

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: P957189

Luminaire Tested: **GALN-SB9C-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957189
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-SB9C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 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: 49796 lumens
Efficiency: N/A
Efficacy: 110.7 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

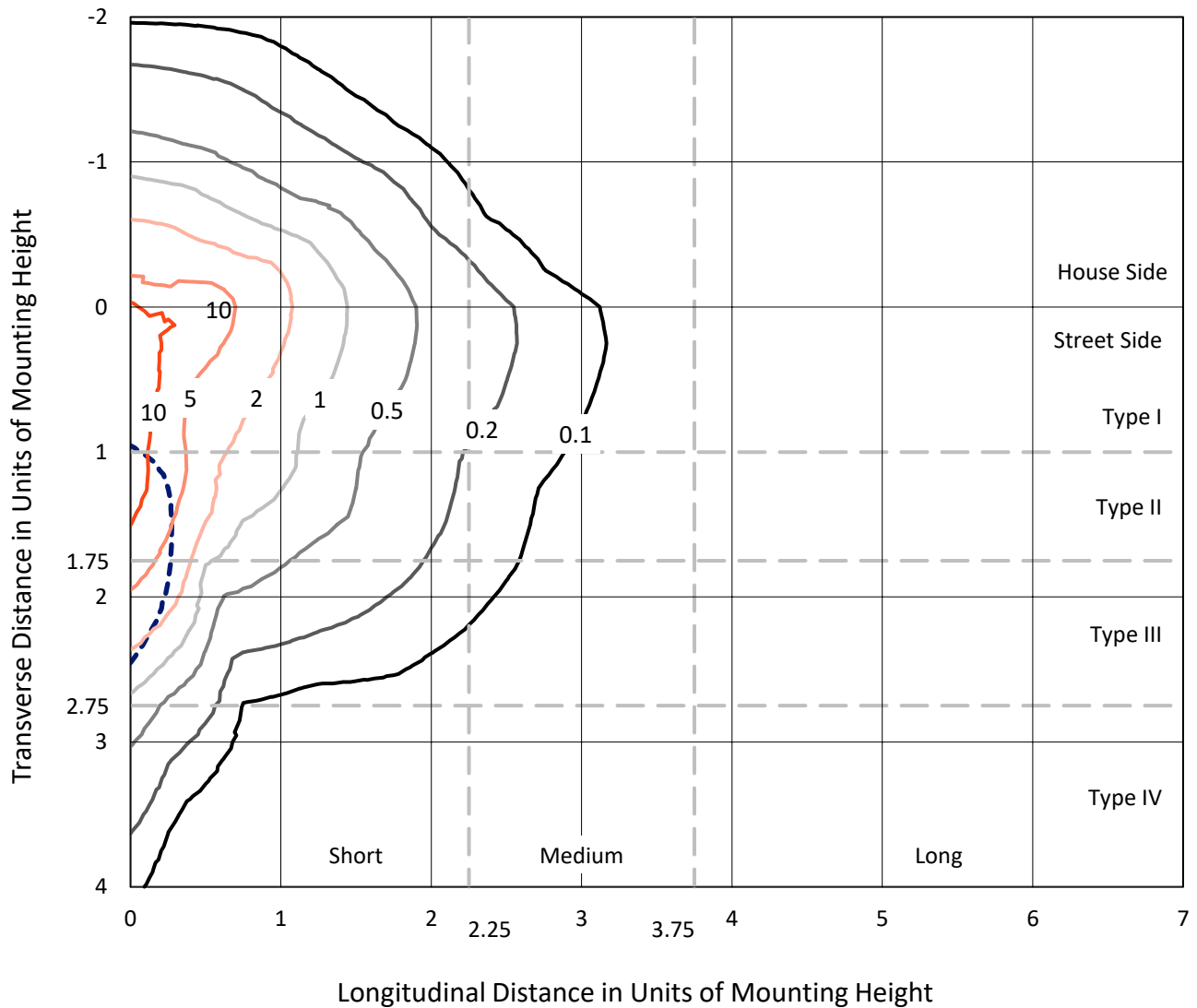
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

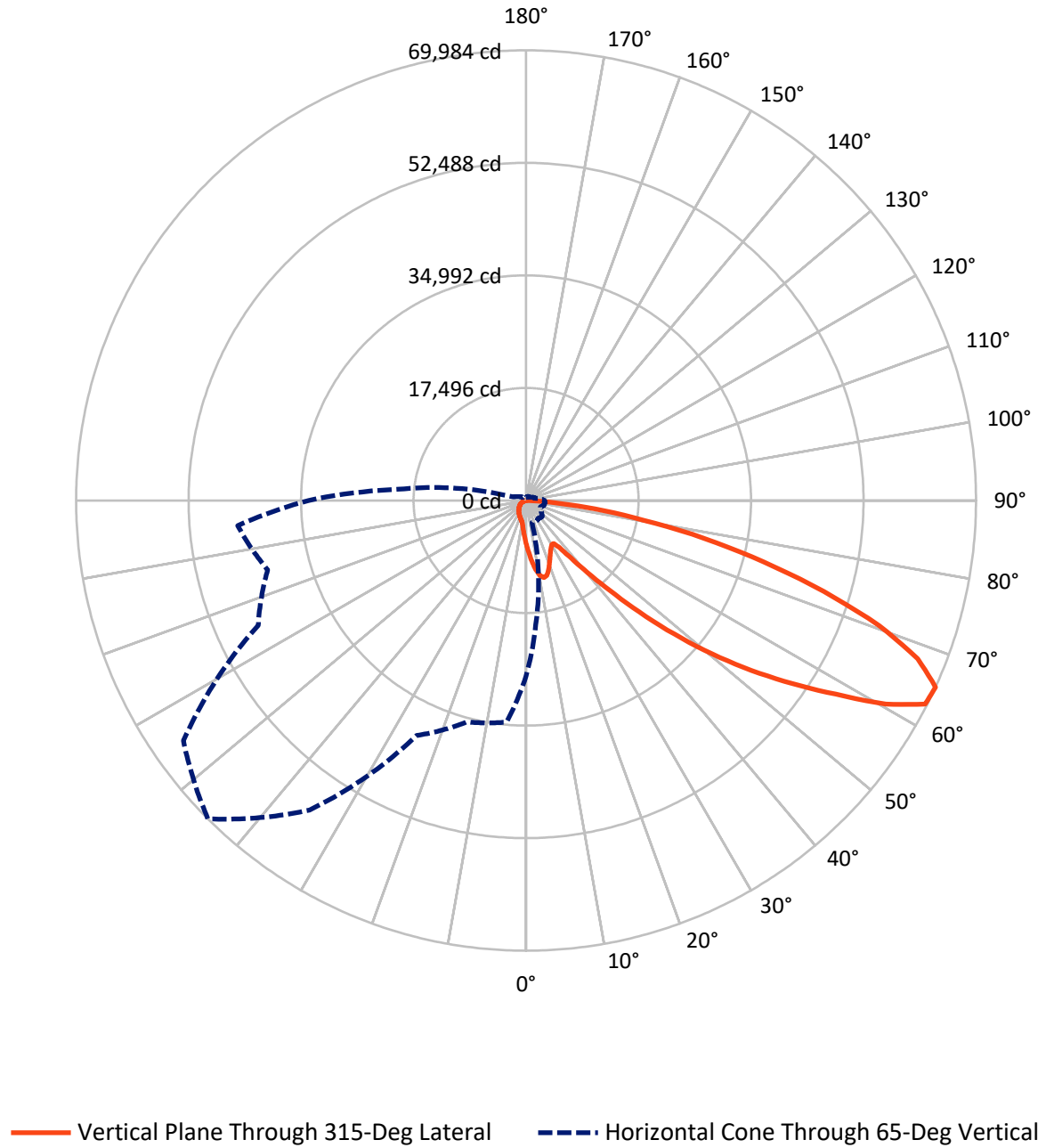
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	6973.6	0.0	6973.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	42822.4	0.0	42822.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	49796.0	0.0	49796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.9	1.4
10°-20°	2035.0	4.1
20°-30°	2998.0	6.0
30°-40°	3851.6	7.7
40°-50°	6229.1	12.5
50°-60°	10923.4	21.9
60°-70°	13668.1	27.4
70°-80°	7987.0	16.0
80°-90°	1425.0	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°	49796.0	100.0
0°-180°	49796.0	100.0

Coefficient of Utilization



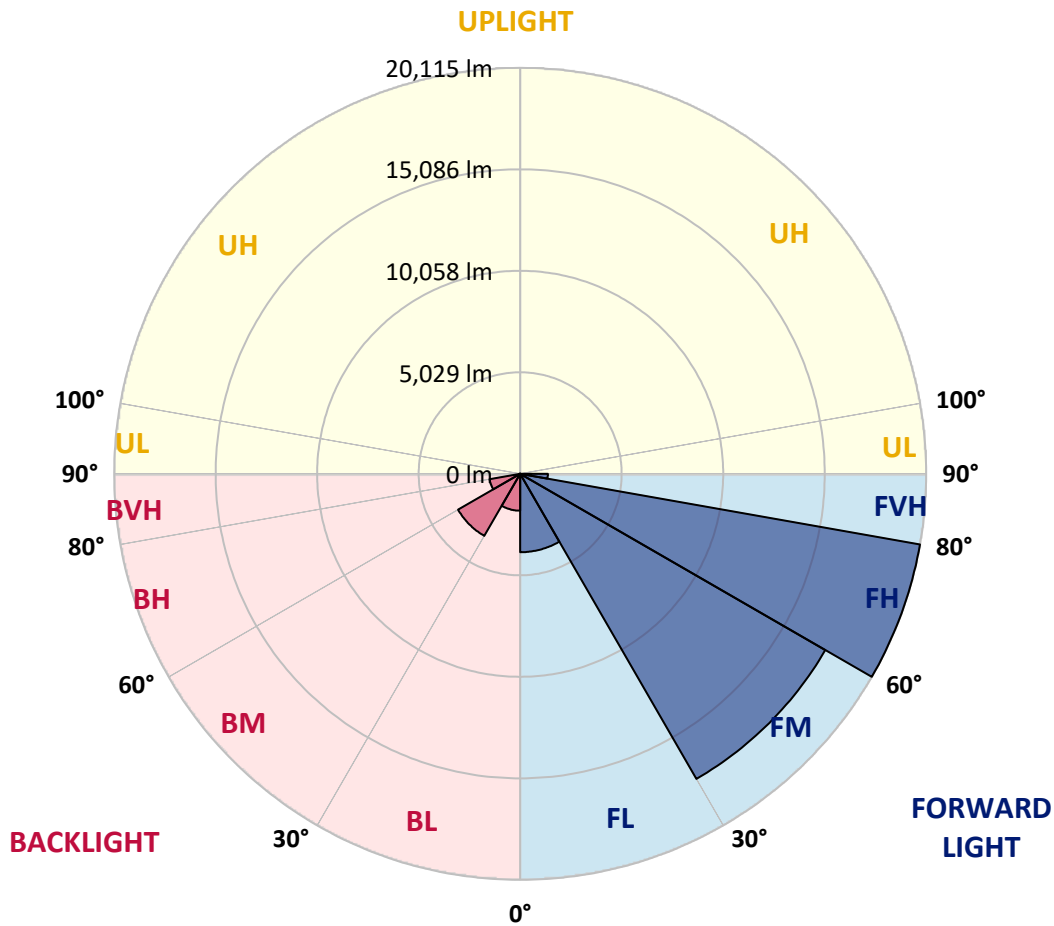
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3883.9	7.8			
FM (30°-60°)	17452.9	35.0			
FH (60°-80°)	20115.3	40.4			G5
FVH (80°-90°)	1370.3	2.8			G5
BL (0°-30°)	1827.9	3.7	B3/2500		
BM (30°-60°)	3551.1	7.1	B3/5000		
BH (60°-80°)	1539.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	54.7	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°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7790.5	7656.7	7577.8	7382.3	7186.7	7028.9	6816.3	6675.6	6507.5	6346.3
5°	8682.4	8466.3	8205.6	7848.8	7522.9	7190.2	6867.7	6548.7	6212.5	5903.8
7.5°	9437.1	9124.9	8665.3	8191.9	7776.8	7375.4	6998.1	6576.1	6167.9	5684.2
10°	10013.4	9615.5	9011.7	8390.8	7914.0	7509.2	7142.1	6785.4	6373.7	5790.6
12.5°	10363.3	9937.9	9221.0	8493.7	7948.3	7495.5	7210.8	7053.0	6891.7	6312.0
15°	10620.6	10160.9	9368.5	8565.8	7869.4	7313.7	7104.4	7262.2	7447.5	7077.0
17.5°	10888.2	10404.5	9560.6	8596.6	7656.7	6960.3	6871.1	7279.4	7708.2	7691.0
20°	11142.0	10661.8	9728.7	8576.1	7313.7	6531.5	6610.4	7131.9	7629.3	7838.5
22.5°	11433.6	10925.9	9889.9	8497.2	6867.7	6130.2	6377.2	6898.6	7334.2	7581.2
25°	11790.4	11258.7	10116.3	8380.5	6387.4	5797.4	6140.5	6627.6	6980.9	7152.4
27.5°	12174.6	11656.6	10418.2	8318.8	5999.8	5560.7	5872.9	6305.1	6620.7	6740.8
30°	12651.4	12119.7	10775.0	8250.2	5746.0	5423.5	5595.0	5931.2	6239.9	6360.0
32.5°	13172.8	12634.3	11118.0	8085.5	5591.6	5320.6	5324.0	5536.7	5818.0	5962.1
35°	13824.6	13251.7	11485.1	7725.3	5468.1	5200.5	5059.9	5162.8	5396.1	5567.6
37.5°	14754.3	14061.3	11934.4	7210.8	5286.3	5015.3	4782.0	4806.0	4984.4	5173.1
40°	16037.2	15148.8	12462.7	6675.6	5025.6	4754.6	4476.7	4466.4	4596.8	4782.0
42.5°	17773.0	16586.1	13097.4	6164.5	4775.2	4439.0	4154.2	4137.1	4240.0	4401.2
45°	20064.6	18424.8	13876.1	5725.4	4579.6	4130.2	3848.9	3842.1	3927.8	4068.5
47.5°	22997.6	20980.5	14654.8	5426.9	4476.7	3886.7	3598.5	3612.2	3687.7	3814.6
50°	26795.0	24311.4	14891.5	5276.0	4476.7	3756.3	3375.5	3444.1	3505.9	3601.9
52.5°	31347.2	27508.6	14109.3	5138.8	4504.1	3773.5	3186.9	3334.4	3379.0	3461.3
55°	35566.6	29076.3	12130.0	4950.1	4511.0	3879.8	3025.6	3245.2	3327.5	3358.4
57.5°	38016.0	28537.7	9807.6	4631.1	4483.6	3951.8	2922.7	3135.4	3293.2	3313.8
60°	37549.4	26647.5	7221.0	4387.5	4281.2	3924.4	2891.8	2967.3	3217.7	3248.6
62.5°	33954.3	23477.8	5011.8	4198.8	3835.2	3804.3	2881.6	2703.2	3053.1	3128.5
65°	27292.5	18483.1	3540.2	3615.7	3361.8	3543.6	2826.7	2428.7	2854.1	2957.0
67.5°	19800.4	12507.3	2555.7	2929.6	3046.2	3121.7	2703.2	2229.8	2627.7	2764.9
70°	12706.3	6754.5	1794.1	1934.8	2566.0	2651.7	2490.5	2051.4	2397.9	2555.7
72.5°	9032.3	3989.6	1289.8	1355.0	2061.7	2209.2	2192.0	1852.4	2130.3	2322.4
75°	6233.1	2198.9	871.3	967.4	1495.7	1794.1	1691.2	1591.7	1804.4	1999.9
77.5°	3907.3	984.5	521.4	672.4	981.1	1409.9	1159.5	1231.5	1406.5	1588.3
80°	2174.9	380.8	291.6	446.0	535.1	1025.7	641.5	792.4	1036.0	1166.3
82.5°	473.4	48.0	130.4	192.1	209.3	596.9	339.6	459.7	651.8	641.5
85°	0.0	0.0	24.0	27.4	13.7	257.3	123.5	150.9	212.7	199.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
6202.2	2.5°	6174.8	6006.7	5883.2	5821.4	5770.0	5818.0	5845.4	5845.4	5962.1	6030.7
5715.1	5°	5595.0	5293.1	5063.3	4908.9	4816.3	4847.2	4881.5	4919.2	5066.7	5166.2
5426.9	7.5°	5193.7	4730.6	4380.7	4164.5	4051.3	4068.5	4092.5	4123.4	4267.4	4366.9
5468.1	10°	5118.2	4452.7	3958.7	3674.0	3536.8	3512.8	3499.0	3488.7	3574.5	3650.0
5934.6	12.5°	5426.9	4466.4	3776.9	3430.4	3262.3	3190.3	3108.0	3042.8	3056.5	3104.5
6641.3	15°	5979.2	4641.4	3718.6	3303.5	3094.2	2974.2	2878.1	2799.2	2782.1	2799.2
7258.8	17.5°	6610.4	4878.1	3711.7	3193.7	2933.0	2809.5	2730.6	2658.6	2634.6	2638.0
7605.3	20°	7028.9	5066.7	3691.1	3070.2	2778.6	2668.9	2600.3	2528.2	2504.2	2511.1
7509.2	22.5°	7070.1	5166.2	3660.3	2933.0	2624.3	2531.7	2463.0	2397.9	2394.4	2394.4
7149.0	25°	6847.1	5166.2	3595.1	2809.5	2476.8	2394.4	2332.7	2253.8	2267.5	2274.4
6740.8	27.5°	6500.7	5042.7	3471.6	2710.0	2349.8	2264.1	2202.3	2130.3	2147.4	2157.7
6360.0	30°	6157.6	4884.9	3324.1	2596.8	2229.8	2130.3	2085.7	2024.0	2030.8	2044.5
5982.7	32.5°	5838.6	4716.8	3149.1	2504.2	2109.7	2010.2	1975.9	1907.3	1917.6	1931.3
5612.2	35°	5523.0	4531.6	2943.3	2394.4	1999.9	1900.5	1873.0	1794.1	1801.0	1821.6
5241.7	37.5°	5183.4	4336.1	2775.2	2284.7	1893.6	1790.7	1763.2	1680.9	1687.8	1711.8
4857.5	40°	4826.6	4144.0	2610.6	2168.0	1780.4	1677.5	1653.5	1564.3	1571.1	1598.6
4480.1	42.5°	4466.4	3934.7	2483.6	2017.1	1663.8	1554.0	1530.0	1447.6	1457.9	1488.8
4150.8	45°	4133.7	3684.3	2401.3	1849.0	1554.0	1430.5	1406.5	1331.0	1351.6	1385.9
3872.9	47.5°	3848.9	3427.0	2367.0	1708.4	1437.3	1303.6	1283.0	1221.2	1255.5	1293.3
3636.2	50°	3605.4	3180.0	2322.4	1564.3	1327.6	1193.8	1173.2	1132.0	1176.6	1214.4
3475.0	52.5°	3430.4	2898.7	2226.3	1433.9	1231.5	1101.2	1094.3	1073.7	1114.9	1149.2
3355.0	55°	3279.5	2607.1	2072.0	1320.7	1145.8	1022.3	1029.1	1018.8	1053.1	1080.6
3282.9	57.5°	3142.3	2353.3	1876.4	1231.5	1053.1	953.7	974.2	960.5	977.7	994.8
3207.4	60°	2977.6	2096.0	1643.2	1132.0	943.4	885.0	909.1	871.3	867.9	874.8
3070.2	62.5°	2734.0	1749.5	1399.6	1008.5	847.3	809.6	819.9	747.8	692.9	692.9
2867.8	65°	2394.4	1406.5	1173.2	871.3	737.5	706.7	699.8	596.9	521.4	514.6
2648.3	67.5°	1999.9	1156.1	974.2	734.1	614.0	593.5	600.3	524.9	449.4	442.5
2428.7	70°	1629.5	957.1	785.6	586.6	473.4	494.0	524.9	449.4	377.3	367.1
2171.5	72.5°	1324.1	761.6	614.0	449.4	349.9	408.2	446.0	367.1	298.4	291.6
1852.4	75°	1022.3	559.2	439.1	305.3	253.9	315.6	349.9	267.6	212.7	202.4
1433.9	77.5°	682.7	346.5	247.0	192.1	150.9	216.1	233.3	140.6	123.5	120.1
1042.8	80°	415.1	161.2	106.3	92.6	51.5	78.9	92.6	58.3	65.2	68.6
555.7	82.5°	209.3	44.6	17.2	3.4	0.0	0.0	27.4	13.7	27.4	34.3
150.9	85°	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.2
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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
6058.1	2.5°	6250.2	6394.3	6531.5	6751.1	6977.5	7200.5	7426.9	7646.4	7725.3	7783.6
5231.4	5°	5529.8	5800.8	6116.4	6552.1	7018.6	7498.9	7986.0	8432.0	8634.4	8771.6
4452.7	7.5°	4785.4	5138.8	5591.6	6246.8	6977.5	7742.5	8507.5	9210.7	9536.6	9800.7
3718.6	10°	4047.9	4432.1	5005.0	5752.8	6740.8	7838.5	8895.1	9862.5	10284.4	10617.2
3190.3	12.5°	3399.6	3759.7	4360.1	5186.8	6370.3	7763.0	9118.1	10281.0	10778.4	11152.3
2812.9	15°	2943.3	3197.2	3728.9	4620.8	5931.2	7519.5	9131.8	10479.9	11025.4	11416.5
2655.1	17.5°	2689.5	2775.2	3121.7	4044.5	5444.1	7200.5	9004.9	10548.6	11131.7	11495.4
2514.5	20°	2552.2	2566.0	2662.0	3296.6	4819.7	6902.0	8884.8	10617.2	11231.2	11536.5
2415.0	22.5°	2442.5	2442.5	2466.5	2696.3	4013.6	6545.2	8847.1	10737.2	11368.4	11557.1
2301.8	25°	2343.0	2343.0	2349.8	2411.6	3180.0	5999.8	8823.1	10922.5	11557.1	11608.6
2188.6	27.5°	2240.1	2243.5	2243.5	2277.8	2562.5	5258.8	8720.1	11162.6	11783.5	11677.2
2078.8	30°	2137.2	2144.0	2144.0	2168.0	2267.5	4390.9	8517.7	11450.8	12078.5	11766.4
1969.1	32.5°	2034.2	2041.1	2041.1	2061.7	2133.7	3505.9	8263.9	11714.9	12377.0	11804.1
1862.7	35°	1927.9	1938.2	1931.3	1958.8	2034.2	2788.9	7941.4	11979.0	12699.4	11924.2
1759.8	37.5°	1821.6	1828.4	1825.0	1852.4	1938.2	2408.2	7567.5	12178.0	13138.5	12191.7
1650.0	40°	1715.2	1711.8	1711.8	1742.7	1835.3	2298.4	7097.5	12493.6	13769.7	12661.7
1540.3	42.5°	1605.4	1605.4	1598.6	1632.9	1746.1	2216.1	6648.2	13059.6	14689.1	13409.5
1437.3	45°	1506.0	1502.5	1488.8	1519.7	1660.3	2072.0	6490.4	14116.2	16047.5	14620.5
1334.4	47.5°	1409.9	1406.5	1372.2	1399.6	1557.4	1941.6	7080.4	15845.1	17930.8	16400.9
1252.1	50°	1324.1	1327.6	1262.4	1286.4	1454.5	1842.1	8359.9	18088.6	20431.6	18798.7
1183.5	52.5°	1245.2	1245.2	1159.5	1173.2	1327.6	1752.9	9577.7	20520.8	23731.7	22143.4
1111.5	55°	1166.3	1159.5	1063.4	1070.3	1200.6	1626.0	9759.6	22894.7	28232.4	27175.8
1032.6	57.5°	1077.2	1063.4	974.2	974.2	1084.0	1533.4	8459.4	24719.6	33817.1	34571.8
885.0	60°	967.4	957.1	898.8	881.6	991.4	1615.7	5968.9	24932.3	37419.1	44406.8
703.2	62.5°	826.7	840.5	809.6	785.6	902.2	1677.5	3536.8	23220.5	36547.7	47535.4
545.4	65°	651.8	706.7	699.8	682.7	991.4	1413.3	2089.1	19934.2	33875.4	45010.6
476.8	67.5°	555.7	593.5	583.2	583.2	1039.4	1073.7	1313.9	15574.1	30198.0	42015.8
397.9	70°	473.4	511.1	473.4	473.4	785.6	651.8	909.1	10874.4	26229.0	38702.0
319.0	72.5°	391.1	428.8	387.6	360.2	627.8	487.1	665.5	6795.7	22462.4	35251.0
226.4	75°	298.4	343.0	312.2	277.9	415.1	363.6	504.3	3948.4	18610.1	30160.3
137.2	77.5°	188.7	247.0	233.3	195.5	305.3	264.1	363.6	2349.8	14359.8	23567.0
82.3	80°	116.6	126.9	130.4	123.5	175.0	178.4	247.0	1337.9	9828.2	16424.9
51.5	82.5°	75.5	75.5	58.3	65.2	85.8	102.9	140.6	504.3	5776.8	9999.7
30.9	85°	54.9	48.0	30.9	30.9	41.2	51.5	54.9	154.4	2343.0	3948.4
13.7	87.5°	27.4	24.0	10.3	13.7	20.6	17.2	13.7	6.9	590.0	1262.4
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°
6895.2	0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
7914.0	2.5°	7982.6	8088.9	8095.8	8095.8	8003.2	7999.7	7811.1	7790.5
9080.3	5°	9399.4	9468.0	9485.1	9450.8	9265.6	9128.4	8761.3	8682.4
10270.7	7.5°	10696.1	10833.3	10833.3	10750.9	10449.1	10167.8	9636.1	9437.1
11255.2	10°	11732.1	11889.9	11855.5	11687.5	11306.7	10919.0	10274.1	10013.4
11852.1	12.5°	12236.3	12397.6	12308.4	12116.3	11745.8	11337.6	10658.3	10363.3
12023.6	15°	12226.0	12181.4	12088.8	12064.8	11886.4	11577.7	10943.1	10620.6
11917.3	17.5°	11790.4	11413.0	11341.0	11581.1	11807.5	11732.1	11190.0	10888.2
11663.4	20°	11100.9	10442.2	10377.0	10836.7	11481.6	11811.0	11419.9	11142.0
11296.4	22.5°	10373.6	9663.5	9512.6	10020.3	10991.1	11835.0	11711.5	11433.6
10891.6	25°	9684.1	8970.6	8819.6	9293.0	10445.6	11793.8	12027.1	11790.4
10504.0	27.5°	9107.8	8418.3	8277.6	8751.0	9920.8	11677.2	12342.7	12174.6
10119.8	30°	8661.8	8023.8	7920.8	8377.1	9468.0	11533.1	12744.0	12651.4
9763.0	32.5°	8401.1	7934.6	7972.3	8346.2	9224.4	11375.3	13128.2	13172.8
9588.0	35°	8658.4	8679.0	9008.3	9162.7	9450.8	11351.3	13649.7	13824.6
9797.3	37.5°	9937.9	10651.5	11334.1	11207.2	10558.8	11629.1	14428.4	14754.3
10709.8	40°	12116.3	13581.0	14689.1	14205.4	12572.5	12479.9	15550.1	16037.2
12328.9	42.5°	14778.3	17261.9	19086.9	17790.2	15169.3	13968.7	17152.1	17773.0
14287.7	45°	17587.8	21800.3	24675.0	21978.7	17937.7	16054.4	19577.4	20064.6
16123.0	47.5°	20548.2	27316.5	31035.0	26623.5	20503.6	18428.2	22884.4	22997.6
17862.2	50°	23786.6	33364.3	37518.5	31264.9	22980.4	21148.6	26925.4	26795.0
19889.6	52.5°	26870.5	39583.7	43864.8	35926.8	25155.3	24524.1	31614.8	31347.2
22661.4	55°	29813.8	45799.6	50248.9	40407.0	27206.7	28983.7	37185.8	35566.6
26657.8	57.5°	33227.1	51387.8	56828.4	44907.7	30074.5	34774.2	43415.4	38016.0
34311.1	60°	38273.2	57737.5	64269.0	51075.6	35528.9	40859.8	45648.7	37549.4
43477.2	62.5°	44715.6	63576.1	69678.8	57120.0	41007.3	42005.5	42358.9	33954.3
41607.6	65°	45967.7	65054.6	69984.1	58735.7	40300.6	35631.8	34582.1	27292.5
37165.2	67.5°	42647.0	62382.3	65716.6	55727.2	35649.0	27536.0	25951.2	19800.4
34249.4	70°	38921.6	57288.1	58279.5	50612.5	31354.1	20253.2	17526.0	12706.3
32252.8	72.5°	35103.5	50492.4	48441.0	43954.0	27556.6	14747.4	12641.1	9032.3
29409.0	75°	30568.5	41556.2	38156.6	36520.3	22815.8	11574.3	9145.5	6233.1
25295.9	77.5°	24479.5	29251.2	28342.2	28307.9	17145.3	8456.0	6102.7	3907.3
19762.7	80°	17268.8	18984.0	18520.9	21320.1	11502.2	6133.6	3674.0	2174.9
13756.0	82.5°	8359.9	10497.1	10775.0	12696.0	5595.0	3608.8	847.3	473.4
5378.9	85°	3272.6	5063.3	4270.9	4819.7	1571.1	1005.1	20.6	0.0
885.0	87.5°	367.1	586.6	538.6	425.4	192.1	41.2	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)