

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: P955635

Luminaire Tested: **GALN-SB8C-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955635
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-SB8C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48897 lumens
Efficiency: N/A
Efficacy: 122.3 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

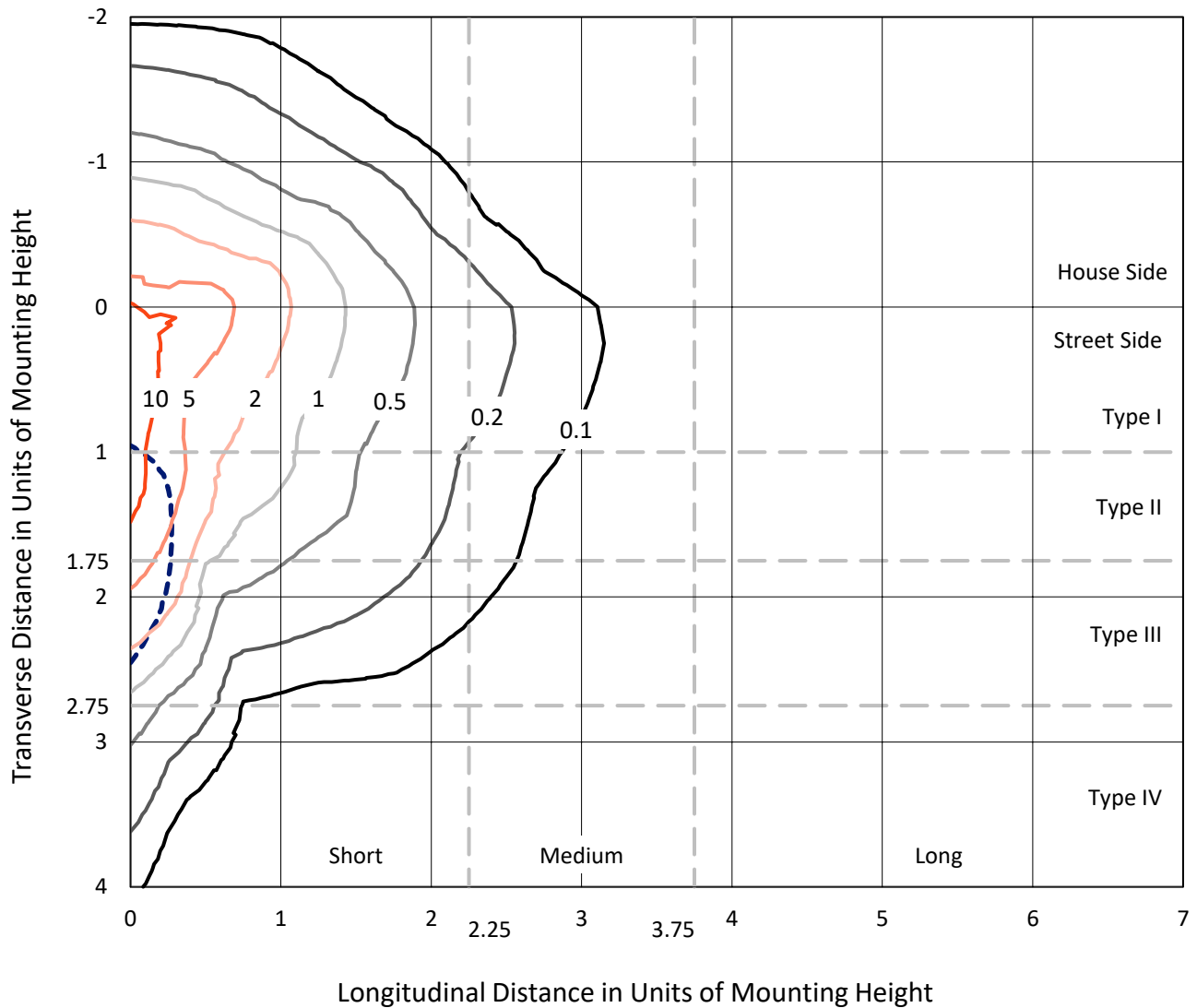
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

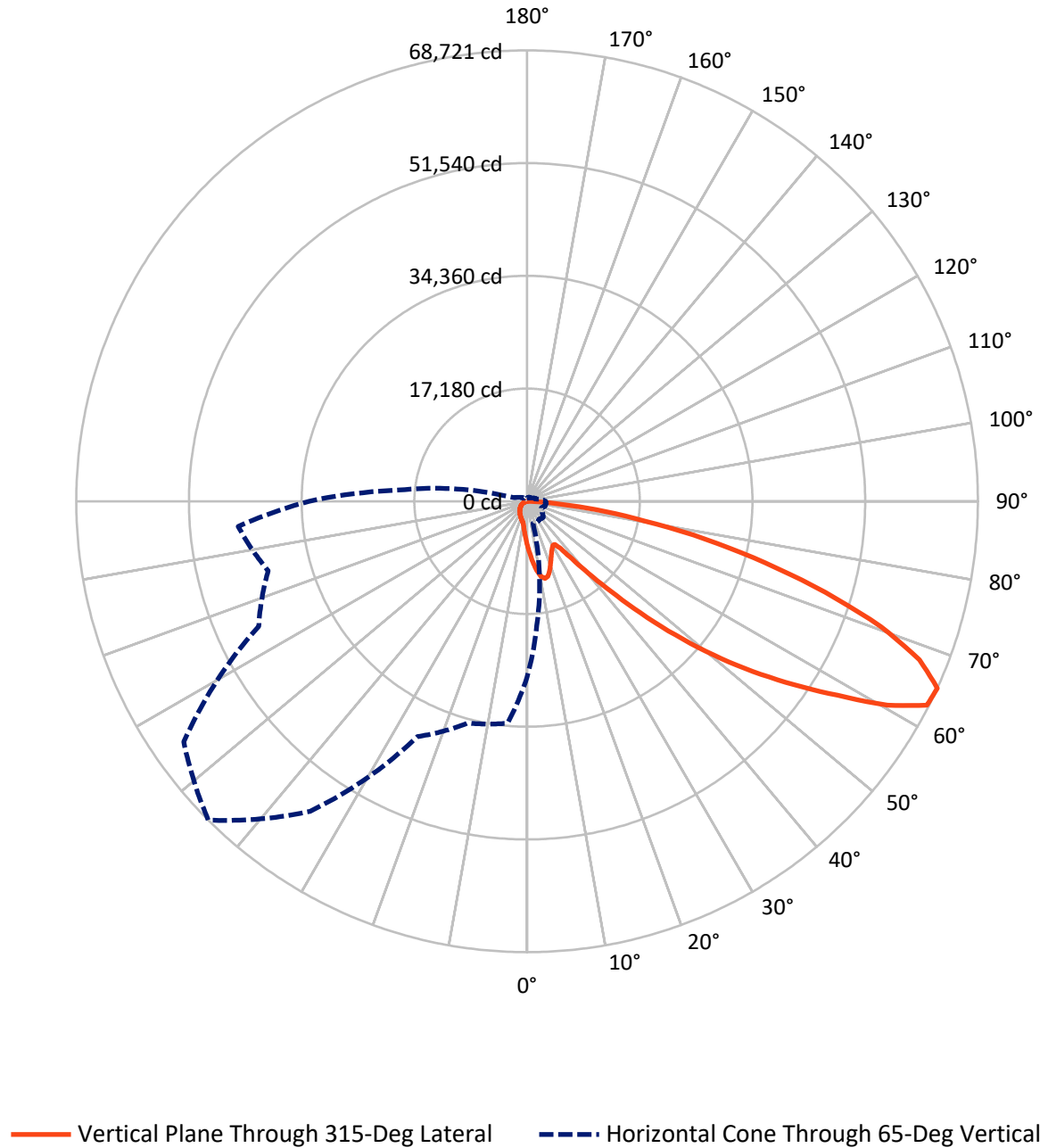
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6847.7	0.0	6847.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	42049.3	0.0	42049.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	48897.0	0.0	48897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.6	1.4
10°-20°	1998.3	4.1
20°-30°	2943.8	6.0
30°-40°	3782.0	7.7
40°-50°	6116.7	12.5
50°-60°	10726.2	21.9
60°-70°	13421.4	27.4
70°-80°	7842.8	16.0
80°-90°	1399.3	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°	48897.0	100.0
0°-180°	48897.0	100.0

Coefficient of Utilization



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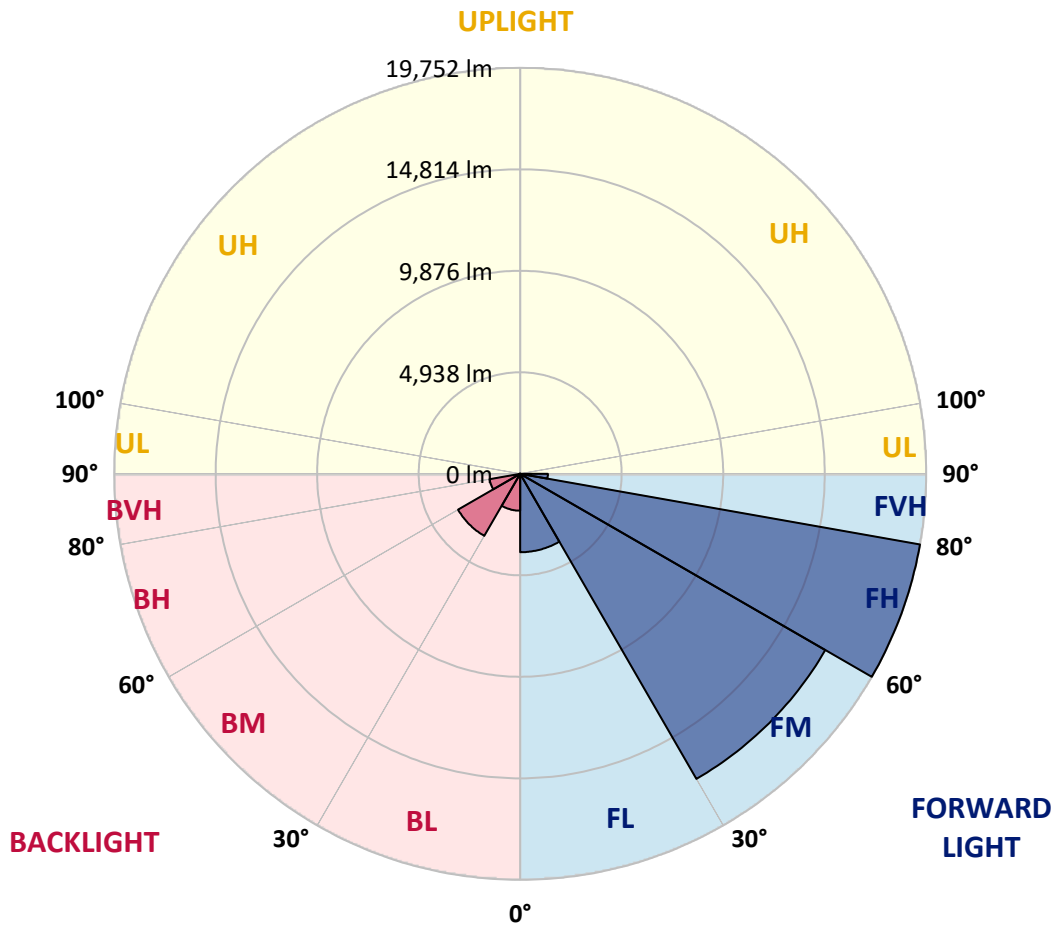
CATALOG NUMBER: GALN-SB8C-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3813.8	7.8			
FM (30°-60°)	17137.9	35.0			
FH (60°-80°)	19752.2	40.4			G5
FVH (80°-90°)	1345.5	2.8			G5
BL (0°-30°)	1794.9	3.7	B3/2500		
BM (30°-60°)	3487.0	7.1	B3/5000		
BH (60°-80°)	1512.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	53.8	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°	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7
2.5°	7649.8	7518.5	7441.0	7249.0	7057.0	6902.0	6693.2	6555.1	6390.0	6231.7
5°	8525.7	8313.4	8057.4	7707.1	7387.1	7060.4	6743.7	6430.5	6100.3	5797.2
7.5°	9266.7	8960.2	8508.8	8044.0	7636.4	7242.3	6871.7	6457.4	6056.5	5581.6
10°	9832.6	9441.9	8849.0	8239.3	7771.1	7373.6	7013.2	6662.9	6258.7	5686.0
12.5°	10176.2	9758.5	9054.5	8340.4	7804.8	7360.2	7080.6	6925.6	6767.3	6198.0
15°	10428.9	9977.5	9199.4	8411.1	7727.3	7181.6	6976.1	7131.1	7313.0	6949.2
17.5°	10691.6	10216.6	9388.0	8441.4	7518.5	6834.7	6747.1	7147.9	7569.0	7552.2
20°	10940.9	10469.3	9553.0	8421.2	7181.6	6413.6	6491.1	7003.1	7491.5	7697.0
22.5°	11227.2	10728.6	9711.4	8343.8	6743.7	6019.5	6262.0	6774.0	7201.8	7444.4
25°	11577.5	11055.4	9933.7	8229.2	6272.1	5692.8	6029.6	6507.9	6854.9	7023.3
27.5°	11954.8	11446.1	10230.1	8168.6	5891.5	5460.3	5766.9	6191.3	6501.2	6619.1
30°	12423.0	11900.9	10580.4	8101.2	5642.2	5325.6	5494.0	5824.1	6127.3	6245.2
32.5°	12935.0	12406.2	10917.3	7939.5	5490.6	5224.5	5227.9	5436.7	5713.0	5854.4
35°	13575.0	13012.5	11277.7	7585.8	5369.4	5106.6	4968.5	5069.6	5298.6	5467.1
37.5°	14487.9	13807.5	11719.0	7080.6	5190.8	4924.7	4695.7	4719.3	4894.4	5079.7
40°	15747.7	14875.3	12237.7	6555.1	4934.8	4668.7	4395.9	4385.8	4513.8	4695.7
42.5°	17452.2	16286.7	12860.9	6053.2	4688.9	4358.8	4079.2	4062.4	4163.5	4321.8
45°	19702.3	18092.2	13625.6	5622.0	4496.9	4055.7	3779.4	3772.7	3856.9	3995.0
47.5°	22582.4	20601.7	14390.2	5329.0	4395.9	3816.5	3533.5	3547.0	3621.1	3745.8
50°	26311.3	23872.5	14622.6	5180.7	4395.9	3688.5	3314.6	3382.0	3442.6	3536.9
52.5°	30781.3	27011.9	13854.6	5046.0	4422.8	3705.3	3129.3	3274.2	3318.0	3398.8
55°	34924.5	28551.3	11911.0	4860.7	4429.6	3809.8	2971.0	3186.6	3267.4	3297.8
57.5°	37329.6	28022.5	9630.5	4547.5	4402.6	3880.5	2870.0	3078.8	3233.8	3254.0
60°	36871.5	26166.4	7090.7	4308.3	4203.9	3853.6	2839.6	2913.7	3159.6	3190.0
62.5°	33341.3	23054.0	4921.4	4123.0	3766.0	3735.7	2829.5	2654.4	2998.0	3072.1
65°	26799.7	18149.4	3476.3	3550.4	3301.1	3479.7	2775.6	2384.9	2802.6	2903.6
67.5°	19442.9	12281.5	2509.5	2876.7	2991.2	3065.3	2654.4	2189.5	2580.3	2715.0
70°	12476.9	6632.6	1761.7	1899.8	2519.6	2603.8	2445.5	2014.4	2354.6	2509.5
72.5°	8869.2	3917.6	1266.6	1330.6	2024.5	2169.3	2152.5	1819.0	2091.8	2280.5
75°	6120.6	2159.2	855.6	949.9	1468.7	1761.7	1660.7	1563.0	1771.8	1963.8
77.5°	3836.7	966.8	512.0	660.2	963.4	1384.5	1138.6	1209.3	1381.1	1559.6
80°	2135.6	373.9	286.3	437.9	525.5	1007.2	629.9	778.1	1017.3	1145.3
82.5°	464.9	47.2	128.0	188.6	205.5	586.1	333.5	451.4	640.0	629.9
85°	0.0	0.0	23.6	26.9	13.5	252.6	121.3	148.2	208.8	195.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
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°
6770.7	0°	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7
6090.2	2.5°	6063.3	5898.2	5777.0	5716.3	5665.8	5713.0	5739.9	5739.9	5854.4	5921.8
5611.9	5°	5494.0	5197.6	4971.9	4820.3	4729.4	4759.7	4793.4	4830.4	4975.3	5072.9
5329.0	7.5°	5099.9	4645.2	4301.6	4089.3	3978.2	3995.0	4018.6	4048.9	4190.4	4288.1
5369.4	10°	5025.8	4372.3	3887.2	3607.7	3472.9	3449.3	3435.9	3425.8	3510.0	3584.1
5827.5	12.5°	5329.0	4385.8	3708.7	3368.5	3203.4	3132.7	3051.9	2987.9	3001.3	3048.5
6521.4	15°	5871.3	4557.6	3651.4	3243.9	3038.4	2920.5	2826.2	2748.7	2731.8	2748.7
7127.7	17.5°	6491.1	4790.0	3644.7	3136.1	2880.1	2758.8	2681.3	2610.6	2587.0	2590.4
7467.9	20°	6902.0	4975.3	3624.5	3014.8	2728.5	2620.7	2553.3	2482.6	2459.0	2465.7
7373.6	22.5°	6942.5	5072.9	3594.2	2880.1	2576.9	2485.9	2418.6	2354.6	2351.2	2351.2
7019.9	25°	6723.5	5072.9	3530.2	2758.8	2432.1	2351.2	2290.6	2213.1	2226.6	2233.3
6619.1	27.5°	6383.3	4951.7	3408.9	2661.1	2307.4	2223.2	2162.6	2091.8	2108.7	2118.8
6245.2	30°	6046.4	4796.7	3264.1	2549.9	2189.5	2091.8	2048.0	1987.4	1994.1	2007.6
5874.7	32.5°	5733.2	4631.7	3092.3	2459.0	2071.6	1973.9	1940.3	1872.9	1883.0	1896.5
5510.9	35°	5423.3	4449.8	2890.2	2351.2	1963.8	1866.1	1839.2	1761.7	1768.5	1788.7
5147.1	37.5°	5089.8	4257.8	2725.1	2243.4	1859.4	1758.4	1731.4	1650.6	1657.3	1680.9
4769.8	40°	4739.5	4069.1	2563.4	2128.9	1748.2	1647.2	1623.6	1536.0	1542.8	1569.7
4399.3	42.5°	4385.8	3863.7	2438.8	1980.7	1633.7	1525.9	1502.3	1421.5	1431.6	1461.9
4075.9	45°	4059.0	3617.8	2357.9	1815.6	1525.9	1404.7	1381.1	1307.0	1327.2	1360.9
3803.0	47.5°	3779.4	3365.1	2324.3	1677.5	1411.4	1280.0	1259.8	1199.2	1232.9	1269.9
3570.6	50°	3540.3	3122.6	2280.5	1536.0	1303.6	1172.2	1152.0	1111.6	1155.4	1192.4
3412.3	52.5°	3368.5	2846.4	2186.2	1408.0	1209.3	1081.3	1074.5	1054.3	1094.8	1128.4
3294.4	55°	3220.3	2560.1	2034.6	1296.9	1125.1	1003.8	1010.5	1000.4	1034.1	1061.1
3223.6	57.5°	3085.5	2310.8	1842.6	1209.3	1034.1	936.4	956.7	943.2	960.0	976.9
3149.5	60°	2923.9	2058.1	1613.5	1111.6	926.3	869.1	892.7	855.6	852.2	859.0
3014.8	62.5°	2684.7	1717.9	1374.3	990.3	832.0	795.0	805.1	734.3	680.4	680.4
2816.1	65°	2351.2	1381.1	1152.0	855.6	724.2	693.9	687.2	586.1	512.0	505.3
2600.5	67.5°	1963.8	1135.2	956.7	720.9	603.0	582.7	589.5	515.4	441.3	434.5
2384.9	70°	1600.0	939.8	771.4	576.0	464.9	485.1	515.4	441.3	370.5	360.4
2132.3	72.5°	1300.2	747.8	603.0	441.3	343.6	400.9	437.9	360.4	293.1	286.3
1819.0	75°	1003.8	549.1	431.2	299.8	249.3	309.9	343.6	262.7	208.8	198.7
1408.0	77.5°	670.3	340.2	242.5	188.6	148.2	212.2	229.1	138.1	121.3	117.9
1024.0	80°	407.6	158.3	104.4	90.9	50.5	77.5	90.9	57.3	64.0	67.4
545.7	82.5°	205.5	43.8	16.8	3.4	0.0	0.0	26.9	13.5	26.9	33.7
148.2	85°	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°
6770.7	0°	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7
5948.8	2.5°	6137.4	6278.9	6413.6	6629.2	6851.5	7070.5	7292.8	7508.4	7585.8	7643.1
5137.0	5°	5430.0	5696.1	6006.0	6433.8	6891.9	7363.5	7841.9	8279.8	8478.5	8613.2
4372.3	7.5°	4699.0	5046.0	5490.6	6134.0	6851.5	7602.7	8353.9	9044.4	9364.4	9623.8
3651.4	10°	3974.8	4352.1	4914.6	5649.0	6619.1	7697.0	8734.5	9684.4	10098.7	10425.5
3132.7	12.5°	3338.2	3691.9	4281.4	5093.2	6255.3	7622.9	8953.5	10095.4	10583.8	10951.0
2762.2	15°	2890.2	3139.4	3661.6	4537.4	5824.1	7383.7	8966.9	10290.7	10826.3	11210.3
2607.2	17.5°	2640.9	2725.1	3065.3	3971.5	5345.8	7070.5	8842.3	10358.1	10930.8	11287.8
2469.1	20°	2506.2	2519.6	2614.0	3237.1	4732.7	6777.4	8724.4	10425.5	11028.4	11328.2
2371.4	22.5°	2398.4	2398.4	2421.9	2647.6	3941.1	6427.1	8687.3	10543.4	11163.2	11348.5
2260.3	25°	2300.7	2300.7	2307.4	2368.1	3122.6	5891.5	8663.8	10725.3	11348.5	11399.0
2149.1	27.5°	2199.6	2203.0	2203.0	2236.7	2516.3	5163.9	8562.7	10961.1	11570.8	11466.3
2041.3	30°	2098.6	2105.3	2105.3	2128.9	2226.6	4311.7	8364.0	11244.0	11860.5	11553.9
1933.5	32.5°	1997.5	2004.3	2004.3	2024.5	2095.2	3442.6	8114.7	11503.4	12153.5	11591.0
1829.1	35°	1893.1	1903.2	1896.5	1923.4	1997.5	2738.6	7798.1	11762.8	12470.2	11708.9
1728.0	37.5°	1788.7	1795.4	1792.0	1819.0	1903.2	2364.7	7430.9	11958.1	12901.3	11971.6
1620.2	40°	1684.2	1680.9	1680.9	1711.2	1802.1	2256.9	6969.4	12268.0	13521.1	12433.1
1512.5	42.5°	1576.5	1576.5	1569.7	1603.4	1714.6	2176.0	6528.1	12823.9	14423.9	13167.4
1411.4	45°	1478.8	1475.4	1461.9	1492.2	1630.4	2034.6	6373.2	13861.3	15757.8	14356.5
1310.3	47.5°	1384.5	1381.1	1347.4	1374.3	1529.3	1906.6	6952.6	15559.1	17607.1	16104.8
1229.5	50°	1300.2	1303.6	1239.6	1263.2	1428.2	1808.9	8209.0	17762.1	20062.7	18459.3
1162.1	52.5°	1222.8	1222.8	1138.6	1152.0	1303.6	1721.3	9404.8	20150.3	23303.2	21743.6
1091.4	55°	1145.3	1138.6	1044.2	1051.0	1179.0	1596.7	9583.4	22481.3	27722.7	26685.2
1013.9	57.5°	1057.7	1044.2	956.7	956.7	1064.4	1505.7	8306.7	24273.4	33206.6	33947.7
869.1	60°	949.9	939.8	882.5	865.7	973.5	1586.6	5861.2	24482.2	36743.5	43605.1
690.5	62.5°	811.8	825.3	795.0	771.4	885.9	1647.2	3472.9	22801.3	35887.9	46677.2
535.6	65°	640.0	693.9	687.2	670.3	973.5	1387.8	2051.4	19574.3	33263.9	44198.0
468.2	67.5°	545.7	582.7	572.6	572.6	1020.7	1054.3	1290.1	15293.0	29652.8	41257.3
390.7	70°	464.9	501.9	464.9	464.9	771.4	640.0	892.7	10678.1	25755.5	38003.3
313.3	72.5°	384.0	421.1	380.6	353.7	616.4	478.3	653.5	6673.0	22056.9	34614.6
222.3	75°	293.1	336.8	306.5	272.8	407.6	357.1	495.2	3877.1	18274.1	29615.8
134.7	77.5°	185.3	242.5	229.1	192.0	299.8	259.4	357.1	2307.4	14100.5	23141.5
80.8	80°	114.5	124.6	128.0	121.3	171.8	175.2	242.5	1313.7	9650.7	16128.3
50.5	82.5°	74.1	74.1	57.3	64.0	84.2	101.1	138.1	495.2	5672.5	9819.2
30.3	85°	53.9	47.2	30.3	30.3	40.4	50.5	53.9	151.6	2300.7	3877.1
13.5	87.5°	26.9	23.6	10.1	13.5	20.2	16.8	13.5	6.7	579.4	1239.6
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°
6770.7	0°	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7	6770.7
7771.1	2.5°	7838.5	7942.9	7949.6	7949.6	7858.7	7855.3	7670.1	7649.8
8916.4	5°	9229.7	9297.0	9313.9	9280.2	9098.3	8963.6	8603.1	8525.7
10085.3	7.5°	10503.0	10637.7	10637.7	10556.9	10260.4	9984.2	9462.1	9266.7
11052.0	10°	11520.2	11675.2	11641.5	11476.5	11102.6	10721.9	10088.6	9832.6
11638.1	12.5°	12015.4	12173.7	12086.2	11897.5	11533.7	11132.9	10465.9	10176.2
11806.6	15°	12005.3	11961.5	11870.6	11847.0	11671.8	11368.7	10745.5	10428.9
11702.1	17.5°	11577.5	11207.0	11136.2	11372.0	11594.4	11520.2	10988.0	10691.6
11452.9	20°	10900.4	10253.7	10189.7	10641.1	11274.3	11597.7	11213.7	10940.9
11092.4	22.5°	10186.3	9489.0	9340.8	9839.4	10792.6	11621.3	11500.0	11227.2
10695.0	25°	9509.3	8808.6	8660.4	9125.2	10257.1	11580.9	11809.9	11577.5
10314.3	27.5°	8943.3	8266.3	8128.2	8593.0	9741.7	11466.3	12119.8	11954.8
9937.1	30°	8505.4	7878.9	7777.8	8225.9	9297.0	11324.9	12513.9	12423.0
9586.7	32.5°	8249.4	7791.3	7828.4	8195.5	9057.9	11169.9	12891.2	12935.0
9414.9	35°	8502.1	8522.3	8845.7	8997.2	9280.2	11146.3	13403.2	13575.0
9620.4	37.5°	9758.5	10459.2	11129.5	11004.9	10368.2	11419.2	14167.9	14487.9
10516.4	40°	11897.5	13335.9	14423.9	13948.9	12345.5	12254.6	15269.4	15747.7
12106.4	42.5°	14511.5	16950.3	18742.3	17469.0	14895.5	13716.5	16842.5	17452.2
14029.8	45°	17270.3	21406.8	24229.6	21581.9	17613.8	15764.5	19224.0	19702.3
15831.9	47.5°	20177.3	26823.3	30474.8	26142.9	20133.5	18095.5	22471.2	22582.4
17539.7	50°	23357.1	32762.0	36841.2	30700.4	22565.5	20766.8	26439.3	26311.3
19530.5	52.5°	26385.4	38869.0	43072.9	35278.2	24701.2	24081.4	31044.0	30781.3
22252.3	55°	29275.6	44972.7	49341.7	39677.5	26715.5	28460.4	36514.5	34924.5
26176.6	57.5°	32627.2	50460.0	55802.4	44096.9	29531.6	34146.4	42631.6	37329.6
33691.7	60°	37582.3	56695.1	63108.7	50153.5	34887.5	40122.1	44824.5	36871.5
42692.3	62.5°	43908.3	62428.3	68420.8	56088.8	40267.0	41247.2	41594.1	33341.3
40856.4	65°	45137.8	63880.1	68720.6	57675.3	39573.0	34988.5	33957.8	26799.7
36494.2	67.5°	41877.1	61256.0	64530.2	54721.2	35005.4	27038.9	25482.6	19442.9
33631.0	70°	38218.9	56253.8	57227.3	49698.7	30788.0	19887.6	17209.6	12476.9
31670.6	72.5°	34469.8	49580.8	47566.5	43160.5	27059.1	14481.1	12412.9	8869.2
28878.1	75°	30016.6	40805.9	37467.7	35861.0	22403.8	11365.3	8980.4	6120.6
24839.3	77.5°	24037.6	28723.1	27830.5	27796.8	16835.7	8303.3	5992.5	3836.7
19405.9	80°	16957.0	18641.2	18186.5	20935.2	11294.6	6022.9	3607.7	2135.6
13507.7	82.5°	8209.0	10307.6	10580.4	12466.8	5494.0	3543.7	832.0	464.9
5281.8	85°	3213.5	4971.9	4193.8	4732.7	1542.8	987.0	20.2	0.0
869.1	87.5°	360.4	576.0	528.9	417.7	188.6	40.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)