

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: P957651

Luminaire Tested: **GALN-SB9D-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957651
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-SB9D-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 51259 lumens
Efficiency: N/A
Efficacy: 77.9 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

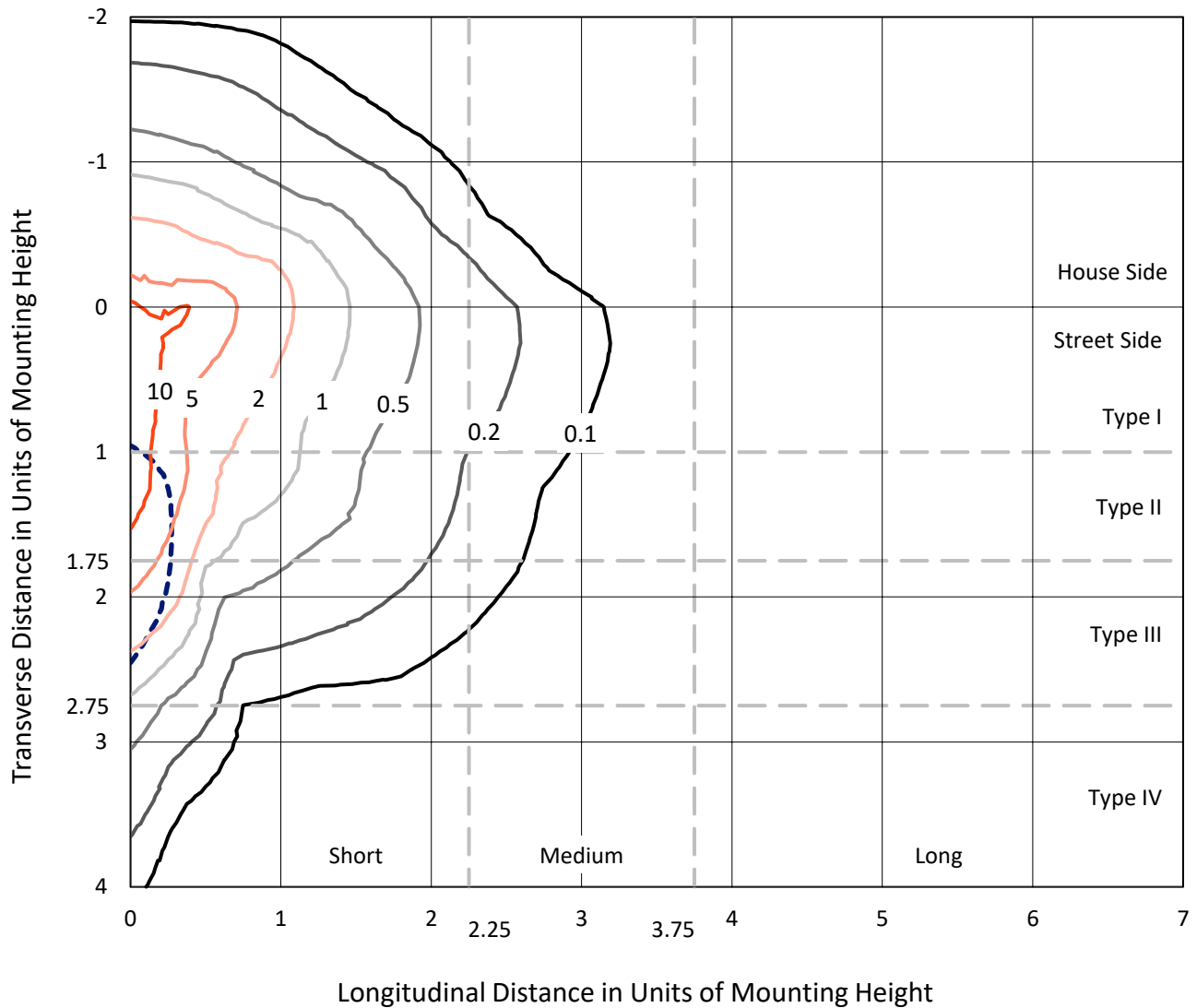
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

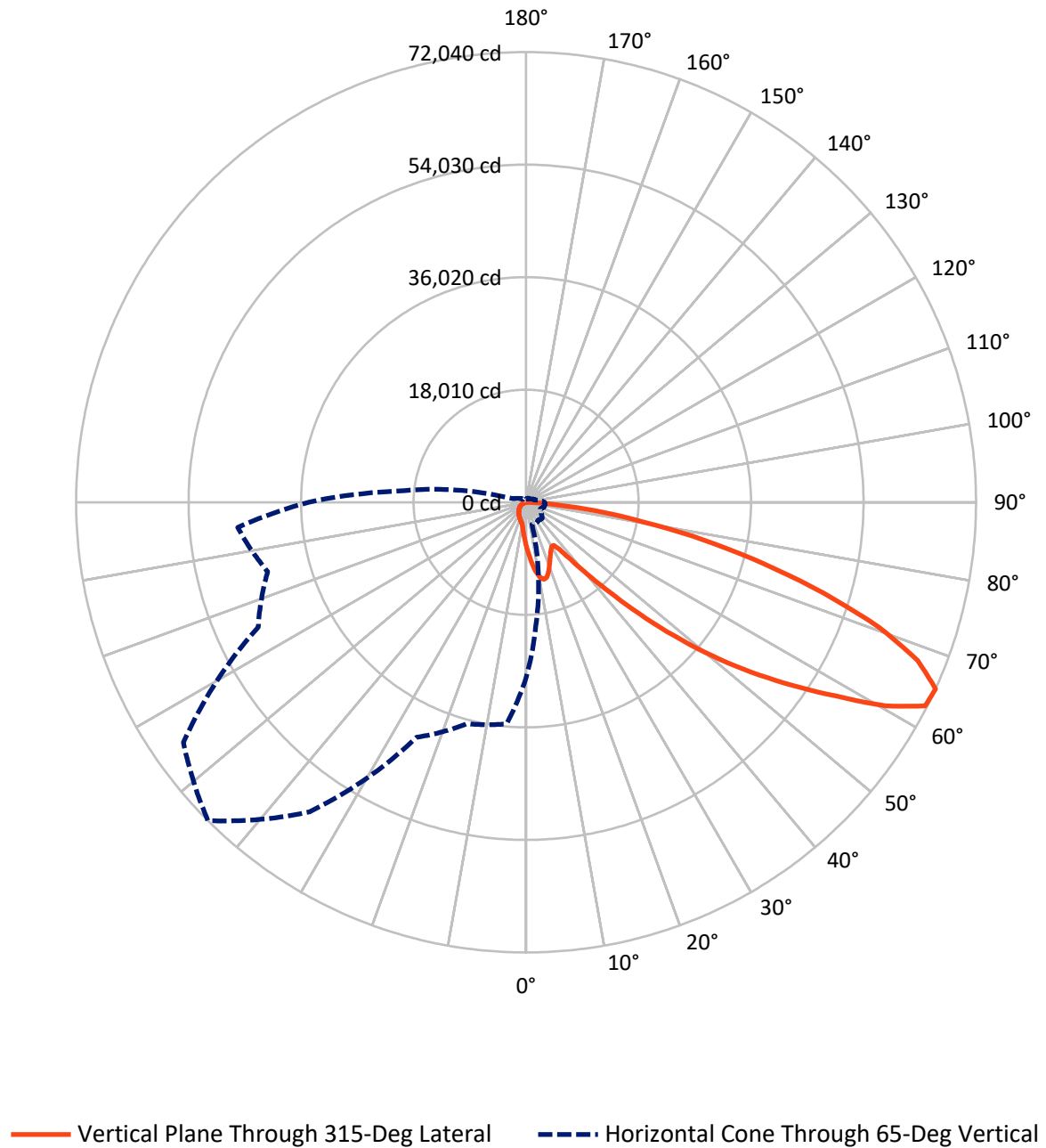
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	7178.4	0.0	7178.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	44080.6	0.0	44080.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	51259.0	0.0	51259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.8	1.4
10°-20°	2094.8	4.1
20°-30°	3086.0	6.0
30°-40°	3964.7	7.7
40°-50°	6412.1	12.5
50°-60°	11244.3	21.9
60°-70°	14069.7	27.4
70°-80°	8221.7	16.0
80°-90°	1466.9	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°	51259.0	100.0
0°-180°	51259.0	100.0

Coefficient of Utilization



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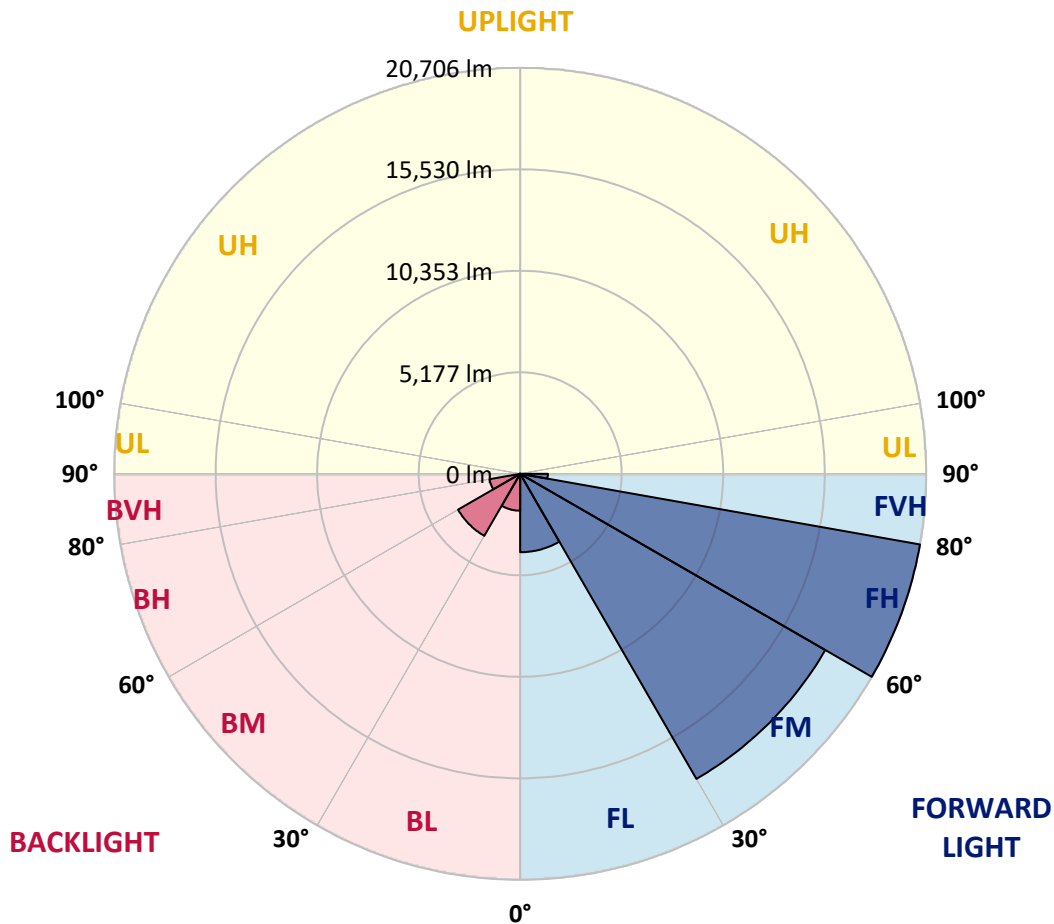
CATALOG NUMBER: GALN-SB9D-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3998.0	7.8			
FM (30°-60°)	17965.7	35.0			
FH (60°-80°)	20706.3	40.4			G5
FVH (80°-90°)	1410.5	2.8			G5
BL (0°-30°)	1881.6	3.7	B3/2500		
BM (30°-60°)	3655.4	7.1	B3/5000		
BH (60°-80°)	1585.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	56.4	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°	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7
2.5°	8019.4	7881.7	7800.4	7599.2	7397.9	7235.4	7016.5	6871.7	6698.7	6532.7
5°	8937.5	8715.0	8446.7	8079.4	7743.9	7401.4	7069.5	6741.1	6395.0	6077.2
7.5°	9714.4	9393.0	8919.8	8432.5	8005.3	7592.1	7203.7	6769.3	6349.1	5851.2
10°	10307.6	9898.0	9276.5	8637.3	8146.5	7729.8	7352.0	6984.7	6561.0	5960.7
12.5°	10667.8	10229.9	9491.9	8743.3	8181.8	7715.7	7422.6	7260.2	7094.2	6497.4
15°	10932.6	10459.4	9643.7	8817.4	8100.6	7528.5	7313.1	7475.6	7666.3	7284.9
17.5°	11208.1	10710.2	9841.5	8849.2	7881.7	7164.8	7073.0	7493.2	7934.6	7917.0
20°	11469.4	10975.0	10014.5	8828.0	7528.5	6723.4	6804.6	7341.4	7853.4	8068.8
22.5°	11769.5	11246.9	10180.5	8746.8	7069.5	6310.3	6564.5	7101.3	7549.7	7804.0
25°	12136.8	11589.4	10413.5	8626.7	6575.1	5967.7	6320.9	6822.3	7186.0	7362.6
27.5°	12532.3	11999.1	10724.3	8563.2	6176.1	5724.1	6045.4	6490.4	6815.2	6938.8
30°	13023.1	12475.8	11091.5	8492.6	5914.8	5582.8	5759.4	6105.5	6423.3	6546.9
32.5°	13559.8	13005.4	11444.7	8323.1	5755.9	5476.9	5480.4	5699.4	5988.9	6137.2
35°	14230.8	13641.1	11822.5	7952.3	5628.7	5353.3	5208.5	5314.5	5554.6	5731.2
37.5°	15187.7	14474.4	12285.1	7422.6	5441.6	5162.6	4922.5	4947.2	5130.8	5325.1
40°	16508.4	15593.8	12828.9	6871.7	5173.2	4894.3	4608.2	4597.6	4731.8	4922.5
42.5°	18295.2	17073.4	13482.2	6345.6	4915.4	4569.4	4276.3	4258.6	4364.6	4530.5
45°	20654.0	18966.1	14283.7	5893.6	4714.2	4251.6	3962.0	3955.0	4043.2	4188.0
47.5°	23673.2	21596.9	15085.3	5586.4	4608.2	4000.9	3704.2	3718.4	3796.1	3926.7
50°	27582.3	25025.7	15329.0	5431.0	4608.2	3866.7	3474.7	3545.3	3608.9	3707.8
52.5°	32268.2	28316.8	14523.9	5289.8	4636.5	3884.3	3280.5	3432.3	3478.2	3563.0
55°	36611.6	29930.5	12486.4	5095.5	4643.5	3993.8	3114.5	3340.5	3425.3	3457.1
57.5°	39132.9	29376.1	10095.7	4767.1	4615.3	4068.0	3008.6	3227.5	3390.0	3411.1
60°	38652.6	27430.4	7433.2	4516.4	4406.9	4039.7	2976.8	3054.5	3312.3	3344.1
62.5°	34951.9	24167.6	5159.1	4322.2	3947.9	3916.1	2966.2	2782.6	3142.8	3220.5
65°	28094.3	19026.2	3644.2	3721.9	3460.6	3647.7	2909.7	2500.1	2938.0	3043.9
67.5°	20382.1	12874.8	2630.8	3015.7	3135.7	3213.4	2782.6	2295.3	2704.9	2846.2
70°	13079.6	6953.0	1846.8	1991.6	2641.3	2729.6	2563.7	2111.7	2468.3	2630.8
72.5°	9297.7	4106.8	1327.7	1394.8	2122.3	2274.1	2256.4	1906.9	2192.9	2390.6
75°	6416.2	2263.5	896.9	995.8	1539.6	1846.8	1740.9	1638.5	1857.4	2058.7
77.5°	4022.0	1013.5	536.7	692.1	1009.9	1451.3	1193.5	1267.7	1447.8	1635.0
80°	2238.8	392.0	300.2	459.1	550.9	1055.8	660.3	815.7	1066.4	1200.6
82.5°	487.3	49.4	134.2	197.7	215.4	614.4	349.6	473.2	670.9	660.3
85°	0.0	0.0	24.7	28.2	14.1	264.8	127.1	155.4	218.9	204.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
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°
7097.7	0°	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7
6384.4	2.5°	6356.2	6183.1	6056.0	5992.5	5939.5	5988.9	6017.2	6017.2	6137.2	6207.9
5883.0	5°	5759.4	5448.7	5212.1	5053.2	4957.8	4989.6	5024.9	5063.8	5215.6	5318.0
5586.4	7.5°	5346.3	4869.5	4509.4	4286.9	4170.4	4188.0	4212.7	4244.5	4392.8	4495.2
5628.7	10°	5268.6	4583.5	4075.0	3781.9	3640.7	3616.0	3601.8	3591.2	3679.5	3757.2
6109.0	12.5°	5586.4	4597.6	3887.9	3531.2	3358.2	3284.0	3199.3	3132.2	3146.3	3195.7
6836.4	15°	6154.9	4777.7	3827.8	3400.6	3185.2	3061.6	2962.7	2881.5	2863.8	2881.5
7472.0	17.5°	6804.6	5021.4	3820.8	3287.6	3019.2	2892.1	2810.8	2736.7	2712.0	2715.5
7828.7	20°	7235.4	5215.6	3799.6	3160.4	2860.3	2747.3	2676.7	2602.5	2577.8	2584.8
7729.8	22.5°	7277.8	5318.0	3767.8	3019.2	2701.4	2606.0	2535.4	2468.3	2464.8	2464.8
7359.0	25°	7048.3	5318.0	3700.7	2892.1	2549.5	2464.8	2401.2	2320.0	2334.1	2341.2
6938.8	27.5°	6691.6	5190.9	3573.6	2789.7	2418.9	2330.6	2267.0	2192.9	2210.5	2221.1
6546.9	30°	6338.5	5028.4	3421.7	2673.1	2295.3	2192.9	2147.0	2083.4	2090.5	2104.6
6158.4	32.5°	6010.1	4855.4	3241.7	2577.8	2171.7	2069.3	2034.0	1963.4	1973.9	1988.1
5777.1	35°	5685.2	4664.7	3029.8	2464.8	2058.7	1956.3	1928.0	1846.8	1853.9	1875.1
5395.7	37.5°	5335.7	4463.4	2856.7	2351.8	1949.2	1843.3	1815.0	1730.3	1737.4	1762.1
5000.2	40°	4968.4	4265.7	2687.3	2231.7	1832.7	1726.8	1702.0	1610.2	1617.3	1645.5
4611.8	42.5°	4597.6	4050.3	2556.6	2076.4	1712.6	1599.6	1574.9	1490.2	1500.8	1532.5
4272.8	45°	4255.1	3792.5	2471.8	1903.3	1599.6	1472.5	1447.8	1370.1	1391.3	1426.6
3986.7	47.5°	3962.0	3527.7	2436.5	1758.5	1479.6	1341.9	1320.7	1257.1	1292.4	1331.3
3743.1	50°	3711.3	3273.4	2390.6	1610.2	1366.6	1228.9	1207.7	1165.3	1211.2	1250.0
3577.1	52.5°	3531.2	2983.9	2291.8	1476.0	1267.7	1133.5	1126.5	1105.3	1147.6	1183.0
3453.5	55°	3375.8	2683.7	2132.9	1359.5	1179.4	1052.3	1059.4	1048.8	1084.1	1112.3
3379.4	57.5°	3234.6	2422.4	1931.6	1267.7	1084.1	981.7	1002.9	988.7	1006.4	1024.1
3301.7	60°	3065.1	2157.6	1691.4	1165.3	971.1	911.1	935.8	896.9	893.4	900.5
3160.4	62.5°	2814.4	1800.9	1440.7	1038.2	872.2	833.4	844.0	769.8	713.3	713.3
2952.1	65°	2464.8	1447.8	1207.7	896.9	759.2	727.4	720.4	614.4	536.7	529.7
2726.1	67.5°	2058.7	1190.0	1002.9	755.7	632.1	610.9	618.0	540.3	462.6	455.5
2500.1	70°	1677.3	985.2	808.6	603.8	487.3	508.5	540.3	462.6	388.4	377.8
2235.3	72.5°	1363.0	783.9	632.1	462.6	360.2	420.2	459.1	377.8	307.2	300.2
1906.9	75°	1052.3	575.6	452.0	314.3	261.3	324.9	360.2	275.4	218.9	208.3
1476.0	77.5°	702.7	356.7	254.2	197.7	155.4	222.5	240.1	144.8	127.1	123.6
1073.5	80°	427.3	166.0	109.5	95.3	53.0	81.2	95.3	60.0	67.1	70.6
572.1	82.5°	215.4	45.9	17.7	3.5	0.0	0.0	28.2	14.1	28.2	35.3
155.4	85°	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.7
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°
7097.7	0°	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7
6236.1	2.5°	6433.9	6582.2	6723.4	6949.4	7182.5	7412.0	7645.1	7871.1	7952.3	8012.3
5385.1	5°	5692.3	5971.3	6296.1	6744.6	7224.9	7719.2	8220.7	8679.7	8888.1	9029.3
4583.5	7.5°	4926.0	5289.8	5755.9	6430.3	7182.5	7969.9	8757.4	9481.3	9816.8	10088.7
3827.8	10°	4166.8	4562.3	5152.0	5921.8	6938.8	8068.8	9156.4	10152.2	10586.6	10929.1
3284.0	12.5°	3499.4	3870.2	4488.2	5339.2	6557.5	7991.1	9386.0	10583.0	11095.1	11480.0
2895.6	15°	3029.8	3291.1	3838.4	4756.5	6105.5	7740.4	9400.1	10787.8	11349.3	11751.9
2733.2	17.5°	2768.5	2856.7	3213.4	4163.3	5604.0	7412.0	9269.4	10858.5	11458.8	11833.1
2588.4	20°	2627.2	2641.3	2740.2	3393.5	4961.3	7104.8	9145.8	10929.1	11561.2	11875.5
2486.0	22.5°	2514.2	2514.2	2538.9	2775.5	4131.5	6737.5	9107.0	11052.7	11702.4	11896.6
2369.4	25°	2411.8	2411.8	2418.9	2482.4	3273.4	6176.1	9082.3	11243.4	11896.6	11949.6
2252.9	27.5°	2305.9	2309.4	2309.4	2344.7	2637.8	5413.3	8976.3	11490.6	12129.7	12020.2
2139.9	30°	2199.9	2207.0	2207.0	2231.7	2334.1	4519.9	8768.0	11787.2	12433.4	12112.0
2026.9	32.5°	2094.0	2101.1	2101.1	2122.3	2196.4	3608.9	8506.7	12059.1	12740.6	12150.9
1917.4	35°	1984.5	1995.1	1988.1	2016.3	2094.0	2870.9	8174.8	12331.0	13072.5	12274.5
1811.5	37.5°	1875.1	1882.1	1878.6	1906.9	1995.1	2478.9	7789.8	12535.8	13524.5	12549.9
1698.5	40°	1765.6	1762.1	1762.1	1793.9	1889.2	2365.9	7306.1	12860.7	14174.3	13033.7
1585.5	42.5°	1652.6	1652.6	1645.5	1680.9	1797.4	2281.2	6843.5	13443.3	15120.6	13803.5
1479.6	45°	1550.2	1546.7	1532.5	1564.3	1709.1	2132.9	6681.0	14530.9	16519.0	15050.0
1373.6	47.5°	1451.3	1447.8	1412.5	1440.7	1603.2	1998.7	7288.4	16310.7	18457.6	16882.7
1288.9	50°	1363.0	1366.6	1299.5	1324.2	1497.2	1896.3	8605.6	18620.1	21031.9	19351.0
1218.3	52.5°	1281.8	1281.8	1193.5	1207.7	1366.6	1804.4	9859.1	21123.7	24428.9	22794.0
1144.1	55°	1200.6	1193.5	1094.7	1101.7	1235.9	1673.8	10046.3	23567.3	29061.9	27974.2
1062.9	57.5°	1108.8	1094.7	1002.9	1002.9	1115.9	1578.5	8708.0	25445.9	34810.7	35587.5
911.1	60°	995.8	985.2	925.2	907.5	1020.5	1663.2	6144.3	25664.8	38518.4	45711.5
723.9	62.5°	851.0	865.1	833.4	808.6	928.7	1726.8	3640.7	23902.8	37621.5	48932.0
561.5	65°	670.9	727.4	720.4	702.7	1020.5	1454.9	2150.5	20519.9	34870.7	46333.0
490.8	67.5°	572.1	610.9	600.3	600.3	1070.0	1105.3	1352.5	16031.7	31085.2	43250.3
409.6	70°	487.3	526.2	487.3	487.3	808.6	670.9	935.8	11193.9	26999.6	39839.1
328.4	72.5°	402.6	441.4	399.0	370.8	646.2	501.4	685.1	6995.3	23122.4	36286.7
233.1	75°	307.2	353.1	321.3	286.0	427.3	374.3	519.1	4064.4	19156.8	31046.4
141.2	77.5°	194.2	254.2	240.1	201.3	314.3	271.9	374.3	2418.9	14781.6	24259.4
84.7	80°	120.1	130.7	134.2	127.1	180.1	183.6	254.2	1377.2	10116.9	16907.4
53.0	82.5°	77.7	77.7	60.0	67.1	88.3	105.9	144.8	519.1	5946.6	10293.5
31.8	85°	56.5	49.4	31.8	31.8	42.4	53.0	56.5	158.9	2411.8	4064.4
14.1	87.5°	28.2	24.7	10.6	14.1	21.2	17.7	14.1	7.1	607.4	1299.5
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°
7097.7	0°	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7	7097.7
8146.5	2.5°	8217.1	8326.6	8333.7	8333.7	8238.3	8234.8	8040.6	8019.4
9347.1	5°	9675.5	9746.1	9763.8	9728.5	9537.8	9396.5	9018.7	8937.5
10572.4	7.5°	11010.3	11151.6	11151.6	11066.8	10756.1	10466.5	9919.2	9714.4
11585.9	10°	12076.7	12239.2	12203.9	12030.8	11638.9	11239.8	10576.0	10307.6
12200.3	12.5°	12595.8	12761.8	12670.0	12472.2	12090.9	11670.6	10971.5	10667.8
12376.9	15°	12585.2	12539.3	12444.0	12419.3	12235.6	11917.8	11264.6	10932.6
12267.4	17.5°	12136.8	11748.3	11674.2	11921.4	12154.4	12076.7	11518.8	11208.1
12006.1	20°	11427.0	10749.0	10681.9	11155.1	11819.0	12158.0	11755.4	11469.4
11628.3	22.5°	10678.4	9947.4	9792.0	10314.7	11314.0	12182.7	12055.5	11769.5
11211.6	25°	9968.6	9234.1	9078.7	9566.0	10752.5	12140.3	12380.4	12136.8
10812.6	27.5°	9375.4	8665.6	8520.8	9008.1	10212.3	12020.2	12705.3	12532.3
10417.1	30°	8916.3	8259.5	8153.6	8623.2	9746.1	11871.9	13118.4	13023.1
10049.8	32.5°	8647.9	8167.7	8206.5	8591.4	9495.4	11709.5	13513.9	13559.8
9869.7	35°	8912.8	8934.0	9273.0	9431.9	9728.5	11684.8	14050.7	14230.8
10085.1	37.5°	10229.9	10964.4	11667.1	11536.5	10869.1	11970.8	14852.3	15187.7
11024.4	40°	12472.2	13980.1	15120.6	14622.7	12941.9	12846.5	16007.0	16508.4
12691.2	42.5°	15212.5	17769.0	19647.7	18312.9	15615.0	14379.1	17656.0	18295.2
14707.5	45°	18104.5	22440.8	25400.0	22624.5	18464.7	16526.1	20152.6	20654.0
16596.7	47.5°	21151.9	28119.0	31946.9	27405.7	21106.0	18969.7	23556.7	23673.2
18387.0	50°	24485.4	34344.5	38620.8	32183.4	23655.6	21769.9	27716.5	27582.3
20474.0	52.5°	27660.0	40746.6	45153.6	36982.4	25894.4	25244.6	32543.6	32268.2
23327.2	55°	30689.7	47145.2	51725.2	41594.1	28006.0	29835.2	38278.3	36611.6
27441.0	57.5°	34203.3	52897.5	58498.0	46227.1	30958.1	35795.9	44691.0	39132.9
35319.2	60°	39397.7	59433.8	66157.2	52576.2	36572.7	42060.2	46989.8	38652.6
44754.6	62.5°	46029.3	65443.9	71725.9	58798.2	42212.1	43239.7	43603.4	34951.9
42830.0	65°	47318.2	66965.9	72040.2	60461.4	41484.7	36678.7	35598.1	28094.3
38257.1	67.5°	43900.0	64215.0	67647.4	57364.5	36696.3	28345.0	26713.6	20382.1
35255.6	70°	40065.1	58971.2	59991.7	52099.5	32275.3	20848.3	18040.9	13079.6
33200.4	72.5°	36134.9	51975.9	49864.2	45245.4	28366.2	15180.7	13012.5	9297.7
30273.1	75°	31466.6	42777.1	39277.6	37593.3	23486.1	11914.3	9414.2	6416.2
26039.1	77.5°	25198.7	30110.6	29174.9	29139.5	17649.0	8704.4	6282.0	4022.0
20343.3	80°	17776.1	19541.7	19065.0	21946.5	11840.1	6313.8	3781.9	2238.8
14160.2	82.5°	8605.6	10805.5	11091.5	13069.0	5759.4	3714.8	872.2	487.3
5536.9	85°	3368.8	5212.1	4396.4	4961.3	1617.3	1034.6	21.2	0.0
911.1	87.5°	377.8	603.8	554.4	437.9	197.7	42.4	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)