

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: P954564

Luminaire Tested: **GALN-SB7D-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954564
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-SB7D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA 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: 58433 lumens
Efficiency: N/A
Efficacy: 113.9 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

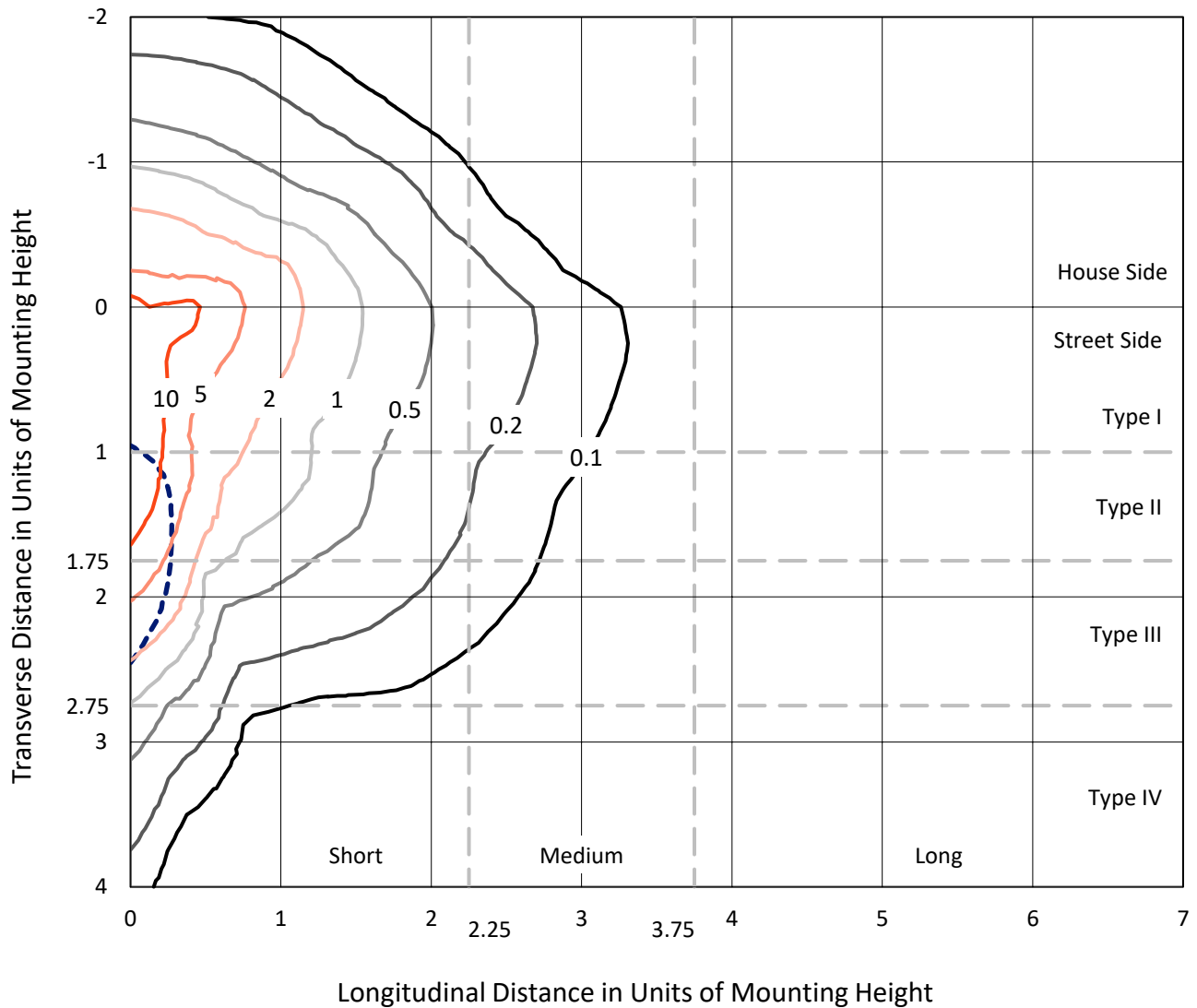
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

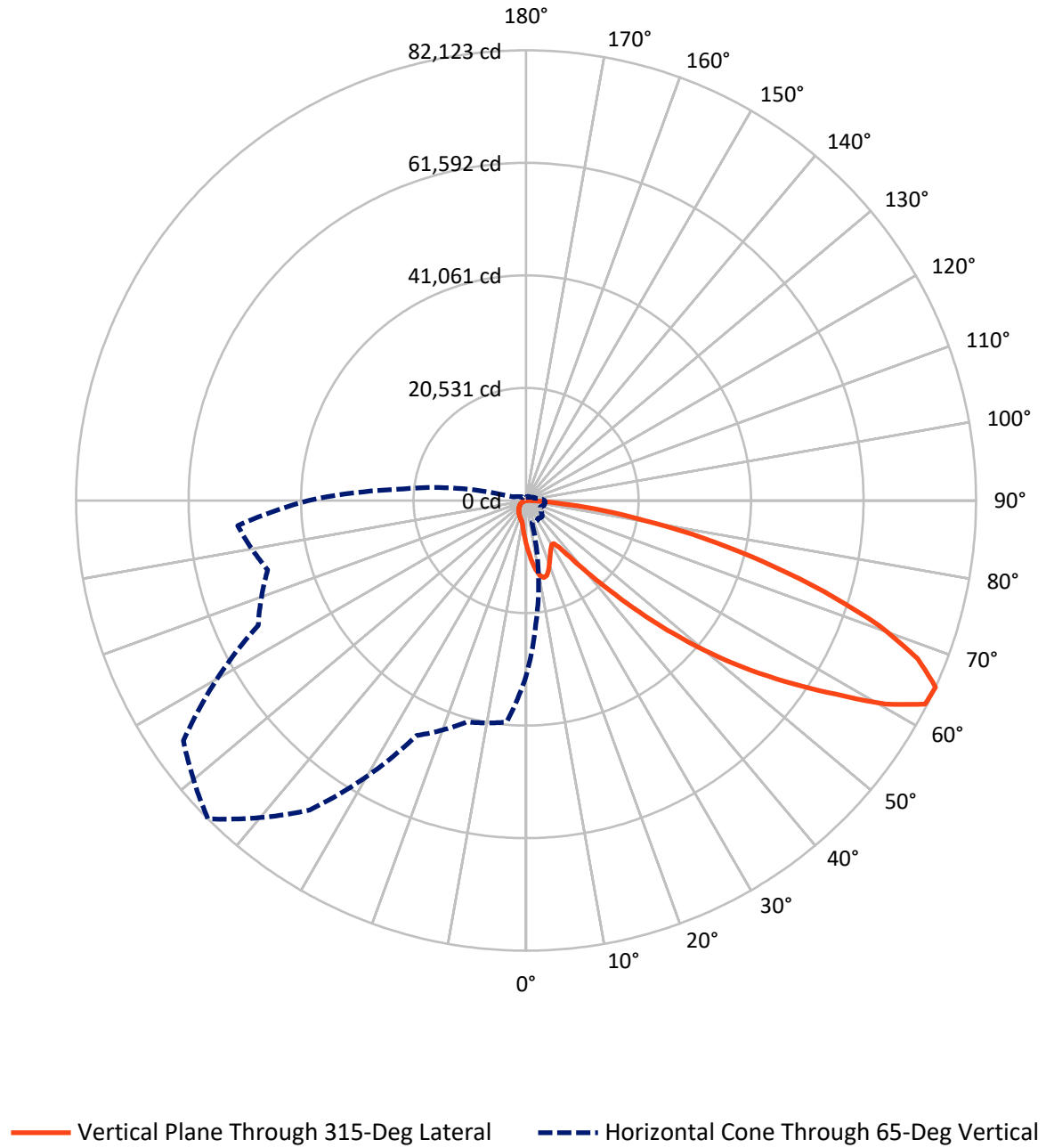
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	8183.1	0.0	8183.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	50249.9	0.0	50249.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	58433.0	0.0	58433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.6	1.4
10°-20°	2388.0	4.1
20°-30°	3518.0	6.0
30°-40°	4519.6	7.7
40°-50°	7309.6	12.5
50°-60°	12818.0	21.9
60°-70°	16038.8	27.4
70°-80°	9372.3	16.0
80°-90°	1672.2	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°	58433.0	100.0
0°-180°	58433.0	100.0

Coefficient of Utilization



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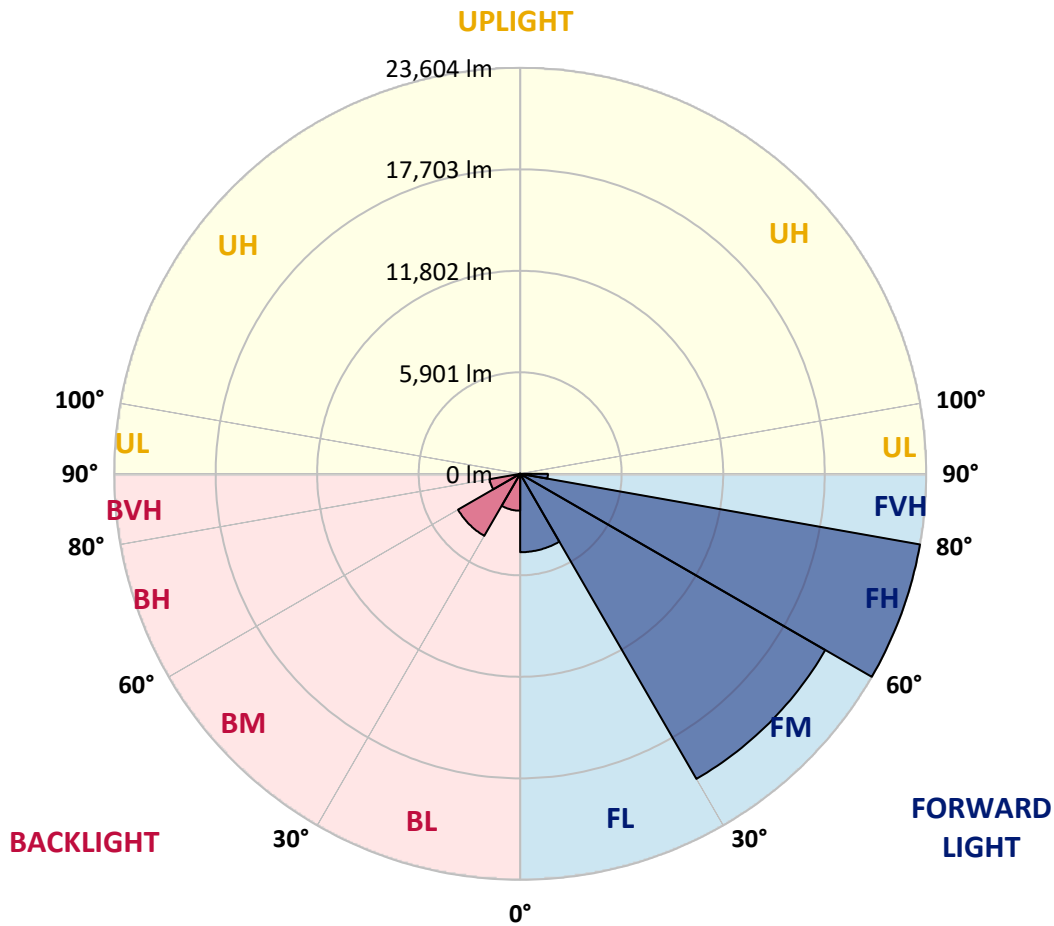
CATALOG NUMBER: GALN-SB7D-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4557.6	7.8			
FM (30°-60°)	20480.1	35.0			
FH (60°-80°)	23604.3	40.4			G5
FVH (80°-90°)	1607.9	2.8			G5
BL (0°-30°)	2144.9	3.7	B3/2500		
BM (30°-60°)	4167.0	7.1	B3/5000		
BH (60°-80°)	1806.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	64.2	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°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
2.5°	9141.7	8984.7	8892.2	8662.7	8433.3	8248.1	7998.5	7833.5	7636.2	7447.0
5°	10188.3	9934.7	9628.8	9210.2	8827.8	8437.3	8058.9	7684.5	7290.0	6927.8
7.5°	11073.9	10707.6	10168.2	9612.7	9125.6	8654.7	8211.9	7716.7	7237.7	6670.1
10°	11750.2	11283.3	10574.8	9846.2	9286.7	8811.7	8380.9	7962.3	7479.2	6794.9
12.5°	12160.8	11661.7	10820.3	9966.9	9326.9	8795.5	8461.4	8276.3	8087.1	7406.8
15°	12462.7	11923.3	10993.4	10051.5	9234.3	8582.2	8336.7	8521.8	8739.2	8304.4
17.5°	12776.7	12209.1	11218.9	10087.7	8984.7	8167.6	8062.9	8541.9	9045.1	9025.0
20°	13074.6	12511.0	11416.1	10063.6	8582.2	7664.4	7757.0	8368.9	8952.5	9198.1
22.5°	13416.7	12821.0	11605.3	9971.0	8058.9	7193.4	7483.3	8095.1	8606.4	8896.2
25°	13835.4	13211.4	11871.0	9834.1	7495.3	6803.0	7205.5	7777.1	8191.7	8393.0
27.5°	14286.2	13678.4	12225.2	9761.7	7040.5	6525.2	6891.5	7398.7	7769.1	7910.0
30°	14845.8	14221.8	12643.9	9681.1	6742.6	6364.2	6565.5	6960.0	7322.2	7463.1
32.5°	15457.6	14825.6	13046.4	9487.9	6561.4	6243.4	6247.5	6497.0	6827.1	6996.2
35°	16222.5	15550.2	13477.1	9065.3	6416.5	6102.5	5937.5	6058.3	6332.0	6533.3
37.5°	17313.3	16500.2	14004.4	8461.4	6203.2	5885.2	5611.4	5639.6	5848.9	6070.3
40°	18818.9	17776.3	14624.4	7833.5	5897.2	5579.2	5253.2	5241.1	5394.1	5611.4
42.5°	20855.7	19462.9	15369.1	7233.7	5603.4	5208.9	4874.8	4854.7	4975.4	5164.6
45°	23544.7	21620.5	16282.8	6718.4	5373.9	4846.6	4516.5	4508.5	4609.1	4774.2
47.5°	26986.4	24619.5	17196.6	6368.2	5253.2	4560.8	4222.7	4238.8	4327.3	4476.3
50°	31442.6	28528.2	17474.4	6191.1	5253.2	4407.8	3961.0	4041.5	4114.0	4226.7
52.5°	36784.3	32279.9	16556.6	6030.1	5285.4	4428.0	3739.6	3912.7	3965.0	4061.7
55°	41735.6	34119.5	14233.9	5808.7	5293.4	4552.8	3550.4	3808.1	3904.7	3940.9
57.5°	44609.7	33487.5	11508.7	5434.3	5261.2	4637.3	3429.7	3679.2	3864.4	3888.6
60°	44062.3	31269.5	8473.5	5148.5	5023.7	4605.1	3393.4	3482.0	3775.8	3812.1
62.5°	39843.6	27550.0	5881.1	4927.1	4500.4	4464.2	3381.4	3172.0	3582.6	3671.2
65°	32026.3	21689.0	4154.2	4242.8	3944.9	4158.3	3316.9	2850.0	3349.2	3469.9
67.5°	23234.7	14676.7	2998.9	3437.7	3574.6	3663.1	3172.0	2616.5	3083.5	3244.5
70°	14910.2	7926.1	2105.3	2270.3	3011.0	3111.7	2922.5	2407.2	2813.8	2998.9
72.5°	10598.9	4681.6	1513.6	1590.0	2419.3	2592.4	2572.2	2173.7	2499.8	2725.2
75°	7314.2	2580.3	1022.5	1135.2	1755.1	2105.3	1984.5	1867.8	2117.4	2346.8
77.5°	4585.0	1155.3	611.9	789.0	1151.3	1654.4	1360.6	1445.1	1650.4	1863.8
80°	2552.1	446.8	342.2	523.3	628.0	1203.6	752.8	929.9	1215.7	1368.6
82.5°	555.5	56.4	153.0	225.4	245.6	700.4	398.5	539.4	764.8	752.8
85°	0.0	0.0	28.2	32.2	16.1	301.9	144.9	177.1	249.6	233.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
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°
8091.1	0°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
7278.0	2.5°	7245.8	7048.5	6903.6	6831.1	6770.8	6827.1	6859.3	6859.3	6996.2	7076.7
6706.4	5°	6565.5	6211.2	5941.5	5760.4	5651.7	5687.9	5728.2	5772.5	5945.6	6062.3
6368.2	7.5°	6094.5	5551.1	5140.5	4886.9	4754.0	4774.2	4802.3	4838.6	5007.6	5124.4
6416.5	10°	6005.9	5225.0	4645.3	4311.2	4150.2	4122.0	4105.9	4093.9	4194.5	4283.1
6964.0	12.5°	6368.2	5241.1	4432.0	4025.4	3828.2	3743.6	3647.0	3570.6	3586.7	3643.0
7793.2	15°	7016.3	5446.4	4363.6	3876.5	3630.9	3490.0	3377.3	3284.7	3264.6	3284.7
8517.8	17.5°	7757.0	5724.2	4355.5	3747.7	3441.7	3296.8	3204.2	3119.7	3091.5	3095.6
8924.4	20°	8248.1	5945.6	4331.4	3602.8	3260.6	3131.8	3051.3	2966.7	2938.6	2946.6
8811.7	22.5°	8296.4	6062.3	4295.1	3441.7	3079.4	2970.8	2890.3	2813.8	2809.7	2809.7
8389.0	25°	8034.7	6062.3	4218.6	3296.8	2906.4	2809.7	2737.3	2644.7	2660.8	2668.9
7910.0	27.5°	7628.2	5917.4	4073.7	3180.1	2757.4	2656.8	2584.3	2499.8	2519.9	2532.0
7463.1	30°	7225.6	5732.2	3900.6	3047.2	2616.5	2499.8	2447.5	2375.0	2383.1	2399.2
7020.3	32.5°	6851.3	5535.0	3695.3	2938.6	2475.6	2358.9	2318.6	2238.1	2250.2	2266.3
6585.6	35°	6480.9	5317.6	3453.8	2809.7	2346.8	2230.1	2197.9	2105.3	2113.3	2137.5
6150.8	37.5°	6082.4	5088.1	3256.6	2680.9	2222.0	2101.3	2069.1	1972.5	1980.5	2008.7
5700.0	40°	5663.8	4862.7	3063.3	2544.1	2089.2	1968.4	1940.3	1835.6	1843.6	1875.8
5257.2	42.5°	5241.1	4617.2	2914.4	2366.9	1952.3	1823.5	1795.3	1698.7	1710.8	1747.0
4870.8	45°	4850.6	4323.3	2817.8	2169.7	1823.5	1678.6	1650.4	1561.9	1586.0	1626.3
4544.7	47.5°	4516.5	4021.4	2777.5	2004.7	1686.7	1529.7	1505.5	1433.1	1473.3	1517.6
4266.9	50°	4230.7	3731.6	2725.2	1835.6	1557.8	1400.8	1376.7	1328.4	1380.7	1425.0
4077.8	52.5°	4025.4	3401.5	2612.5	1682.6	1445.1	1292.2	1284.1	1260.0	1308.3	1348.5
3936.9	55°	3848.3	3059.3	2431.4	1549.8	1344.5	1199.6	1207.6	1195.6	1235.8	1268.0
3852.3	57.5°	3687.3	2761.4	2201.9	1445.1	1235.8	1119.1	1143.2	1127.1	1147.2	1167.4
3763.8	60°	3494.1	2459.5	1928.2	1328.4	1107.0	1038.6	1066.7	1022.5	1018.4	1026.5
3602.8	62.5°	3208.3	2053.0	1642.4	1183.5	994.3	950.0	962.1	877.5	813.1	813.1
3365.3	65°	2809.7	1650.4	1376.7	1022.5	865.5	829.2	821.2	700.4	611.9	603.8
3107.6	67.5°	2346.8	1356.6	1143.2	861.4	720.6	696.4	704.4	615.9	527.3	519.3
2850.0	70°	1912.1	1123.1	921.8	688.3	555.5	579.7	615.9	527.3	442.8	430.7
2548.1	72.5°	1553.8	893.6	720.6	527.3	410.6	479.0	523.3	430.7	350.2	342.2
2173.7	75°	1199.6	656.1	515.3	358.3	297.9	370.3	410.6	314.0	249.6	237.5
1682.6	77.5°	801.1	406.6	289.8	225.4	177.1	253.6	273.7	165.0	144.9	140.9
1223.7	80°	487.1	189.2	124.8	108.7	60.4	92.6	108.7	68.4	76.5	80.5
652.1	82.5°	245.6	52.3	20.1	4.0	0.0	0.0	32.2	16.1	32.2	40.3
177.1	85°	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.1
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°
8091.1	0°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
7108.9	2.5°	7334.3	7503.4	7664.4	7922.0	8187.7	8449.4	8715.0	8972.7	9065.3	9133.7
6138.8	5°	6489.0	6807.0	7177.3	7688.6	8236.0	8799.6	9371.2	9894.5	10132.0	10293.0
5225.0	7.5°	5615.5	6030.1	6561.4	7330.3	8187.7	9085.4	9983.0	10808.3	11190.7	11500.6
4363.6	10°	4750.0	5200.8	5873.1	6750.6	7910.0	9198.1	10437.9	11573.1	12068.2	12458.7
3743.6	12.5°	3989.2	4411.9	5116.3	6086.4	7475.2	9109.5	10699.6	12064.2	12647.9	13086.7
3300.8	15°	3453.8	3751.7	4375.6	5422.2	6960.0	8823.7	10715.7	12297.7	12937.7	13396.6
3115.7	17.5°	3155.9	3256.6	3663.1	4746.0	6388.3	8449.4	10566.7	12378.2	13062.5	13489.2
2950.6	20°	2994.9	3011.0	3123.7	3868.4	5655.7	8099.2	10425.8	12458.7	13179.2	13537.5
2833.9	22.5°	2866.1	2866.1	2894.3	3164.0	4709.7	7680.5	10381.6	12599.6	13340.3	13561.7
2701.1	25°	2749.4	2749.4	2757.4	2829.9	3731.6	7040.5	10353.4	12816.9	13561.7	13622.0
2568.2	27.5°	2628.6	2632.6	2632.6	2672.9	3007.0	6171.0	10232.6	13098.7	13827.3	13702.5
2439.4	30°	2507.8	2515.9	2515.9	2544.1	2660.8	5152.5	9995.1	13436.9	14173.5	13807.2
2310.6	32.5°	2387.1	2395.1	2395.1	2419.3	2503.8	4114.0	9697.2	13746.8	14523.7	13851.5
2185.8	35°	2262.3	2274.4	2266.3	2298.5	2387.1	3272.7	9318.9	14056.8	14902.1	13992.4
2065.0	37.5°	2137.5	2145.6	2141.5	2173.7	2274.4	2825.8	8880.1	14290.3	15417.4	14306.4
1936.2	40°	2012.7	2008.7	2008.7	2044.9	2153.6	2697.0	8328.6	14660.6	16158.0	14857.8
1807.4	42.5°	1883.9	1883.9	1875.8	1916.1	2048.9	2600.4	7801.3	15324.8	17236.9	15735.4
1686.7	45°	1767.2	1763.1	1747.0	1783.3	1948.3	2431.4	7616.1	16564.6	18830.9	17156.4
1565.9	47.5°	1654.4	1650.4	1610.2	1642.4	1827.5	2278.4	8308.5	18593.4	21040.9	19245.5
1469.3	50°	1553.8	1557.8	1481.4	1509.5	1706.8	2161.7	9810.0	21226.1	23975.4	22059.3
1388.8	52.5°	1461.2	1461.2	1360.6	1376.7	1557.8	2057.0	11239.0	24080.1	27847.9	25984.1
1304.2	55°	1368.6	1360.6	1247.9	1255.9	1408.9	1908.1	11452.3	26865.7	33129.2	31889.4
1211.7	57.5°	1264.0	1247.9	1143.2	1143.2	1272.0	1799.4	9926.7	29007.2	39682.6	40568.2
1038.6	60°	1135.2	1123.1	1054.7	1034.5	1163.3	1896.0	7004.2	29256.8	43909.3	52109.1
825.2	62.5°	970.1	986.2	950.0	921.8	1058.7	1968.4	4150.2	27248.1	42886.9	55780.3
640.0	65°	764.8	829.2	821.2	801.1	1163.3	1658.5	2451.5	23391.7	39751.1	52817.6
559.5	67.5°	652.1	696.4	684.3	684.3	1219.7	1260.0	1541.7	18275.4	35435.8	49303.4
466.9	70°	555.5	599.8	555.5	555.5	921.8	764.8	1066.7	12760.6	30778.4	45414.8
374.4	72.5°	458.9	503.2	454.9	422.7	736.7	571.6	780.9	7974.4	26358.5	41365.2
265.7	75°	350.2	402.5	366.3	326.1	487.1	426.7	591.7	4633.3	21837.9	35391.5
161.0	77.5°	221.4	289.8	273.7	229.4	358.3	310.0	426.7	2757.4	16850.4	27654.7
96.6	80°	136.9	148.9	153.0	144.9	205.3	209.3	289.8	1569.9	11532.8	19273.7
60.4	82.5°	88.6	88.6	68.4	76.5	100.6	120.8	165.0	591.7	6778.8	11734.1
36.2	85°	64.4	56.4	36.2	36.2	48.3	60.4	64.4	181.1	2749.4	4633.3
16.1	87.5°	32.2	28.2	12.1	16.1	24.2	20.1	16.1	8.1	692.4	1481.4
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
8091.1	0°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
9286.7	2.5°	9367.2	9491.9	9500.0	9500.0	9391.3	9387.3	9165.9	9141.7
10655.3	5°	11029.7	11110.2	11130.3	11090.0	10872.7	10711.7	10280.9	10188.3
12052.1	7.5°	12551.3	12712.3	12712.3	12615.7	12261.4	11931.4	11307.4	11073.9
13207.4	10°	13766.9	13952.1	13911.9	13714.6	13267.8	12812.9	12056.1	11750.2
13907.8	12.5°	14358.7	14547.9	14443.2	14217.8	13783.0	13304.0	12507.0	12160.8
14109.1	15°	14346.6	14294.3	14185.6	14157.4	13948.1	13585.8	12841.1	12462.7
13984.3	17.5°	13835.4	13392.6	13308.0	13589.8	13855.5	13766.9	13130.9	12776.7
13686.4	20°	13026.3	12253.4	12176.9	12716.3	13473.1	13859.5	13400.6	13074.6
13255.7	22.5°	12172.9	11339.6	11162.5	11758.3	12897.5	13887.7	13742.8	13416.7
12780.7	25°	11363.8	10526.5	10349.4	10904.9	12257.4	13839.4	14113.1	13835.4
12325.8	27.5°	10687.5	9878.4	9713.3	10268.9	11641.5	13702.5	14483.5	14286.2
11875.0	30°	10164.2	9415.5	9294.7	9830.1	11110.2	13533.5	14954.4	14845.8
11456.4	32.5°	9858.3	9310.8	9355.1	9793.9	10824.4	13348.3	15405.3	15457.6
11251.1	35°	10160.2	10184.3	10570.8	10751.9	11090.0	13320.1	16017.2	16222.5
11496.6	37.5°	11661.7	12498.9	13300.0	13151.1	12390.3	13646.2	16930.9	17313.3
12567.4	40°	14217.8	15936.7	17236.9	16669.3	14753.2	14644.5	18247.2	18818.9
14467.4	42.5°	17341.5	20255.9	22397.5	20875.8	17800.4	16391.5	20127.1	20855.7
16765.9	45°	20638.3	25581.6	28954.9	25790.9	21048.9	18839.0	22973.1	23544.7
18919.5	47.5°	24112.3	32054.4	36418.0	31241.3	24060.0	21624.6	26853.6	26986.4
20960.4	50°	27912.3	39151.3	44026.1	36687.7	26966.3	24816.7	31595.5	31442.6
23339.4	52.5°	31531.1	46449.4	51473.1	42158.3	29518.4	28777.8	37098.3	36784.3
26591.9	55°	34985.0	53743.4	58964.4	47415.5	31925.6	34010.8	43635.6	41735.6
31281.6	57.5°	38990.2	60300.8	66685.2	52696.8	35290.9	40805.7	50945.8	44609.7
40262.3	60°	44911.6	67751.9	75416.3	59934.5	41691.3	47946.8	53566.3	44062.3
51018.2	62.5°	52471.4	74603.2	81764.4	67027.3	48119.9	49291.3	49705.9	39843.6
48824.4	65°	53940.7	76338.1	82122.7	68923.3	47290.7	41812.1	40580.3	32026.3
43611.4	67.5°	50044.1	73202.3	77115.0	65393.0	41832.2	32312.1	30452.3	23234.7
40189.8	70°	45672.5	67224.6	68387.9	59391.1	36792.4	23766.1	20565.9	14910.2
37847.0	72.5°	41192.2	59250.2	56843.0	51577.7	32336.2	17305.3	14833.7	10598.9
34510.0	75°	35870.5	48764.0	44774.8	42854.7	26773.1	13581.8	10731.8	7314.2
29683.5	77.5°	28725.4	34324.8	33258.0	33217.8	20119.1	9922.7	7161.2	4585.0
23190.5	80°	20264.0	22276.7	21733.3	25018.0	13497.2	7197.5	4311.2	2552.1
16141.9	82.5°	9810.0	12317.8	12643.9	14898.1	6565.5	4234.7	994.3	555.5
6311.9	85°	3840.3	5941.5	5011.7	5655.7	1843.6	1179.4	24.2	0.0
1038.6	87.5°	430.7	688.3	632.0	499.2	225.4	48.3	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)