

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: P954205

Luminaire Tested: **GALN-SB7C-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954205
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-SB7C-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 43004 lumens
Efficiency: N/A
Efficacy: 122.7 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

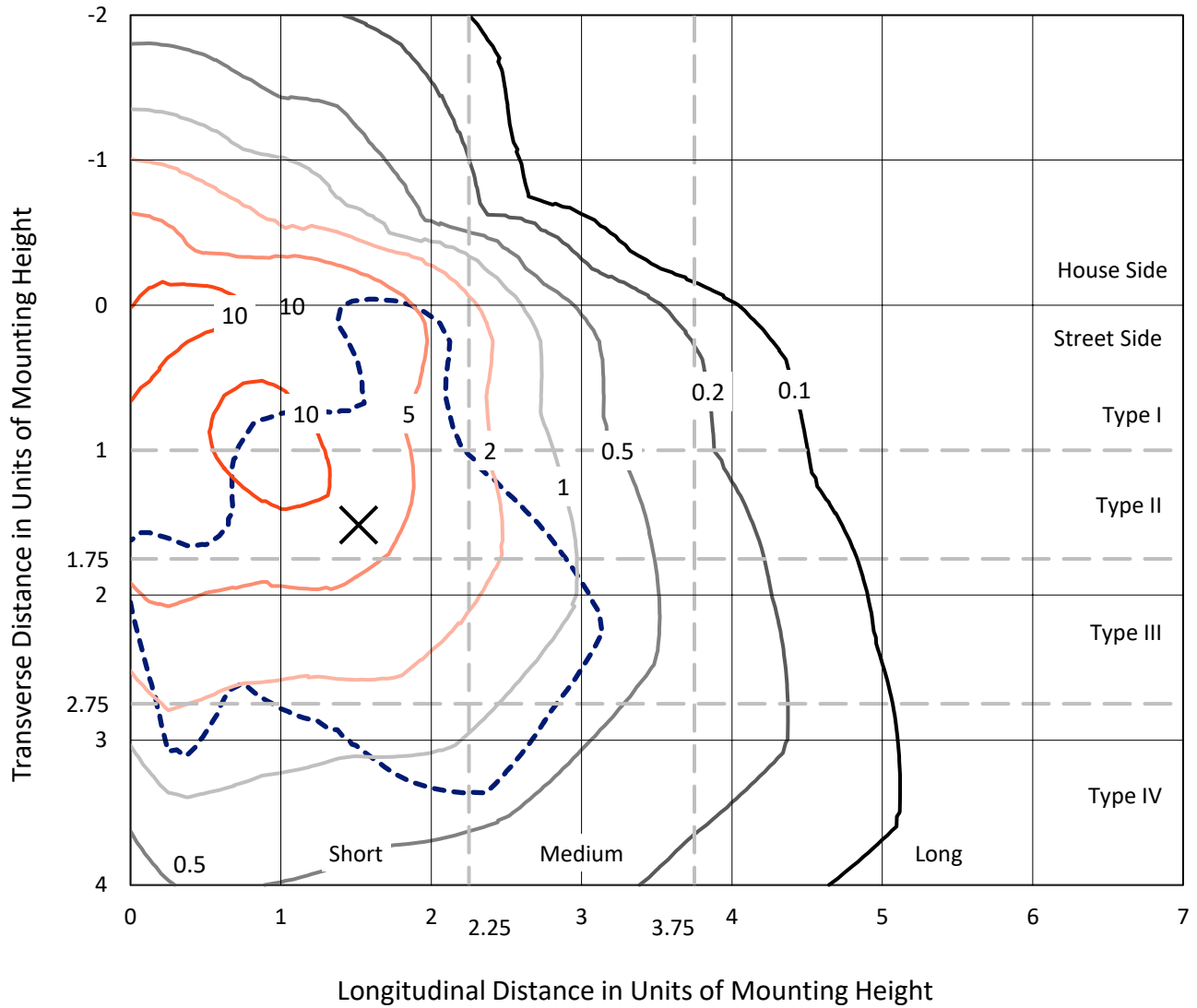
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

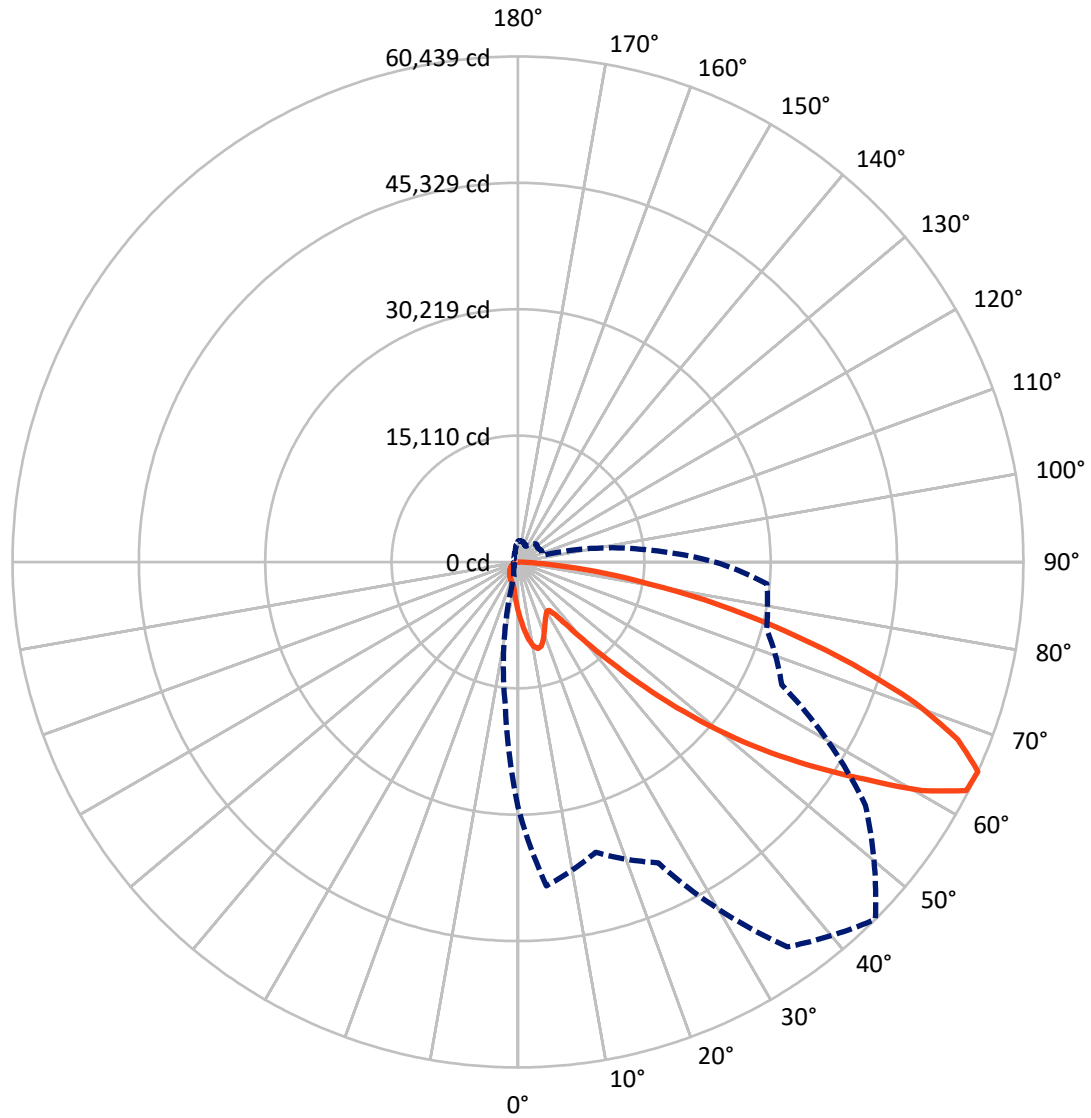
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	8547.9	0.0	8547.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	34456.1	0.0	34456.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	43004.0	0.0	43004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.3	1.4
10°-20°	1757.4	4.1
20°-30°	2589.1	6.0
30°-40°	3326.2	7.7
40°-50°	5379.5	12.5
50°-60°	9433.5	21.9
60°-70°	11803.8	27.4
70°-80°	6897.6	16.0
80°-90°	1230.6	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°	43004.0	100.0
0°-180°	43004.0	100.0

Coefficient of Utilization



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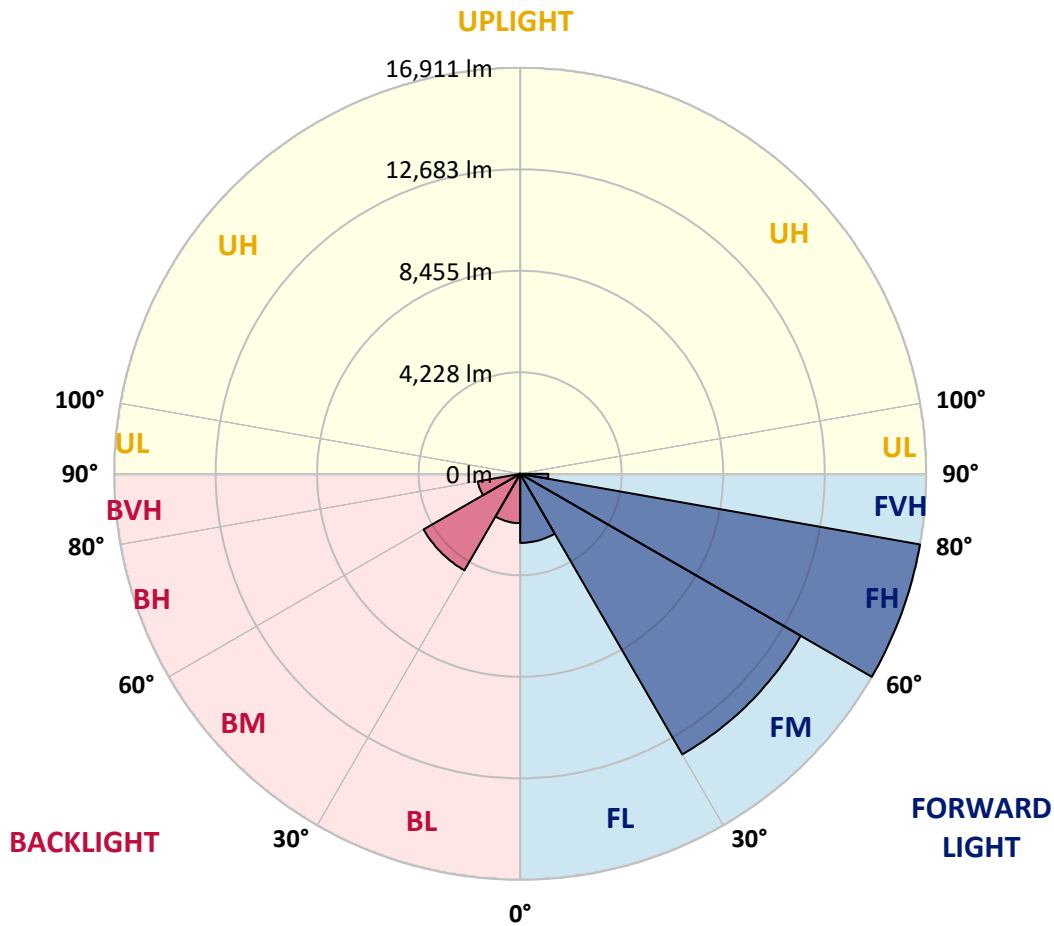
CATALOG NUMBER: GALN-SB7C-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.5	6.7			
FM (30°-60°)	13495.2	31.4			
FH (60°-80°)	16910.5	39.3			G5
FVH (80°-90°)	1173.0	2.7			G5
BL (0°-30°)	2055.3	4.8	B3/2500		
BM (30°-60°)	4644.0	10.8	B3/5000		
BH (60°-80°)	1790.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	57.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7
2.5°	6671.6	6722.0	6834.5	6893.8	6985.6	6991.6	6991.6	6911.6	6908.6	6745.7
5°	7456.7	7575.2	7841.8	8117.3	8176.6	8191.4	8161.8	8001.8	7883.3	7566.3
7.5°	8235.8	8463.9	8869.8	9237.2	9355.7	9355.7	9284.6	9023.9	8780.9	8321.7
10°	8881.7	9169.0	9720.0	10131.8	10268.1	10238.5	10093.3	9764.5	9429.7	8872.8
12.5°	9308.3	9631.2	10235.5	10567.3	10706.6	10629.5	10463.6	10143.7	9791.1	9204.6
15°	9521.6	9859.3	10383.7	10558.4	10519.9	10439.9	10419.2	10265.2	9998.5	9450.5
17.5°	9613.4	9927.4	10291.8	10182.2	9856.3	9794.1	10001.5	10197.0	10131.8	9663.8
20°	9699.3	9963.0	10072.6	9586.7	9017.9	8961.6	9358.6	9915.6	10200.0	9862.3
22.5°	9817.8	9980.8	9755.6	8958.7	8345.4	8215.1	8653.5	9491.9	10220.7	10114.1
25°	9980.8	10025.2	9406.0	8363.2	7747.0	7616.7	8025.5	9020.9	10185.2	10386.6
27.5°	10176.3	10084.4	9071.3	7865.5	7270.0	7148.6	7557.4	8567.6	10084.4	10659.2
30°	10431.1	10161.5	8739.5	7480.4	6929.3	6840.5	7234.5	8176.6	9960.0	11005.8
32.5°	10688.8	10194.1	8431.4	7255.2	6852.3	6884.9	7207.8	7966.2	9823.7	11337.6
35°	10967.3	10297.7	8280.3	7477.4	7495.2	7779.6	7912.9	8161.8	9803.0	11787.9
37.5°	11346.5	10528.8	8461.0	8582.4	9198.6	9788.2	9678.6	9118.7	10043.0	12460.4
40°	11891.6	10934.7	9249.0	10463.6	11728.6	12685.5	12267.8	10857.7	10777.7	13429.1
42.5°	12685.5	11580.5	10647.3	12762.6	14907.4	16483.5	15363.7	13100.3	12063.4	14812.6
45°	13858.7	12626.3	12338.9	15188.9	18826.9	21309.5	18980.9	15491.1	13864.6	16907.1
47.5°	15485.1	14163.8	13923.9	17745.5	23590.6	26802.0	22992.2	17707.0	15914.7	19763.0
50°	17644.8	16234.6	15425.9	20542.2	28813.5	32401.2	27000.5	19846.0	18264.0	23252.9
52.5°	20494.8	19123.1	17176.7	23205.5	34184.6	37881.8	31026.5	21724.2	21179.1	27302.6
55°	24381.6	23469.1	19570.4	25747.3	39552.7	43395.1	34895.6	23495.8	25030.4	32113.8
57.5°	29204.6	29856.3	23021.8	28695.0	44378.6	49077.2	38782.4	25972.5	30031.1	37493.7
60°	32315.2	38349.9	29631.2	33052.9	49862.3	55502.9	44109.1	30682.9	35286.7	39422.3
62.5°	31562.8	41051.7	37547.1	38616.5	54904.5	60174.8	49329.0	35414.0	36276.1	36581.3
65°	29254.9	38871.3	35932.5	39697.9	56181.3	60438.5	50724.4	34803.8	30771.8	29865.2
67.5°	26079.1	36285.0	32096.0	36830.1	53873.5	56753.1	48126.2	30786.6	23780.2	22411.5
70°	22651.5	33423.2	29577.9	33612.8	49474.2	50330.4	43709.1	27077.5	17490.8	15135.5
72.5°	19398.6	30442.9	27853.7	30315.5	43605.4	41833.8	37958.9	23798.0	12735.9	10916.9
75°	16071.7	26046.5	25397.7	26399.1	35888.0	32952.2	31539.1	19703.8	9995.6	7898.1
77.5°	12401.1	20352.6	21845.7	21140.6	25261.5	24476.4	24446.8	14806.7	7302.6	5270.3
80°	8487.6	14184.6	17067.1	14913.4	16394.6	15994.7	18412.1	9933.4	5297.0	3172.9
82.5°	4988.9	8635.8	11879.7	7219.7	9065.3	9305.3	10964.3	4831.9	3116.6	731.7
85°	2023.4	3409.9	4645.2	2826.3	4372.7	3688.3	4162.3	1356.8	868.0	17.8
87.5°	509.6	1090.2	764.3	317.0	506.6	465.1	367.4	165.9	35.6	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5954.7	0°	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7
6727.9	2.5°	6612.4	6544.2	6375.4	6206.5	6070.2	5886.5	5765.1	5619.9	5480.7	5356.2
7498.2	5°	7311.5	7086.4	6778.3	6496.8	6209.5	5931.0	5655.5	5365.1	5098.5	4935.6
8149.9	7.5°	7880.3	7483.3	7074.5	6716.0	6369.4	6043.6	5679.2	5326.6	4908.9	4686.7
8647.6	10°	8304.0	7782.6	7246.3	6834.5	6485.0	6168.0	5859.9	5504.4	5000.7	4722.3
8949.8	12.5°	8582.4	7963.3	7335.2	6864.2	6473.1	6227.2	6091.0	5951.7	5451.0	5125.2
9172.0	15°	8775.0	8090.7	7397.4	6796.0	6316.1	6135.4	6271.7	6431.6	6111.7	5735.5
9403.1	17.5°	8985.3	8256.6	7424.1	6612.4	6011.0	5933.9	6286.5	6656.8	6642.0	6268.7
9622.3	20°	9207.5	8401.7	7406.3	6316.1	5640.7	5708.8	6159.1	6588.7	6769.4	6567.9
9874.1	22.5°	9435.6	8541.0	7338.2	5931.0	5294.0	5507.3	5957.6	6333.9	6547.2	6485.0
10182.2	25°	9723.0	8736.5	7237.5	5516.2	5006.7	5302.9	5723.6	6028.7	6176.9	6173.9
10514.0	27.5°	10066.7	8997.2	7184.1	5181.5	4802.3	5071.8	5445.1	5717.7	5821.4	5821.4
10925.8	30°	10466.6	9305.3	7124.9	4962.2	4683.8	4831.9	5122.2	5388.8	5492.5	5492.5
11376.1	32.5°	10911.0	9601.5	6982.7	4828.9	4594.9	4597.8	4781.5	5024.4	5148.9	5166.6
11939.0	35°	11444.2	9918.5	6671.6	4722.3	4491.2	4369.7	4458.6	4660.1	4808.2	4846.7
12741.8	37.5°	12143.4	10306.6	6227.2	4565.3	4331.2	4129.8	4150.5	4304.6	4467.5	4526.7
13849.8	40°	13082.5	10762.9	5765.1	4340.1	4106.1	3866.1	3857.2	3969.8	4129.8	4194.9
15348.8	42.5°	14323.8	11310.9	5323.7	4123.8	3833.5	3587.6	3572.8	3661.7	3800.9	3869.1
17327.8	45°	15911.7	11983.4	4944.5	3955.0	3566.9	3324.0	3318.0	3392.1	3513.6	3584.7
19860.8	47.5°	18118.8	12655.9	4686.7	3866.1	3356.5	3107.7	3119.5	3184.7	3294.3	3344.7
23140.3	50°	20995.4	12860.3	4556.4	3866.1	3244.0	2915.1	2974.4	3027.7	3110.7	3140.3
27071.6	52.5°	23756.5	12184.9	4437.9	3889.8	3258.8	2752.2	2879.6	2918.1	2989.2	3001.0
30715.5	55°	25110.4	10475.5	4274.9	3895.7	3350.6	2612.9	2802.5	2873.7	2900.3	2897.4
32830.7	57.5°	24645.3	8469.9	3999.4	3872.0	3412.8	2524.1	2707.7	2844.0	2861.8	2835.1
32427.8	60°	23012.9	6236.1	3789.1	3697.2	3389.1	2497.4	2562.6	2778.8	2805.5	2770.0
29323.1	62.5°	20275.5	4328.3	3626.1	3312.1	3285.4	2488.5	2334.5	2636.6	2701.8	2651.5
23569.9	65°	15962.1	3057.3	3122.5	2903.3	3060.3	2441.1	2097.5	2464.8	2553.7	2476.7
17099.7	67.5°	10801.4	2207.1	2530.0	2630.7	2695.9	2334.5	1925.6	2269.3	2387.8	2287.1
10973.2	70°	5833.2	1549.4	1670.9	2216.0	2290.0	2150.8	1771.6	2070.8	2207.1	2097.5
7800.3	72.5°	3445.4	1113.9	1170.2	1780.5	1907.9	1893.1	1599.8	1839.7	2005.6	1875.3
5382.9	75°	1899.0	752.5	835.4	1291.7	1549.4	1460.5	1374.6	1558.3	1727.2	1599.8
3374.3	77.5°	850.2	450.3	580.7	847.3	1217.6	1001.3	1063.5	1214.6	1371.6	1238.3
1878.2	80°	328.8	251.8	385.1	462.2	885.8	554.0	684.3	894.7	1007.3	900.6
408.8	82.5°	41.5	112.6	165.9	180.7	515.5	293.3	397.0	562.9	554.0	479.9
0.0	85°	0.0	20.7	23.7	11.9	222.2	106.7	130.4	183.7	171.8	130.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	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°
5954.7	0°	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7
5332.5	2.5°	5187.4	5080.7	5027.4	4983.0	5024.4	5048.1	5048.1	5148.9	5208.1	5231.8
4831.9	5°	4571.2	4372.7	4239.4	4159.4	4186.0	4215.7	4248.3	4375.7	4461.6	4517.9
4485.3	7.5°	4085.3	3783.1	3596.5	3498.7	3513.6	3534.3	3561.0	3685.4	3771.3	3845.4
4420.1	10°	3845.4	3418.8	3172.9	3054.4	3033.6	3021.8	3012.9	3087.0	3152.1	3211.4
4686.7	12.5°	3857.2	3261.7	2962.5	2817.4	2755.1	2684.0	2627.8	2639.6	2681.1	2755.1
5163.7	15°	4008.3	3211.4	2852.9	2672.2	2568.5	2485.6	2417.4	2402.6	2417.4	2429.3
5708.8	17.5°	4212.7	3205.5	2758.1	2533.0	2426.3	2358.2	2296.0	2275.2	2278.2	2293.0
6070.2	20°	4375.7	3187.7	2651.5	2399.6	2304.8	2245.6	2183.4	2162.6	2168.6	2171.5
6105.8	22.5°	4461.6	3161.0	2533.0	2266.3	2186.3	2127.1	2070.8	2067.8	2067.8	2085.6
5913.2	25°	4461.6	3104.7	2426.3	2138.9	2067.8	2014.5	1946.4	1958.2	1964.2	1987.9
5614.0	27.5°	4354.9	2998.1	2340.4	2029.3	1955.3	1901.9	1839.7	1854.5	1863.4	1890.1
5317.7	30°	4218.6	2870.7	2242.6	1925.6	1839.7	1801.2	1747.9	1753.8	1765.7	1795.3
5042.2	32.5°	4073.5	2719.6	2162.6	1822.0	1736.0	1706.4	1647.2	1656.1	1667.9	1700.5
4769.7	35°	3913.5	2541.8	2067.8	1727.2	1641.2	1617.5	1549.4	1555.3	1573.1	1608.7
4476.4	37.5°	3744.6	2396.7	1973.0	1635.3	1546.4	1522.7	1451.6	1457.6	1478.3	1519.8
4168.3	40°	3578.7	2254.5	1872.3	1537.6	1448.7	1427.9	1350.9	1356.8	1380.5	1425.0
3857.2	42.5°	3398.0	2144.9	1742.0	1436.8	1342.0	1321.3	1250.2	1259.1	1285.7	1330.2
3569.8	45°	3181.8	2073.8	1596.8	1342.0	1235.4	1214.6	1149.5	1167.2	1196.9	1241.3
3324.0	47.5°	2959.6	2044.1	1475.3	1241.3	1125.8	1108.0	1054.7	1084.3	1116.9	1152.4
3113.6	50°	2746.3	2005.6	1350.9	1146.5	1031.0	1013.2	977.6	1016.1	1048.7	1081.3
2962.5	52.5°	2503.3	1922.7	1238.3	1063.5	951.0	945.0	927.3	962.8	992.4	1022.1
2832.2	55°	2251.5	1789.4	1140.6	989.5	882.8	888.8	879.9	909.5	933.2	959.9
2713.7	57.5°	2032.3	1620.5	1063.5	909.5	823.6	841.4	829.5	844.3	859.1	891.7
2571.5	60°	1810.1	1419.1	977.6	814.7	764.3	785.1	752.5	749.5	755.4	764.3
2361.1	62.5°	1510.9	1208.7	871.0	731.7	699.2	708.0	645.8	598.4	598.4	607.3
2067.8	65°	1214.6	1013.2	752.5	636.9	610.3	604.4	515.5	450.3	444.4	471.0
1727.2	67.5°	998.4	841.4	634.0	530.3	512.5	518.4	453.3	388.1	382.2	411.8
1407.2	70°	826.5	678.4	506.6	408.8	426.6	453.3	388.1	325.9	317.0	343.7
1143.5	72.5°	657.7	530.3	388.1	302.2	352.5	385.1	317.0	257.7	251.8	275.5
882.8	75°	482.9	379.2	263.7	219.2	272.6	302.2	231.1	183.7	174.8	195.5
589.5	77.5°	299.2	213.3	165.9	130.4	186.6	201.5	121.5	106.7	103.7	118.5
358.5	80°	139.2	91.8	80.0	44.4	68.1	80.0	50.4	56.3	59.3	71.1
180.7	82.5°	38.5	14.8	3.0	0.0	0.0	23.7	11.9	23.7	29.6	44.4
14.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.8	26.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
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°
5954.7	0°	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7	5954.7
5397.7	2.5°	5522.1	5640.7	5830.3	6025.8	6218.3	6413.9	6603.5	6671.6
4775.6	5°	5009.6	5282.2	5658.4	6061.3	6476.1	6896.8	7281.9	7456.7
4132.7	7.5°	4437.9	4828.9	5394.8	6025.8	6686.4	7347.1	7954.4	8235.8
3495.8	10°	3827.6	4322.3	4968.2	5821.4	6769.4	7681.8	8517.3	8881.7
2935.9	12.5°	3246.9	3765.4	4479.3	5501.4	6704.2	7874.4	8878.7	9308.3
2541.8	15°	2761.1	3220.3	3990.5	5122.2	6493.9	7886.2	9050.5	9521.6
2322.6	17.5°	2396.7	2695.9	3492.8	4701.5	6218.3	7776.6	9109.8	9613.4
2204.1	20°	2216.0	2298.9	2847.0	4162.3	5960.6	7672.9	9169.0	9699.3
2109.3	22.5°	2109.3	2130.1	2328.5	3466.2	5652.5	7640.4	9272.7	9817.8
2023.4	25°	2023.4	2029.3	2082.7	2746.3	5181.5	7619.6	9432.7	9980.8
1934.5	27.5°	1937.5	1937.5	1967.1	2213.0	4541.6	7530.7	9640.1	10176.3
1845.7	30°	1851.6	1851.6	1872.3	1958.2	3792.0	7356.0	9888.9	10431.1
1756.8	32.5°	1762.7	1762.7	1780.5	1842.7	3027.7	7136.7	10117.0	10688.8
1664.9	35°	1673.8	1667.9	1691.6	1756.8	2408.5	6858.2	10345.1	10967.3
1573.1	37.5°	1579.0	1576.1	1599.8	1673.8	2079.7	6535.3	10517.0	11346.5
1481.3	40°	1478.3	1478.3	1505.0	1585.0	1984.9	6129.5	10789.5	11891.6
1386.5	42.5°	1386.5	1380.5	1410.2	1507.9	1913.8	5741.4	11278.3	12685.5
1300.5	45°	1297.6	1285.7	1312.4	1433.9	1789.4	5605.1	12190.8	13858.7
1217.6	47.5°	1214.6	1185.0	1208.7	1345.0	1676.8	6114.7	13683.9	15485.1
1143.5	50°	1146.5	1090.2	1110.9	1256.1	1590.9	7219.7	15621.4	17644.8
1075.4	52.5°	1075.4	1001.3	1013.2	1146.5	1513.9	8271.4	17721.8	20494.8
1007.3	55°	1001.3	918.4	924.3	1036.9	1404.2	8428.4	19771.9	24381.6
930.2	57.5°	918.4	841.4	841.4	936.2	1324.2	7305.6	21348.0	29204.6
835.4	60°	826.5	776.2	761.4	856.2	1395.3	5154.8	21531.6	32315.2
714.0	62.5°	725.8	699.2	678.4	779.1	1448.7	3054.4	20053.3	31562.8
562.9	65°	610.3	604.4	589.5	856.2	1220.6	1804.2	17215.2	29254.9
479.9	67.5°	512.5	503.6	503.6	897.6	927.3	1134.6	13449.9	26079.1
408.8	70°	441.4	408.8	408.8	678.4	562.9	785.1	9391.2	22651.5
337.7	72.5°	370.3	334.8	311.1	542.1	420.7	574.7	5868.8	19398.6
257.7	75°	296.3	269.6	240.0	358.5	314.0	435.5	3409.9	16071.7
162.9	77.5°	213.3	201.5	168.9	263.7	228.1	314.0	2029.3	12401.1
100.7	80°	109.6	112.6	106.7	151.1	154.1	213.3	1155.4	8487.6
65.2	82.5°	65.2	50.4	56.3	74.1	88.9	121.5	435.5	4988.9
47.4	85°	41.5	26.7	26.7	35.6	44.4	47.4	133.3	2023.4
23.7	87.5°	20.7	8.9	11.9	17.8	14.8	11.9	5.9	509.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)