

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: P956326

Luminaire Tested: **GALN-SB9A-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956326
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-SB9A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 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: 31182 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

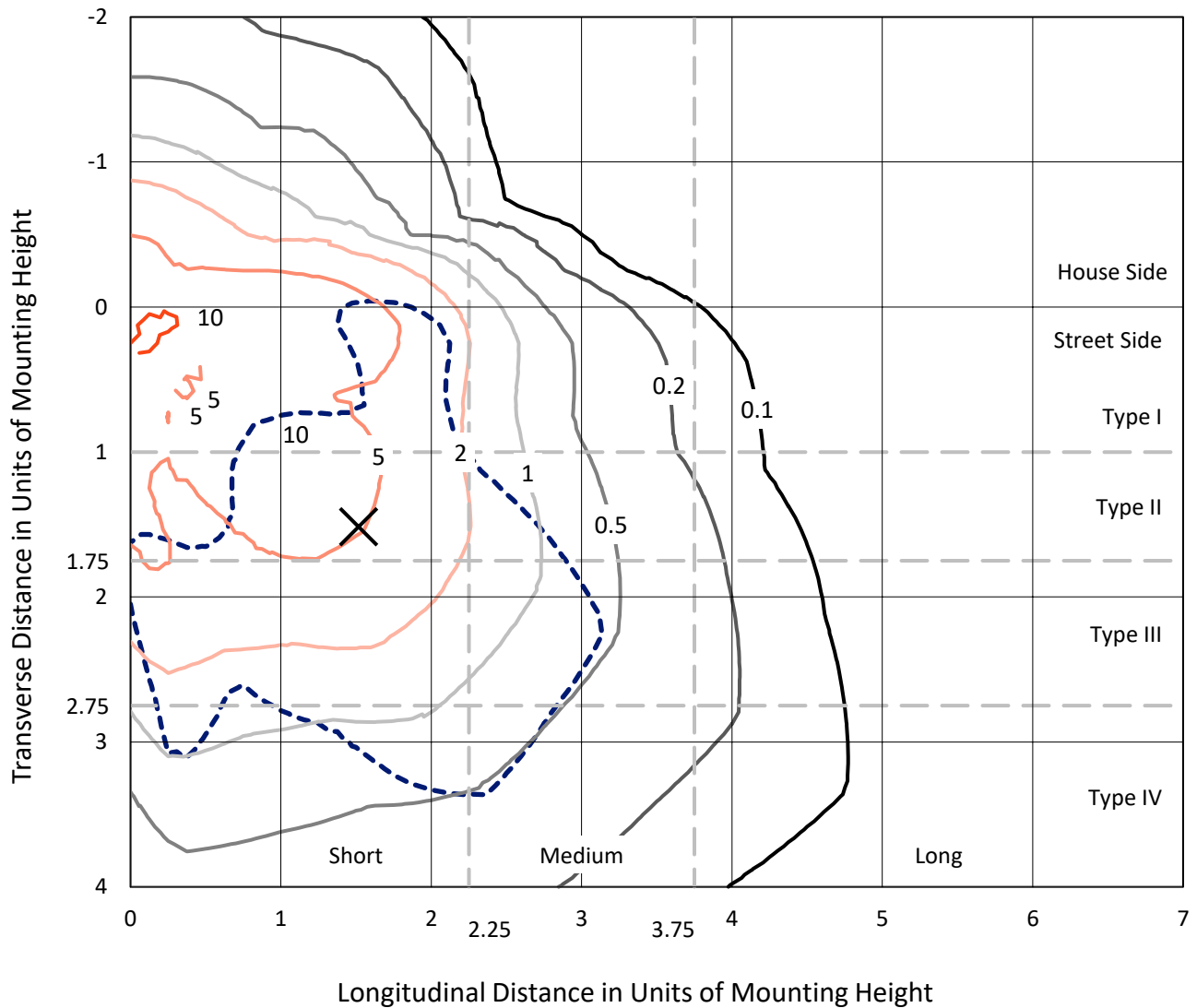
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

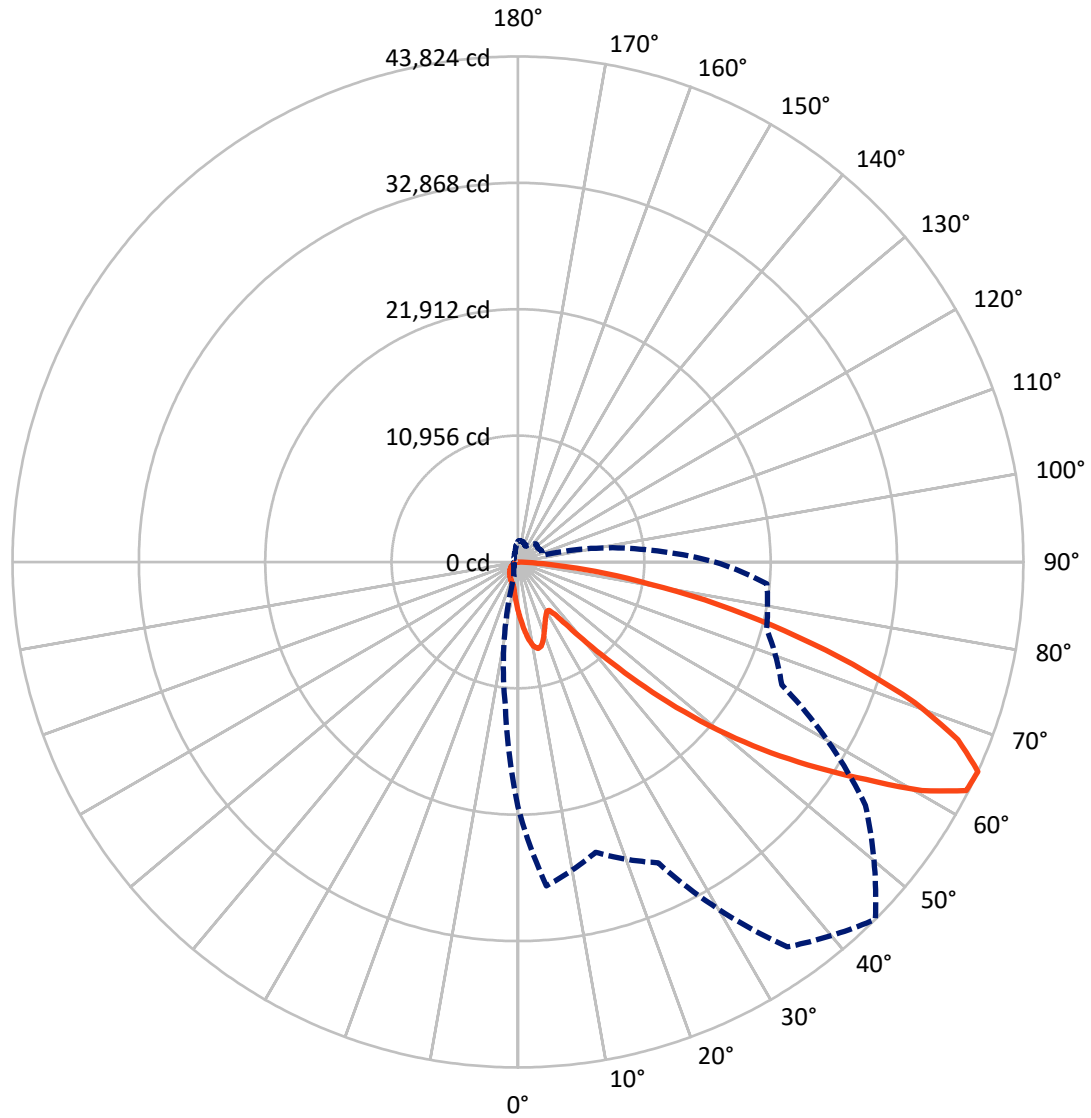
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	6198.0	0.0	6198.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	24984.0	0.0	24984.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	31182.0	0.0	31182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	1.4
10°-20°	1274.3	4.1
20°-30°	1877.3	6.0
30°-40°	2411.8	7.7
40°-50°	3900.6	12.5
50°-60°	6840.2	21.9
60°-70°	8558.9	27.4
70°-80°	5001.4	16.0
80°-90°	892.3	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°	31182.0	100.0
0°-180°	31182.0	100.0

Coefficient of Utilization



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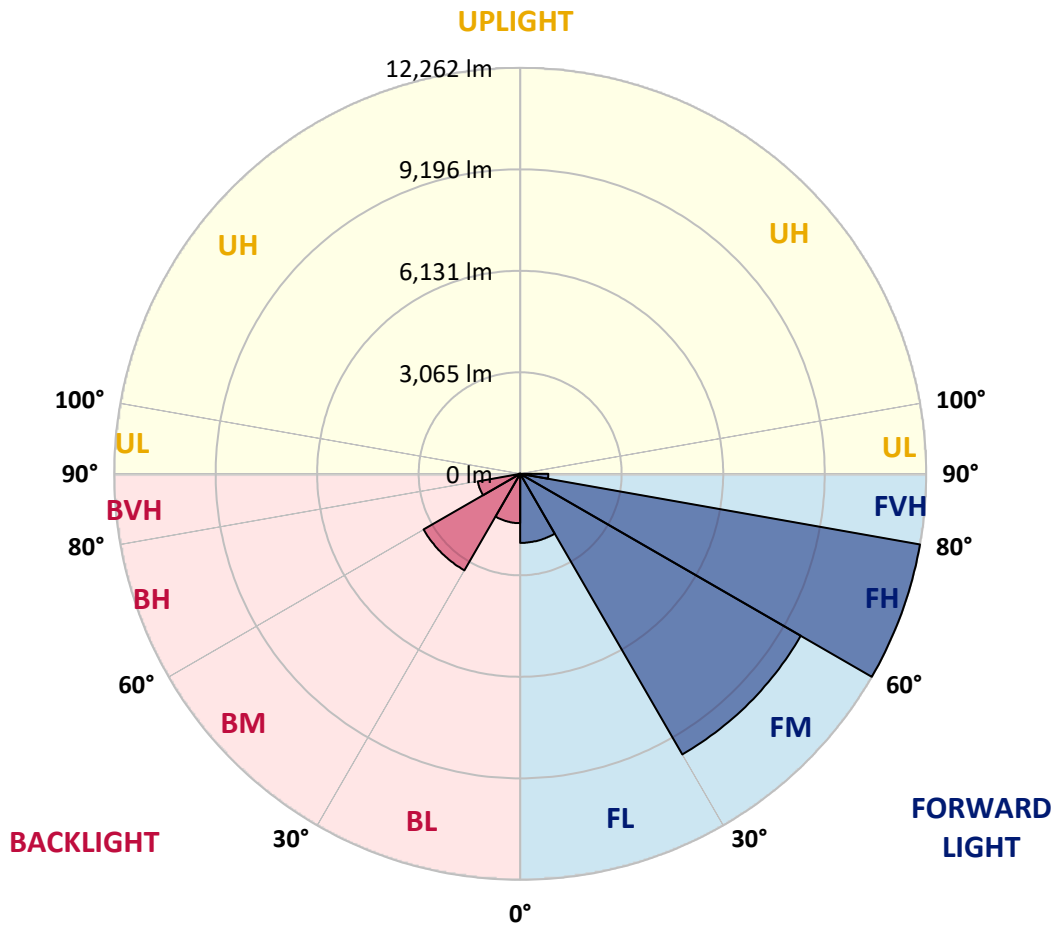
CATALOG NUMBER: GALN-SB9A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.4	6.7			
FM (30°-60°)	9785.3	31.4			
FH (60°-80°)	12261.7	39.3			G5
FVH (80°-90°)	850.5	2.7			G5
BL (0°-30°)	1490.3	4.8	B3/2500		
BM (30°-60°)	3367.3	10.8	B3/5000		
BH (60°-80°)	1298.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	41.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7
2.5°	4837.6	4874.1	4955.7	4998.7	5065.3	5069.5	5069.5	5011.6	5009.4	4891.3
5°	5406.8	5492.7	5686.1	5885.8	5928.8	5939.5	5918.1	5802.1	5716.1	5486.3
7.5°	5971.8	6137.2	6431.5	6697.8	6783.7	6783.7	6732.2	6543.2	6367.0	6034.1
10°	6440.0	6648.4	7048.0	7346.6	7445.4	7423.9	7318.6	7080.2	6837.4	6433.6
12.5°	6749.4	6983.5	7421.7	7662.3	7763.3	7707.4	7587.1	7355.1	7099.5	6674.2
15°	6904.0	7148.9	7529.1	7655.9	7628.0	7570.0	7554.9	7443.2	7249.9	6852.5
17.5°	6970.6	7198.3	7462.5	7383.1	7146.8	7101.7	7252.0	7393.8	7346.6	7007.1
20°	7032.9	7224.1	7303.6	6951.3	6538.9	6498.0	6785.9	7189.7	7396.0	7151.1
22.5°	7118.8	7237.0	7073.7	6495.9	6051.2	5956.7	6274.6	6882.6	7411.0	7333.7
25°	7237.0	7269.2	6820.3	6064.1	5617.3	5522.8	5819.2	6541.0	7385.2	7531.3
27.5°	7378.8	7312.2	6577.5	5703.2	5271.5	5183.4	5479.8	6212.3	7312.2	7728.9
30°	7563.5	7368.0	6336.9	5424.0	5024.4	4960.0	5245.7	5928.8	7222.0	7980.2
32.5°	7750.4	7391.7	6113.5	5260.7	4968.6	4992.2	5226.4	5776.3	7123.1	8220.8
35°	7952.3	7466.8	6004.0	5421.8	5434.7	5640.9	5737.6	5918.1	7108.1	8547.3
37.5°	8227.3	7634.4	6135.0	6223.1	6669.9	7097.4	7017.9	6611.9	7282.1	9035.0
40°	8622.5	7928.7	6706.4	7587.1	8504.4	9198.2	8895.3	7872.8	7814.8	9737.4
42.5°	9198.2	8397.0	7720.3	9254.1	10809.3	11952.1	11140.1	9499.0	8747.1	10740.6
45°	10048.9	9155.3	8946.9	11013.4	13651.3	15451.4	13763.0	11232.5	10053.2	12259.3
47.5°	11228.2	10270.1	10096.1	12867.2	17105.4	19434.0	16671.5	12839.3	11539.7	14330.1
50°	12794.2	11771.7	11185.2	14895.0	20892.6	23493.9	19577.9	14390.2	13243.1	16860.5
52.5°	14860.7	13866.1	12454.8	16826.2	24787.1	27467.9	22497.2	15752.1	15356.9	19797.0
55°	17679.0	17017.4	14190.4	18669.3	28679.5	31465.6	25302.6	17036.7	18149.4	23285.6
57.5°	21176.1	21648.7	16693.0	20806.6	32178.7	35585.7	28121.0	18832.5	21775.4	27186.5
60°	23431.6	27807.3	21485.4	23966.5	36154.9	40244.9	31983.3	22248.0	25586.2	28585.0
62.5°	22886.0	29766.4	27225.2	28000.7	39811.0	43632.5	35768.2	25678.6	26303.7	26524.9
65°	21212.6	28185.4	26054.5	28784.7	40736.8	43823.7	36780.0	25236.0	22312.5	21655.1
67.5°	18909.8	26310.1	23272.7	26705.4	39063.5	41151.4	34896.1	22323.2	17242.9	16250.5
70°	16424.5	24235.0	21446.8	24372.5	35873.5	36494.3	31693.3	19633.8	12682.5	10974.7
72.5°	14065.9	22074.0	20196.6	21981.7	31618.1	30333.5	27523.8	17255.8	9234.7	7915.8
75°	11653.5	18886.2	18415.8	19141.8	26022.3	23893.5	22868.8	14287.1	7247.7	5726.9
77.5°	8992.0	14757.5	15840.2	15328.9	18317.0	17747.7	17726.2	10736.3	5295.1	3821.5
80°	6154.3	10285.2	12375.3	10813.6	11887.7	11597.7	13350.5	7202.6	3840.8	2300.6
82.5°	3617.4	6261.8	8613.9	5235.0	6573.2	6747.2	7950.2	3503.6	2259.8	530.6
85°	1467.2	2472.5	3368.2	2049.3	3170.6	2674.4	3018.1	983.8	629.4	12.9
87.5°	369.5	790.5	554.2	229.8	367.3	337.3	266.4	120.3	25.8	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°
4317.7	0°	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7
4878.4	2.5°	4794.6	4745.2	4622.7	4500.3	4401.5	4268.3	4180.2	4075.0	3974.0	3883.8
5436.9	5°	5301.5	5138.3	4914.9	4710.8	4502.4	4300.5	4100.7	3890.2	3696.9	3578.8
5909.5	7.5°	5714.0	5426.1	5129.7	4869.8	4618.4	4382.2	4117.9	3862.3	3559.4	3398.3
6270.3	10°	6021.2	5643.1	5254.3	4955.7	4702.2	4472.4	4249.0	3991.2	3626.0	3424.1
6489.5	12.5°	6223.1	5774.1	5318.7	4977.2	4693.6	4515.3	4416.5	4315.6	3952.5	3716.2
6650.6	15°	6362.7	5866.5	5363.8	4927.8	4579.8	4448.7	4547.6	4663.6	4431.6	4158.7
6818.1	17.5°	6515.2	5986.8	5383.2	4794.6	4358.5	4302.7	4558.3	4826.8	4816.1	4545.4
6977.1	20°	6676.3	6092.1	5370.3	4579.8	4090.0	4139.4	4465.9	4777.4	4908.4	4762.4
7159.7	22.5°	6841.7	6193.0	5320.9	4300.5	3838.7	3993.3	4319.9	4592.7	4747.3	4702.2
7383.1	25°	7050.1	6334.8	5247.8	3999.8	3630.3	3845.1	4150.2	4371.4	4478.8	4476.7
7623.7	27.5°	7299.3	6523.8	5209.2	3757.1	3482.1	3677.6	3948.2	4145.9	4221.0	4221.0
7922.2	30°	7589.3	6747.2	5166.2	3598.1	3396.2	3503.6	3714.1	3907.4	3982.6	3982.6
8248.8	32.5°	7911.5	6962.0	5063.1	3501.4	3331.7	3333.9	3467.1	3643.2	3733.4	3746.3
8656.9	35°	8298.2	7191.9	4837.6	3424.1	3256.5	3168.5	3232.9	3379.0	3486.4	3514.3
9239.0	37.5°	8805.1	7473.3	4515.3	3310.2	3140.5	2994.5	3009.5	3121.2	3239.4	3282.3
10042.4	40°	9486.1	7804.1	4180.2	3147.0	2977.3	2803.3	2796.8	2878.5	2994.5	3041.7
11129.4	42.5°	10386.1	8201.5	3860.2	2990.2	2779.7	2601.4	2590.6	2655.1	2756.0	2805.4
12564.3	45°	11537.5	8689.1	3585.2	2867.7	2586.3	2410.2	2405.9	2459.6	2547.7	2599.2
14401.0	47.5°	13137.9	9176.7	3398.3	2803.3	2433.8	2253.4	2262.0	2309.2	2388.7	2425.2
16778.9	50°	15223.7	9325.0	3303.8	2803.3	2352.2	2113.7	2156.7	2195.4	2255.5	2277.0
19629.5	52.5°	17225.7	8835.2	3217.9	2820.5	2362.9	1995.6	2088.0	2115.9	2167.4	2176.0
22271.6	55°	18207.4	7595.7	3099.7	2824.8	2429.5	1894.6	2032.1	2083.7	2103.0	2100.9
23805.4	57.5°	17870.2	6141.5	2900.0	2807.6	2474.6	1830.2	1963.4	2062.2	2075.1	2055.7
23513.3	60°	16686.5	4521.8	2747.4	2680.8	2457.4	1810.9	1858.1	2014.9	2034.3	2008.5
21262.0	62.5°	14701.7	3138.4	2629.3	2401.6	2382.3	1804.4	1692.7	1911.8	1959.1	1922.6
17090.4	65°	11574.0	2216.9	2264.1	2105.2	2219.0	1770.0	1520.9	1787.2	1851.7	1795.8
12398.9	67.5°	7832.0	1600.3	1834.5	1907.5	1954.8	1692.7	1396.3	1645.5	1731.4	1658.3
7956.6	70°	4229.6	1123.5	1211.5	1606.8	1660.5	1559.5	1284.6	1501.5	1600.3	1520.9
5656.0	72.5°	2498.3	807.7	848.5	1291.0	1383.4	1372.6	1160.0	1334.0	1454.3	1359.8
3903.1	75°	1376.9	545.6	605.8	936.6	1123.5	1059.0	996.7	1129.9	1252.4	1160.0
2446.7	77.5°	616.5	326.5	421.0	614.4	882.9	726.1	771.2	880.7	994.6	897.9
1361.9	80°	238.4	182.6	279.3	335.1	642.3	401.7	496.2	648.7	730.4	653.0
296.4	82.5°	30.1	81.6	120.3	131.0	373.8	212.7	287.8	408.1	401.7	348.0
0.0	85°	0.0	15.0	17.2	8.6	161.1	77.3	94.5	133.2	124.6	94.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°
4317.7	0°	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7
3866.6	2.5°	3761.3	3684.0	3645.3	3613.1	3643.2	3660.4	3660.4	3733.4	3776.4	3793.6
3503.6	5°	3314.5	3170.6	3074.0	3016.0	3035.3	3056.8	3080.4	3172.8	3235.1	3275.9
3252.2	7.5°	2962.2	2743.1	2607.8	2536.9	2547.7	2562.7	2582.0	2672.3	2734.5	2788.3
3205.0	10°	2788.3	2478.9	2300.6	2214.7	2199.7	2191.1	2184.6	2238.3	2285.6	2328.6
3398.3	12.5°	2796.8	2365.1	2148.1	2042.9	1997.7	1946.2	1905.4	1914.0	1944.0	1997.7
3744.2	15°	2906.4	2328.6	2068.6	1937.6	1862.4	1802.3	1752.9	1742.1	1752.9	1761.5
4139.4	17.5°	3054.6	2324.3	1999.9	1836.6	1759.3	1709.9	1664.8	1649.8	1651.9	1662.6
4401.5	20°	3172.8	2311.4	1922.6	1740.0	1671.2	1628.3	1583.2	1568.1	1572.4	1574.6
4427.3	22.5°	3235.1	2292.0	1836.6	1643.3	1585.3	1542.3	1501.5	1499.4	1499.4	1512.3
4287.6	25°	3235.1	2251.2	1759.3	1550.9	1499.4	1460.7	1411.3	1419.9	1424.2	1441.4
4070.7	27.5°	3157.7	2173.9	1697.0	1471.5	1417.8	1379.1	1334.0	1344.7	1351.2	1370.5
3855.9	30°	3058.9	2081.5	1626.1	1396.3	1334.0	1306.1	1267.4	1271.7	1280.3	1301.8
3656.1	32.5°	2953.7	1972.0	1568.1	1321.1	1258.8	1237.3	1194.4	1200.8	1209.4	1233.0
3458.5	35°	2837.7	1843.1	1499.4	1252.4	1190.1	1172.9	1123.5	1127.8	1140.6	1166.4
3245.8	37.5°	2715.2	1737.8	1430.6	1185.8	1121.3	1104.1	1052.6	1056.9	1071.9	1102.0
3022.4	40°	2594.9	1634.7	1357.6	1114.9	1050.4	1035.4	979.5	983.8	1001.0	1033.2
2796.8	42.5°	2463.9	1555.2	1263.1	1041.8	973.1	958.1	906.5	912.9	932.3	964.5
2588.5	45°	2307.1	1503.7	1157.8	973.1	895.8	880.7	833.5	846.4	867.8	900.1
2410.2	47.5°	2146.0	1482.2	1069.8	900.1	816.3	803.4	764.7	786.2	809.8	835.6
2257.7	50°	1991.3	1454.3	979.5	831.3	747.5	734.7	708.9	736.8	760.4	784.1
2148.1	52.5°	1815.2	1394.1	897.9	771.2	689.5	685.2	672.4	698.1	719.6	741.1
2053.6	55°	1632.6	1297.5	827.0	717.5	640.1	644.4	638.0	659.5	676.7	696.0
1967.7	57.5°	1473.6	1175.0	771.2	659.5	597.2	610.1	601.5	612.2	623.0	646.6
1864.6	60°	1312.5	1028.9	708.9	590.7	554.2	569.3	545.6	543.5	547.8	554.2
1712.0	62.5°	1095.5	876.4	631.5	530.6	507.0	513.4	468.3	433.9	433.9	440.4
1499.4	65°	880.7	734.7	545.6	461.8	442.5	438.2	373.8	326.5	322.2	341.6
1252.4	67.5°	723.9	610.1	459.7	384.5	371.6	375.9	328.7	281.4	277.1	298.6
1020.4	70°	599.3	491.9	367.3	296.4	309.3	328.7	281.4	236.3	229.8	249.2
829.2	72.5°	476.9	384.5	281.4	219.1	255.6	279.3	229.8	186.9	182.6	199.8
640.1	75°	350.1	275.0	191.2	159.0	197.6	219.1	167.6	133.2	126.7	141.8
427.5	77.5°	217.0	154.7	120.3	94.5	135.3	146.1	88.1	77.3	75.2	85.9
259.9	80°	101.0	66.6	58.0	32.2	49.4	58.0	36.5	40.8	43.0	51.6
131.0	82.5°	27.9	10.7	2.1	0.0	0.0	17.2	8.6	17.2	21.5	32.2
10.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.7	19.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
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°
4317.7	0°	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7	4317.7
3913.9	2.5°	4004.1	4090.0	4227.5	4369.3	4508.9	4650.7	4788.1	4837.6
3462.8	5°	3632.5	3830.1	4102.9	4395.0	4695.8	5000.8	5280.1	5406.8
2996.6	7.5°	3217.9	3501.4	3911.7	4369.3	4848.3	5327.3	5767.7	5971.8
2534.8	10°	2775.4	3134.1	3602.4	4221.0	4908.4	5570.1	6175.8	6440.0
2128.8	12.5°	2354.3	2730.3	3247.9	3989.0	4861.2	5709.7	6437.9	6749.4
1843.1	15°	2002.0	2335.0	2893.5	3714.1	4708.7	5718.3	6562.5	6904.0
1684.1	17.5°	1737.8	1954.8	2532.6	3409.1	4508.9	5638.8	6605.5	6970.6
1598.2	20°	1606.8	1666.9	2064.3	3018.1	4322.0	5563.6	6648.4	7032.9
1529.5	22.5°	1529.5	1544.5	1688.4	2513.3	4098.6	5540.0	6723.6	7118.8
1467.2	25°	1467.2	1471.5	1510.1	1991.3	3757.1	5524.9	6839.6	7237.0
1402.7	27.5°	1404.9	1404.9	1426.3	1604.6	3293.1	5460.5	6990.0	7378.8
1338.3	30°	1342.6	1342.6	1357.6	1419.9	2749.6	5333.8	7170.4	7563.5
1273.8	32.5°	1278.1	1278.1	1291.0	1336.1	2195.4	5174.8	7335.8	7750.4
1207.2	35°	1213.7	1209.4	1226.6	1273.8	1746.4	4972.9	7501.2	7952.3
1140.6	37.5°	1144.9	1142.8	1160.0	1213.7	1508.0	4738.7	7625.8	8227.3
1074.1	40°	1071.9	1071.9	1091.2	1149.2	1439.2	4444.4	7823.4	8622.5
1005.3	42.5°	1005.3	1001.0	1022.5	1093.4	1387.7	4163.0	8177.9	9198.2
943.0	45°	940.9	932.3	951.6	1039.7	1297.5	4064.2	8839.5	10048.9
882.9	47.5°	880.7	859.2	876.4	975.2	1215.8	4433.7	9922.1	11228.2
829.2	50°	831.3	790.5	805.5	910.8	1153.5	5235.0	11327.0	12794.2
779.8	52.5°	779.8	726.1	734.7	831.3	1097.7	5997.5	12850.0	14860.7
730.4	55°	726.1	665.9	670.2	751.8	1018.2	6111.4	14336.5	17679.0
674.5	57.5°	665.9	610.1	610.1	678.8	960.2	5297.2	15479.3	21176.1
605.8	60°	599.3	562.8	552.1	620.8	1011.8	3737.7	15612.5	23431.6
517.7	62.5°	526.3	507.0	491.9	565.0	1050.4	2214.7	14540.6	22886.0
408.1	65°	442.5	438.2	427.5	620.8	885.0	1308.2	12482.7	21212.6
348.0	67.5°	371.6	365.2	365.2	650.9	672.4	822.7	9752.4	18909.8
296.4	70°	320.1	296.4	296.4	491.9	408.1	569.3	6809.5	16424.5
244.9	72.5°	268.5	242.7	225.6	393.1	305.0	416.7	4255.4	14065.9
186.9	75°	214.8	195.5	174.0	259.9	227.7	315.8	2472.5	11653.5
118.1	77.5°	154.7	146.1	122.4	191.2	165.4	227.7	1471.5	8992.0
73.0	80°	79.5	81.6	77.3	109.6	111.7	154.7	837.8	6154.3
47.3	82.5°	47.3	36.5	40.8	53.7	64.4	88.1	315.8	3617.4
34.4	85°	30.1	19.3	19.3	25.8	32.2	34.4	96.7	1467.2
17.2	87.5°	15.0	6.4	8.6	12.9	10.7	8.6	4.3	369.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)