

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: P956223

Luminaire Tested: **GALN-SB8D-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956223
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-SB8D-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 45507 lumens
Efficiency: N/A
Efficacy: 77.8 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

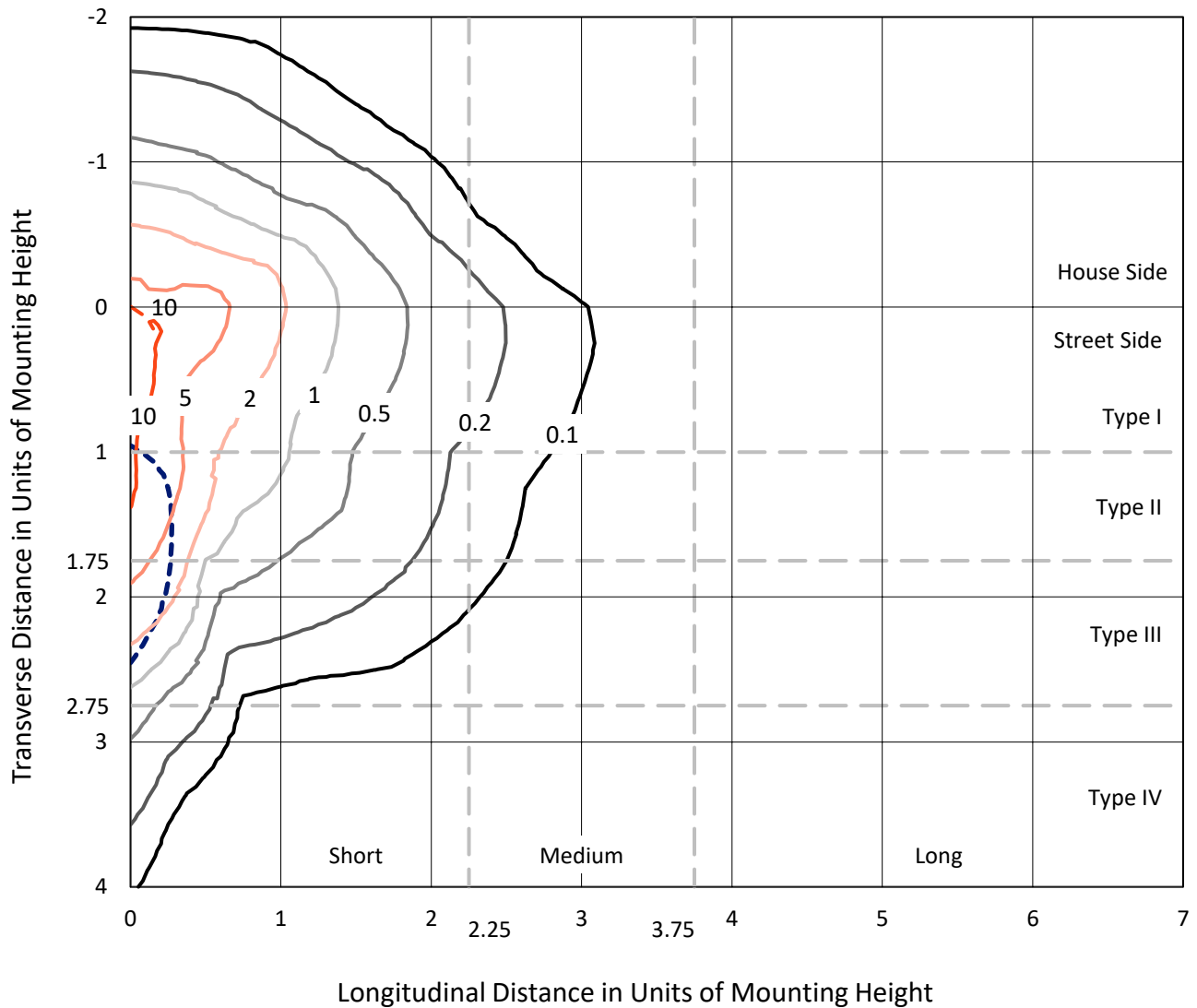
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

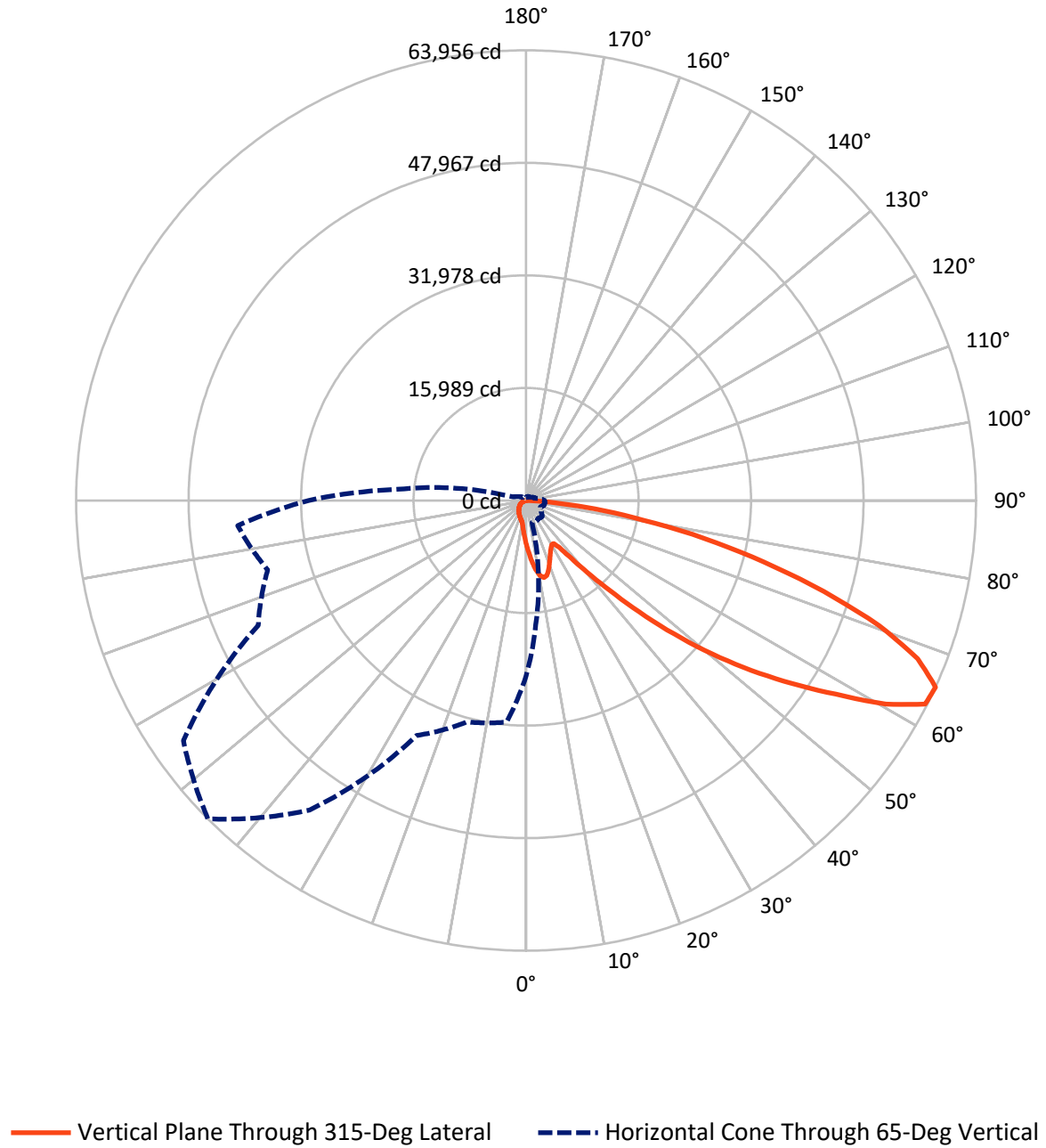
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	6372.9	0.0	6372.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	39134.1	0.0	39134.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	45507.0	0.0	45507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	1.4
10°-20°	1859.7	4.1
20°-30°	2739.7	6.0
30°-40°	3519.8	7.7
40°-50°	5692.6	12.5
50°-60°	9982.5	21.9
60°-70°	12490.9	27.4
70°-80°	7299.1	16.0
80°-90°	1302.3	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°	45507.0	100.0
0°-180°	45507.0	100.0

Coefficient of Utilization



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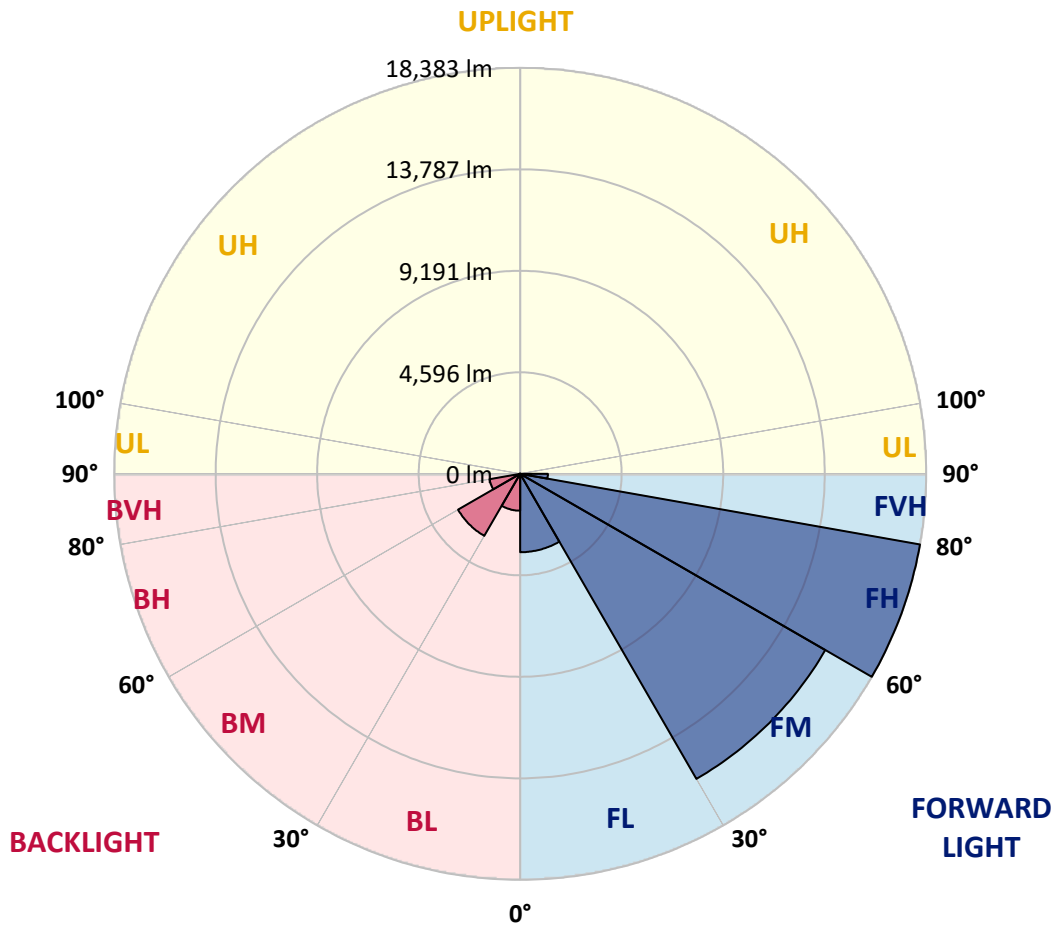
CATALOG NUMBER: GALN-SB8D-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3549.4	7.8			
FM (30°-60°)	15949.7	35.0			
FH (60°-80°)	18382.8	40.4			G5
FVH (80°-90°)	1252.2	2.8			G5
BL (0°-30°)	1670.5	3.7	B3/2500		
BM (30°-60°)	3245.2	7.1	B3/5000		
BH (60°-80°)	1407.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	50.0	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°	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3
2.5°	7119.5	6997.2	6925.1	6746.4	6567.7	6423.5	6229.2	6100.6	5947.0	5799.7
5°	7934.6	7737.1	7498.8	7172.8	6875.0	6570.9	6276.2	5984.6	5677.4	5395.3
7.5°	8624.3	8339.0	7918.9	7486.3	7106.9	6740.2	6395.3	6009.7	5636.7	5194.6
10°	9150.9	8787.3	8235.5	7668.1	7232.3	6862.4	6527.0	6200.9	5824.7	5291.8
12.5°	9470.7	9082.0	8426.8	7762.2	7263.7	6849.9	6589.7	6445.5	6298.1	5768.3
15°	9705.8	9285.7	8561.6	7828.0	7191.6	6683.7	6492.5	6636.7	6806.0	6467.4
17.5°	9950.4	9508.3	8737.1	7856.2	6997.2	6360.8	6279.3	6652.4	7044.2	7028.6
20°	10182.3	9743.4	8890.7	7837.4	6683.7	5969.0	6041.1	6517.6	6972.1	7163.4
22.5°	10448.8	9984.8	9038.1	7765.3	6276.2	5602.2	5827.9	6304.4	6702.5	6928.3
25°	10774.8	10288.9	9245.0	7658.7	5837.3	5298.1	5611.6	6056.7	6379.6	6536.4
27.5°	11126.0	10652.6	9520.9	7602.3	5483.0	5081.8	5367.0	5762.1	6050.5	6160.2
30°	11561.7	11075.8	9846.9	7539.6	5251.1	4956.4	5113.1	5420.3	5702.5	5812.2
32.5°	12038.2	11546.0	10160.4	7389.1	5110.0	4862.3	4865.5	5059.8	5316.9	5448.6
35°	12633.9	12110.3	10495.8	7059.9	4997.1	4752.6	4624.1	4718.1	4931.3	5088.0
37.5°	13483.4	12850.2	10906.5	6589.7	4831.0	4583.3	4370.1	4392.1	4555.1	4727.5
40°	14655.9	13844.0	11389.3	6100.6	4592.7	4345.1	4091.1	4081.7	4200.8	4370.1
42.5°	16242.2	15157.5	11969.3	5633.5	4363.9	4056.6	3796.4	3780.8	3874.8	4022.1
45°	18336.4	16837.9	12680.9	5232.2	4185.2	3774.5	3517.4	3511.2	3589.5	3718.1
47.5°	21016.8	19173.4	13392.5	4959.5	4091.1	3551.9	3288.6	3301.1	3370.1	3486.1
50°	24487.1	22217.4	13608.8	4821.6	4091.1	3432.8	3084.8	3147.5	3203.9	3291.7
52.5°	28647.2	25139.2	12894.1	4696.2	4116.2	3448.5	2912.4	3047.2	3087.9	3163.2
55°	32503.2	26571.9	11085.2	4523.7	4122.5	3545.6	2765.0	2965.7	3040.9	3069.1
57.5°	34741.6	26079.7	8962.8	4232.2	4097.4	3611.5	2671.0	2865.4	3009.6	3028.4
60°	34315.2	24352.3	6599.1	4009.6	3912.4	3586.4	2642.8	2711.7	2940.6	2968.8
62.5°	31029.8	21455.6	4580.2	3837.2	3504.9	3476.7	2633.4	2470.3	2790.1	2859.1
65°	24941.7	16891.1	3235.3	3304.2	3072.3	3238.4	2583.2	2219.5	2608.3	2702.3
67.5°	18095.0	11430.1	2335.5	2677.3	2783.8	2852.8	2470.3	2037.7	2401.4	2526.8
70°	11611.9	6172.7	1639.6	1768.1	2344.9	2423.3	2276.0	1874.7	2191.3	2335.5
72.5°	8254.3	3646.0	1178.7	1238.3	1884.1	2018.9	2003.2	1692.9	1946.8	2122.4
75°	5696.2	2009.5	796.3	884.1	1366.8	1639.6	1545.5	1454.6	1649.0	1827.7
77.5°	3570.7	899.7	476.5	614.5	896.6	1288.5	1059.6	1125.4	1285.3	1451.5
80°	1987.6	348.0	266.5	407.5	489.1	937.4	586.2	724.2	946.8	1065.9
82.5°	432.6	43.9	119.1	175.6	191.2	545.5	310.4	420.1	595.6	586.2
85°	0.0	0.0	21.9	25.1	12.5	235.1	112.9	137.9	194.4	181.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
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°
6301.3	0°	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3
5668.0	2.5°	5642.9	5489.3	5376.5	5320.0	5273.0	5316.9	5342.0	5342.0	5448.6	5511.3
5222.8	5°	5113.1	4837.2	4627.2	4486.1	4401.5	4429.7	4461.0	4495.5	4630.3	4721.2
4959.5	7.5°	4746.3	4323.1	4003.3	3805.8	3702.4	3718.1	3740.0	3768.2	3899.9	3990.8
4997.1	10°	4677.4	4069.2	3617.7	3357.5	3232.1	3210.2	3197.7	3188.3	3266.6	3335.6
5423.5	12.5°	4959.5	4081.7	3451.6	3135.0	2981.3	2915.5	2840.3	2780.7	2793.2	2837.1
6069.3	15°	5464.2	4241.6	3398.3	3019.0	2827.7	2718.0	2630.2	2558.1	2542.5	2558.1
6633.6	17.5°	6041.1	4457.9	3392.0	2918.6	2680.4	2567.5	2495.4	2429.6	2407.6	2410.8
6950.2	20°	6423.5	4630.3	3373.2	2805.8	2539.3	2439.0	2376.3	2310.5	2288.5	2294.8
6862.4	22.5°	6461.1	4721.2	3345.0	2680.4	2398.2	2313.6	2250.9	2191.3	2188.2	2188.2
6533.3	25°	6257.4	4721.2	3285.4	2567.5	2263.4	2188.2	2131.8	2059.7	2072.2	2078.5
6160.2	27.5°	5940.7	4608.4	3172.6	2476.6	2147.4	2069.1	2012.6	1946.8	1962.5	1971.9
5812.2	30°	5627.2	4464.2	3037.8	2373.2	2037.7	1946.8	1906.1	1849.6	1855.9	1868.4
5467.4	32.5°	5335.7	4310.6	2877.9	2288.5	1928.0	1837.1	1805.7	1743.0	1752.4	1765.0
5128.8	35°	5047.3	4141.3	2689.8	2188.2	1827.7	1736.8	1711.7	1639.6	1645.9	1664.7
4790.2	37.5°	4736.9	3962.6	2536.2	2087.9	1730.5	1636.4	1611.4	1536.1	1542.4	1564.3
4439.1	40°	4410.9	3787.0	2385.7	1981.3	1627.0	1533.0	1511.0	1429.5	1435.8	1460.9
4094.3	42.5°	4081.7	3595.8	2269.7	1843.4	1520.5	1420.1	1398.2	1323.0	1332.4	1360.6
3793.3	45°	3777.6	3366.9	2194.5	1689.7	1420.1	1307.3	1285.3	1216.4	1235.2	1266.5
3539.4	47.5°	3517.4	3131.8	2163.1	1561.2	1313.5	1191.3	1172.5	1116.0	1147.4	1181.9
3323.1	50°	3294.8	2906.1	2122.4	1429.5	1213.2	1091.0	1072.2	1034.5	1075.3	1109.8
3175.7	52.5°	3135.0	2649.0	2034.6	1310.4	1125.4	1006.3	1000.1	981.2	1018.9	1050.2
3066.0	55°	2997.0	2382.6	1893.5	1207.0	1047.1	934.2	940.5	931.1	962.4	987.5
3000.2	57.5°	2871.6	2150.6	1714.8	1125.4	962.4	871.5	890.3	877.8	893.5	909.1
2931.2	60°	2721.1	1915.5	1501.6	1034.5	862.1	808.8	830.8	796.3	793.1	799.4
2805.8	62.5°	2498.6	1598.8	1279.1	921.7	774.3	739.8	749.3	683.4	633.3	633.3
2620.8	65°	2188.2	1285.3	1072.2	796.3	674.0	645.8	639.5	545.5	476.5	470.2
2420.2	67.5°	1827.7	1056.5	890.3	670.9	561.2	542.3	548.6	479.6	410.7	404.4
2219.5	70°	1489.1	874.7	717.9	536.1	432.6	451.4	479.6	410.7	344.8	335.4
1984.4	72.5°	1210.1	696.0	561.2	410.7	319.8	373.1	407.5	335.4	272.7	266.5
1692.9	75°	934.2	511.0	401.3	279.0	232.0	288.4	319.8	244.5	194.4	185.0
1310.4	77.5°	623.9	316.6	225.7	175.6	137.9	197.5	213.2	128.5	112.9	109.7
953.0	80°	379.3	147.3	97.2	84.6	47.0	72.1	84.6	53.3	59.6	62.7
507.9	82.5°	191.2	40.8	15.7	3.1	0.0	0.0	25.1	12.5	25.1	31.3
137.9	85°	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	15.7
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°
6301.3	0°	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3
5536.3	2.5°	5711.9	5843.6	5969.0	6169.6	6376.5	6580.3	6787.2	6987.8	7059.9	7113.2
4780.8	5°	5053.6	5301.2	5589.6	5987.8	6414.1	6853.0	7298.2	7705.7	7890.7	8016.1
4069.2	7.5°	4373.3	4696.2	5110.0	5708.8	6376.5	7075.6	7774.7	8417.4	8715.2	8956.6
3398.3	10°	3699.2	4050.4	4573.9	5257.3	6160.2	7163.4	8128.9	9013.0	9398.6	9702.7
2915.5	12.5°	3106.7	3435.9	3984.5	4740.1	5821.6	7094.4	8332.7	9395.5	9850.0	10191.7
2570.7	15°	2689.8	2921.8	3407.7	4222.8	5420.3	6871.8	8345.3	9577.3	10075.8	10433.1
2426.5	17.5°	2457.8	2536.2	2852.8	3696.1	4975.2	6580.3	8229.3	9640.0	10172.9	10505.2
2297.9	20°	2332.4	2344.9	2432.7	3012.7	4404.6	6307.5	8119.5	9702.7	10263.8	10542.9
2207.0	22.5°	2232.1	2232.1	2254.0	2464.1	3667.9	5981.5	8085.1	9812.4	10389.2	10561.7
2103.6	25°	2141.2	2141.2	2147.4	2203.9	2906.1	5483.0	8063.1	9981.7	10561.7	10608.7
2000.1	27.5°	2047.1	2050.3	2050.3	2081.6	2341.8	4805.9	7969.1	10201.1	10768.6	10671.4
1899.8	30°	1953.1	1959.3	1959.3	1981.3	2072.2	4012.7	7784.1	10464.5	11038.2	10752.9
1799.5	32.5°	1859.0	1865.3	1865.3	1884.1	1949.9	3203.9	7552.1	10705.9	11310.9	10787.4
1702.3	35°	1761.8	1771.3	1765.0	1790.1	1859.0	2548.7	7257.4	10947.3	11605.6	10897.1
1608.2	37.5°	1664.7	1670.9	1667.8	1692.9	1771.3	2200.7	6915.7	11129.1	12006.9	11141.6
1507.9	40°	1567.5	1564.3	1564.3	1592.6	1677.2	2100.4	6486.2	11417.5	12583.7	11571.1
1407.6	42.5°	1467.2	1467.2	1460.9	1492.2	1595.7	2025.2	6075.5	11934.8	13423.9	12254.5
1313.5	45°	1376.2	1373.1	1360.6	1388.8	1517.3	1893.5	5931.3	12900.3	14665.3	13361.2
1219.5	47.5°	1288.5	1285.3	1254.0	1279.1	1423.3	1774.4	6470.6	14480.4	16386.4	14988.2
1144.3	50°	1210.1	1213.2	1153.7	1175.6	1329.2	1683.5	7639.9	16530.6	18671.8	17179.6
1081.6	52.5°	1138.0	1138.0	1059.6	1072.2	1213.2	1602.0	8752.8	18753.3	21687.6	20236.1
1015.7	55°	1065.9	1059.6	971.8	978.1	1097.2	1486.0	8919.0	20922.7	25800.7	24835.1
943.6	57.5°	984.4	971.8	890.3	890.3	990.6	1401.3	7730.8	22590.5	30904.4	31594.1
808.8	60°	884.1	874.7	821.4	805.7	906.0	1476.6	5454.8	22784.9	34196.1	40582.0
642.7	62.5°	755.5	768.1	739.8	717.9	824.5	1533.0	3232.1	21220.5	33399.8	43441.1
498.5	65°	595.6	645.8	639.5	623.9	906.0	1291.6	1909.2	18217.2	30957.7	41133.8
435.8	67.5°	507.9	542.3	532.9	532.9	949.9	981.2	1200.7	14232.7	27597.0	38397.0
363.7	70°	432.6	467.1	432.6	432.6	717.9	595.6	830.8	9937.8	23969.9	35368.6
291.6	72.5°	357.4	391.9	354.3	329.2	573.7	445.2	608.2	6210.3	20527.7	32214.8
206.9	75°	272.7	313.5	285.3	253.9	379.3	332.3	460.8	3608.3	17007.1	27562.5
125.4	77.5°	172.4	225.7	213.2	178.7	279.0	241.4	332.3	2147.4	13122.9	21537.2
75.2	80°	106.6	116.0	119.1	112.9	159.9	163.0	225.7	1222.6	8981.7	15010.2
47.0	82.5°	69.0	69.0	53.3	59.6	78.4	94.0	128.5	460.8	5279.3	9138.4
28.2	85°	50.2	43.9	28.2	28.2	37.6	47.0	50.2	141.1	2141.2	3608.3
12.5	87.5°	25.1	21.9	9.4	12.5	18.8	15.7	12.5	6.3	539.2	1153.7
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°
6301.3	0°	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3	6301.3
7232.3	2.5°	7295.0	7392.2	7398.5	7398.5	7313.9	7310.7	7138.3	7119.5
8298.2	5°	8589.8	8652.5	8668.2	8636.8	8467.5	8342.1	8006.7	7934.6
9386.1	7.5°	9774.8	9900.2	9900.2	9825.0	9549.1	9292.0	8806.1	8624.3
10285.8	10°	10721.6	10865.8	10834.4	10680.8	10332.8	9978.6	9389.2	9150.9
10831.3	12.5°	11182.4	11329.7	11248.2	11072.7	10734.1	10361.0	9740.3	9470.7
10988.0	15°	11173.0	11132.2	11047.6	11025.6	10862.6	10580.5	10000.5	9705.8
10890.8	17.5°	10774.8	10430.0	10364.2	10583.6	10790.5	10721.6	10226.2	9950.4
10658.9	20°	10144.7	9542.8	9483.2	9903.3	10492.7	10793.7	10436.3	10182.3
10323.4	22.5°	9480.1	8831.2	8693.2	9157.2	10044.4	10815.6	10702.7	10448.8
9953.5	25°	8850.0	8197.9	8060.0	8492.6	9545.9	10778.0	10991.2	10774.8
9599.2	27.5°	8323.3	7693.2	7564.7	7997.3	9066.3	10671.4	11279.6	11126.0
9248.1	30°	7915.8	7332.7	7238.6	7655.6	8652.5	10539.7	11646.4	11561.7
8922.1	32.5°	7677.5	7251.2	7285.6	7627.4	8429.9	10395.5	11997.5	12038.2
8762.2	35°	7912.6	7931.4	8232.4	8373.5	8636.8	10373.6	12474.0	12633.9
8953.4	37.5°	9082.0	9734.0	10357.9	10241.9	9649.4	10627.5	13185.6	13483.4
9787.3	40°	11072.7	12411.3	13423.9	12981.9	11489.6	11405.0	14210.8	14655.9
11267.0	42.5°	13505.4	15775.1	17442.9	16257.9	13862.8	12765.5	15674.8	16242.2
13057.1	45°	16072.9	19922.7	22549.7	20085.7	16392.7	14671.6	17891.2	18336.4
14734.3	47.5°	18778.4	24963.7	28362.0	24330.4	18737.6	16841.0	20913.3	21016.8
16323.7	50°	21737.8	30490.6	34287.0	28572.0	21001.1	19327.0	24606.3	24487.1
18176.5	52.5°	24556.1	36174.3	40086.7	32832.4	22988.6	22411.8	28891.8	28647.2
20709.5	55°	27245.9	41854.8	45920.8	36926.7	24863.3	26487.3	33982.9	32503.2
24361.8	57.5°	30365.2	46961.7	51933.7	41039.7	27484.2	31779.1	39676.0	34741.6
31355.8	60°	34976.7	52764.5	58733.4	46676.4	32468.7	37340.5	41716.9	34315.2
39732.4	62.5°	40864.2	58100.2	63677.2	52200.2	37475.3	38387.5	38710.4	31029.8
38023.9	65°	42008.4	59451.3	63956.3	53676.7	36829.5	32562.8	31603.5	24941.7
33964.1	67.5°	38973.8	57009.2	60056.4	50927.4	32578.5	25164.3	23715.9	18095.0
31299.4	70°	35569.2	52353.8	53259.8	46253.2	28653.5	18508.8	16016.5	11611.9
29474.9	72.5°	32080.0	46143.4	44268.7	40168.2	25183.1	13477.2	11552.3	8254.3
26876.0	75°	27935.6	37976.9	34870.1	33374.8	20850.6	10577.3	8357.8	5696.2
23117.2	77.5°	22371.1	26731.8	25901.0	25869.7	15668.5	7727.7	5577.1	3570.7
18060.5	80°	15781.4	17348.9	16925.6	19483.8	10511.5	5605.3	3357.5	1987.6
12571.2	82.5°	7639.9	9593.0	9846.9	11602.5	5113.1	3298.0	774.3	432.6
4915.6	85°	2990.7	4627.2	3903.0	4404.6	1435.8	918.5	18.8	0.0
808.8	87.5°	335.4	536.1	492.2	388.7	175.6	37.6	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)