

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: P950173

Luminaire Tested: **GALN-SB4C-950-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950173
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-SB4C-950-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15935 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

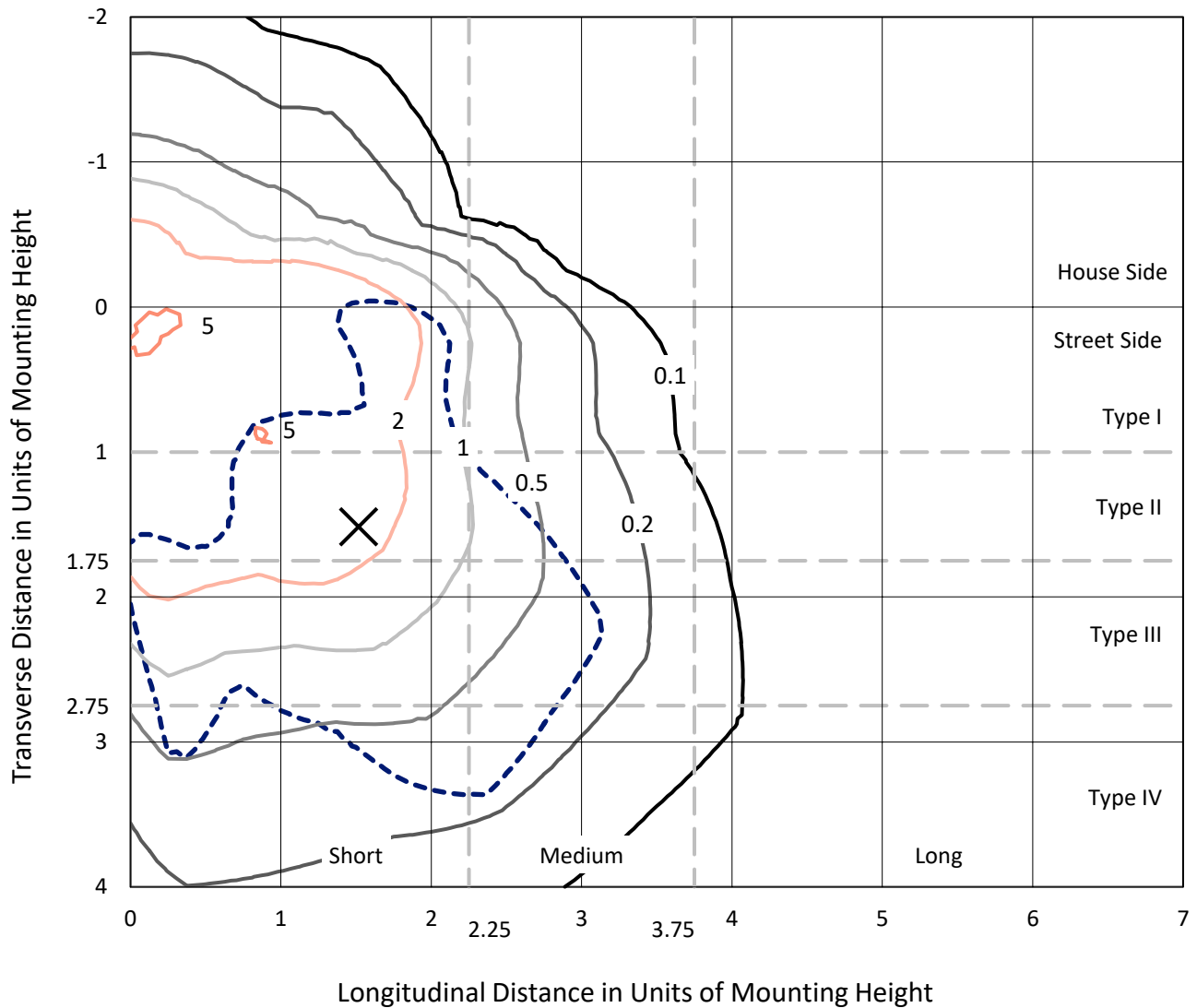
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

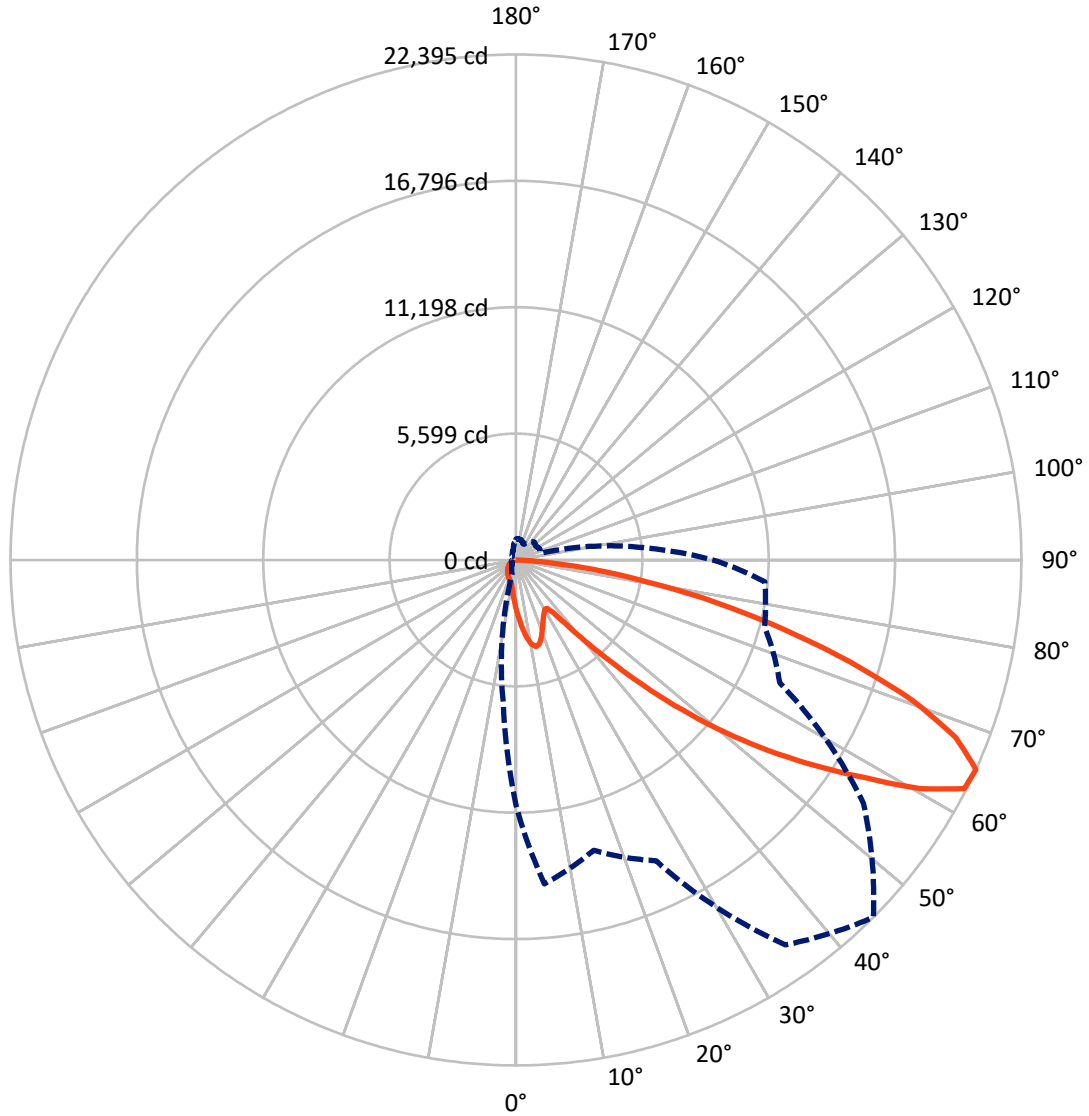
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.4	0.0	3167.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12767.6	0.0	12767.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	15935.0	0.0	15935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	1.4
10°-20°	651.2	4.1
20°-30°	959.4	6.0
30°-40°	1232.5	7.7
40°-50°	1993.4	12.5
50°-60°	3495.5	21.9
60°-70°	4373.9	27.4
70°-80°	2555.9	16.0
80°-90°	456.0	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°	15935.0	100.0
0°-180°	15935.0	100.0



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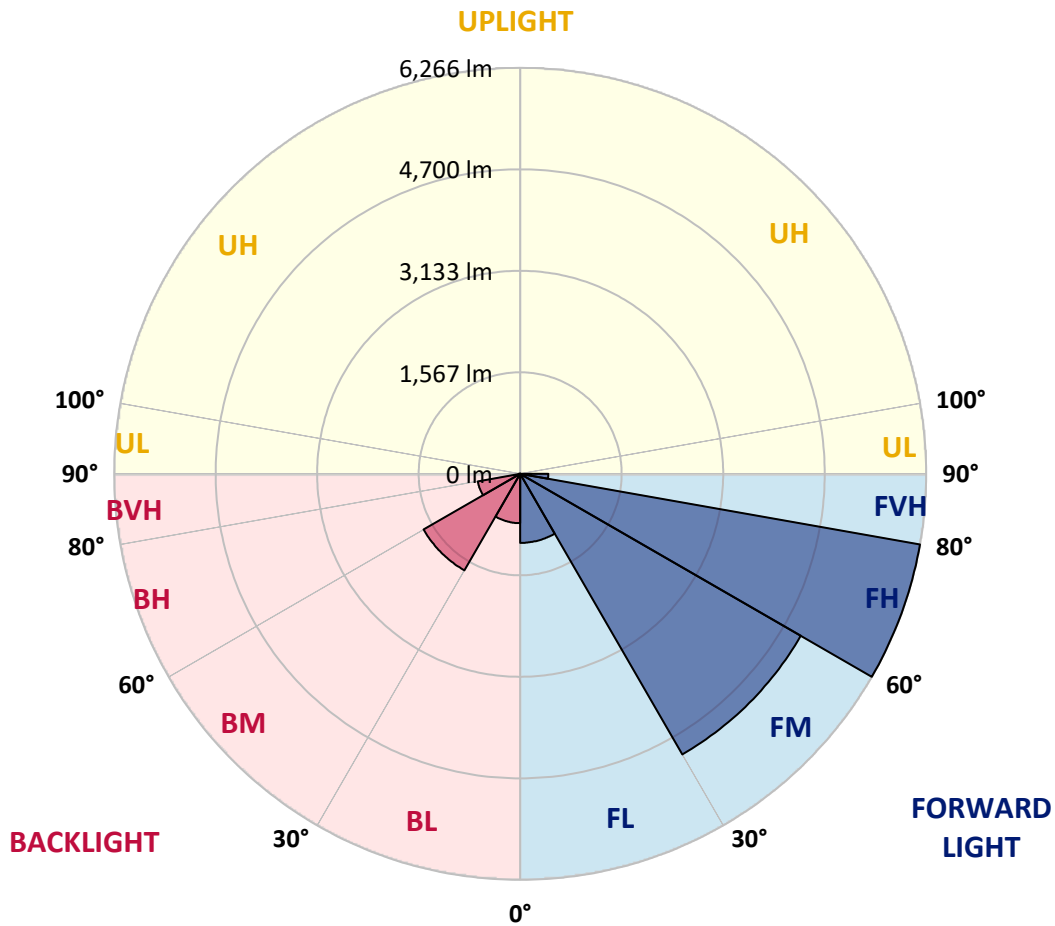
CATALOG NUMBER: GALN-SB4C-950-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.2	6.7			
FM (30°-60°)	5000.6	31.4			
FH (60°-80°)	6266.1	39.3			G3/7500
FVH (80°-90°)	434.6	2.7			G3/500
BL (0°-30°)	761.6	4.8	B2/1000		
BM (30°-60°)	1720.8	10.8	B2/2500		
BH (60°-80°)	663.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	21.4	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2.5°	2472.1	2490.8	2532.5	2554.5	2588.5	2590.7	2590.7	2561.1	2560.0	2499.6
5°	2763.0	2807.0	2905.8	3007.8	3029.8	3035.3	3024.3	2965.0	2921.1	2803.7
7.5°	3051.8	3136.3	3286.7	3422.8	3466.7	3466.7	3440.4	3343.8	3253.7	3083.6
10°	3291.1	3397.6	3601.7	3754.3	3804.8	3793.8	3740.1	3618.2	3494.2	3287.8
12.5°	3449.1	3568.8	3792.7	3915.7	3967.3	3938.7	3877.3	3758.7	3628.1	3410.7
15°	3528.2	3653.3	3847.6	3912.4	3898.1	3868.5	3860.8	3803.7	3704.9	3501.8
17.5°	3562.2	3678.6	3813.6	3773.0	3652.2	3629.2	3706.0	3778.5	3754.3	3580.9
20°	3594.0	3691.8	3732.4	3552.3	3341.6	3320.7	3467.8	3674.2	3779.6	3654.4
22.5°	3638.0	3698.3	3614.9	3319.6	3092.4	3044.1	3206.5	3517.2	3787.3	3747.7
25°	3698.3	3714.8	3485.4	3099.0	2870.6	2822.3	2973.8	3342.7	3774.1	3848.7
27.5°	3770.8	3736.8	3361.3	2914.5	2693.9	2648.9	2800.4	3174.7	3736.8	3949.7
30°	3865.2	3765.3	3238.4	2771.8	2567.6	2534.7	2680.7	3029.8	3690.7	4078.2
32.5°	3960.7	3777.4	3124.2	2688.4	2539.1	2551.2	2670.8	2951.9	3640.2	4201.1
35°	4063.9	3815.8	3068.2	2770.7	2777.3	2882.7	2932.1	3024.3	3632.5	4368.0
37.5°	4204.4	3901.4	3135.2	3180.2	3408.5	3627.0	3586.4	3378.9	3721.4	4617.2
40°	4406.4	4051.8	3427.2	3877.3	4346.0	4700.6	4545.8	4023.3	3993.6	4976.1
42.5°	4700.6	4291.1	3945.3	4729.1	5523.9	6107.9	5693.0	4854.3	4470.1	5488.8
45°	5135.3	4678.6	4572.1	5628.2	6976.2	7896.2	7033.3	5740.2	5137.5	6264.9
47.5°	5738.0	5248.4	5159.4	6575.6	8741.4	9931.4	8519.7	6561.3	5897.1	7323.1
50°	6538.2	6015.7	5716.0	7611.8	10676.8	12006.1	10004.9	7353.9	6767.7	8616.3
52.5°	7594.3	7086.0	6364.8	8598.7	12667.0	14037.0	11496.8	8049.8	7847.9	10116.9
55°	9034.5	8696.4	7251.8	9540.6	14656.1	16079.9	12930.5	8706.3	9274.9	11899.7
57.5°	10821.7	11063.2	8530.7	10632.9	16444.4	18185.4	14370.7	9624.0	11127.9	13893.2
60°	11974.3	14210.4	10979.7	12247.7	18476.3	20566.4	16344.5	11369.4	13075.4	14607.8
62.5°	11695.5	15211.6	13912.9	14309.2	20344.7	22297.6	18278.7	13122.6	13442.0	13555.1
65°	10840.3	14403.6	13314.7	14709.9	20817.8	22395.3	18795.8	12896.4	11402.4	11066.5
67.5°	9663.5	13445.3	11893.1	13647.3	19962.7	21029.7	17833.0	11407.9	8811.7	8304.5
70°	8393.4	12384.9	10960.0	12455.1	18332.5	18649.8	16196.3	10033.5	6481.1	5608.4
72.5°	7188.1	11280.5	10321.1	11233.3	16157.9	15501.4	14065.5	8818.3	4719.2	4045.2
75°	5955.3	9651.5	9411.1	9782.1	13298.2	12210.3	11686.7	7301.2	3703.8	2926.6
77.5°	4595.2	7541.6	8094.8	7833.6	9360.6	9069.7	9058.7	5486.6	2706.0	1952.9
80°	3145.1	5256.1	6324.2	5526.1	6075.0	5926.8	6822.5	3680.8	1962.8	1175.7
82.5°	1848.6	3200.0	4402.0	2675.2	3359.1	3448.0	4062.8	1790.4	1154.8	271.1
85°	749.8	1263.5	1721.3	1047.3	1620.3	1366.7	1542.3	502.8	321.6	6.6
87.5°	188.8	404.0	283.2	117.5	187.7	172.3	136.1	61.5	13.2	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2493.0	2.5°	2450.2	2424.9	2362.4	2299.8	2249.3	2181.2	2136.2	2082.4	2030.8	1984.7
2778.4	5°	2709.3	2625.8	2511.7	2407.4	2300.9	2197.7	2095.6	1988.0	1889.2	1828.9
3019.9	7.5°	2920.0	2772.9	2621.4	2488.6	2360.2	2239.4	2104.4	1973.8	1819.0	1736.6
3204.3	10°	3077.0	2883.8	2685.1	2532.5	2403.0	2285.5	2171.4	2039.6	1853.0	1749.8
3316.3	12.5°	3180.2	2950.8	2718.0	2543.5	2398.6	2307.5	2257.0	2205.4	2019.9	1899.1
3398.6	15°	3251.6	2998.0	2741.1	2518.3	2340.4	2273.5	2323.9	2383.2	2264.7	2125.3
3484.3	17.5°	3329.5	3059.4	2751.0	2450.2	2227.3	2198.8	2329.4	2466.7	2461.2	2322.8
3565.5	20°	3411.8	3113.2	2744.4	2340.4	2090.1	2115.4	2282.2	2441.4	2508.4	2433.7
3658.8	22.5°	3496.3	3164.8	2719.1	2197.7	1961.7	2040.7	2207.6	2347.0	2426.0	2403.0
3773.0	25°	3602.8	3237.3	2681.8	2044.0	1855.2	1965.0	2120.9	2233.9	2288.8	2287.7
3895.9	27.5°	3730.2	3333.9	2662.1	1920.0	1779.5	1879.4	2017.7	2118.7	2157.1	2157.1
4048.5	30°	3878.4	3448.0	2640.1	1838.7	1735.6	1790.4	1898.0	1996.8	2035.2	2035.2
4215.4	32.5°	4043.0	3557.8	2587.4	1789.3	1702.6	1703.7	1771.8	1861.8	1907.9	1914.5
4424.0	35°	4240.6	3675.3	2472.1	1749.8	1664.2	1619.2	1652.1	1726.8	1781.7	1795.9
4721.4	37.5°	4499.7	3819.1	2307.5	1691.6	1604.9	1530.3	1538.0	1595.0	1655.4	1677.4
5132.0	40°	4847.7	3988.1	2136.2	1608.2	1521.5	1432.6	1429.3	1471.0	1530.3	1554.4
5687.5	42.5°	5307.6	4191.2	1972.7	1528.1	1420.5	1329.4	1323.9	1356.8	1408.4	1433.7
6420.8	45°	5896.0	4440.4	1832.2	1465.5	1321.7	1231.7	1229.5	1256.9	1301.9	1328.3
7359.3	47.5°	6713.9	4689.6	1736.6	1432.6	1243.8	1151.5	1155.9	1180.1	1220.7	1239.4
8574.6	50°	7779.8	4765.4	1688.3	1432.6	1202.0	1080.2	1102.1	1121.9	1152.6	1163.6
10031.3	52.5°	8802.9	4515.1	1644.4	1441.4	1207.5	1019.8	1067.0	1081.3	1107.6	1112.0
11381.5	55°	9304.6	3881.7	1584.1	1443.5	1241.6	968.2	1038.5	1064.8	1074.7	1073.6
12165.3	57.5°	9132.2	3138.5	1482.0	1434.8	1264.6	935.3	1003.3	1053.8	1060.4	1050.6
12016.0	60°	8527.4	2310.8	1404.0	1370.0	1255.8	925.4	949.6	1029.7	1039.6	1026.4
10865.6	62.5°	7513.0	1603.8	1343.7	1227.3	1217.4	922.1	865.0	977.0	1001.2	982.5
8733.7	65°	5914.7	1132.9	1157.0	1075.8	1134.0	904.6	777.2	913.3	946.3	917.7
6336.2	67.5°	4002.4	817.8	937.5	974.8	999.0	865.0	713.5	840.9	884.8	847.5
4066.1	70°	2161.5	574.1	619.1	821.1	848.6	797.0	656.5	767.3	817.8	777.2
2890.4	72.5°	1276.7	412.8	433.6	659.8	707.0	701.5	592.8	681.7	743.2	694.9
1994.6	75°	703.7	278.8	309.6	478.6	574.1	541.2	509.4	577.4	640.0	592.8
1250.3	77.5°	315.1	166.9	215.2	314.0	451.2	371.0	394.1	450.1	508.3	458.9
696.0	80°	121.9	93.3	142.7	171.2	328.2	205.3	253.6	331.5	373.2	333.7
151.5	82.5°	15.4	41.7	61.5	67.0	191.0	108.7	147.1	208.6	205.3	177.8
0.0	85°	0.0	7.7	8.8	4.4	82.3	39.5	48.3	68.1	63.7	48.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
1976.0	2.5°	1922.2	1882.6	1862.9	1846.4	1861.8	1870.6	1870.6	1907.9	1929.9	1938.6
1790.4	5°	1693.8	1620.3	1570.9	1541.2	1551.1	1562.1	1574.2	1621.4	1653.2	1674.1
1662.0	7.5°	1513.8	1401.8	1332.7	1296.4	1301.9	1309.6	1319.5	1365.6	1397.4	1424.9
1637.9	10°	1424.9	1266.8	1175.7	1131.8	1124.1	1119.7	1116.4	1143.9	1168.0	1190.0
1736.6	12.5°	1429.3	1208.6	1097.8	1044.0	1020.9	994.6	973.7	978.1	993.5	1020.9
1913.4	15°	1485.3	1190.0	1057.1	990.2	951.8	921.0	895.8	890.3	895.8	900.2
2115.4	17.5°	1561.0	1187.8	1022.0	938.6	899.1	873.8	850.8	843.1	844.2	849.7
2249.3	20°	1621.4	1181.2	982.5	889.2	854.1	832.1	809.0	801.4	803.6	804.7
2262.5	22.5°	1653.2	1171.3	938.6	839.8	810.1	788.2	767.3	766.2	766.2	772.8
2191.1	25°	1653.2	1150.4	899.1	792.6	766.2	746.5	721.2	725.6	727.8	736.6
2080.2	27.5°	1613.7	1110.9	867.2	752.0	724.5	704.8	681.7	687.2	690.5	700.4
1970.5	30°	1563.2	1063.7	831.0	713.5	681.7	667.4	647.7	649.9	654.3	665.2
1868.4	32.5°	1509.4	1007.7	801.4	675.1	643.3	632.3	610.4	613.6	618.0	630.1
1767.4	35°	1450.1	941.9	766.2	640.0	608.2	599.4	574.1	576.3	582.9	596.1
1658.7	37.5°	1387.6	888.1	731.1	606.0	573.0	564.2	537.9	540.1	547.8	563.1
1544.5	40°	1326.1	835.4	693.8	569.7	536.8	529.1	500.6	502.8	511.6	528.0
1429.3	42.5°	1259.1	794.8	645.5	532.4	497.3	489.6	463.3	466.5	476.4	492.9
1322.8	45°	1179.0	768.4	591.7	497.3	457.8	450.1	425.9	432.5	443.5	460.0
1231.7	47.5°	1096.7	757.5	546.7	460.0	417.1	410.6	390.8	401.8	413.9	427.0
1153.7	50°	1017.6	743.2	500.6	424.8	382.0	375.4	362.3	376.5	388.6	400.7
1097.8	52.5°	927.6	712.4	458.9	394.1	352.4	350.2	343.6	356.8	367.7	378.7
1049.5	55°	834.3	663.0	422.6	366.7	327.1	329.3	326.0	337.0	345.8	355.7
1005.5	57.5°	753.1	600.5	394.1	337.0	305.2	311.8	307.4	312.9	318.3	330.4
952.9	60°	670.7	525.8	362.3	301.9	283.2	290.9	278.8	277.7	279.9	283.2
874.9	62.5°	559.9	447.9	322.7	271.1	259.1	262.4	239.3	221.7	221.7	225.0
766.2	65°	450.1	375.4	278.8	236.0	226.1	223.9	191.0	166.9	164.7	174.5
640.0	67.5°	369.9	311.8	234.9	196.5	189.9	192.1	168.0	143.8	141.6	152.6
521.4	70°	306.3	251.4	187.7	151.5	158.1	168.0	143.8	120.8	117.5	127.3
423.7	72.5°	243.7	196.5	143.8	112.0	130.6	142.7	117.5	95.5	93.3	102.1
327.1	75°	178.9	140.5	97.7	81.2	101.0	112.0	85.6	68.1	64.8	72.5
218.5	77.5°	110.9	79.0	61.5	48.3	69.2	74.6	45.0	39.5	38.4	43.9
132.8	80°	51.6	34.0	29.6	16.5	25.2	29.6	18.7	20.9	22.0	26.3
67.0	82.5°	14.3	5.5	1.1	0.0	0.0	8.8	4.4	8.8	11.0	16.5
5.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	9.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2000.1	2.5°	2046.2	2090.1	2160.4	2232.8	2304.2	2376.6	2446.9	2472.1
1769.6	5°	1856.3	1957.3	2096.7	2246.0	2399.7	2555.6	2698.3	2763.0
1531.4	7.5°	1644.4	1789.3	1999.0	2232.8	2477.6	2722.4	2947.5	3051.8
1295.4	10°	1418.3	1601.6	1840.9	2157.1	2508.4	2846.5	3156.0	3291.1
1087.9	12.5°	1203.1	1395.2	1659.8	2038.5	2484.2	2917.8	3290.0	3449.1
941.9	15°	1023.1	1193.3	1478.7	1898.0	2406.3	2922.2	3353.6	3528.2
860.6	17.5°	888.1	999.0	1294.3	1742.1	2304.2	2881.6	3375.6	3562.2
816.7	20°	821.1	851.9	1054.9	1542.3	2208.7	2843.2	3397.6	3594.0
781.6	22.5°	781.6	789.3	862.8	1284.4	2094.5	2831.1	3436.0	3638.0
749.8	25°	749.8	752.0	771.7	1017.6	1920.0	2823.4	3495.3	3698.3
716.8	27.5°	717.9	717.9	728.9	820.0	1682.9	2790.5	3572.1	3770.8
683.9	30°	686.1	686.1	693.8	725.6	1405.1	2725.7	3664.3	3865.2
651.0	32.5°	653.2	653.2	659.8	682.8	1121.9	2644.5	3748.8	3960.7
616.9	35°	620.2	618.0	626.8	651.0	892.5	2541.3	3833.4	4063.9
582.9	37.5°	585.1	584.0	592.8	620.2	770.6	2421.6	3897.0	4204.4
548.9	40°	547.8	547.8	557.7	587.3	735.5	2271.3	3998.0	4406.4
513.7	42.5°	513.7	511.6	522.5	558.8	709.1	2127.4	4179.2	4700.6
481.9	45°	480.8	476.4	486.3	531.3	663.0	2077.0	4517.3	5135.3
451.2	47.5°	450.1	439.1	447.9	498.4	621.3	2265.8	5070.5	5738.0
423.7	50°	424.8	404.0	411.7	465.4	589.5	2675.2	5788.5	6538.2
398.5	52.5°	398.5	371.0	375.4	424.8	561.0	3064.9	6566.8	7594.3
373.2	55°	371.0	340.3	342.5	384.2	520.3	3123.1	7326.4	9034.5
344.7	57.5°	340.3	311.8	311.8	346.9	490.7	2707.1	7910.4	10821.7
309.6	60°	306.3	287.6	282.1	317.3	517.0	1910.1	7978.5	11974.3
264.6	62.5°	268.9	259.1	251.4	288.7	536.8	1131.8	7430.7	11695.5
208.6	65°	226.1	223.9	218.5	317.3	452.3	668.5	6379.1	10840.3
177.8	67.5°	189.9	186.6	186.6	332.6	343.6	420.4	4983.8	9663.5
151.5	70°	163.6	151.5	151.5	251.4	208.6	290.9	3479.9	8393.4
125.1	72.5°	137.2	124.0	115.3	200.9	155.9	213.0	2174.7	7188.1
95.5	75°	109.8	99.9	88.9	132.8	116.4	161.4	1263.5	5955.3
60.4	77.5°	79.0	74.6	62.6	97.7	84.5	116.4	752.0	4595.2
37.3	80°	40.6	41.7	39.5	56.0	57.1	79.0	428.1	3145.1
24.2	82.5°	24.2	18.7	20.9	27.4	32.9	45.0	161.4	1848.6
17.6	85°	15.4	9.9	9.9	13.2	16.5	17.6	49.4	749.8
8.8	87.5°	7.7	3.3	4.4	6.6	5.5	4.4	2.2	188.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)