

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: P950698

Luminaire Tested: **GALN-SB5A-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950698
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-SB5A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA 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: 15038 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

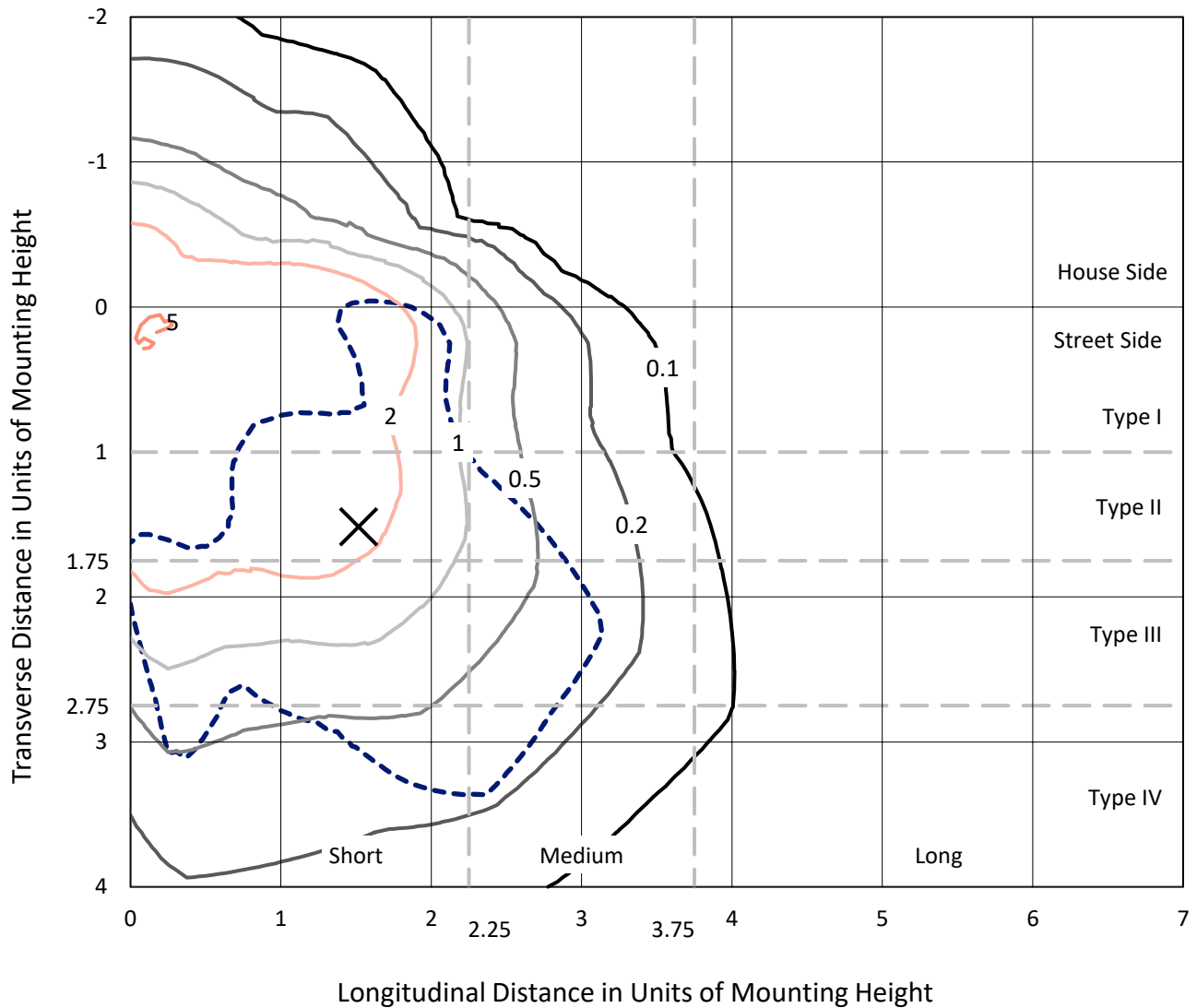
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

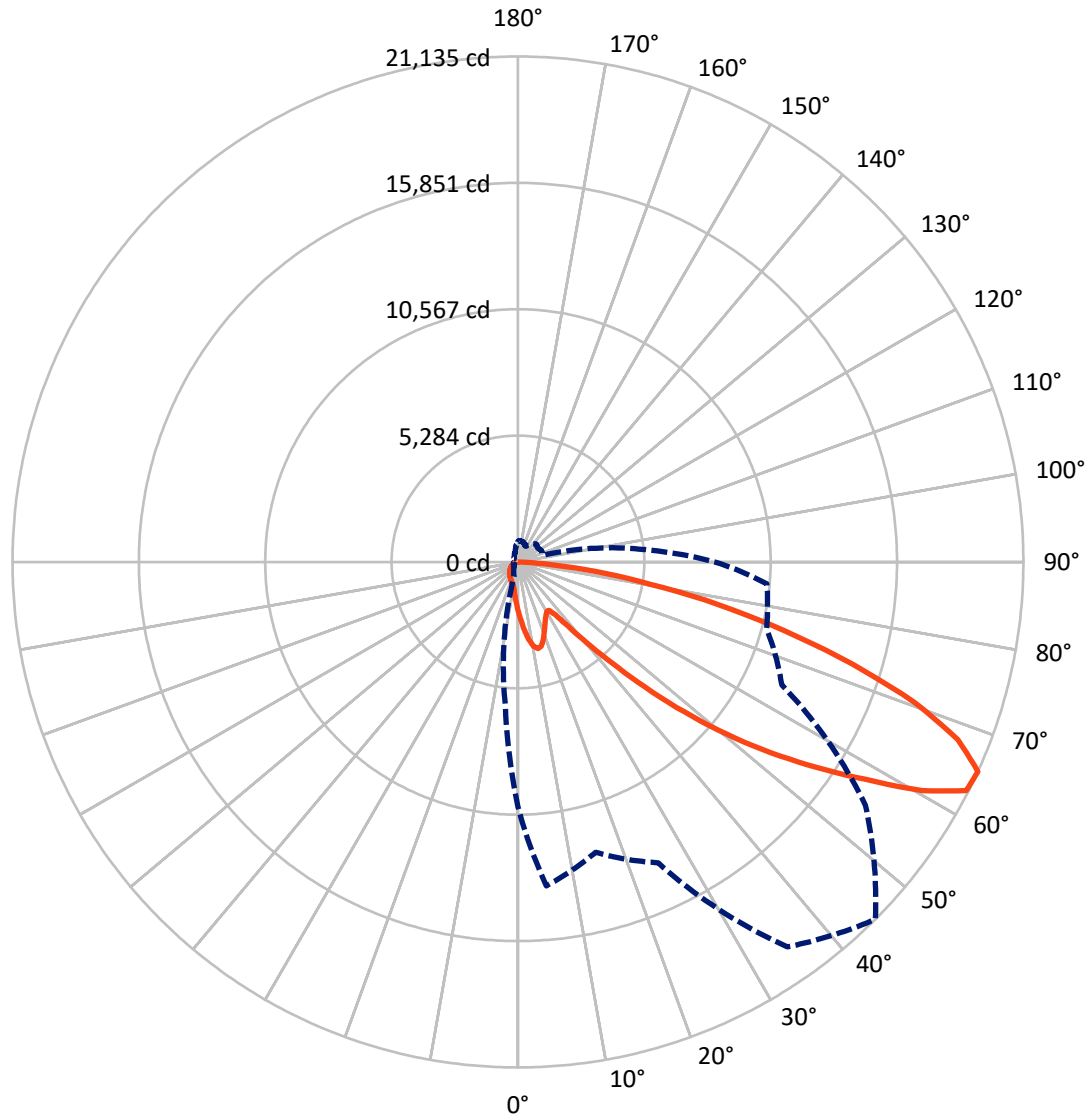
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2989.1	0.0	2989.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12048.9	0.0	12048.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	15038.0	0.0	15038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.4
10°-20°	614.6	4.1
20°-30°	905.4	6.0
30°-40°	1163.1	7.7
40°-50°	1881.1	12.5
50°-60°	3298.8	21.9
60°-70°	4127.7	27.4
70°-80°	2412.0	16.0
80°-90°	430.3	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°	15038.0	100.0
0°-180°	15038.0	100.0



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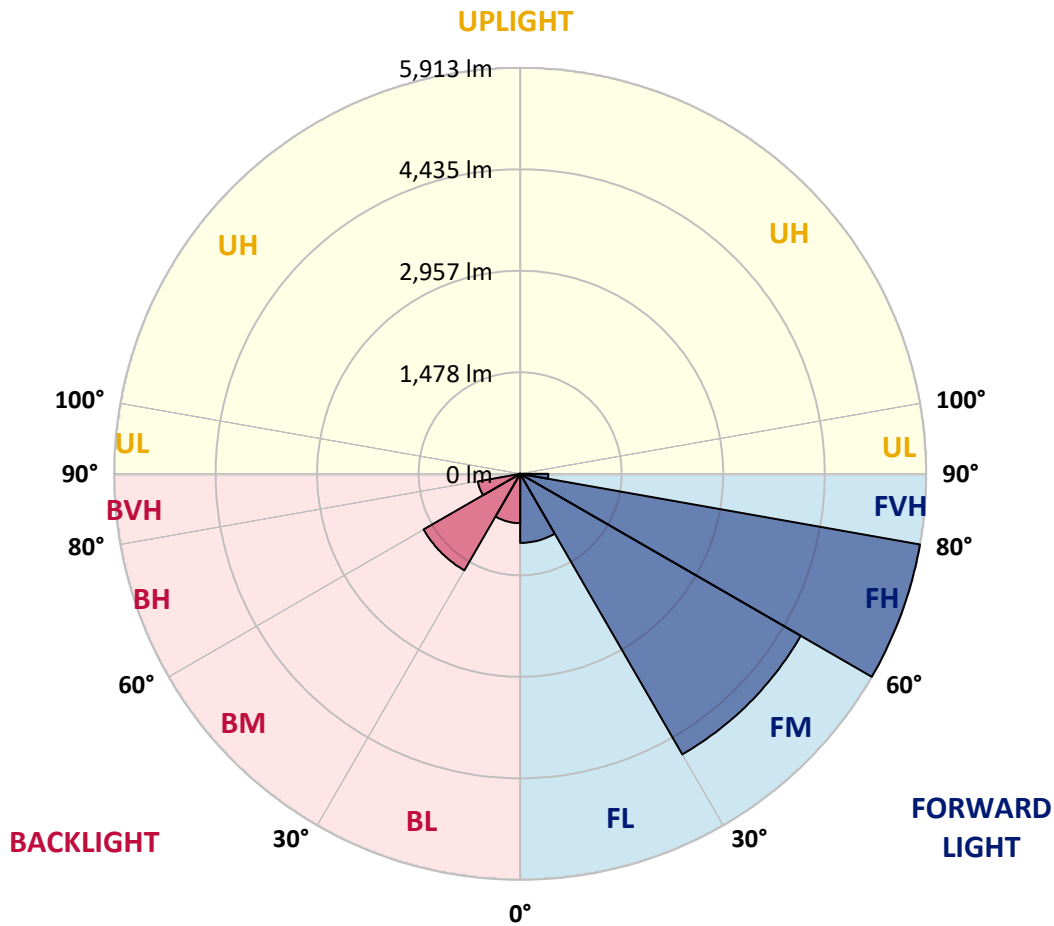
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.2	6.7			
FM (30°-60°)	4719.1	31.4			
FH (60°-80°)	5913.4	39.3			G3/7500
FVH (80°-90°)	410.2	2.7			G3/500
BL (0°-30°)	718.7	4.8	B2/1000		
BM (30°-60°)	1624.0	10.8	B2/2500		
BH (60°-80°)	626.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	20.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2333.0	2350.6	2390.0	2410.7	2442.8	2444.9	2444.9	2416.9	2415.9	2358.9
5°	2607.5	2649.0	2742.2	2838.5	2859.3	2864.4	2854.1	2798.1	2756.7	2645.8
7.5°	2880.0	2959.7	3101.7	3230.1	3271.6	3271.6	3246.7	3155.5	3070.6	2910.0
10°	3105.8	3206.3	3399.0	3543.0	3590.6	3580.3	3529.5	3414.5	3297.5	3102.7
12.5°	3255.0	3367.9	3579.2	3695.3	3744.0	3717.0	3659.0	3547.1	3423.9	3218.7
15°	3329.6	3447.7	3631.0	3692.2	3678.7	3650.7	3643.5	3589.6	3496.4	3304.7
17.5°	3361.7	3471.5	3598.9	3560.6	3446.6	3424.9	3497.4	3565.8	3543.0	3379.3
20°	3391.7	3483.9	3522.3	3352.4	3153.5	3133.8	3272.6	3467.4	3566.8	3448.7
22.5°	3433.2	3490.2	3411.4	3132.7	2918.3	2872.7	3026.0	3319.2	3574.1	3536.8
25°	3490.2	3505.7	3289.2	2924.5	2709.0	2663.5	2806.4	3154.5	3561.6	3632.1
27.5°	3558.5	3526.4	3172.1	2750.5	2542.2	2499.8	2642.7	2996.0	3526.4	3727.4
30°	3647.6	3553.3	3056.1	2615.8	2423.1	2392.0	2529.8	2859.3	3482.9	3848.6
32.5°	3737.7	3564.7	2948.3	2537.1	2396.2	2407.6	2520.5	2785.7	3435.2	3964.6
35°	3835.1	3601.0	2895.5	2614.8	2621.0	2720.4	2767.1	2854.1	3428.0	4122.1
37.5°	3967.7	3681.8	2958.7	3001.2	3216.7	3422.8	3384.5	3188.7	3511.9	4357.3
40°	4158.3	3823.7	3234.3	3659.0	4101.4	4436.0	4289.9	3796.8	3768.8	4696.0
42.5°	4436.0	4049.6	3723.2	4462.9	5213.0	5764.1	5372.5	4581.0	4218.4	5179.8
45°	4846.2	4415.3	4314.8	5311.4	6583.5	7451.7	6637.4	5417.0	4848.3	5912.2
47.5°	5415.0	4952.9	4869.0	6205.4	8249.4	9372.3	8040.1	6191.9	5565.2	6910.9
50°	6170.2	5677.1	5394.2	7183.4	10075.8	11330.3	9441.7	6939.9	6386.7	8131.3
52.5°	7166.8	6687.1	6006.5	8114.7	11954.0	13246.8	10849.6	7596.7	7406.1	9547.4
55°	8526.0	8206.9	6843.6	9003.5	13831.1	15174.8	12202.6	8216.2	8752.8	11229.8
57.5°	10212.5	10440.4	8050.5	10034.3	15518.7	17161.7	13561.8	9082.3	10501.5	13111.1
60°	11300.3	13410.5	10361.7	11558.2	17436.3	19408.7	15424.4	10729.4	12339.3	13785.5
62.5°	11037.1	14355.3	13129.8	13503.8	19199.5	21042.4	17249.8	12383.9	12685.3	12792.0
65°	10230.1	13592.8	12565.2	13881.9	19646.0	21134.6	17737.7	12170.5	10760.5	10443.5
67.5°	9119.6	12688.5	11223.6	12879.1	18839.0	19845.9	16829.2	10765.7	8315.7	7837.0
70°	7921.0	11687.7	10343.0	11754.0	17300.6	17599.9	15284.6	9468.7	6116.3	5292.7
72.5°	6783.5	10645.5	9740.1	10601.0	15248.3	14628.8	13273.8	8321.9	4453.6	3817.5
75°	5620.1	9108.2	8881.3	9231.4	12549.6	11523.0	11028.8	6890.2	3495.3	2761.9
77.5°	4336.5	7117.1	7639.2	7392.6	8833.6	8559.1	8548.8	5177.7	2553.6	1843.0
80°	2968.0	4960.2	5968.2	5215.0	5733.0	5593.2	6438.5	3473.6	1852.3	1109.5
82.5°	1744.6	3019.8	4154.2	2524.6	3170.0	3254.0	3834.1	1689.7	1089.8	255.9
85°	707.6	1192.4	1624.4	988.3	1529.1	1289.8	1455.5	474.5	303.5	6.2
87.5°	178.2	381.2	267.3	110.8	177.1	162.6	128.5	58.0	12.4	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2352.7	2.5°	2312.3	2288.4	2229.4	2170.3	2122.7	2058.5	2016.0	1965.2	1916.5	1873.0
2622.0	5°	2556.8	2478.0	2370.3	2271.9	2171.4	2074.0	1977.6	1876.1	1782.9	1725.9
2849.9	7.5°	2755.7	2616.8	2473.9	2348.5	2227.3	2113.4	1985.9	1862.7	1716.6	1638.9
3024.0	10°	2903.8	2721.5	2534.0	2390.0	2267.7	2156.9	2049.1	1924.8	1748.7	1651.3
3129.6	12.5°	3001.2	2784.7	2565.0	2400.3	2263.6	2177.6	2129.9	2081.2	1906.2	1792.2
3207.3	15°	3068.5	2829.2	2586.8	2376.5	2208.7	2145.5	2193.1	2249.1	2137.2	2005.6
3288.1	17.5°	3142.1	2887.2	2596.1	2312.3	2102.0	2075.0	2198.3	2327.8	2322.6	2192.1
3364.8	20°	3219.8	2938.0	2589.9	2208.7	1972.5	1996.3	2153.8	2304.0	2367.2	2296.7
3452.9	22.5°	3299.5	2986.7	2566.1	2074.0	1851.3	1925.9	2083.3	2214.9	2289.5	2267.7
3560.6	25°	3400.0	3055.0	2530.9	1929.0	1750.8	1854.4	2001.5	2108.2	2160.0	2158.9
3676.6	27.5°	3520.2	3146.2	2512.2	1811.9	1679.3	1773.6	1904.1	1999.4	2035.7	2035.7
3820.6	30°	3660.1	3254.0	2491.5	1735.2	1637.9	1689.7	1791.2	1884.4	1920.7	1920.7
3978.1	32.5°	3815.4	3357.5	2441.8	1688.6	1606.8	1607.8	1672.0	1757.0	1800.5	1806.7
4174.9	35°	4001.9	3468.4	2333.0	1651.3	1570.5	1528.0	1559.1	1629.6	1681.4	1694.8
4455.7	37.5°	4246.4	3604.1	2177.6	1596.4	1514.6	1444.1	1451.4	1505.3	1562.2	1582.9
4843.1	40°	4574.8	3763.6	2016.0	1517.7	1435.8	1351.9	1348.8	1388.2	1444.1	1466.9
5367.3	42.5°	5008.9	3955.3	1861.6	1442.1	1340.5	1254.5	1249.4	1280.4	1329.1	1353.0
6059.3	45°	5564.1	4190.5	1729.0	1383.0	1247.3	1162.3	1160.3	1186.2	1228.6	1253.5
6945.1	47.5°	6335.9	4425.6	1638.9	1351.9	1173.7	1086.7	1090.9	1113.7	1152.0	1169.6
8091.9	50°	7341.9	4497.1	1593.3	1351.9	1134.4	1019.4	1040.1	1058.8	1087.8	1098.1
9466.6	52.5°	8307.4	4260.9	1551.9	1360.2	1139.6	962.4	1007.0	1020.4	1045.3	1049.4
10740.8	55°	8780.8	3663.2	1494.9	1362.3	1171.7	913.7	980.0	1004.9	1014.2	1013.2
11480.5	57.5°	8618.2	2961.8	1398.5	1354.0	1193.4	882.6	946.9	994.5	1000.7	991.4
11339.6	60°	8047.3	2180.7	1325.0	1292.9	1185.1	873.3	896.1	971.7	981.1	968.6
10253.9	62.5°	7090.1	1513.5	1268.0	1158.2	1148.9	870.2	816.3	922.0	944.8	927.2
8242.1	65°	5581.8	1069.1	1091.9	1015.2	1070.1	853.6	733.5	861.9	893.0	866.1
5979.6	67.5°	3777.1	771.8	884.7	919.9	942.7	816.3	673.4	793.5	835.0	799.8
3837.2	70°	2039.8	541.8	584.3	774.9	800.8	752.1	619.5	724.1	771.8	733.5
2727.7	72.5°	1204.8	389.5	409.2	622.6	667.2	662.0	559.4	643.3	701.3	655.8
1882.3	75°	664.1	263.1	292.1	451.7	541.8	510.7	480.7	544.9	604.0	559.4
1180.0	77.5°	297.3	157.5	203.0	296.3	425.8	350.2	371.9	424.7	479.6	433.0
656.8	80°	115.0	88.1	134.7	161.6	309.8	193.7	239.3	312.9	352.2	314.9
143.0	82.5°	14.5	39.4	58.0	63.2	180.3	102.6	138.8	196.8	193.7	167.8
0.0	85°	0.0	7.3	8.3	4.1	77.7	37.3	45.6	64.2	60.1	45.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
1864.7	2.5°	1814.0	1776.7	1758.0	1742.5	1757.0	1765.3	1765.3	1800.5	1821.2	1829.5
1689.7	5°	1598.5	1529.1	1482.5	1454.5	1463.8	1474.2	1485.6	1530.1	1560.2	1579.8
1568.4	7.5°	1428.6	1322.9	1257.7	1223.5	1228.6	1235.9	1245.2	1288.7	1318.8	1344.7
1545.7	10°	1344.7	1195.5	1109.5	1068.1	1060.8	1056.7	1053.6	1079.5	1102.3	1123.0
1638.9	12.5°	1348.8	1140.6	1036.0	985.2	963.4	938.6	918.9	923.0	937.5	963.4
1805.7	15°	1401.7	1123.0	997.6	934.4	898.2	869.2	845.3	840.2	845.3	849.5
1996.3	17.5°	1473.1	1120.9	964.5	885.7	848.5	824.6	802.9	795.6	796.7	801.8
2122.7	20°	1530.1	1114.7	927.2	839.1	806.0	785.3	763.5	756.3	758.3	759.4
2135.1	22.5°	1560.2	1105.4	885.7	792.5	764.5	743.8	724.1	723.1	723.1	729.3
2067.8	25°	1560.2	1085.7	848.5	748.0	723.1	704.5	680.6	684.8	686.8	695.1
1963.1	27.5°	1522.9	1048.4	818.4	709.6	683.7	665.1	643.3	648.5	651.6	660.9
1859.6	30°	1475.2	1003.8	784.2	673.4	643.3	629.9	611.2	613.3	617.4	627.8
1763.2	32.5°	1424.4	951.0	756.3	637.1	607.1	596.7	576.0	579.1	583.2	594.6
1667.9	35°	1368.5	888.9	723.1	604.0	573.9	565.6	541.8	543.9	550.1	562.5
1565.3	37.5°	1309.5	838.1	690.0	571.9	540.8	532.5	507.6	509.7	516.9	531.4
1457.6	40°	1251.4	788.4	654.7	537.7	506.6	499.3	472.4	474.5	482.8	498.3
1348.8	42.5°	1188.2	750.0	609.1	502.4	469.3	462.0	437.2	440.3	449.6	465.1
1248.3	45°	1112.6	725.2	558.4	469.3	432.0	424.7	402.0	408.2	418.5	434.1
1162.3	47.5°	1034.9	714.8	515.9	434.1	393.7	387.4	368.8	379.2	390.6	403.0
1088.8	50°	960.3	701.3	472.4	400.9	360.5	354.3	341.9	355.3	366.7	378.1
1036.0	52.5°	875.4	672.3	433.0	371.9	332.5	330.5	324.3	336.7	347.0	357.4
990.4	55°	787.3	625.7	398.8	346.0	308.7	310.8	307.7	318.0	326.3	335.7
948.9	57.5°	710.7	566.7	371.9	318.0	288.0	294.2	290.1	295.2	300.4	311.8
899.2	60°	633.0	496.2	341.9	284.9	267.3	274.5	263.1	262.1	264.2	267.3
825.7	62.5°	528.3	422.7	304.6	255.9	244.5	247.6	225.8	209.3	209.3	212.4
723.1	65°	424.7	354.3	263.1	222.7	213.4	211.3	180.3	157.5	155.4	164.7
604.0	67.5°	349.1	294.2	221.7	185.4	179.2	181.3	158.5	135.7	133.6	144.0
492.1	70°	289.0	237.2	177.1	143.0	149.2	158.5	135.7	114.0	110.8	120.2
399.9	72.5°	230.0	185.4	135.7	105.7	123.3	134.7	110.8	90.1	88.1	96.3
308.7	75°	168.9	132.6	92.2	76.7	95.3	105.7	80.8	64.2	61.1	68.4
206.2	77.5°	104.6	74.6	58.0	45.6	65.3	70.4	42.5	37.3	36.3	41.4
125.4	80°	48.7	32.1	28.0	15.5	23.8	28.0	17.6	19.7	20.7	24.9
63.2	82.5°	13.5	5.2	1.0	0.0	0.0	8.3	4.1	8.3	10.4	15.5
5.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2	9.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
1887.5	2.5°	1931.0	1972.5	2038.8	2107.1	2174.5	2242.9	2309.2	2333.0
1670.0	5°	1751.8	1847.1	1978.7	2119.6	2264.6	2411.7	2546.4	2607.5
1445.2	7.5°	1551.9	1688.6	1886.5	2107.1	2338.2	2569.2	2781.6	2880.0
1222.4	10°	1338.5	1511.5	1737.3	2035.7	2367.2	2686.2	2978.4	3105.8
1026.6	12.5°	1135.4	1316.7	1566.4	1923.8	2344.4	2753.6	3104.8	3255.0
888.9	15°	965.5	1126.1	1395.4	1791.2	2270.8	2757.7	3164.9	3329.6
812.2	17.5°	838.1	942.7	1221.4	1644.1	2174.5	2719.4	3185.6	3361.7
770.8	20°	774.9	803.9	995.6	1455.5	2084.4	2683.1	3206.3	3391.7
737.6	22.5°	737.6	744.9	814.3	1212.1	1976.6	2671.7	3242.6	3433.2
707.6	25°	707.6	709.6	728.3	960.3	1811.9	2664.5	3298.5	3490.2
676.5	27.5°	677.5	677.5	687.9	773.9	1588.1	2633.4	3371.0	3558.5
645.4	30°	647.5	647.5	654.7	684.8	1326.0	2572.3	3458.0	3647.6
614.3	32.5°	616.4	616.4	622.6	644.4	1058.8	2495.6	3537.8	3737.7
582.2	35°	585.3	583.2	591.5	614.3	842.2	2398.2	3617.6	3835.1
550.1	37.5°	552.2	551.1	559.4	585.3	727.2	2285.3	3677.7	3967.7
518.0	40°	516.9	516.9	526.3	554.2	694.1	2143.4	3773.0	4158.3
484.8	42.5°	484.8	482.8	493.1	527.3	669.2	2007.7	3943.9	4436.0
454.8	45°	453.8	449.6	458.9	501.4	625.7	1960.0	4263.0	4846.2
425.8	47.5°	424.7	414.4	422.7	470.3	586.4	2138.2	4785.1	5415.0
399.9	50°	400.9	381.2	388.5	439.2	556.3	2524.6	5462.6	6170.2
376.1	52.5°	376.1	350.2	354.3	400.9	529.4	2892.4	6197.1	7166.8
352.2	55°	350.2	321.1	323.2	362.6	491.0	2947.3	6914.0	8526.0
325.3	57.5°	321.1	294.2	294.2	327.4	463.1	2554.7	7465.1	10212.5
292.1	60°	289.0	271.4	266.2	299.4	487.9	1802.6	7529.4	11300.3
249.7	62.5°	253.8	244.5	237.2	272.5	506.6	1068.1	7012.4	11037.1
196.8	65°	213.4	211.3	206.2	299.4	426.8	630.9	6020.0	10230.1
167.8	67.5°	179.2	176.1	176.1	313.9	324.3	396.8	4703.3	9119.6
143.0	70°	154.4	143.0	143.0	237.2	196.8	274.5	3284.0	7921.0
118.1	72.5°	129.5	117.1	108.8	189.6	147.1	201.0	2052.2	6783.5
90.1	75°	103.6	94.3	83.9	125.4	109.8	152.3	1192.4	5620.1
57.0	77.5°	74.6	70.4	59.0	92.2	79.8	109.8	709.6	4336.5
35.2	80°	38.3	39.4	37.3	52.8	53.9	74.6	404.0	2968.0
22.8	82.5°	22.8	17.6	19.7	25.9	31.1	42.5	152.3	1744.6
16.6	85°	14.5	9.3	9.3	12.4	15.5	16.6	46.6	707.6
8.3	87.5°	7.3	3.1	4.1	6.2	5.2	4.1	2.1	178.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)