

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: P949564

Luminaire Tested: **GALN-SB4B-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949564
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-SB4B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA 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: 18222 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

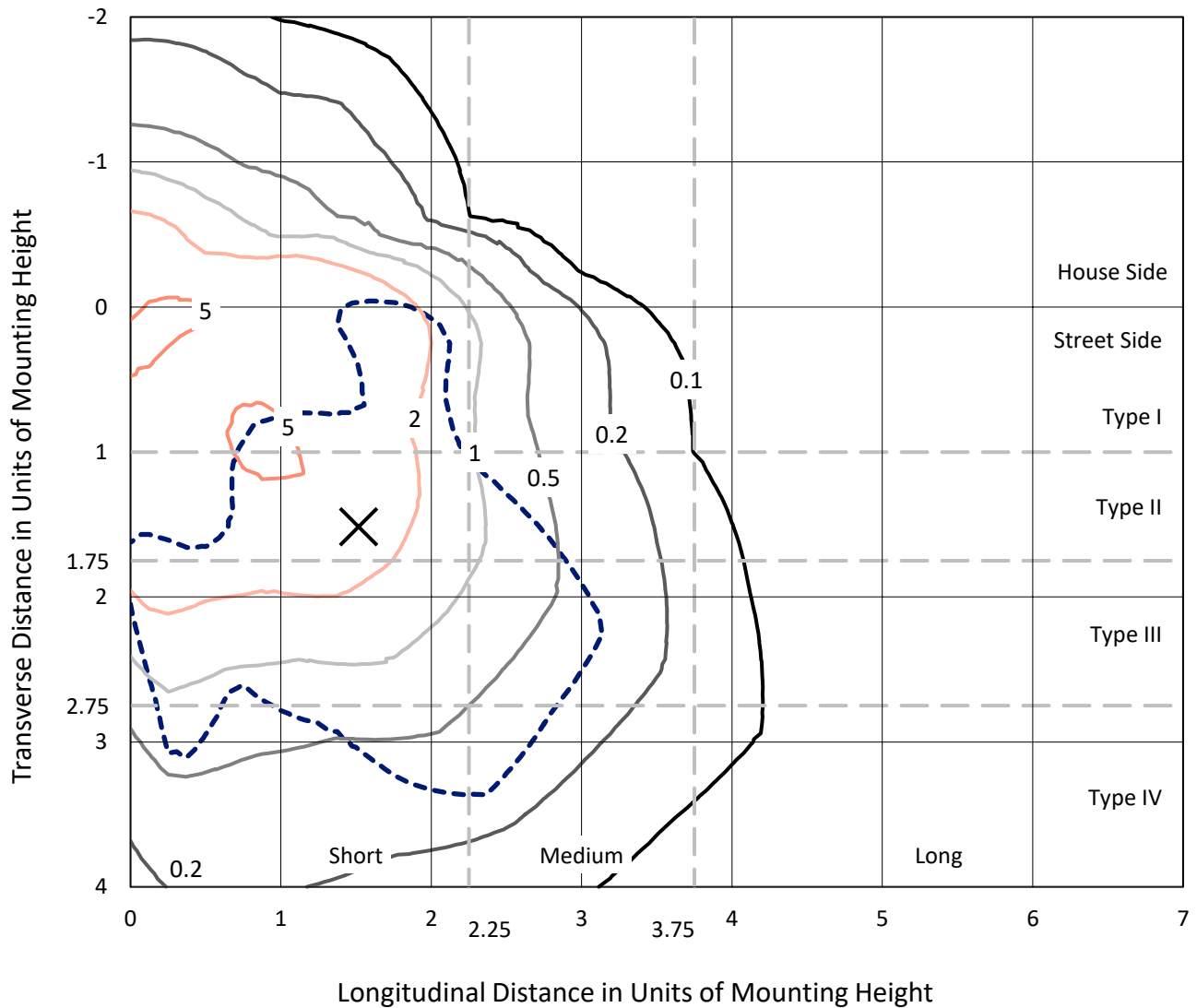
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

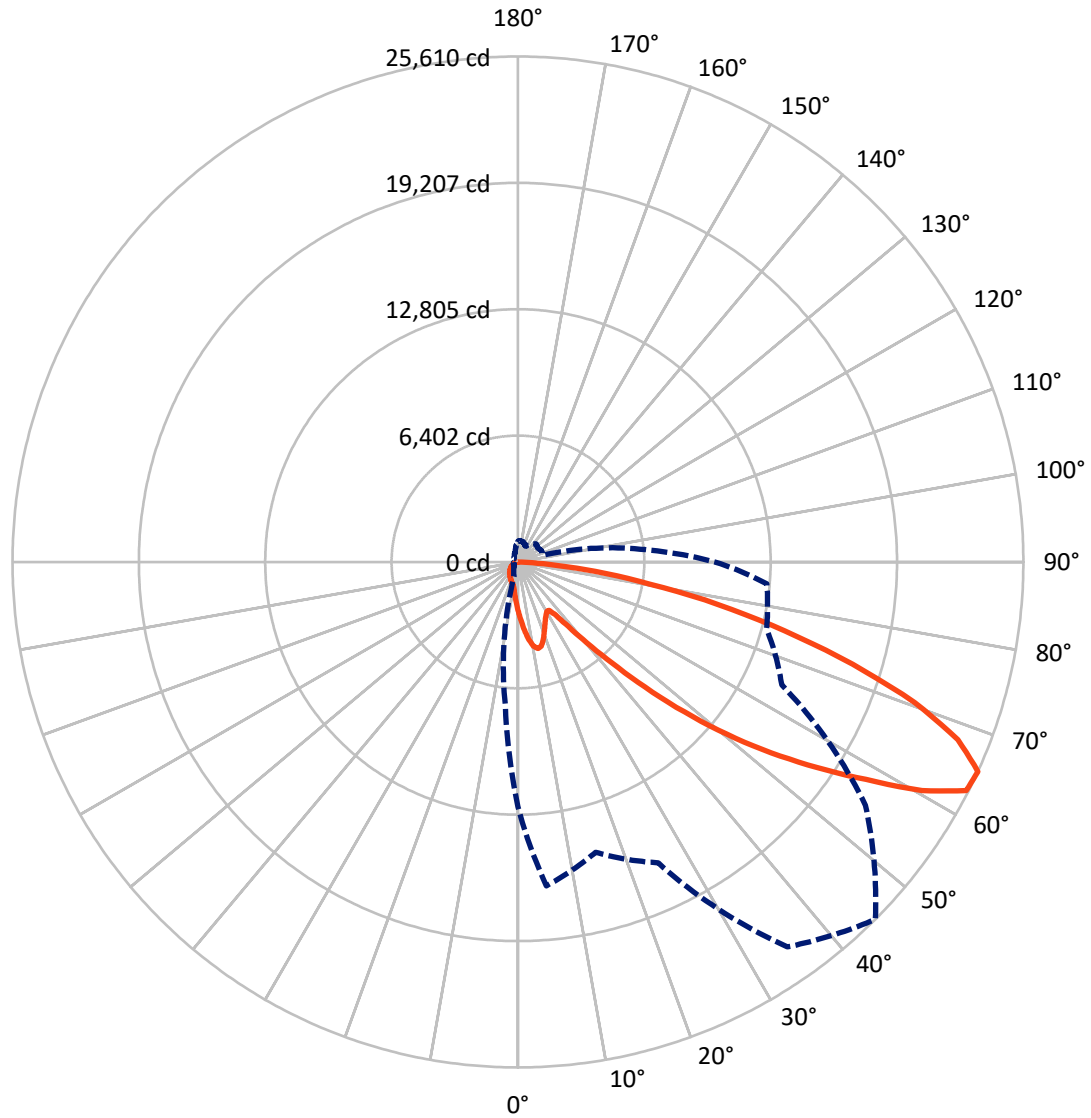
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3622.0	0.0	3622.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	14600.0	0.0	14600.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	18222.0	0.0	18222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	1.4
10°-20°	744.7	4.1
20°-30°	1097.1	6.0
30°-40°	1409.4	7.7
40°-50°	2279.4	12.5
50°-60°	3997.2	21.9
60°-70°	5001.6	27.4
70°-80°	2922.7	16.0
80°-90°	521.5	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°	18222.0	100.0
0°-180°	18222.0	100.0

Coefficient of Utilization



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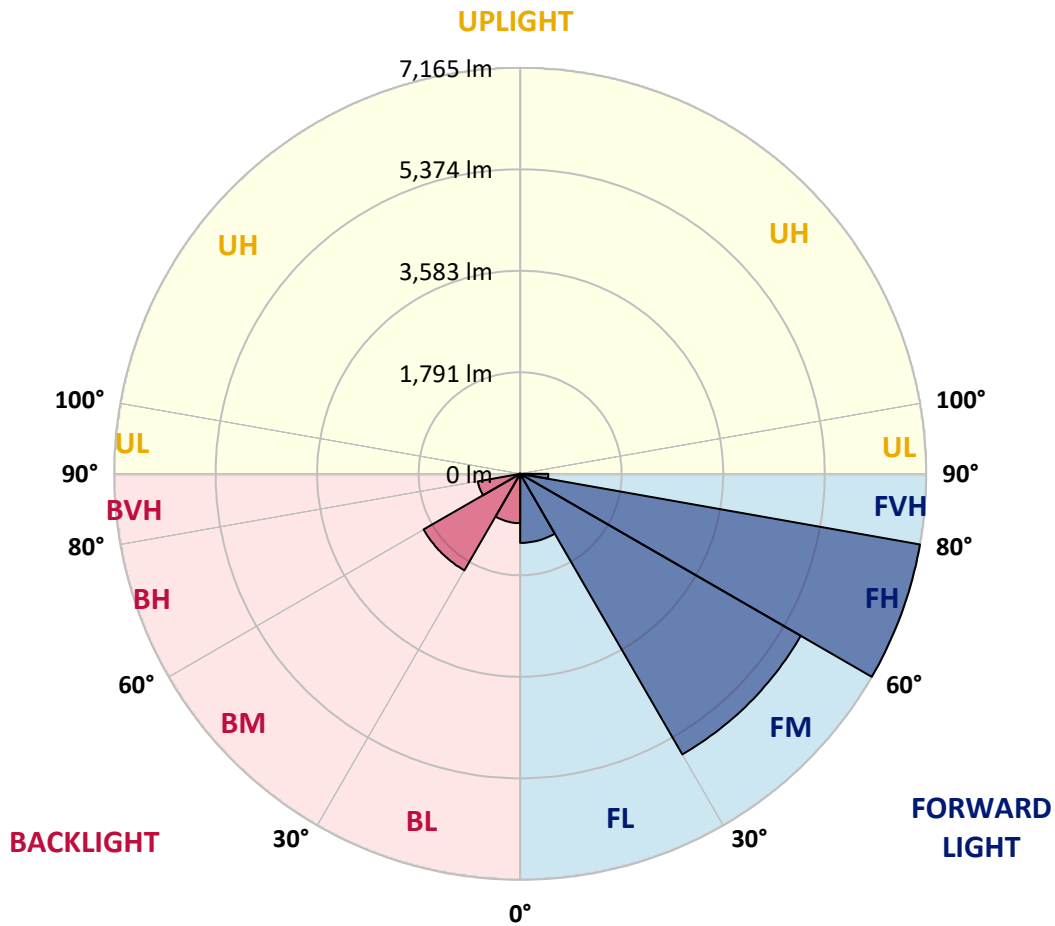
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.3	6.7			
FM (30°-60°)	5718.3	31.4			
FH (60°-80°)	7165.5	39.3			G3/7500
FVH (80°-90°)	497.0	2.7			G3/500
BL (0°-30°)	870.9	4.8	B2/1000		
BM (30°-60°)	1967.8	10.8	B2/2500		
BH (60°-80°)	758.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	24.4	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°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2.5°	2826.9	2848.3	2896.0	2921.1	2960.0	2962.5	2962.5	2928.6	2927.4	2858.3
5°	3159.6	3209.8	3322.8	3439.5	3464.6	3470.9	3458.4	3390.6	3340.4	3206.1
7.5°	3489.7	3586.4	3758.4	3914.0	3964.3	3964.3	3934.1	3823.7	3720.7	3526.2
10°	3763.4	3885.2	4118.7	4293.1	4350.9	4338.3	4276.8	4137.5	3995.6	3759.6
12.5°	3944.2	4081.0	4337.1	4477.7	4536.7	4504.0	4433.7	4298.2	4148.8	3900.2
15°	4034.6	4177.7	4399.8	4473.9	4457.6	4423.7	4414.9	4349.6	4236.7	4004.4
17.5°	4073.5	4206.5	4360.9	4314.5	4176.4	4150.0	4237.9	4320.8	4293.1	4094.8
20°	4109.9	4221.6	4268.0	4062.2	3821.1	3797.3	3965.5	4201.5	4322.0	4178.9
22.5°	4160.1	4229.1	4133.7	3796.0	3536.2	3481.0	3666.7	4022.0	4330.8	4285.6
25°	4229.1	4248.0	3985.6	3543.7	3282.6	3227.4	3400.6	3822.4	4315.7	4401.1
27.5°	4312.0	4273.1	3843.7	3332.8	3080.5	3029.1	3202.3	3630.3	4273.1	4516.6
30°	4419.9	4305.7	3703.2	3169.6	2936.2	2898.5	3065.5	3464.6	4220.3	4663.5
32.5°	4529.1	4319.5	3572.6	3074.2	2903.5	2917.3	3054.2	3375.5	4162.6	4804.1
35°	4647.1	4363.4	3508.6	3168.4	3175.9	3296.4	3352.9	3458.4	4153.8	4994.9
37.5°	4807.8	4461.4	3585.2	3636.6	3897.7	4147.5	4101.1	3863.8	4255.5	5279.8
40°	5038.8	4633.3	3919.1	4433.7	4969.8	5375.2	5198.2	4600.7	4566.8	5690.3
42.5°	5375.2	4907.0	4511.6	5407.9	6316.7	6984.5	6510.0	5551.0	5111.6	6276.5
45°	5872.3	5350.1	5228.3	6436.0	7977.5	9029.4	8042.7	6564.0	5874.8	7164.0
47.5°	6561.5	6001.6	5899.9	7519.3	9996.0	11356.7	9742.4	7503.0	6743.5	8374.1
50°	7476.6	6879.1	6536.4	8704.3	12209.1	13729.3	11440.9	8409.3	7739.0	9852.9
52.5°	8684.2	8103.0	7278.3	9832.8	14485.0	16051.6	13146.8	9205.2	8974.2	11568.9
55°	10331.2	9944.5	8292.5	10909.9	16759.6	18387.7	14786.2	9955.8	10606.1	13607.5
57.5°	12374.8	12651.0	9755.0	12158.9	18804.5	20795.4	16433.2	11005.3	12725.0	15887.1
60°	13692.9	16249.9	12555.6	14005.4	21128.0	23518.1	18690.2	13001.2	14951.9	16704.3
62.5°	13374.0	17394.8	15909.7	16362.9	23264.6	25497.8	20902.1	15005.9	15371.2	15500.5
65°	12396.1	16470.9	15225.6	16821.1	23805.6	25609.5	21493.3	14747.3	13038.9	12654.7
67.5°	11050.5	15375.0	13600.0	15606.0	22827.7	24047.9	20392.4	13045.1	10076.3	9496.4
70°	9598.1	14162.4	12533.0	14242.7	20963.6	21326.4	18520.8	11473.5	7411.3	6413.4
72.5°	8219.7	12899.5	11802.4	12845.5	18476.8	17726.2	16084.2	10083.9	5396.6	4625.8
75°	6810.0	11036.6	10761.7	11186.0	15206.8	13962.8	13364.0	8349.0	4235.4	3346.6
77.5°	5254.7	8623.9	9256.6	8957.9	10704.0	10371.3	10358.8	6274.0	3094.3	2233.2
80°	3596.5	6010.4	7231.8	6319.2	6946.9	6777.4	7801.7	4209.0	2244.5	1344.4
82.5°	2113.9	3659.2	5033.8	3059.2	3841.2	3942.9	4645.9	2047.4	1320.6	310.1
85°	857.4	1444.9	1968.3	1197.6	1852.8	1562.9	1763.7	574.9	367.8	7.5
87.5°	215.9	462.0	323.9	134.3	214.7	197.1	155.7	70.3	15.1	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°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2850.8	2.5°	2801.8	2773.0	2701.4	2629.9	2572.1	2494.3	2442.8	2381.3	2322.3	2269.6
3177.2	5°	3098.1	3002.7	2872.1	2752.9	2631.1	2513.1	2396.4	2273.4	2160.4	2091.3
3453.3	7.5°	3339.1	3170.9	2997.7	2845.8	2698.9	2560.8	2406.4	2257.0	2080.0	1985.9
3664.2	10°	3518.6	3297.7	3070.5	2896.0	2747.9	2613.5	2483.0	2332.4	2119.0	2001.0
3792.3	12.5°	3636.6	3374.3	3108.1	2908.5	2742.8	2638.7	2580.9	2521.9	2309.8	2171.7
3886.4	15°	3718.2	3428.2	3134.5	2879.7	2676.3	2599.7	2657.5	2725.3	2589.7	2430.3
3984.3	17.5°	3807.3	3498.5	3145.8	2801.8	2547.0	2514.4	2663.8	2820.7	2814.4	2656.2
4077.2	20°	3901.5	3560.0	3138.3	2676.3	2390.1	2419.0	2609.8	2791.8	2868.4	2783.0
4183.9	22.5°	3998.1	3619.0	3109.4	2513.1	2243.2	2333.6	2524.4	2683.8	2774.2	2747.9
4314.5	25°	4119.9	3701.9	3066.7	2337.4	2121.5	2247.0	2425.3	2554.5	2617.3	2616.1
4455.1	27.5°	4265.5	3812.4	3044.1	2195.5	2034.9	2149.1	2307.3	2422.7	2466.7	2466.7
4629.6	30°	4435.0	3942.9	3019.0	2102.6	1984.6	2047.4	2170.4	2283.4	2327.3	2327.3
4820.4	32.5°	4623.3	4068.4	2958.8	2046.1	1947.0	1948.2	2026.1	2129.0	2181.7	2189.3
5058.9	35°	4849.2	4202.8	2826.9	2001.0	1903.0	1851.6	1889.2	1974.6	2037.4	2053.7
5399.1	37.5°	5145.5	4367.2	2638.7	1934.4	1835.3	1749.9	1758.7	1824.0	1893.0	1918.1
5868.6	40°	5543.4	4560.5	2442.8	1839.0	1739.9	1638.2	1634.4	1682.1	1749.9	1777.5
6503.7	42.5°	6069.4	4792.8	2255.8	1747.4	1624.4	1520.2	1513.9	1551.6	1610.6	1639.4
7342.3	45°	6742.2	5077.7	2095.1	1675.8	1511.4	1408.5	1405.9	1437.3	1488.8	1518.9
8415.6	47.5°	7677.4	5362.7	1985.9	1638.2	1422.3	1316.8	1321.8	1349.5	1395.9	1417.2
9805.2	50°	8896.3	5449.3	1930.7	1638.2	1374.6	1235.2	1260.3	1282.9	1318.1	1330.6
11471.0	52.5°	10066.3	5163.1	1880.4	1648.2	1380.8	1166.2	1220.2	1236.5	1266.6	1271.6
13015.0	55°	10640.0	4438.8	1811.4	1650.7	1419.8	1107.2	1187.5	1217.6	1228.9	1227.7
13911.3	57.5°	10442.9	3588.9	1694.7	1640.7	1446.1	1069.5	1147.3	1205.1	1212.6	1201.3
13740.6	60°	9751.2	2642.4	1605.5	1566.6	1436.1	1058.2	1085.8	1177.5	1188.8	1173.7
12425.0	62.5°	8591.3	1834.0	1536.5	1403.4	1392.1	1054.5	989.2	1117.2	1144.8	1123.5
9987.2	65°	6763.6	1295.5	1323.1	1230.2	1296.7	1034.4	888.8	1044.4	1082.1	1049.4
7245.6	67.5°	4576.8	935.2	1072.0	1114.7	1142.3	989.2	815.9	961.6	1011.8	969.1
4649.7	70°	2471.7	656.5	708.0	939.0	970.4	911.4	750.7	877.5	935.2	888.8
3305.2	72.5°	1459.9	472.0	495.8	754.4	808.4	802.1	677.9	779.5	849.8	794.6
2280.9	75°	804.7	318.8	354.0	547.3	656.5	618.9	582.5	660.3	731.8	677.9
1429.8	77.5°	360.3	190.8	246.0	359.0	515.9	424.3	450.7	514.7	581.2	524.7
795.9	80°	139.3	106.7	163.2	195.8	375.3	234.7	290.0	379.1	426.8	381.6
173.2	82.5°	17.6	47.7	70.3	76.6	218.4	124.3	168.2	238.5	234.7	203.4
0.0	85°	0.0	8.8	10.0	5.0	94.1	45.2	55.2	77.8	72.8	55.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2259.5	2.5°	2198.0	2152.8	2130.3	2111.4	2129.0	2139.0	2139.0	2181.7	2206.8	2216.9
2047.4	5°	1936.9	1852.8	1796.3	1762.4	1773.7	1786.3	1800.1	1854.1	1890.5	1914.3
1900.5	7.5°	1731.1	1603.0	1523.9	1482.5	1488.8	1497.6	1508.9	1561.6	1598.0	1629.4
1872.9	10°	1629.4	1448.6	1344.4	1294.2	1285.4	1280.4	1276.6	1308.0	1335.6	1360.8
1985.9	12.5°	1634.4	1382.1	1255.3	1193.8	1167.4	1137.3	1113.5	1118.5	1136.1	1167.4
2188.0	15°	1698.4	1360.8	1208.9	1132.3	1088.3	1053.2	1024.3	1018.1	1024.3	1029.4
2419.0	17.5°	1785.0	1358.2	1168.7	1073.3	1028.1	999.2	972.9	964.1	965.3	971.6
2572.1	20°	1854.1	1350.7	1123.5	1016.8	976.6	951.5	925.2	916.4	918.9	920.1
2587.2	22.5°	1890.5	1339.4	1073.3	960.3	926.4	901.3	877.5	876.2	876.2	883.7
2505.6	25°	1890.5	1315.6	1028.1	906.3	876.2	853.6	824.7	829.8	832.3	842.3
2378.8	27.5°	1845.3	1270.4	991.7	859.9	828.5	805.9	779.5	785.8	789.6	800.9
2253.3	30°	1787.6	1216.4	950.3	815.9	779.5	763.2	740.6	743.1	748.2	760.7
2136.5	32.5°	1726.0	1152.4	916.4	772.0	735.6	723.1	697.9	701.7	706.7	720.5
2021.0	35°	1658.3	1077.1	876.2	731.8	695.4	685.4	656.5	659.0	666.6	681.6
1896.8	37.5°	1586.7	1015.5	836.0	692.9	655.3	645.2	615.1	617.6	626.4	644.0
1766.2	40°	1516.4	955.3	793.4	651.5	613.8	605.1	572.4	574.9	585.0	603.8
1634.4	42.5°	1439.8	908.8	738.1	608.8	568.7	559.9	529.7	533.5	544.8	563.6
1512.6	45°	1348.2	878.7	676.6	568.7	523.5	514.7	487.1	494.6	507.1	526.0
1408.5	47.5°	1254.1	866.2	625.1	526.0	477.0	469.5	446.9	459.4	473.3	488.3
1319.3	50°	1163.7	849.8	572.4	485.8	436.8	429.3	414.3	430.6	444.4	458.2
1255.3	52.5°	1060.7	814.7	524.7	450.7	403.0	400.4	392.9	408.0	420.5	433.1
1200.1	55°	954.0	758.2	483.3	419.3	374.1	376.6	372.8	385.4	395.4	406.7
1149.9	57.5°	861.1	686.7	450.7	385.4	349.0	356.5	351.5	357.8	364.0	377.8
1089.6	60°	767.0	601.3	414.3	345.2	323.9	332.7	318.8	317.6	320.1	323.9
1000.5	62.5°	640.2	512.2	369.1	310.1	296.3	300.0	273.7	253.6	253.6	257.3
876.2	65°	514.7	429.3	318.8	269.9	258.6	256.1	218.4	190.8	188.3	199.6
731.8	67.5°	423.0	356.5	268.6	224.7	217.2	219.7	192.1	164.4	161.9	174.5
596.3	70°	350.2	287.5	214.7	173.2	180.8	192.1	164.4	138.1	134.3	145.6
484.5	72.5°	278.7	224.7	164.4	128.0	149.4	163.2	134.3	109.2	106.7	116.7
374.1	75°	204.6	160.7	111.7	92.9	115.5	128.0	97.9	77.8	74.1	82.9
249.8	77.5°	126.8	90.4	70.3	55.2	79.1	85.4	51.5	45.2	43.9	50.2
151.9	80°	59.0	38.9	33.9	18.8	28.9	33.9	21.3	23.9	25.1	30.1
76.6	82.5°	16.3	6.3	1.3	0.0	0.0	10.0	5.0	10.0	12.6	18.8
6.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	11.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2287.2	2.5°	2339.9	2390.1	2470.4	2553.3	2634.9	2717.7	2798.1	2826.9
2023.6	5°	2122.7	2238.2	2397.6	2568.4	2744.1	2922.4	3085.5	3159.6
1751.2	7.5°	1880.4	2046.1	2285.9	2553.3	2833.2	3113.2	3370.5	3489.7
1481.3	10°	1621.9	1831.5	2105.1	2466.7	2868.4	3255.0	3609.0	3763.4
1244.0	12.5°	1375.8	1595.5	1898.0	2331.1	2840.8	3336.6	3762.2	3944.2
1077.1	15°	1169.9	1364.5	1690.9	2170.4	2751.6	3341.6	3835.0	4034.6
984.2	17.5°	1015.5	1142.3	1480.0	1992.2	2634.9	3295.2	3860.1	4073.5
933.9	20°	939.0	974.1	1206.3	1763.7	2525.7	3251.2	3885.2	4109.9
893.8	22.5°	893.8	902.6	986.7	1468.7	2395.1	3237.4	3929.1	4160.1
857.4	25°	857.4	859.9	882.5	1163.7	2195.5	3228.6	3996.9	4229.1
819.7	27.5°	821.0	821.0	833.5	937.7	1924.4	3191.0	4084.8	4312.0
782.1	30°	784.6	784.6	793.4	829.8	1606.8	3116.9	4190.2	4419.9
744.4	32.5°	746.9	746.9	754.4	780.8	1282.9	3024.0	4286.9	4529.1
705.5	35°	709.2	706.7	716.8	744.4	1020.6	2906.0	4383.5	4647.1
666.6	37.5°	669.1	667.8	677.9	709.2	881.2	2769.2	4456.3	4807.8
627.7	40°	626.4	626.4	637.7	671.6	841.1	2597.2	4571.8	5038.8
587.5	42.5°	587.5	585.0	597.5	639.0	810.9	2432.8	4778.9	5375.2
551.1	45°	549.8	544.8	556.1	607.6	758.2	2375.0	5165.6	5872.3
515.9	47.5°	514.7	502.1	512.2	569.9	710.5	2591.0	5798.3	6561.5
484.5	50°	485.8	462.0	470.7	532.2	674.1	3059.2	6619.2	7476.6
455.7	52.5°	455.7	424.3	429.3	485.8	641.5	3504.8	7509.2	8684.2
426.8	55°	424.3	389.1	391.7	439.4	595.0	3571.3	8377.9	10331.2
394.2	57.5°	389.1	356.5	356.5	396.7	561.1	3095.6	9045.7	12374.8
354.0	60°	350.2	328.9	322.6	362.8	591.2	2184.2	9123.6	13692.9
302.5	62.5°	307.5	296.3	287.5	330.1	613.8	1294.2	8497.2	13374.0
238.5	65°	258.6	256.1	249.8	362.8	517.2	764.5	7294.6	12396.1
203.4	67.5°	217.2	213.4	213.4	380.4	392.9	480.8	5699.1	11050.5
173.2	70°	187.0	173.2	173.2	287.5	238.5	332.7	3979.3	9598.1
143.1	72.5°	156.9	141.8	131.8	229.7	178.3	243.5	2486.8	8219.7
109.2	75°	125.5	114.2	101.7	151.9	133.1	184.5	1444.9	6810.0
69.0	77.5°	90.4	85.4	71.6	111.7	96.7	133.1	859.9	5254.7
42.7	80°	46.4	47.7	45.2	64.0	65.3	90.4	489.6	3596.5
27.6	82.5°	27.6	21.3	23.9	31.4	37.7	51.5	184.5	2113.9
20.1	85°	17.6	11.3	11.3	15.1	18.8	20.1	56.5	857.4
10.0	87.5°	8.8	3.8	5.0	7.5	6.3	5.0	2.5	215.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)