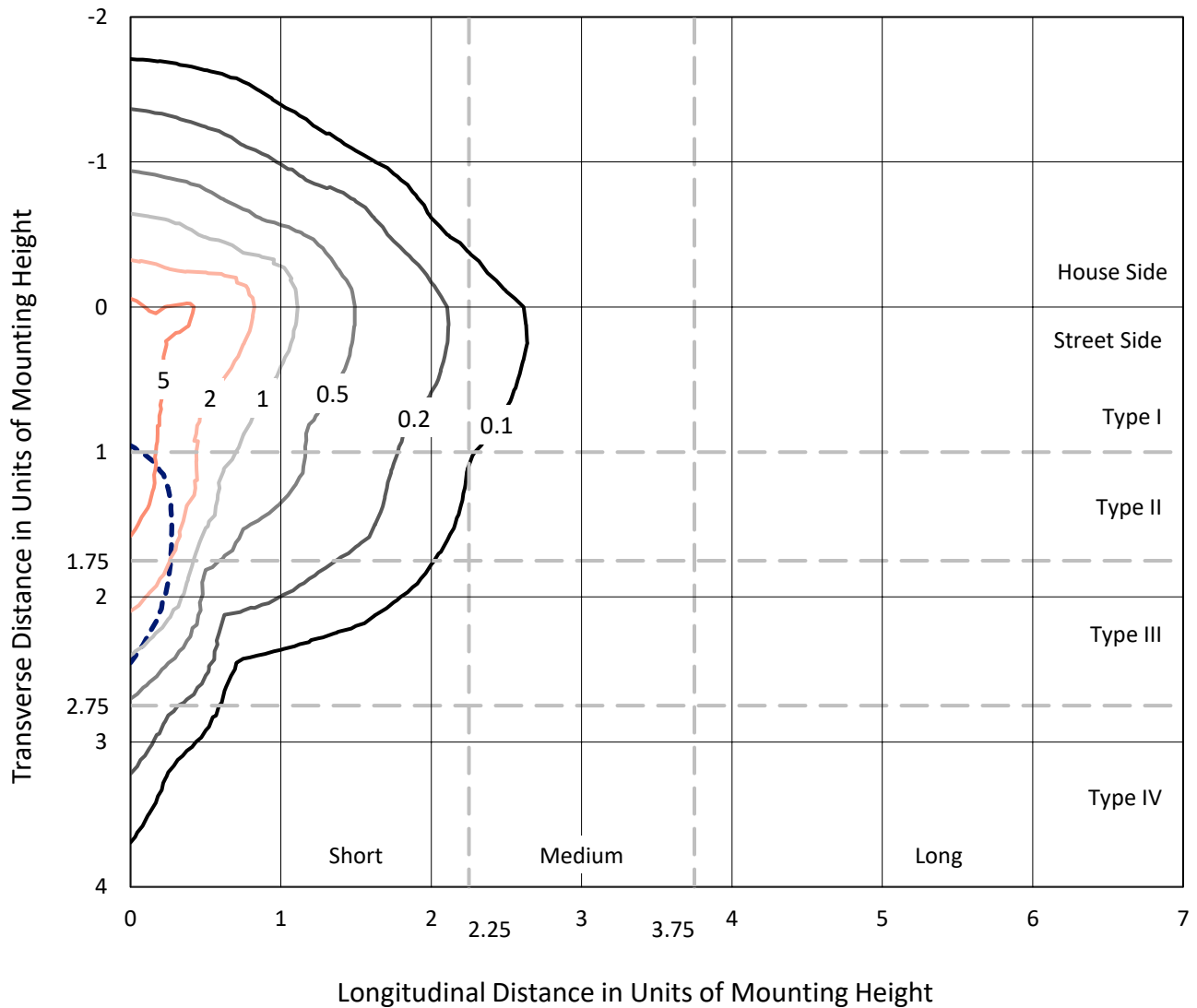
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

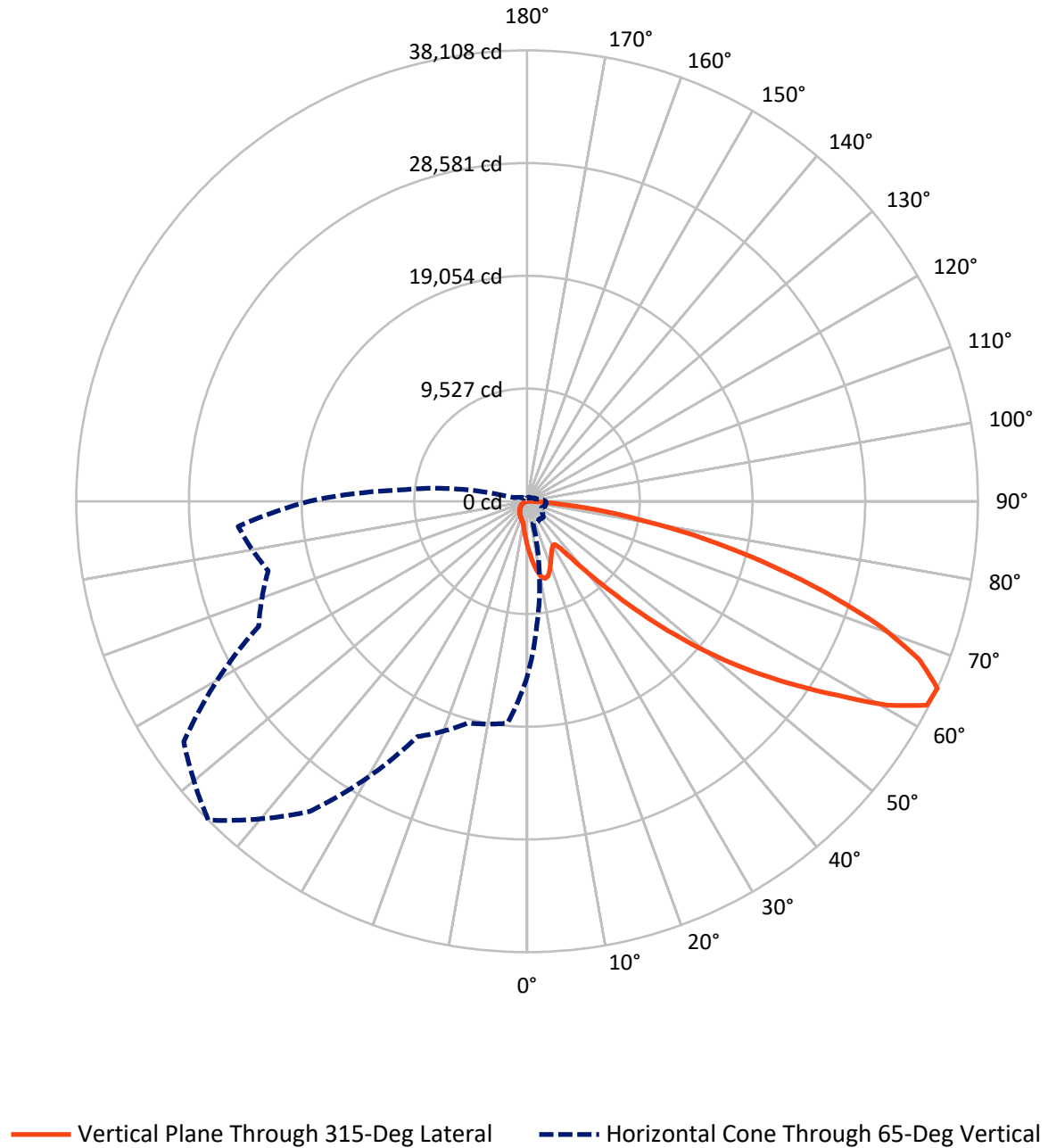
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3797.3	0.0	3797.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23317.7	0.0	23317.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	27115.0	0.0	27115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	1.4
10°-20°	1108.1	4.1
20°-30°	1632.5	6.0
30°-40°	2097.3	7.7
40°-50°	3391.9	12.5
50°-60°	5948.0	21.9
60°-70°	7442.6	27.4
70°-80°	4349.1	16.0
80°-90°	775.9	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°	27115.0	100.0
0°-180°	27115.0	100.0

Coefficient of Utilization



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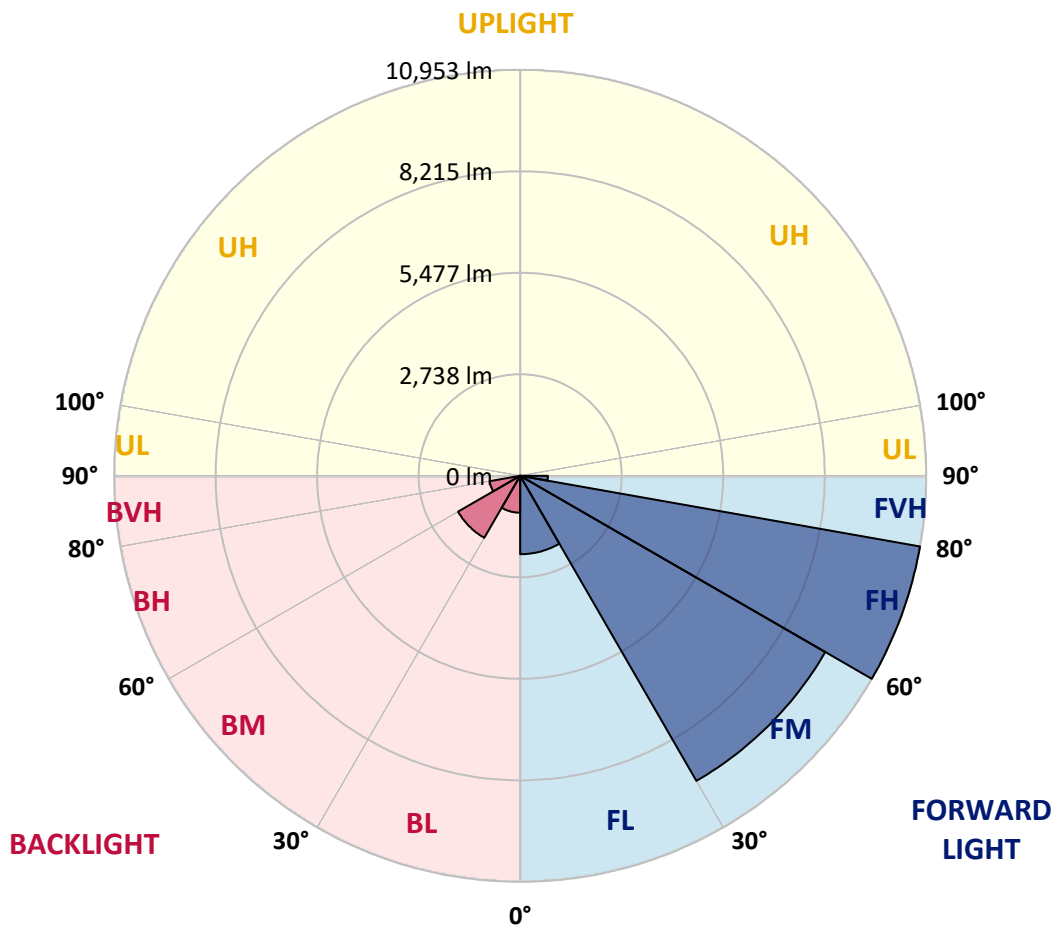
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.9	7.8			
FM (30°-60°)	9503.5	35.0			
FH (60°-80°)	10953.2	40.4			G4/12000
FVH (80°-90°)	746.1	2.8			G4/750
BL (0°-30°)	995.3	3.7	B2/1000		
BM (30°-60°)	1933.7	7.1	B2/2500		
BH (60°-80°)	838.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6
2.5°	4242.1	4169.2	4126.3	4019.8	3913.3	3827.4	3711.6	3635.0	3543.5	3455.7
5°	4727.8	4610.1	4468.1	4273.8	4096.4	3915.2	3739.6	3565.9	3382.8	3214.7
7.5°	5138.7	4968.7	4718.4	4460.6	4234.6	4016.1	3810.6	3580.8	3358.6	3095.2
10°	5452.5	5235.8	4907.1	4569.0	4309.3	4088.9	3889.1	3694.8	3470.6	3153.1
12.5°	5643.0	5411.4	5021.0	4625.0	4328.0	4081.4	3926.4	3840.5	3752.7	3437.0
15°	5783.1	5532.8	5101.3	4664.2	4285.1	3982.4	3868.5	3954.4	4055.3	3853.6
17.5°	5928.8	5665.5	5205.9	4681.1	4169.2	3790.1	3741.5	3963.8	4197.3	4187.9
20°	6067.1	5805.6	5297.5	4669.9	3982.4	3556.6	3599.5	3883.4	4154.3	4268.2
22.5°	6225.8	5949.4	5385.3	4626.9	3739.6	3338.0	3472.5	3756.4	3993.7	4128.1
25°	6420.1	6130.6	5508.6	4563.4	3478.1	3156.8	3343.6	3608.9	3801.3	3894.7
27.5°	6629.3	6347.3	5672.9	4529.8	3267.0	3027.9	3197.9	3433.3	3605.1	3670.5
30°	6889.0	6599.4	5867.2	4492.4	3128.8	2953.2	3046.6	3229.7	3397.8	3463.2
32.5°	7172.9	6879.6	6054.0	4402.7	3044.7	2897.2	2899.0	3014.9	3168.0	3246.5
35°	7527.8	7215.9	6253.9	4206.6	2977.5	2831.8	2755.2	2811.3	2938.3	3031.7
37.5°	8034.0	7656.7	6498.6	3926.4	2878.5	2730.9	2603.9	2617.0	2714.1	2816.9
40°	8732.6	8248.8	6786.2	3635.0	2736.5	2589.0	2437.7	2432.1	2503.0	2603.9
42.5°	9677.8	9031.5	7131.8	3356.7	2600.2	2417.1	2262.1	2252.7	2308.8	2396.6
45°	10925.6	10032.7	7555.8	3117.6	2493.7	2249.0	2095.8	2092.1	2138.8	2215.4
47.5°	12522.7	11424.3	7979.8	2955.1	2437.7	2116.4	1959.5	1966.9	2008.0	2077.1
50°	14590.5	13238.1	8108.7	2872.9	2437.7	2045.4	1838.1	1875.4	1909.0	1961.3
52.5°	17069.2	14979.0	7682.8	2798.2	2452.6	2054.7	1735.3	1815.6	1839.9	1884.8
55°	19366.8	15832.7	6605.0	2695.4	2456.3	2112.6	1647.5	1767.1	1811.9	1828.7
57.5°	20700.5	15539.4	5340.4	2521.7	2441.4	2151.9	1591.5	1707.3	1793.2	1804.4
60°	20446.5	14510.2	3932.0	2389.1	2331.2	2136.9	1574.7	1615.8	1752.1	1768.9
62.5°	18488.9	12784.2	2729.1	2286.4	2088.4	2071.5	1569.1	1471.9	1662.5	1703.6
65°	14861.3	10064.5	1927.7	1968.8	1830.6	1929.6	1539.2	1322.5	1554.1	1610.2
67.5°	10781.8	6810.5	1391.6	1595.2	1658.7	1699.8	1471.9	1214.2	1430.8	1505.6
70°	6918.9	3678.0	976.9	1053.5	1397.2	1443.9	1356.1	1117.0	1305.7	1391.6
72.5°	4918.3	2172.4	702.3	737.8	1122.6	1203.0	1193.6	1008.7	1160.0	1264.6
75°	3394.0	1197.3	474.5	526.8	814.4	976.9	920.9	866.7	982.5	1089.0
77.5°	2127.6	536.1	283.9	366.1	534.2	767.7	631.4	670.6	765.9	864.9
80°	1184.3	207.3	158.8	242.8	291.4	558.5	349.3	431.5	564.1	635.1
82.5°	257.8	26.2	71.0	104.6	113.9	325.0	184.9	250.3	354.9	349.3
85°	0.0	0.0	13.1	14.9	7.5	140.1	67.2	82.2	115.8	108.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
90°	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°
3754.6	0°	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6
3377.2	2.5°	3362.3	3270.8	3203.5	3169.9	3141.9	3168.0	3183.0	3183.0	3246.5	3283.8
3112.0	5°	3046.6	2882.2	2757.1	2673.0	2622.6	2639.4	2658.1	2678.6	2758.9	2813.1
2955.1	7.5°	2828.1	2575.9	2385.4	2267.7	2206.0	2215.4	2228.5	2245.3	2323.7	2377.9
2977.5	10°	2787.0	2424.6	2155.6	2000.6	1925.8	1912.8	1905.3	1899.7	1946.4	1987.5
3231.5	12.5°	2955.1	2432.1	2056.6	1867.9	1776.4	1737.2	1692.4	1656.9	1664.3	1690.5
3616.3	15°	3255.8	2527.3	2024.8	1798.8	1684.9	1619.5	1567.2	1524.2	1514.9	1524.2
3952.6	17.5°	3599.5	2656.2	2021.1	1739.1	1597.1	1529.8	1486.9	1447.7	1434.6	1436.4
4141.2	20°	3827.4	2758.9	2009.9	1671.8	1513.0	1453.3	1415.9	1376.7	1363.6	1367.3
4088.9	22.5°	3849.8	2813.1	1993.1	1597.1	1429.0	1378.5	1341.2	1305.7	1303.8	1303.8
3892.8	25°	3728.4	2813.1	1957.6	1529.8	1348.7	1303.8	1270.2	1227.2	1234.7	1238.4
3670.5	27.5°	3539.7	2745.9	1890.4	1475.7	1279.5	1232.8	1199.2	1160.0	1169.3	1174.9
3463.2	30°	3353.0	2659.9	1810.0	1414.0	1214.2	1160.0	1135.7	1102.1	1105.8	1113.3
3257.7	32.5°	3179.2	2568.4	1714.8	1363.6	1148.8	1094.6	1075.9	1038.6	1044.2	1051.7
3056.0	35°	3007.4	2467.5	1602.7	1303.8	1089.0	1034.8	1019.9	976.9	980.7	991.9
2854.2	37.5°	2822.5	2361.1	1511.2	1244.0	1031.1	975.1	960.1	915.3	919.0	932.1
2645.0	40°	2628.2	2256.5	1421.5	1180.5	969.5	913.4	900.3	851.8	855.5	870.5
2439.5	42.5°	2432.1	2142.5	1352.4	1098.3	906.0	846.2	833.1	788.3	793.9	810.7
2260.2	45°	2250.9	2006.2	1307.6	1006.8	846.2	778.9	765.9	724.8	736.0	754.6
2108.9	47.5°	2095.8	1866.1	1288.9	930.2	782.7	709.8	698.6	665.0	683.7	704.2
1980.0	50°	1963.2	1731.6	1264.6	851.8	722.9	650.0	638.8	616.4	640.7	661.3
1892.2	52.5°	1867.9	1578.4	1212.3	780.8	670.6	599.6	595.9	584.7	607.1	625.8
1826.8	55°	1785.8	1419.6	1128.2	719.2	623.9	556.6	560.4	554.8	573.5	588.4
1787.6	57.5°	1711.0	1281.4	1021.8	670.6	573.5	519.3	530.5	523.0	532.4	541.7
1746.5	60°	1621.4	1141.3	894.7	616.4	513.7	481.9	495.0	474.5	472.6	476.3
1671.8	62.5°	1488.7	952.6	762.1	549.2	461.4	440.8	446.4	407.2	377.3	377.3
1561.6	65°	1303.8	765.9	638.8	474.5	401.6	384.8	381.1	325.0	283.9	280.2
1442.0	67.5°	1089.0	629.5	530.5	399.7	334.4	323.2	326.9	285.8	244.7	241.0
1322.5	70°	887.3	521.2	427.8	319.4	257.8	269.0	285.8	244.7	205.5	199.9
1182.4	72.5°	721.0	414.7	334.4	244.7	190.5	222.3	242.8	199.9	162.5	158.8
1008.7	75°	556.6	304.5	239.1	166.2	138.2	171.9	190.5	145.7	115.8	110.2
780.8	77.5°	371.7	188.7	134.5	104.6	82.2	117.7	127.0	76.6	67.2	65.4
567.9	80°	226.0	87.8	57.9	50.4	28.0	43.0	50.4	31.8	35.5	37.4
302.6	82.5°	113.9	24.3	9.3	1.9	0.0	0.0	14.9	7.5	14.9	18.7
82.2	85°	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	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):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3754.6	0°	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6
3298.8	2.5°	3403.4	3481.8	3556.6	3676.1	3799.4	3920.8	4044.1	4163.6	4206.6	4238.4
2848.6	5°	3011.1	3158.7	3330.5	3567.8	3821.8	4083.3	4348.6	4591.4	4701.6	4776.3
2424.6	7.5°	2605.8	2798.2	3044.7	3401.5	3799.4	4215.9	4632.5	5015.4	5192.9	5336.7
2024.8	10°	2204.2	2413.4	2725.3	3132.5	3670.5	4268.2	4843.6	5370.3	5600.1	5781.3
1737.2	12.5°	1851.1	2047.3	2374.2	2824.3	3468.8	4227.1	4965.0	5598.2	5869.1	6072.7
1531.7	15°	1602.7	1740.9	2030.5	2516.1	3229.7	4094.5	4972.5	5706.6	6003.6	6216.5
1445.8	17.5°	1464.5	1511.2	1699.8	2202.3	2964.4	3920.8	4903.3	5743.9	6061.5	6259.5
1369.2	20°	1389.7	1397.2	1449.5	1795.1	2624.5	3758.3	4838.0	5781.3	6115.6	6281.9
1315.0	22.5°	1330.0	1330.0	1343.0	1468.2	2185.5	3564.0	4817.4	5846.7	6190.4	6293.1
1253.4	25°	1275.8	1275.8	1279.5	1313.2	1731.6	3267.0	4804.3	5947.5	6293.1	6321.1
1191.7	27.5°	1219.8	1221.6	1221.6	1240.3	1395.4	2863.6	4748.3	6078.3	6416.4	6358.5
1132.0	30°	1163.7	1167.5	1167.5	1180.5	1234.7	2391.0	4638.1	6235.2	6577.0	6407.0
1072.2	32.5°	1107.7	1111.4	1111.4	1122.6	1161.9	1909.0	4499.9	6379.0	6739.5	6427.6
1014.3	35°	1049.8	1055.4	1051.7	1066.6	1107.7	1518.6	4324.3	6522.8	6915.1	6493.0
958.3	37.5°	991.9	995.6	993.7	1008.7	1055.4	1311.3	4120.7	6631.2	7154.2	6638.7
898.5	40°	934.0	932.1	932.1	948.9	999.3	1251.5	3864.8	6803.0	7497.9	6894.6
838.7	42.5°	874.2	874.2	870.5	889.1	950.8	1206.7	3620.1	7111.2	7998.5	7301.8
782.7	45°	820.0	818.2	810.7	827.5	904.1	1128.2	3534.1	7686.6	8738.2	7961.2
726.6	47.5°	767.7	765.9	747.2	762.1	848.0	1057.3	3855.4	8628.0	9763.7	8930.6
681.8	50°	721.0	722.9	687.4	700.5	792.0	1003.1	4552.2	9849.6	11125.5	10236.3
644.4	52.5°	678.1	678.1	631.4	638.8	722.9	954.5	5215.3	11174.0	12922.4	12057.6
605.2	55°	635.1	631.4	579.1	582.8	653.8	885.4	5314.3	12466.6	15373.1	14797.8
562.3	57.5°	586.5	579.1	530.5	530.5	590.3	835.0	4606.3	13460.4	18414.2	18825.1
481.9	60°	526.8	521.2	489.4	480.1	539.8	879.8	3250.2	13576.2	20375.5	24180.5
382.9	62.5°	450.2	457.6	440.8	427.8	491.3	913.4	1925.8	12644.1	19901.0	25884.0
297.0	65°	354.9	384.8	381.1	371.7	539.8	769.6	1137.6	10854.6	18445.9	24509.2
259.6	67.5°	302.6	323.2	317.5	317.5	566.0	584.7	715.4	8480.4	16443.5	22878.5
216.7	70°	257.8	278.3	257.8	257.8	427.8	354.9	495.0	5921.4	14282.3	21074.1
173.7	72.5°	212.9	233.5	211.1	196.1	341.8	265.2	362.4	3700.4	12231.3	19195.0
123.3	75°	162.5	186.8	170.0	151.3	226.0	198.0	274.6	2150.0	10133.6	16422.9
74.7	77.5°	102.7	134.5	127.0	106.5	166.2	143.8	198.0	1279.5	7819.2	12832.7
44.8	80°	63.5	69.1	71.0	67.2	95.3	97.1	134.5	728.5	5351.6	8943.7
28.0	82.5°	41.1	41.1	31.8	35.5	46.7	56.0	76.6	274.6	3145.6	5445.0
16.8	85°	29.9	26.2	16.8	16.8	22.4	28.0	29.9	84.1	1275.8	2150.0
7.5	87.5°	14.9	13.1	5.6	7.5	11.2	9.3	7.5	3.7	321.3	687.4
0.0	90°	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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3754.6	0°	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6	3754.6
4309.3	2.5°	4346.7	4404.6	4408.3	4408.3	4357.9	4356.0	4253.3	4242.1
4944.4	5°	5118.2	5155.5	5164.9	5146.2	5045.3	4970.6	4770.7	4727.8
5592.6	7.5°	5824.2	5899.0	5899.0	5854.1	5689.7	5536.6	5247.0	5138.7
6128.7	10°	6388.4	6474.3	6455.6	6364.1	6156.7	5945.7	5594.5	5452.5
6453.7	12.5°	6662.9	6750.7	6702.2	6597.6	6395.8	6173.5	5803.7	5643.0
6547.1	15°	6657.3	6633.1	6582.6	6569.5	6472.4	6304.3	5958.7	5783.1
6489.2	17.5°	6420.1	6214.6	6175.4	6306.2	6429.5	6388.4	6093.2	5928.8
6351.0	20°	6044.7	5686.0	5650.5	5900.8	6252.0	6431.3	6218.4	6067.1
6151.1	22.5°	5648.7	5262.0	5179.8	5456.3	5984.9	6444.4	6377.1	6225.8
5930.7	25°	5273.2	4884.7	4802.5	5060.3	5687.9	6422.0	6549.0	6420.1
5719.6	27.5°	4959.4	4583.9	4507.3	4765.1	5402.1	6358.5	6720.8	6629.3
5510.4	30°	4716.5	4369.1	4313.1	4561.5	5155.5	6280.0	6939.4	6889.0
5316.2	32.5°	4574.6	4320.5	4341.1	4544.7	5022.9	6194.1	7148.6	7172.9
5220.9	35°	4714.7	4725.9	4905.2	4989.3	5146.2	6181.0	7432.5	7527.8
5334.8	37.5°	5411.4	5800.0	6171.7	6102.6	5749.5	6332.3	7856.6	8034.0
5831.7	40°	6597.6	7395.2	7998.5	7735.1	6846.0	6795.6	8467.4	8732.6
6713.4	42.5°	8047.1	9399.5	10393.2	9687.1	8260.0	7606.3	9339.7	9677.8
7780.0	45°	9576.9	11870.8	13436.1	11967.9	9767.5	8742.0	10660.3	10925.6
8779.3	47.5°	11189.0	14874.4	16899.3	14497.1	11164.7	10034.6	12461.0	12522.7
9726.4	50°	12952.3	18167.6	20429.7	17024.4	12513.3	11515.9	14661.5	14590.5
10830.3	52.5°	14631.6	21554.2	23885.4	19562.9	13697.6	13353.9	17214.9	17069.2
12339.6	55°	16234.3	24938.9	27361.6	22002.5	14814.6	15782.2	20248.5	19366.8
14515.8	57.5°	18092.9	27981.7	30944.3	24453.2	16376.2	18935.3	23640.7	20700.5
18683.1	60°	20840.6	31439.3	34995.9	27811.8	19346.3	22249.0	24856.7	20446.5
23674.3	62.5°	24348.6	34618.5	37941.6	31103.1	22329.4	22872.9	23065.3	18488.9
22656.2	65°	25030.4	35423.6	38107.8	31982.9	21944.6	19402.3	18830.7	14861.3
20237.3	67.5°	23222.2	33968.5	35784.1	30344.7	19411.6	14994.0	14131.0	10781.8
18649.5	70°	21193.6	31194.6	31734.4	27559.6	17073.0	11028.3	9543.3	6918.9
17562.4	72.5°	19114.6	27494.2	26377.2	23933.9	15005.2	8030.3	6883.4	4918.3
16013.9	75°	16645.2	22628.2	20777.1	19886.1	12423.7	6302.4	4979.9	3394.0
13774.2	77.5°	13329.6	15927.9	15432.9	15414.2	9336.0	4604.5	3323.1	2127.6
10761.2	80°	9403.2	10337.2	10085.0	11609.2	6263.2	3339.9	2000.6	1184.3
7490.4	82.5°	4552.2	5715.9	5867.2	6913.2	3046.6	1965.1	461.4	257.8
2928.9	85°	1782.0	2757.1	2325.6	2624.5	855.5	547.3	11.2	0.0
481.9	87.5°	199.9	319.4	293.3	231.6	104.6	22.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)