

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: P949627

Luminaire Tested: **GALN-SB4B-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949627
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 14977 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

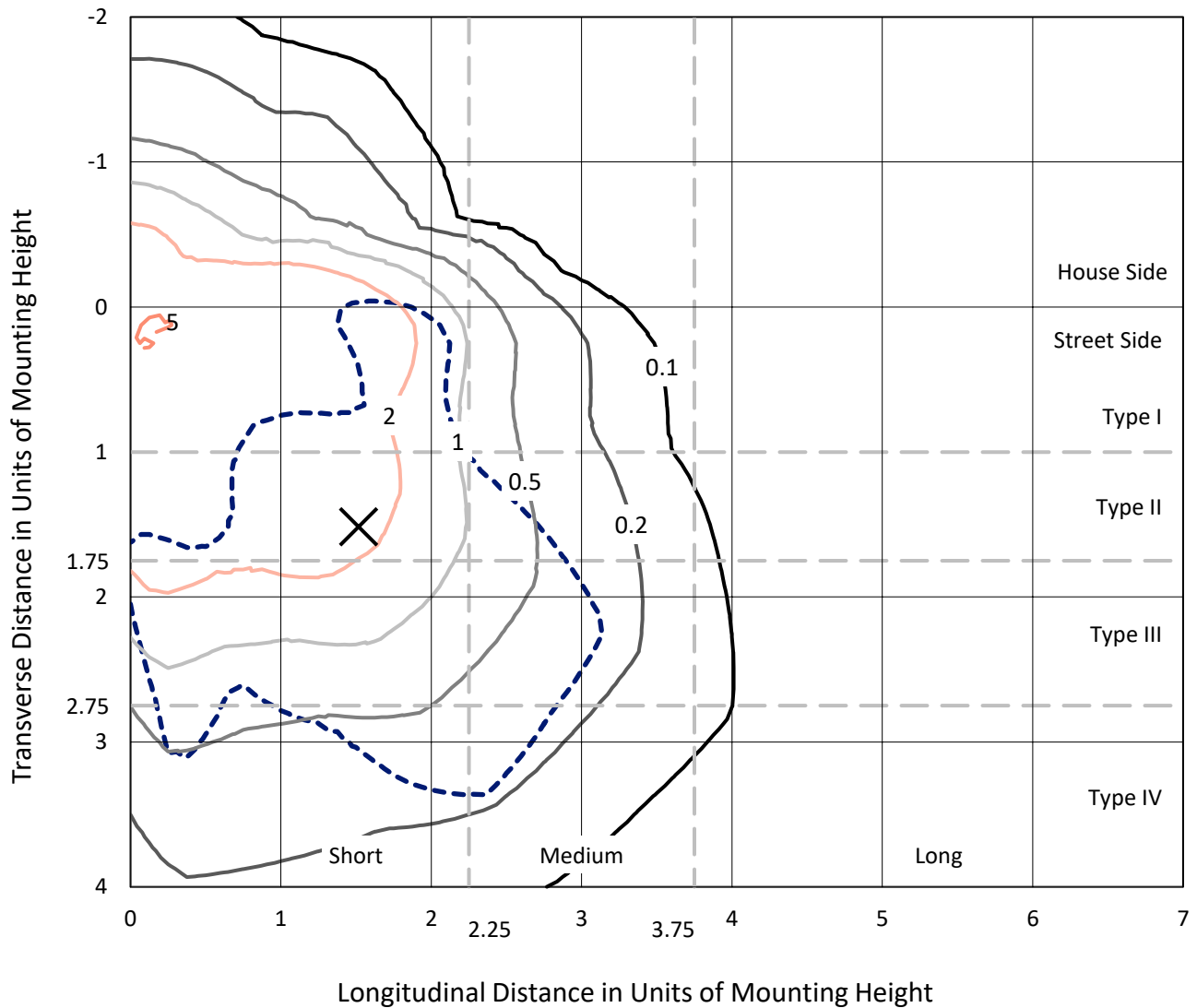
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

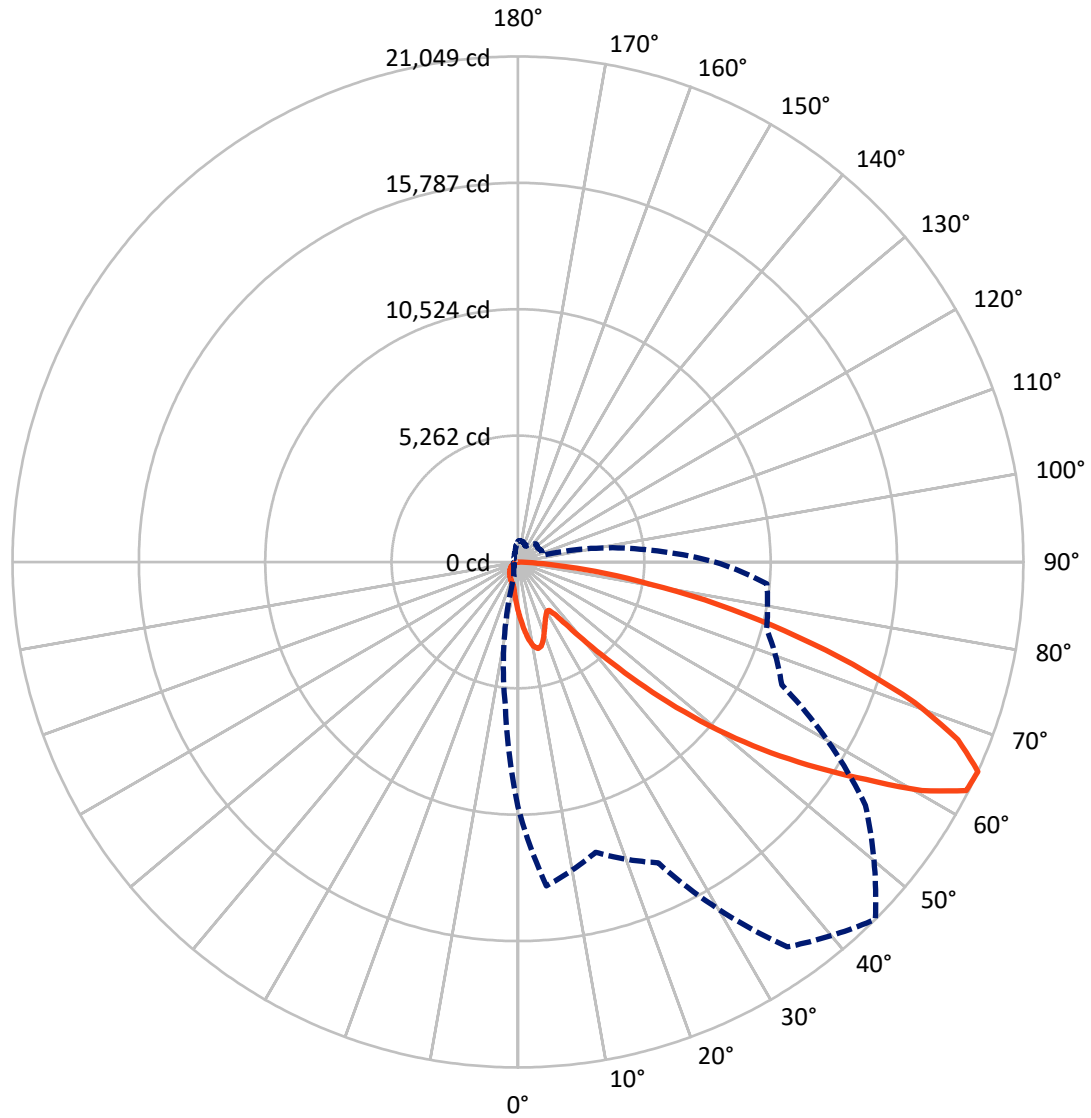
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2977.0	0.0	2977.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12000.0	0.0	12000.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	14977.0	0.0	14977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	1.4
10°-20°	612.1	4.1
20°-30°	901.7	6.0
30°-40°	1158.4	7.7
40°-50°	1873.5	12.5
50°-60°	3285.4	21.9
60°-70°	4110.9	27.4
70°-80°	2402.2	16.0
80°-90°	428.6	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°	14977.0	100.0
0°-180°	14977.0	100.0



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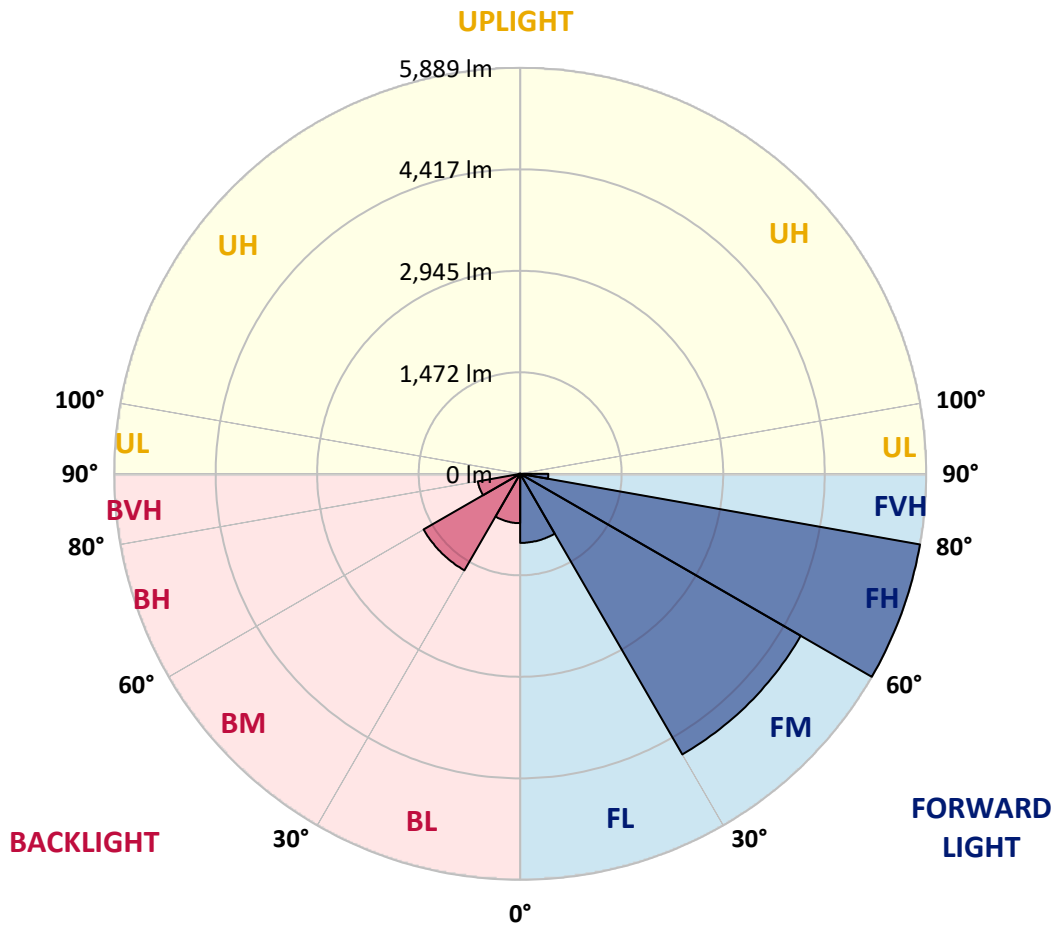
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.1	6.7			
FM (30°-60°)	4700.0	31.4			
FH (60°-80°)	5889.4	39.3			G3/7500
FVH (80°-90°)	408.5	2.7			G3/500
BL (0°-30°)	715.8	4.8	B2/1000		
BM (30°-60°)	1617.4	10.8	B2/2500		
BH (60°-80°)	623.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	20.1	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°	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8
2.5°	2323.5	2341.1	2380.3	2400.9	2432.9	2435.0	2435.0	2407.1	2406.1	2349.3
5°	2596.9	2638.2	2731.1	2827.0	2847.7	2852.8	2842.5	2786.8	2745.5	2635.1
7.5°	2868.3	2947.7	3089.1	3217.0	3258.3	3258.3	3233.5	3142.7	3058.1	2898.2
10°	3093.2	3193.3	3385.2	3528.6	3576.1	3565.8	3515.2	3400.7	3284.1	3090.1
12.5°	3241.8	3354.2	3564.7	3680.3	3728.8	3702.0	3644.2	3532.7	3410.0	3205.7
15°	3316.1	3433.7	3616.3	3677.2	3663.8	3635.9	3628.7	3575.0	3482.2	3291.3
17.5°	3348.1	3457.4	3584.3	3546.2	3432.7	3411.0	3483.2	3551.3	3528.6	3365.6
20°	3378.0	3469.8	3508.0	3338.8	3140.7	3121.1	3259.3	3453.3	3552.3	3434.7
22.5°	3419.2	3476.0	3397.6	3120.0	2906.5	2861.1	3013.8	3305.8	3559.6	3522.4
25°	3476.0	3491.5	3275.8	2912.7	2698.0	2652.7	2795.0	3141.7	3547.2	3617.3
27.5°	3544.1	3512.1	3159.2	2739.3	2531.9	2489.6	2632.0	2983.8	3512.1	3712.3
30°	3632.8	3538.9	3043.7	2605.2	2413.3	2382.3	2519.6	2847.7	3468.8	3833.0
32.5°	3722.6	3550.3	2936.4	2526.8	2386.5	2397.8	2510.3	2774.4	3421.3	3948.5
35°	3819.6	3586.4	2883.8	2604.2	2610.3	2709.4	2755.8	2842.5	3414.1	4105.4
37.5°	3951.6	3666.9	2946.7	2989.0	3203.6	3408.9	3370.8	3175.8	3497.7	4339.6
40°	4141.5	3808.2	3221.2	3644.2	4084.7	4418.0	4272.5	3781.4	3753.5	4677.0
42.5°	4418.0	4033.1	3708.1	4444.8	5191.8	5740.7	5350.7	4562.4	4201.3	5158.8
45°	4826.6	4397.4	4297.3	5289.8	6556.8	7421.4	6610.5	5395.1	4828.6	5888.2
47.5°	5393.0	4932.8	4849.3	6180.2	8215.9	9334.3	8007.5	6166.8	5542.6	6882.9
50°	6145.2	5654.0	5372.4	7154.2	10034.9	11284.3	9403.5	6911.8	6360.8	8098.3
52.5°	7137.7	6660.0	5982.1	8081.8	11905.5	13193.1	10805.6	7565.9	7376.0	9508.7
55°	8491.4	8173.6	6815.8	8967.0	13775.0	15113.2	12153.1	8182.9	8717.3	11184.3
57.5°	10171.1	10398.1	8017.8	9993.6	15455.7	17092.1	13506.8	9045.4	10458.9	13057.9
60°	11254.4	13356.1	10319.7	11511.3	17365.5	19330.0	15361.9	10685.9	12289.3	13729.6
62.5°	10992.4	14297.1	13076.5	13449.0	19121.6	20957.1	17179.8	12333.6	12633.9	12740.2
65°	10188.6	13537.7	12514.2	13825.6	19566.3	21048.9	17665.8	12121.1	10716.9	10401.2
67.5°	9082.6	12637.0	11178.1	12826.8	18762.5	19765.4	16760.9	10722.0	8281.9	7805.3
70°	7888.8	11640.3	10301.1	11706.3	17230.4	17528.6	15222.6	9430.3	6091.5	5271.3
72.5°	6756.0	10602.4	9700.6	10558.0	15186.5	14569.5	13219.9	8288.1	4435.5	3802.0
75°	5597.3	9071.2	8845.3	9194.0	12498.7	11476.3	10984.1	6862.2	3481.2	2750.7
77.5°	4318.9	7088.2	7608.2	7362.6	8797.8	8524.4	8514.1	5156.7	2543.3	1835.5
80°	2956.0	4940.1	5944.0	5193.9	5709.8	5570.5	6412.4	3459.5	1844.8	1105.0
82.5°	1737.5	3007.6	4137.4	2514.4	3157.2	3240.8	3818.5	1682.8	1085.4	254.8
85°	704.7	1187.6	1617.8	984.3	1522.9	1284.5	1449.6	472.5	302.3	6.2
87.5°	177.5	379.7	266.2	110.4	176.4	162.0	127.9	57.8	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°
2073.8	0°	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8
2343.1	2.5°	2302.9	2279.2	2220.3	2161.5	2114.1	2050.1	2007.8	1957.2	1908.8	1865.4
2611.4	5°	2546.4	2468.0	2360.7	2262.6	2162.6	2065.6	1969.6	1868.5	1775.7	1718.9
2838.4	7.5°	2744.5	2606.2	2463.8	2339.0	2218.3	2104.8	1977.9	1855.1	1709.6	1632.2
3011.7	10°	2892.0	2710.4	2523.7	2380.3	2258.5	2148.1	2040.8	1917.0	1741.6	1644.6
3116.9	12.5°	2989.0	2773.4	2554.6	2390.6	2254.4	2168.8	2121.3	2072.8	1898.4	1784.9
3194.3	15°	3056.1	2817.7	2576.3	2366.9	2199.7	2136.8	2184.2	2239.9	2128.5	1997.5
3274.8	17.5°	3129.3	2875.5	2585.6	2302.9	2093.4	2066.6	2189.4	2318.4	2313.2	2183.2
3351.2	20°	3206.7	2926.1	2579.4	2199.7	1964.5	1988.2	2145.0	2294.6	2357.6	2287.4
3438.9	22.5°	3286.2	2974.6	2555.7	2065.6	1843.8	1918.0	2074.9	2205.9	2280.2	2258.5
3546.2	25°	3386.2	3042.7	2520.6	1921.1	1743.7	1846.8	1993.4	2099.6	2151.2	2150.2
3661.7	27.5°	3505.9	3133.5	2502.0	1804.5	1672.5	1766.4	1896.4	1991.3	2027.4	2027.4
3805.1	30°	3645.2	3240.8	2481.4	1728.2	1631.2	1682.8	1783.9	1876.8	1912.9	1912.9
3962.0	32.5°	3800.0	3343.9	2431.9	1681.8	1600.3	1601.3	1665.3	1749.9	1793.2	1799.4
4158.0	35°	3985.7	3454.3	2323.5	1644.6	1564.1	1521.8	1552.8	1623.0	1674.5	1688.0
4437.6	37.5°	4229.2	3589.5	2168.8	1589.9	1508.4	1438.3	1445.5	1499.1	1555.9	1576.5
4823.5	40°	4556.2	3748.4	2007.8	1511.5	1430.0	1346.4	1343.4	1382.6	1438.3	1461.0
5345.5	42.5°	4988.6	3939.3	1854.1	1436.2	1335.1	1249.5	1244.3	1275.3	1323.7	1347.5
6034.8	45°	5541.6	4173.5	1722.0	1377.4	1242.2	1157.6	1155.6	1181.4	1223.7	1248.4
6916.9	47.5°	6310.2	4407.7	1632.2	1346.4	1169.0	1082.3	1086.4	1109.1	1147.3	1164.9
8059.1	50°	7312.1	4478.9	1586.8	1346.4	1129.8	1015.3	1035.9	1054.5	1083.3	1093.7
9428.2	52.5°	8273.7	4243.6	1545.6	1354.7	1134.9	958.5	1002.9	1016.3	1041.0	1045.2
10697.3	55°	8745.2	3648.3	1488.8	1356.8	1166.9	910.0	976.0	1000.8	1010.1	1009.1
11434.0	57.5°	8583.2	2949.8	1392.9	1348.5	1188.6	879.1	943.0	990.5	996.7	987.4
11293.6	60°	8014.7	2171.9	1319.6	1287.6	1180.3	869.8	892.5	967.8	977.1	964.7
10212.3	62.5°	7061.4	1507.4	1262.9	1153.5	1144.2	866.7	813.0	918.3	941.0	923.4
8208.7	65°	5559.1	1064.8	1087.5	1011.1	1065.8	850.2	730.5	858.4	889.4	862.6
5955.3	67.5°	3761.8	768.7	881.1	916.2	938.9	813.0	670.6	790.3	831.6	796.5
3821.6	70°	2031.5	539.6	581.9	771.8	797.5	749.1	617.0	721.2	768.7	730.5
2716.6	72.5°	1199.9	387.9	407.5	620.1	664.5	659.3	557.1	640.7	698.5	653.1
1874.7	75°	661.4	262.1	291.0	449.8	539.6	508.7	478.7	542.7	601.5	557.1
1175.2	77.5°	296.1	156.8	202.2	295.1	424.1	348.7	370.4	423.0	477.7	431.3
654.1	80°	114.5	87.7	134.1	161.0	308.5	192.9	238.3	311.6	350.8	313.7
142.4	82.5°	14.4	39.2	57.8	62.9	179.5	102.1	138.3	196.0	192.9	167.1
0.0	85°	0.0	7.2	8.3	4.1	77.4	37.1	45.4	64.0	59.8	45.4
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°
2073.8	0°	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8
1857.2	2.5°	1806.6	1769.5	1750.9	1735.4	1749.9	1758.1	1758.1	1793.2	1813.8	1822.1
1682.8	5°	1592.0	1522.9	1476.4	1448.6	1457.9	1468.2	1479.5	1523.9	1553.8	1573.4
1562.1	7.5°	1422.8	1317.6	1252.6	1218.5	1223.7	1230.9	1240.2	1283.5	1313.4	1339.2
1539.4	10°	1339.2	1190.6	1105.0	1063.7	1056.5	1052.4	1049.3	1075.1	1097.8	1118.4
1632.2	12.5°	1343.4	1136.0	1031.8	981.2	959.5	934.8	915.2	919.3	933.7	959.5
1798.4	15°	1396.0	1118.4	993.6	930.6	894.5	865.6	841.9	836.8	841.9	846.0
1988.2	17.5°	1467.2	1116.4	960.6	882.2	845.0	821.3	799.6	792.4	793.4	798.6
2114.1	20°	1523.9	1110.2	923.4	835.7	802.7	782.1	760.4	753.2	755.2	756.3
2126.5	22.5°	1553.8	1100.9	882.2	789.3	761.4	740.8	721.2	720.2	720.2	726.4
2059.4	25°	1553.8	1081.3	845.0	744.9	720.2	701.6	677.9	682.0	684.1	692.3
1955.2	27.5°	1516.7	1044.1	815.1	706.8	681.0	662.4	640.7	645.9	649.0	658.3
1852.0	30°	1469.2	999.8	781.0	670.6	640.7	627.3	608.7	610.8	614.9	625.2
1756.1	32.5°	1418.7	947.2	753.2	634.5	604.6	594.3	573.7	576.8	580.9	592.2
1661.1	35°	1363.0	885.2	720.2	601.5	571.6	563.3	539.6	541.7	547.9	560.2
1559.0	37.5°	1304.1	834.7	687.2	569.5	538.6	530.3	505.6	507.6	514.8	529.3
1451.7	40°	1246.4	785.2	652.1	535.5	504.5	497.3	470.5	472.5	480.8	496.3
1343.4	42.5°	1183.4	747.0	606.7	500.4	467.4	460.2	435.4	438.5	447.8	463.3
1243.3	45°	1108.1	722.2	556.1	467.4	430.2	423.0	400.3	406.5	416.8	432.3
1157.6	47.5°	1030.7	711.9	513.8	432.3	392.1	385.9	367.3	377.6	389.0	401.4
1084.4	50°	956.4	698.5	470.5	399.3	359.1	352.9	340.5	353.9	365.2	376.6
1031.8	52.5°	871.8	669.6	431.3	370.4	331.2	329.1	322.9	335.3	345.6	356.0
986.4	55°	784.1	623.2	397.2	344.6	307.5	309.5	306.4	316.7	325.0	334.3
945.1	57.5°	707.8	564.4	370.4	316.7	286.8	293.0	288.9	294.1	299.2	310.6
895.6	60°	630.4	494.2	340.5	283.7	266.2	273.4	262.1	261.0	263.1	266.2
822.3	62.5°	526.2	421.0	303.3	254.8	243.5	246.6	224.9	208.4	208.4	211.5
720.2	65°	423.0	352.9	262.1	221.8	212.5	210.5	179.5	156.8	154.8	164.0
601.5	67.5°	347.7	293.0	220.8	184.7	178.5	180.6	157.9	135.2	133.1	143.4
490.1	70°	287.9	236.3	176.4	142.4	148.6	157.9	135.2	113.5	110.4	119.7
398.3	72.5°	229.1	184.7	135.2	105.2	122.8	134.1	110.4	89.8	87.7	96.0
307.5	75°	168.2	132.1	91.8	76.4	94.9	105.2	80.5	64.0	60.9	68.1
205.3	77.5°	104.2	74.3	57.8	45.4	65.0	70.2	42.3	37.1	36.1	41.3
124.8	80°	48.5	32.0	27.9	15.5	23.7	27.9	17.5	19.6	20.6	24.8
62.9	82.5°	13.4	5.2	1.0	0.0	0.0	8.3	4.1	8.3	10.3	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°
2073.8	0°	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8	2073.8
1879.9	2.5°	1923.2	1964.5	2030.5	2098.6	2165.7	2233.8	2299.8	2323.5
1663.2	5°	1744.7	1839.6	1970.7	2111.0	2255.4	2401.9	2536.1	2596.9
1439.3	7.5°	1545.6	1681.8	1878.8	2098.6	2328.7	2558.8	2770.3	2868.3
1217.5	10°	1333.0	1505.3	1730.3	2027.4	2357.6	2675.4	2966.3	3093.2
1022.5	12.5°	1130.8	1311.4	1560.0	1916.0	2334.9	2742.4	3092.2	3241.8
885.2	15°	961.6	1121.5	1389.8	1783.9	2261.6	2746.5	3152.0	3316.1
808.9	17.5°	834.7	938.9	1216.4	1637.4	2165.7	2708.4	3172.7	3348.1
767.6	20°	771.8	800.6	991.5	1449.6	2075.9	2672.3	3193.3	3378.0
734.6	22.5°	734.6	741.8	811.0	1207.2	1968.6	2660.9	3229.4	3419.2
704.7	25°	704.7	706.8	725.3	956.4	1804.5	2653.7	3285.1	3476.0
673.7	27.5°	674.8	674.8	685.1	770.7	1581.7	2622.7	3357.3	3544.1
642.8	30°	644.8	644.8	652.1	682.0	1320.7	2561.9	3444.0	3632.8
611.8	32.5°	613.9	613.9	620.1	641.8	1054.5	2485.5	3523.5	3722.6
579.8	35°	582.9	580.9	589.1	611.8	838.8	2388.5	3602.9	3819.6
547.9	37.5°	549.9	548.9	557.1	582.9	724.3	2276.1	3662.7	3951.6
515.9	40°	514.8	514.8	524.1	552.0	691.3	2134.7	3757.7	4141.5
482.9	42.5°	482.9	480.8	491.1	525.2	666.5	1999.5	3927.9	4418.0
452.9	45°	451.9	447.8	457.1	499.4	623.2	1952.1	4245.7	4826.6
424.1	47.5°	423.0	412.7	421.0	468.4	584.0	2129.6	4765.7	5393.0
398.3	50°	399.3	379.7	386.9	437.5	554.1	2514.4	5440.5	6145.2
374.5	52.5°	374.5	348.7	352.9	399.3	527.2	2880.7	6172.0	7137.7
350.8	55°	348.7	319.8	321.9	361.1	489.1	2935.4	6886.0	8491.4
324.0	57.5°	319.8	293.0	293.0	326.0	461.2	2544.3	7434.9	10171.1
291.0	60°	287.9	270.3	265.2	298.2	486.0	1795.3	7498.8	11254.4
248.7	62.5°	252.8	243.5	236.3	271.4	504.5	1063.7	6984.0	10992.4
196.0	65°	212.5	210.5	205.3	298.2	425.1	628.3	5995.6	10188.6
167.1	67.5°	178.5	175.4	175.4	312.6	322.9	395.2	4684.2	9082.6
142.4	70°	153.7	142.4	142.4	236.3	196.0	273.4	3270.7	7888.8
117.6	72.5°	129.0	116.6	108.3	188.8	146.5	200.2	2043.9	6756.0
89.8	75°	103.2	93.9	83.6	124.8	109.4	151.7	1187.6	5597.3
56.7	77.5°	74.3	70.2	58.8	91.8	79.4	109.4	706.8	4318.9
35.1	80°	38.2	39.2	37.1	52.6	53.7	74.3	402.4	2956.0
22.7	82.5°	22.7	17.5	19.6	25.8	31.0	42.3	151.7	1737.5
16.5	85°	14.4	9.3	9.3	12.4	15.5	16.5	46.4	704.7
8.3	87.5°	7.2	3.1	4.1	6.2	5.2	4.1	2.1	177.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)