

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: P949984

Luminaire Tested: **GALN-SB4C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949984
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 19919 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

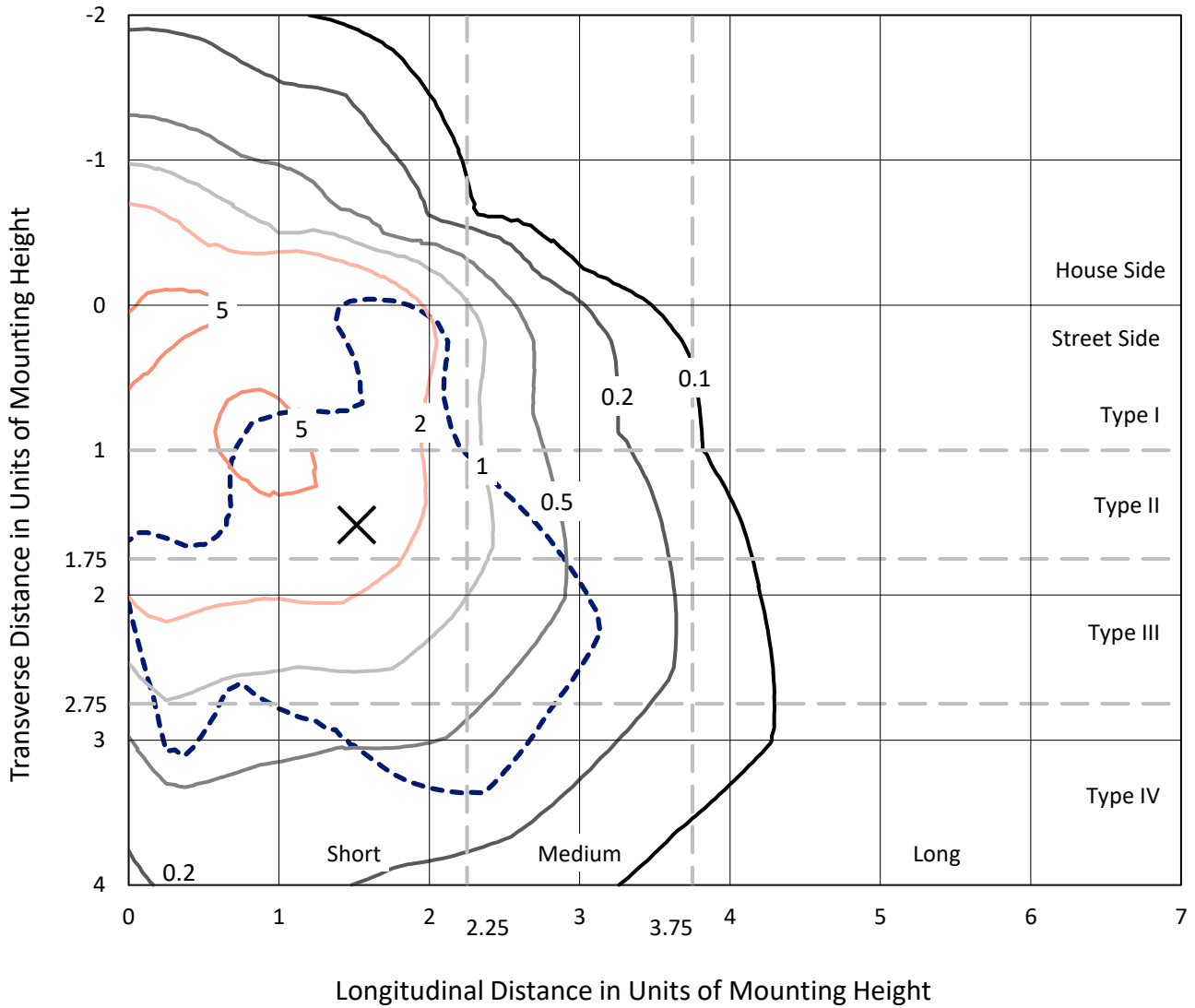
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

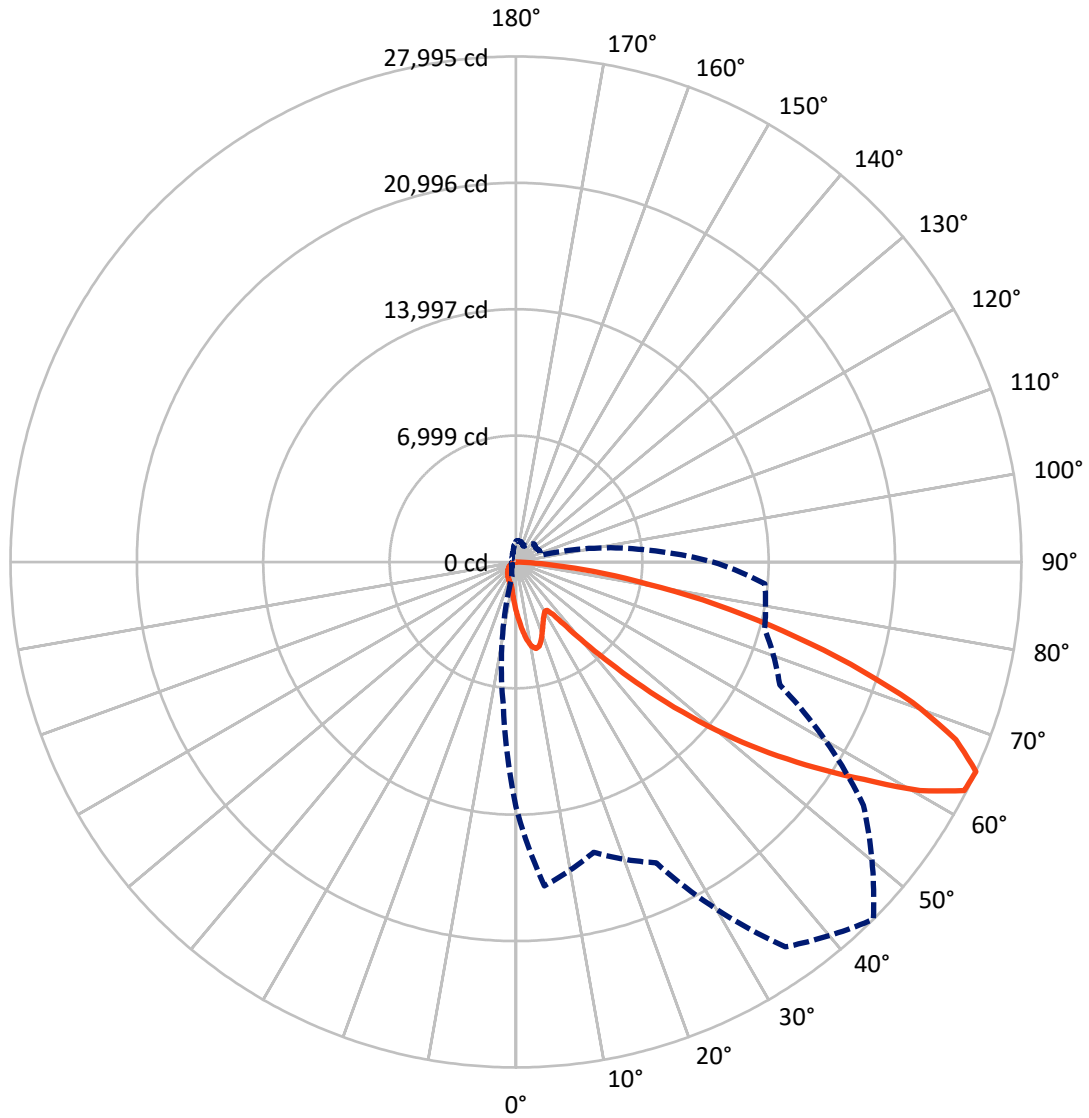
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3959.3	0.0	3959.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	15959.7	0.0	15959.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	19919.0	0.0	19919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.4
10°-20°	814.0	4.1
20°-30°	1199.2	6.0
30°-40°	1540.7	7.7
40°-50°	2491.7	12.5
50°-60°	4369.5	21.9
60°-70°	5467.4	27.4
70°-80°	3194.9	16.0
80°-90°	570.0	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°	19919.0	100.0
0°-180°	19919.0	100.0

Coefficient of Utilization



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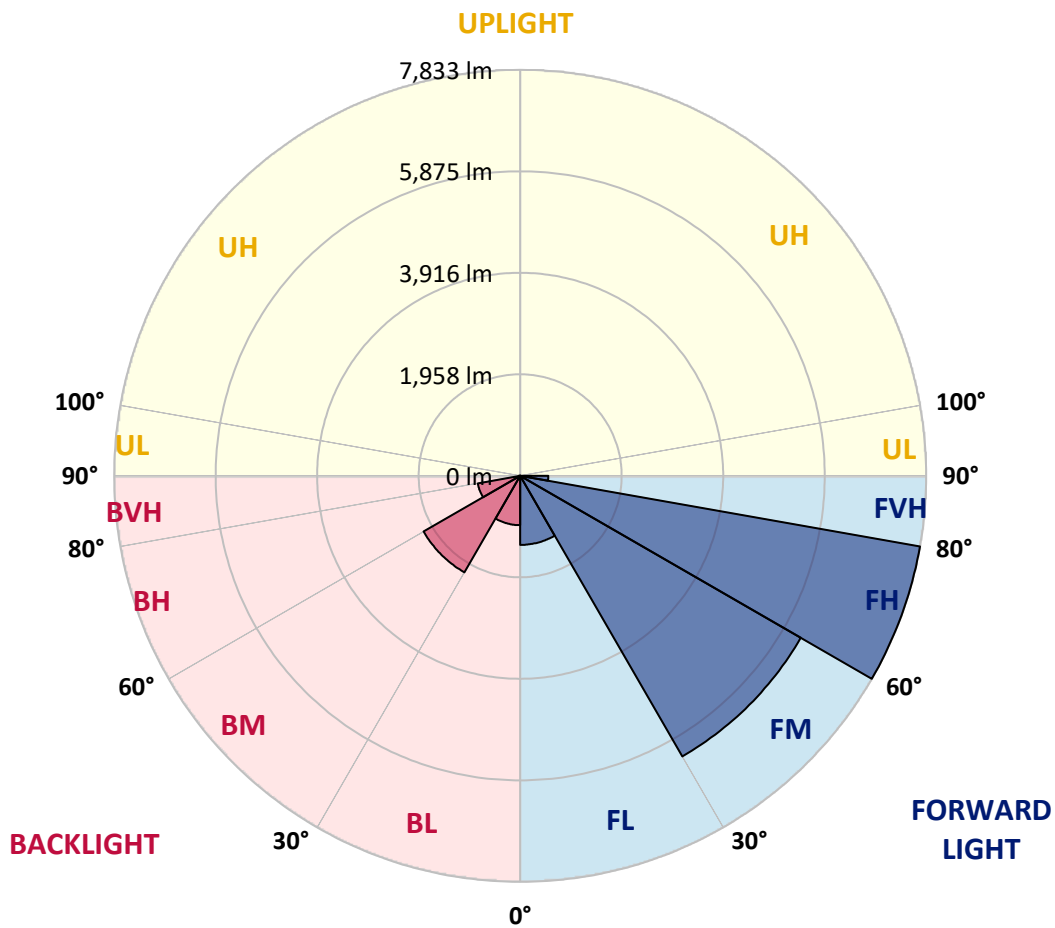
CATALOG NUMBER: GALN-SB4C-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.8	6.7			
FM (30°-60°)	6250.8	31.4			
FH (60°-80°)	7832.8	39.3			G4/12000
FVH (80°-90°)	543.3	2.7			G4/750
BL (0°-30°)	952.0	4.8	B2/1000		
BM (30°-60°)	2151.1	10.8	B2/2500		
BH (60°-80°)	829.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	26.7	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°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2.5°	3090.2	3113.5	3165.7	3193.1	3235.7	3238.4	3238.4	3201.4	3200.0	3124.5
5°	3453.9	3508.7	3632.2	3759.9	3787.3	3794.2	3780.4	3706.3	3651.5	3504.6
7.5°	3814.7	3920.4	4108.4	4278.6	4333.4	4333.4	4300.5	4179.8	4067.2	3854.5
10°	4113.9	4247.0	4502.2	4693.0	4756.1	4742.4	4675.1	4522.8	4367.7	4109.8
12.5°	4311.5	4461.1	4741.0	4894.7	4959.2	4923.5	4846.6	4698.5	4535.2	4263.5
15°	4410.3	4566.7	4809.6	4890.6	4872.7	4835.7	4826.1	4754.7	4631.2	4377.4
17.5°	4452.8	4598.3	4767.1	4716.3	4565.3	4536.5	4632.6	4723.2	4693.0	4476.2
20°	4492.6	4614.7	4665.5	4440.5	4177.0	4150.9	4334.8	4592.8	4724.5	4568.1
22.5°	4547.5	4623.0	4518.7	4149.6	3865.5	3805.1	4008.2	4396.6	4734.1	4684.7
25°	4623.0	4643.6	4356.8	3873.8	3588.3	3528.0	3717.3	4178.4	4717.7	4811.0
27.5°	4713.5	4671.0	4201.7	3643.2	3367.4	3311.1	3500.5	3968.4	4671.0	4937.2
30°	4831.6	4706.7	4048.0	3464.8	3209.6	3168.4	3350.9	3787.3	4613.4	5097.8
32.5°	4950.9	4721.8	3905.3	3360.5	3173.9	3189.0	3338.6	3689.9	4550.3	5251.5
35°	5079.9	4769.8	3835.3	3463.5	3471.7	3603.4	3665.2	3780.4	4540.6	5460.0
37.5°	5255.6	4876.8	3919.0	3975.3	4260.7	4533.8	4483.0	4223.7	4651.8	5771.5
40°	5508.1	5064.8	4284.0	4846.6	5432.6	5875.8	5682.3	5029.2	4992.1	6220.2
42.5°	5875.8	5364.0	4931.7	5911.5	6905.0	7635.0	7116.3	6067.9	5587.6	6861.1
45°	6419.2	5848.4	5715.3	7035.3	8720.4	9870.3	8791.8	7175.3	6421.9	7831.2
47.5°	7172.5	6560.5	6449.4	8219.5	10926.9	12414.4	10649.7	8201.7	7371.5	9154.0
50°	8172.9	7519.7	7145.1	9514.9	13346.1	15007.9	12506.3	9192.4	8459.7	10770.5
52.5°	9493.0	8857.6	7956.1	10748.5	15833.9	17546.5	14371.2	10062.4	9809.9	12646.3
55°	11293.3	10870.7	9064.8	11925.9	18320.4	20100.1	16163.3	10883.0	11593.8	14874.8
57.5°	13527.3	13829.1	10663.5	13291.2	20555.7	22732.0	17963.6	12030.2	13910.1	17366.7
60°	14968.1	17763.3	13724.9	15309.8	23095.7	25708.4	20430.8	14212.0	16344.4	18260.0
62.5°	14619.5	19014.7	17391.4	17886.8	25431.2	27872.4	22848.7	16403.4	16802.7	16944.1
65°	13550.6	18004.8	16643.5	18387.6	26022.6	27994.5	23495.0	16120.7	14253.2	13833.3
67.5°	12079.6	16806.8	14866.5	17059.3	24953.7	26287.4	22291.6	14260.0	11014.7	10380.8
70°	10491.9	15481.3	13700.2	15569.1	22915.9	23312.5	20245.6	12542.0	8101.5	7010.6
72.5°	8985.2	14100.8	12901.5	14041.8	20197.6	19377.0	17582.1	11023.0	5899.1	5056.6
75°	7444.2	12064.5	11764.0	12227.8	16623.0	15263.1	14608.6	9126.6	4629.8	3658.3
77.5°	5744.1	9427.1	10118.7	9792.1	11700.8	11337.2	11323.5	6858.3	3382.5	2441.2
80°	3931.4	6570.1	7905.3	6907.7	7593.8	7408.6	8528.3	4601.0	2453.5	1469.6
82.5°	2310.8	4000.0	5502.6	3344.1	4199.0	4310.1	5078.6	2238.1	1443.6	338.9
85°	937.2	1579.4	2151.6	1309.1	2025.4	1708.4	1928.0	628.5	402.1	8.2
87.5°	236.0	505.0	354.0	146.8	234.6	215.4	170.2	76.8	16.5	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°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
3116.3	2.5°	3062.8	3031.2	2953.0	2874.8	2811.7	2726.6	2670.3	2603.1	2538.6	2481.0
3473.1	5°	3386.6	3282.3	3139.6	3009.3	2876.2	2747.2	2619.6	2485.1	2361.6	2286.1
3775.0	7.5°	3650.1	3466.2	3276.8	3110.8	2950.3	2799.3	2630.5	2467.2	2273.8	2170.8
4005.5	10°	3846.3	3604.8	3356.4	3165.7	3003.8	2856.9	2714.2	2549.6	2316.3	2187.3
4145.4	12.5°	3975.3	3688.5	3397.6	3179.4	2998.3	2884.4	2821.3	2756.8	2524.9	2373.9
4248.4	15°	4064.5	3747.5	3426.4	3147.9	2925.6	2841.8	2905.0	2979.1	2830.9	2656.6
4355.4	17.5°	4161.9	3824.4	3438.8	3062.8	2784.2	2748.5	2911.8	3083.4	3076.5	2903.6
4456.9	20°	4264.8	3891.6	3430.5	2925.6	2612.7	2644.3	2852.8	3051.8	3135.5	3042.2
4573.6	22.5°	4370.5	3956.1	3399.0	2747.2	2452.1	2550.9	2759.5	2933.8	3032.6	3003.8
4716.3	25°	4503.6	4046.7	3352.3	2555.1	2319.0	2456.3	2651.1	2792.4	2861.1	2859.7
4870.0	27.5°	4662.8	4167.4	3327.6	2400.0	2224.4	2349.2	2522.1	2648.4	2696.4	2696.4
5060.7	30°	4848.0	4310.1	3300.2	2298.5	2169.5	2238.1	2372.6	2496.1	2544.1	2544.1
5269.3	32.5°	5053.9	4447.3	3234.3	2236.7	2128.3	2129.7	2214.7	2327.3	2384.9	2393.1
5530.0	35°	5300.9	4594.2	3090.2	2187.3	2080.3	2024.0	2065.2	2158.5	2227.1	2244.9
5901.9	37.5°	5624.7	4773.9	2884.4	2114.6	2006.2	1912.9	1922.5	1993.8	2069.3	2096.7
6415.1	40°	6059.7	4985.2	2670.3	2010.3	1901.9	1790.7	1786.6	1838.8	1912.9	1943.1
7109.4	42.5°	6634.6	5239.1	2465.9	1910.1	1775.6	1661.7	1654.9	1696.1	1760.5	1792.1
8026.1	45°	7370.1	5550.6	2290.2	1831.9	1652.1	1539.6	1536.9	1571.2	1627.4	1660.4
9199.3	47.5°	8392.4	5862.1	2170.8	1790.7	1554.7	1439.4	1444.9	1475.1	1525.9	1549.2
10718.3	50°	9724.9	5956.8	2110.5	1790.7	1502.6	1350.3	1377.7	1402.4	1440.8	1454.5
12539.3	52.5°	11003.8	5643.9	2055.6	1801.7	1509.4	1274.8	1333.8	1351.6	1384.6	1390.0
14227.1	55°	11630.9	4852.1	1980.1	1804.5	1552.0	1210.3	1298.1	1331.0	1343.4	1342.0
15206.8	57.5°	11415.4	3923.2	1852.5	1793.5	1580.8	1169.1	1254.2	1317.3	1325.6	1313.2
15020.2	60°	10659.3	2888.5	1755.1	1712.5	1569.8	1156.8	1187.0	1287.1	1299.5	1283.0
13582.1	62.5°	9391.4	2004.8	1679.6	1534.1	1521.8	1152.7	1081.3	1221.3	1251.5	1228.1
10917.3	65°	7393.5	1416.1	1446.3	1344.8	1417.5	1130.7	971.5	1141.7	1182.8	1147.2
7920.4	67.5°	5003.1	1022.3	1171.9	1218.5	1248.7	1081.3	891.9	1051.1	1106.0	1059.3
5082.7	70°	2701.9	717.7	773.9	1026.4	1060.7	996.2	820.6	959.2	1022.3	971.5
3613.0	72.5°	1595.9	516.0	542.0	824.7	883.7	876.8	741.0	852.1	929.0	868.6
2493.3	75°	879.6	348.5	387.0	598.3	717.7	676.5	636.7	721.8	800.0	741.0
1562.9	77.5°	393.8	208.6	269.0	392.5	564.0	463.8	492.6	562.6	635.3	573.6
870.0	80°	152.3	116.6	178.4	214.1	410.3	256.6	317.0	414.4	466.6	417.2
189.4	82.5°	19.2	52.1	76.8	83.7	238.8	135.8	183.9	260.7	256.6	222.3
0.0	85°	0.0	9.6	11.0	5.5	102.9	49.4	60.4	85.1	79.6	60.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2470.0	2.5°	2402.7	2353.3	2328.6	2308.1	2327.3	2338.2	2338.2	2384.9	2412.3	2423.3
2238.1	5°	2117.3	2025.4	1963.6	1926.6	1938.9	1952.7	1967.8	2026.8	2066.5	2092.6
2077.5	7.5°	1892.3	1752.3	1665.9	1620.6	1627.4	1637.0	1649.4	1707.0	1746.8	1781.1
2047.3	10°	1781.1	1583.5	1469.6	1414.7	1405.1	1399.7	1395.5	1429.8	1460.0	1487.5
2170.8	12.5°	1786.6	1510.8	1372.2	1305.0	1276.2	1243.2	1217.2	1222.6	1241.9	1276.2
2391.8	15°	1856.6	1487.5	1321.4	1237.7	1189.7	1151.3	1119.7	1112.9	1119.7	1125.2
2644.3	17.5°	1951.3	1484.7	1277.5	1173.2	1123.8	1092.3	1063.5	1053.9	1055.2	1062.1
2811.7	20°	2026.8	1476.5	1228.1	1111.5	1067.6	1040.1	1011.3	1001.7	1004.5	1005.8
2828.1	22.5°	2066.5	1464.1	1173.2	1049.7	1012.7	985.2	959.2	957.8	957.8	966.0
2738.9	25°	2066.5	1438.1	1123.8	990.7	957.8	933.1	901.5	907.0	909.8	920.8
2600.3	27.5°	2017.2	1388.7	1084.0	940.0	905.7	881.0	852.1	859.0	863.1	875.5
2463.1	30°	1954.0	1329.7	1038.8	891.9	852.1	834.3	809.6	812.3	817.8	831.6
2335.5	32.5°	1886.8	1259.7	1001.7	843.9	804.1	790.4	762.9	767.1	772.6	787.6
2209.3	35°	1812.7	1177.4	957.8	800.0	760.2	749.2	717.7	720.4	728.6	745.1
2073.4	37.5°	1734.5	1110.1	913.9	757.5	716.3	705.3	672.4	675.1	684.7	703.9
1930.7	40°	1657.6	1044.3	867.2	712.2	671.0	661.4	625.7	628.5	639.5	660.0
1786.6	42.5°	1573.9	993.5	806.9	665.5	621.6	612.0	579.1	583.2	595.5	616.1
1653.5	45°	1473.8	960.5	739.6	621.6	572.2	562.6	532.4	540.7	554.4	575.0
1539.6	47.5°	1370.8	946.8	683.4	575.0	521.4	513.2	488.5	502.2	517.3	533.8
1442.2	50°	1272.0	929.0	625.7	531.0	477.5	469.3	452.8	470.7	485.8	500.9
1372.2	52.5°	1159.5	890.6	573.6	492.6	440.5	437.7	429.5	446.0	459.7	473.4
1311.8	55°	1042.9	828.8	528.3	458.3	408.9	411.7	407.5	421.3	432.2	444.6
1256.9	57.5°	941.3	750.6	492.6	421.3	381.5	389.7	384.2	391.1	397.9	413.0
1191.1	60°	838.4	657.3	452.8	377.4	354.0	363.6	348.5	347.2	349.9	354.0
1093.7	62.5°	699.8	559.9	403.4	338.9	323.8	328.0	299.1	277.2	277.2	281.3
957.8	65°	562.6	469.3	348.5	295.0	282.7	279.9	238.8	208.6	205.8	218.2
800.0	67.5°	462.4	389.7	293.7	245.6	237.4	240.1	209.9	179.8	177.0	190.7
651.8	70°	382.8	314.2	234.6	189.4	197.6	209.9	179.8	150.9	146.8	159.2
529.7	72.5°	304.6	245.6	179.8	140.0	163.3	178.4	146.8	119.4	116.6	127.6
408.9	75°	223.7	175.6	122.1	101.5	126.2	140.0	107.0	85.1	81.0	90.6
273.1	77.5°	138.6	98.8	76.8	60.4	86.4	93.3	56.3	49.4	48.0	54.9
166.0	80°	64.5	42.5	37.0	20.6	31.6	37.0	23.3	26.1	27.4	32.9
83.7	82.5°	17.8	6.9	1.4	0.0	0.0	11.0	5.5	11.0	13.7	20.6
6.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.9	12.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2500.2	2.5°	2557.8	2612.7	2700.5	2791.1	2880.3	2970.8	3058.7	3090.2
2212.0	5°	2320.4	2446.7	2620.9	2807.5	2999.7	3194.5	3372.9	3453.9
1914.2	7.5°	2055.6	2236.7	2498.8	2791.1	3097.1	3403.1	3684.4	3814.7
1619.2	10°	1772.9	2002.1	2301.2	2696.4	3135.5	3558.1	3945.1	4113.9
1359.9	12.5°	1503.9	1744.1	2074.8	2548.2	3105.3	3647.3	4112.5	4311.5
1177.4	15°	1278.9	1491.6	1848.4	2372.6	3007.9	3652.8	4192.1	4410.3
1075.8	17.5°	1110.1	1248.7	1617.8	2177.7	2880.3	3602.1	4219.5	4452.8
1020.9	20°	1026.4	1064.8	1318.7	1928.0	2760.9	3554.0	4247.0	4492.6
977.0	22.5°	977.0	986.6	1078.6	1605.5	2618.2	3538.9	4295.0	4547.5
937.2	25°	937.2	940.0	964.7	1272.0	2400.0	3529.3	4369.1	4623.0
896.1	27.5°	897.4	897.4	911.1	1025.0	2103.6	3488.2	4465.2	4713.5
854.9	30°	857.6	857.6	867.2	907.0	1756.4	3407.2	4580.4	4831.6
813.7	32.5°	816.5	816.5	824.7	853.5	1402.4	3305.7	4686.1	4950.9
771.2	35°	775.3	772.6	783.5	813.7	1115.6	3176.7	4791.8	5079.9
728.6	37.5°	731.4	730.0	741.0	775.3	963.3	3027.1	4871.3	5255.6
686.1	40°	684.7	684.7	697.1	734.1	919.4	2839.1	4997.6	5508.1
642.2	42.5°	642.2	639.5	653.2	698.5	886.4	2659.3	5224.0	5875.8
602.4	45°	601.0	595.5	607.9	664.2	828.8	2596.2	5646.6	6419.2
564.0	47.5°	562.6	548.9	559.9	623.0	776.7	2832.2	6338.2	7172.5
529.7	50°	531.0	505.0	514.6	581.8	736.9	3344.1	7235.7	8172.9
498.1	52.5°	498.1	463.8	469.3	531.0	701.2	3831.2	8208.6	9493.0
466.6	55°	463.8	425.4	428.1	480.3	650.4	3903.9	9158.1	11293.3
430.9	57.5°	425.4	389.7	389.7	433.6	613.4	3383.9	9888.2	13527.3
387.0	60°	382.8	359.5	352.7	396.6	646.3	2387.6	9973.2	14968.1
330.7	62.5°	336.2	323.8	314.2	360.9	671.0	1414.7	9288.5	14619.5
260.7	65°	282.7	279.9	273.1	396.6	565.4	835.7	7973.9	13550.6
222.3	67.5°	237.4	233.3	233.3	415.8	429.5	525.6	6229.8	12079.6
189.4	70°	204.5	189.4	189.4	314.2	260.7	363.6	4349.9	10491.9
156.4	72.5°	171.5	155.1	144.1	251.1	194.9	266.2	2718.4	8985.2
119.4	75°	137.2	124.9	111.1	166.0	145.5	201.7	1579.4	7444.2
75.5	77.5°	98.8	93.3	78.2	122.1	105.7	145.5	940.0	5744.1
46.7	80°	50.8	52.1	49.4	70.0	71.4	98.8	535.2	3931.4
30.2	82.5°	30.2	23.3	26.1	34.3	41.2	56.3	201.7	2310.8
22.0	85°	19.2	12.3	12.3	16.5	20.6	22.0	61.7	937.2
11.0	87.5°	9.6	4.1	5.5	8.2	6.9	5.5	2.7	236.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)