

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: P956578

Luminaire Tested: **GALN-SB9A-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956578
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-SB9A-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA 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: 22596 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

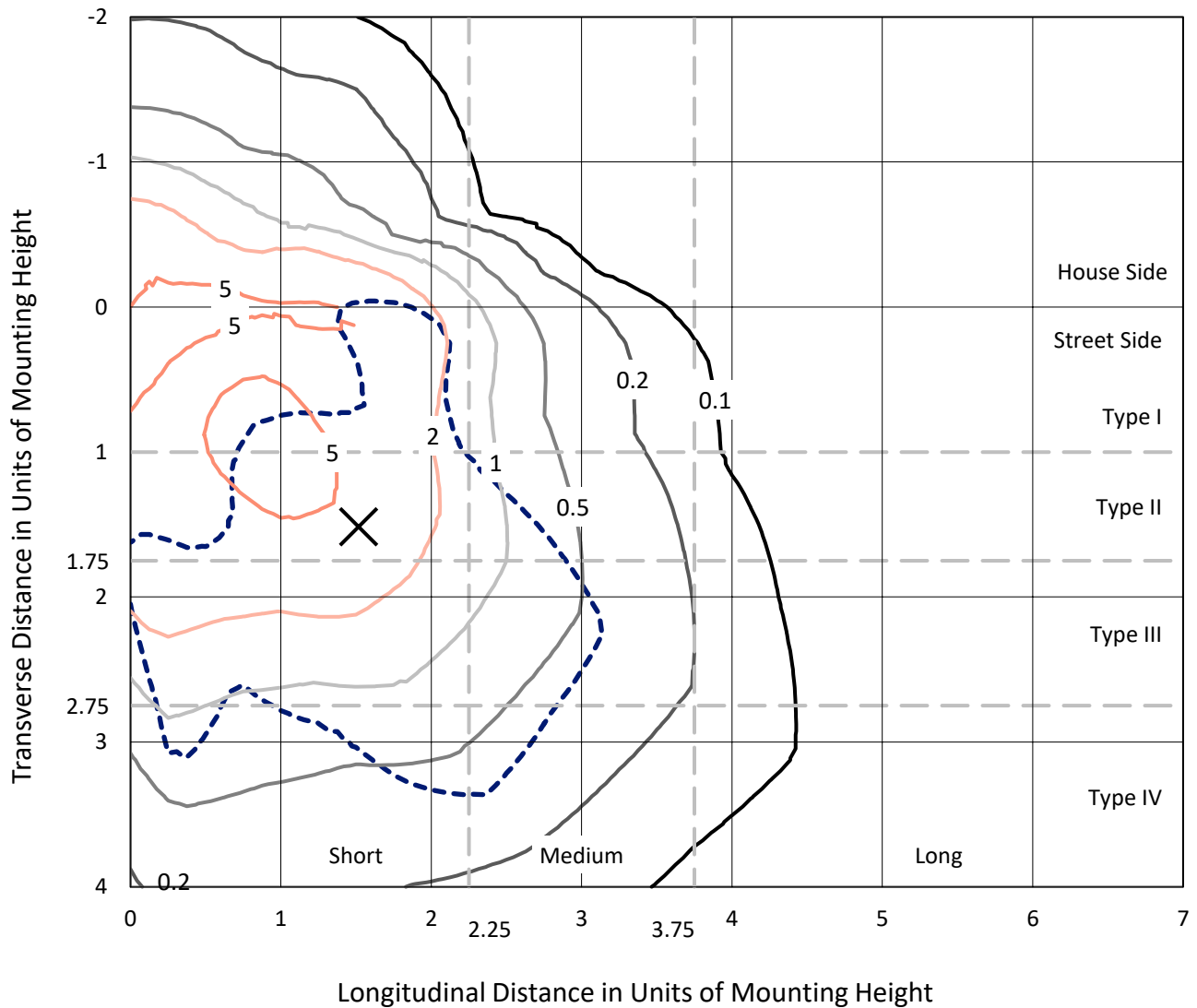
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

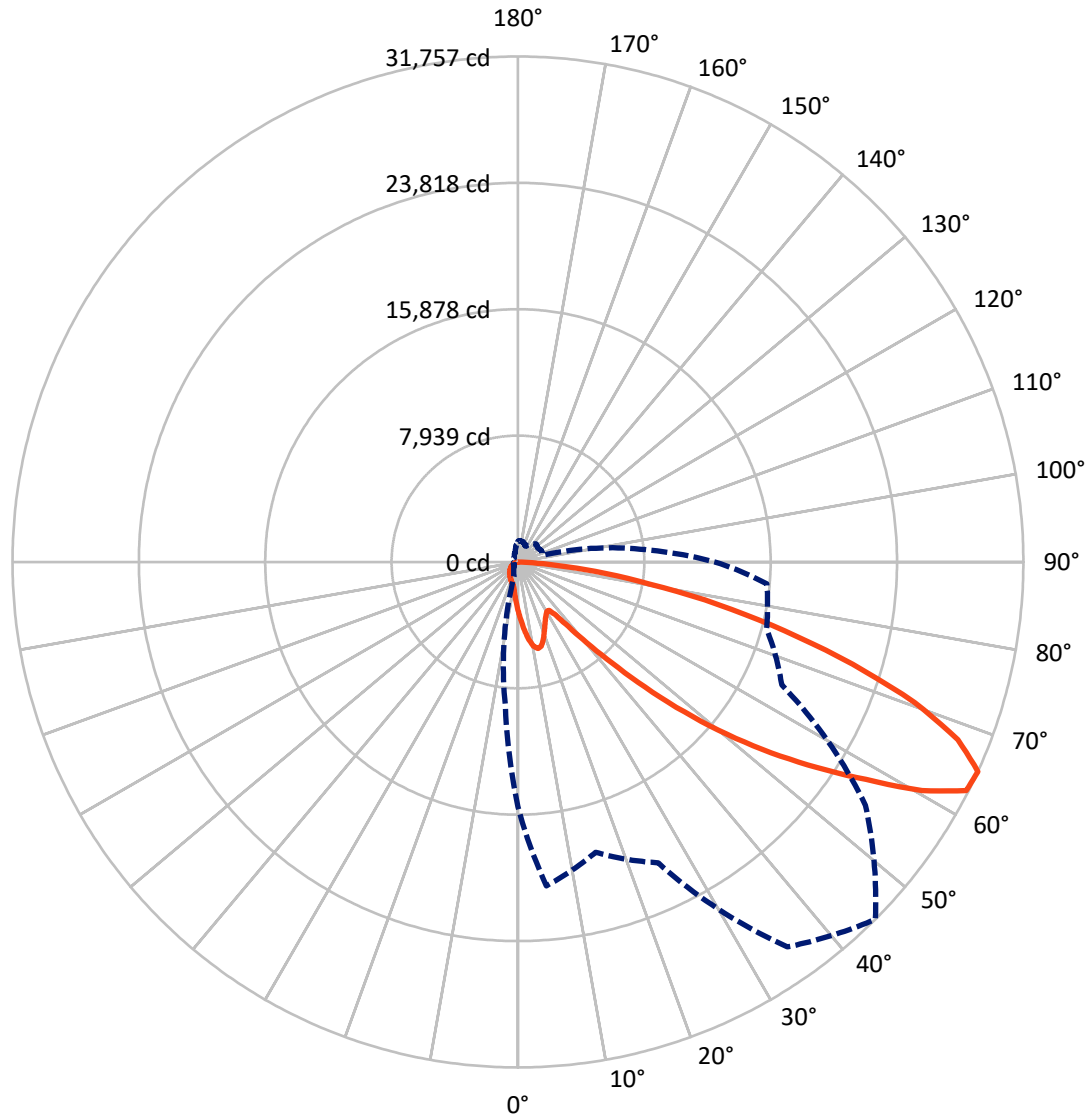
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	4491.4	0.0	4491.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	18104.6	0.0	18104.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	22596.0	0.0	22596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.0	1.4
10°-20°	923.4	4.1
20°-30°	1360.4	6.0
30°-40°	1747.7	7.7
40°-50°	2826.6	12.5
50°-60°	4956.7	21.9
60°-70°	6202.2	27.4
70°-80°	3624.3	16.0
80°-90°	646.6	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°	22596.0	100.0
0°-180°	22596.0	100.0

Coefficient of Utilization



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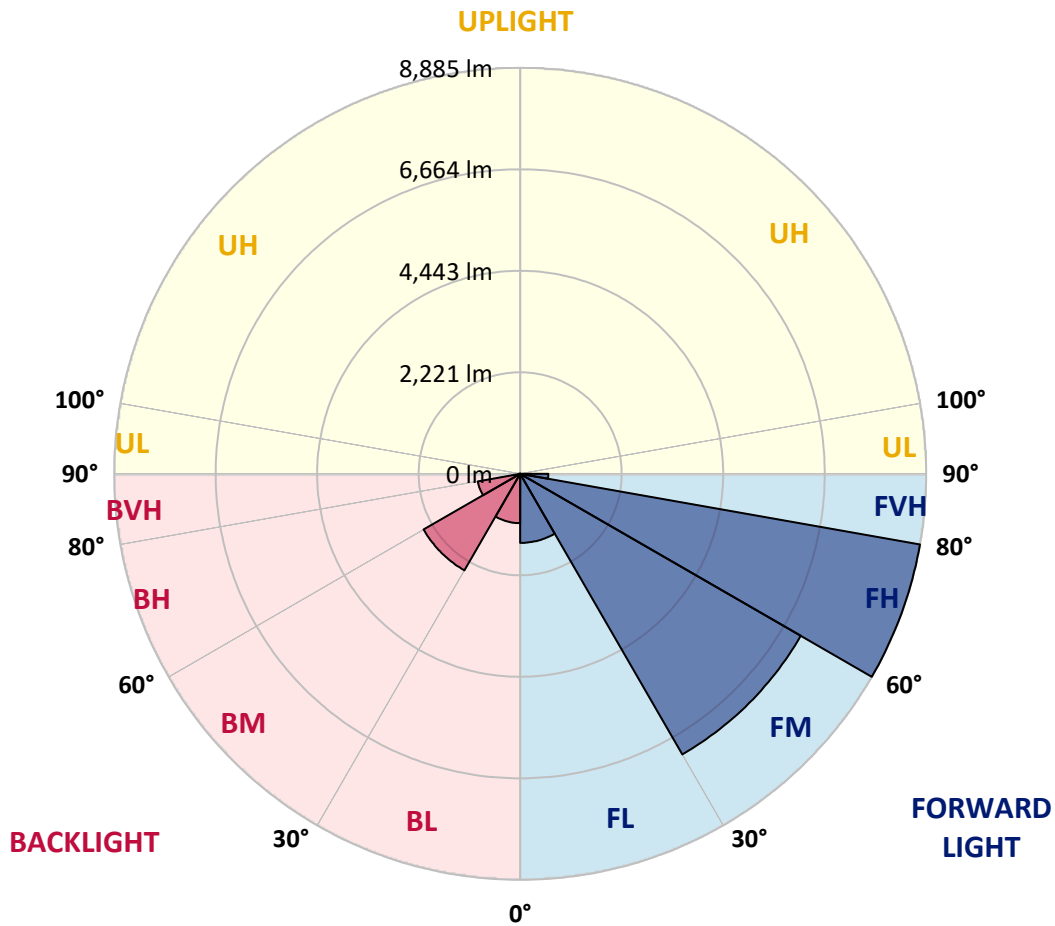
CATALOG NUMBER: GALN-SB9A-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.9	6.7			
FM (30°-60°)	7090.9	31.4			
FH (60°-80°)	8885.5	39.3			G4/12000
FVH (80°-90°)	616.3	2.7			G4/750
BL (0°-30°)	1079.9	4.8	B3/2500		
BM (30°-60°)	2440.1	10.8	B2/2500		
BH (60°-80°)	941.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	30.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2.5°	3505.5	3532.0	3591.1	3622.3	3670.5	3673.6	3673.6	3631.6	3630.1	3544.4
5°	3918.0	3980.3	4120.4	4265.2	4296.3	4304.1	4288.5	4204.5	4142.2	3975.6
7.5°	4327.4	4447.3	4660.5	4853.6	4915.8	4915.8	4878.5	4741.5	4613.8	4372.6
10°	4666.8	4817.8	5107.3	5323.7	5395.3	5379.7	5303.4	5130.6	4954.7	4662.1
12.5°	4890.9	5060.6	5378.2	5552.5	5625.7	5585.2	5498.0	5329.9	5144.7	4836.4
15°	5003.0	5180.5	5456.0	5547.8	5527.6	5485.6	5474.7	5393.7	5253.6	4965.6
17.5°	5051.3	5216.3	5407.7	5350.1	5178.9	5146.2	5255.2	5357.9	5323.7	5077.7
20°	5096.4	5234.9	5292.5	5037.2	4738.4	4708.8	4917.4	5210.0	5359.5	5182.0
22.5°	5158.7	5244.3	5126.0	4707.2	4385.0	4316.5	4546.9	4987.4	5370.4	5314.3
25°	5244.3	5267.6	4942.3	4394.4	4070.6	4002.1	4216.9	4739.9	5351.7	5457.5
27.5°	5347.0	5298.8	4766.4	4132.8	3820.0	3756.1	3971.0	4501.8	5298.8	5600.7
30°	5480.9	5339.2	4592.1	3930.5	3641.0	3594.3	3801.3	4296.3	5233.4	5782.9
32.5°	5616.3	5356.4	4430.2	3812.2	3600.5	3617.6	3787.3	4185.8	5161.8	5957.2
35°	5762.6	5410.8	4350.8	3928.9	3938.3	4087.7	4157.8	4288.5	5150.9	6193.8
37.5°	5961.9	5532.3	4445.7	4509.6	4833.3	5143.1	5085.5	4791.3	5277.0	6547.2
40°	6248.3	5745.5	4859.8	5498.0	6162.7	6665.5	6446.0	5705.0	5663.0	7056.2
42.5°	6665.5	6084.9	5594.5	6706.0	7833.0	8661.1	8072.7	6883.4	6338.6	7783.1
45°	7281.9	6634.4	6483.4	7980.8	9892.4	11196.8	9973.3	8139.6	7285.0	8883.7
47.5°	8136.5	7442.2	7316.2	9324.2	12395.4	14082.8	12081.0	9304.0	8362.2	10384.3
50°	9271.3	8530.3	8105.4	10793.7	15139.8	17024.8	14187.1	10427.9	9596.6	12218.0
52.5°	10768.8	10048.0	9025.3	12193.1	17961.9	19904.6	16302.6	11414.8	11128.3	14345.9
55°	12811.1	12331.6	10283.1	13528.7	20782.5	22801.5	18335.5	12345.6	13152.0	16873.9
57.5°	15345.2	15687.7	12096.6	15077.5	23318.3	25787.1	20377.8	13647.0	15779.5	19700.7
60°	16979.7	20150.6	15569.4	17367.3	26199.6	29163.4	23176.6	16122.0	18541.0	20714.1
62.5°	16584.3	21570.2	19728.7	20290.7	28849.0	31618.2	25919.4	18607.9	19060.9	19221.2
65°	15371.7	20424.5	18880.3	20858.8	29519.9	31756.8	26652.6	18287.3	16168.7	15692.4
67.5°	13703.0	19065.6	16864.5	19352.0	28307.3	29820.3	25287.4	16176.5	12495.1	11775.9
70°	11902.0	17561.9	15541.4	17661.5	25995.7	26445.6	22966.5	14227.6	9190.3	7952.8
72.5°	10192.8	15995.9	14635.4	15929.0	22912.0	21981.1	19945.1	12504.4	6691.9	5736.2
75°	8444.7	13685.9	13345.0	13871.1	18857.0	17314.4	16571.9	10353.1	5252.1	4150.0
77.5°	6516.0	10694.0	11478.6	11108.1	13273.4	12860.9	12845.3	7780.0	3837.1	2769.2
80°	4459.7	7453.1	8967.7	7836.1	8614.4	8404.2	9674.4	5219.4	2783.3	1667.1
82.5°	2621.4	4537.6	6242.1	3793.5	4763.3	4889.4	5761.1	2538.9	1637.6	384.5
85°	1063.2	1791.7	2440.8	1485.0	2297.6	1938.0	2187.1	712.9	456.1	9.3
87.5°	267.7	572.8	401.6	166.6	266.2	244.4	193.0	87.2	18.7	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
3535.1	2.5°	3474.4	3438.6	3349.9	3261.1	3189.5	3093.0	3029.2	2952.9	2879.8	2814.4
3939.8	5°	3841.8	3723.5	3561.6	3413.7	3262.7	3116.4	2971.6	2819.1	2679.0	2593.3
4282.3	7.5°	4140.6	3932.0	3717.2	3528.9	3346.8	3175.5	2984.1	2798.8	2579.3	2462.6
4543.8	10°	4363.2	4089.3	3807.5	3591.1	3407.5	3240.9	3079.0	2892.2	2627.6	2481.3
4702.6	12.5°	4509.6	4184.2	3854.2	3606.7	3401.2	3272.0	3200.4	3127.3	2864.2	2693.0
4819.3	15°	4610.7	4251.2	3886.9	3570.9	3318.7	3223.8	3295.4	3379.4	3211.3	3013.6
4940.7	17.5°	4721.3	4338.3	3900.9	3474.4	3158.4	3117.9	3303.2	3497.7	3490.0	3293.8
5055.9	20°	4838.0	4414.6	3891.6	3318.7	2963.8	2999.6	3236.2	3461.9	3556.9	3451.0
5188.2	22.5°	4957.9	4487.8	3855.8	3116.4	2781.7	2893.8	3130.4	3328.1	3440.1	3407.5
5350.1	25°	5108.9	4590.5	3802.8	2898.4	2630.7	2786.4	3007.4	3167.7	3245.6	3244.0
5524.5	27.5°	5289.4	4727.5	3774.8	2722.5	2523.3	2664.9	2861.1	3004.3	3058.8	3058.8
5740.8	30°	5499.6	4889.4	3743.7	2607.4	2461.0	2538.9	2691.4	2831.5	2886.0	2886.0
5977.5	32.5°	5733.1	5045.0	3669.0	2537.3	2414.3	2415.9	2512.4	2640.0	2705.4	2714.8
6273.2	35°	6013.3	5211.6	3505.5	2481.3	2359.8	2296.0	2342.7	2448.6	2526.4	2546.6
6695.1	37.5°	6380.6	5415.5	3272.0	2398.8	2275.8	2169.9	2180.8	2261.8	2347.4	2378.5
7277.2	40°	6874.1	5655.2	3029.2	2280.5	2157.5	2031.4	2026.7	2085.9	2169.9	2204.2
8064.9	42.5°	7526.3	5943.2	2797.3	2166.8	2014.3	1885.1	1877.3	1924.0	1997.2	2033.0
9104.7	45°	8360.7	6296.6	2598.0	2078.1	1874.2	1746.5	1743.4	1782.3	1846.2	1883.5
10435.6	47.5°	9520.3	6649.9	2462.6	2031.4	1763.7	1632.9	1639.1	1673.4	1731.0	1757.4
12158.8	50°	11031.8	6757.3	2394.1	2031.4	1704.5	1531.7	1562.9	1590.9	1634.5	1650.0
14224.5	52.5°	12482.6	6402.4	2331.8	2043.9	1712.3	1446.1	1513.0	1533.3	1570.6	1576.9
16139.1	55°	13194.0	5504.2	2246.2	2047.0	1760.5	1372.9	1472.6	1509.9	1523.9	1522.4
17250.6	57.5°	12949.6	4450.4	2101.4	2034.5	1793.2	1326.2	1422.8	1494.4	1503.7	1489.7
17038.9	60°	12091.9	3276.7	1990.9	1942.7	1780.8	1312.2	1346.5	1460.1	1474.1	1455.4
15407.5	62.5°	10653.6	2274.2	1905.3	1740.3	1726.3	1307.6	1226.6	1385.4	1419.6	1393.2
12384.5	65°	8387.1	1606.4	1640.7	1525.5	1608.0	1282.7	1102.1	1295.1	1341.8	1301.3
8984.9	67.5°	5675.5	1159.7	1329.4	1382.3	1416.5	1226.6	1011.8	1192.4	1254.6	1201.7
5765.8	70°	3065.0	814.1	877.9	1164.4	1203.3	1130.1	930.9	1088.1	1159.7	1102.1
4098.6	72.5°	1810.4	585.3	614.9	935.5	1002.5	994.7	840.6	966.7	1053.8	985.3
2828.4	75°	997.8	395.4	439.0	678.7	814.1	767.4	722.3	818.8	907.5	840.6
1773.0	77.5°	446.8	236.6	305.1	445.2	639.8	526.1	558.8	638.2	720.7	650.7
986.9	80°	172.8	132.3	202.4	242.8	465.4	291.1	359.6	470.1	529.3	473.2
214.8	82.5°	21.8	59.2	87.2	95.0	270.9	154.1	208.6	295.8	291.1	252.2
0.0	85°	0.0	10.9	12.5	6.2	116.7	56.0	68.5	96.5	90.3	68.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2801.9	2.5°	2725.7	2669.6	2641.6	2618.2	2640.0	2652.5	2652.5	2705.4	2736.6	2749.0
2538.9	5°	2401.9	2297.6	2227.5	2185.5	2199.5	2215.1	2232.2	2299.1	2344.3	2373.9
2356.7	7.5°	2146.6	1987.8	1889.7	1838.4	1846.2	1857.1	1871.1	1936.4	1981.6	2020.5
2322.5	10°	2020.5	1796.3	1667.1	1604.9	1594.0	1587.8	1583.1	1622.0	1656.3	1687.4
2462.6	12.5°	2026.7	1713.8	1556.6	1480.4	1447.7	1410.3	1380.7	1387.0	1408.7	1447.7
2713.2	15°	2106.1	1687.4	1499.0	1404.1	1349.6	1306.0	1270.2	1262.4	1270.2	1276.4
2999.6	17.5°	2213.5	1684.3	1449.2	1330.9	1274.9	1239.1	1206.4	1195.5	1197.0	1204.8
3189.5	20°	2299.1	1674.9	1393.2	1260.9	1211.1	1179.9	1147.2	1136.3	1139.5	1141.0
3208.2	22.5°	2344.3	1660.9	1330.9	1190.8	1148.8	1117.7	1088.1	1086.5	1086.5	1095.9
3107.0	25°	2344.3	1631.3	1274.9	1123.9	1086.5	1058.5	1022.7	1028.9	1032.0	1044.5
2949.8	27.5°	2288.2	1575.3	1229.7	1066.3	1027.4	999.4	966.7	974.4	979.1	993.1
2794.1	30°	2216.6	1508.4	1178.4	1011.8	966.7	946.4	918.4	921.5	927.8	943.3
2649.4	32.5°	2140.4	1429.0	1136.3	957.3	912.2	896.6	865.5	870.2	876.4	893.5
2506.2	35°	2056.3	1335.6	1086.5	907.5	862.4	849.9	814.1	817.2	826.6	845.2
2352.1	37.5°	1967.6	1259.3	1036.7	859.3	812.6	800.1	762.7	765.9	776.8	798.6
2190.2	40°	1880.4	1184.6	983.8	807.9	761.2	750.3	709.8	712.9	725.4	748.7
2026.7	42.5°	1785.5	1127.0	915.3	755.0	705.2	694.3	656.9	661.6	675.6	698.9
1875.7	45°	1671.8	1089.6	839.0	705.2	649.1	638.2	604.0	613.3	628.9	652.2
1746.5	47.5°	1555.1	1074.1	775.2	652.2	591.5	582.2	554.2	569.7	586.8	605.5
1636.0	50°	1443.0	1053.8	709.8	602.4	541.7	532.4	513.7	533.9	551.0	568.2
1556.6	52.5°	1315.4	1010.3	650.7	558.8	499.7	496.6	487.2	505.9	521.5	537.0
1488.1	55°	1183.0	940.2	599.3	519.9	463.9	467.0	462.3	477.9	490.3	504.3
1425.9	57.5°	1067.8	851.5	558.8	477.9	432.7	442.1	435.9	443.6	451.4	468.5
1351.2	60°	951.1	745.6	513.7	428.1	401.6	412.5	395.4	393.8	396.9	401.6
1240.6	62.5°	793.9	635.1	457.6	384.5	367.4	372.0	339.3	314.4	314.4	319.1
1086.5	65°	638.2	532.4	395.4	334.7	320.7	317.6	270.9	236.6	233.5	247.5
907.5	67.5°	524.6	442.1	333.1	278.6	269.3	272.4	238.2	203.9	200.8	216.4
739.4	70°	434.3	356.5	266.2	214.8	224.2	238.2	203.9	171.2	166.6	180.6
600.9	72.5°	345.6	278.6	203.9	158.8	185.2	202.4	166.6	135.4	132.3	144.8
463.9	75°	253.7	199.2	138.5	115.2	143.2	158.8	121.4	96.5	91.8	102.7
309.8	77.5°	157.2	112.1	87.2	68.5	98.1	105.9	63.8	56.0	54.5	62.3
188.4	80°	73.2	48.3	42.0	23.3	35.8	42.0	26.5	29.6	31.1	37.4
95.0	82.5°	20.2	7.8	1.6	0.0	0.0	12.5	6.2	12.5	15.6	23.3
7.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	14.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
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°
3128.8	0°	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8	3128.8
2836.2	2.5°	2901.6	2963.8	3063.4	3166.2	3267.4	3370.1	3469.7	3505.5
2509.3	5°	2632.3	2775.5	2973.2	3184.9	3402.8	3623.8	3826.2	3918.0
2171.5	7.5°	2331.8	2537.3	2834.6	3166.2	3513.3	3860.4	4179.5	4327.4
1836.8	10°	2011.2	2271.1	2610.5	3058.8	3556.9	4036.3	4475.3	4666.8
1542.6	12.5°	1706.1	1978.5	2353.6	2890.7	3522.6	4137.5	4665.2	4890.9
1335.6	15°	1450.8	1692.1	2096.8	2691.4	3412.1	4143.7	4755.5	5003.0
1220.4	17.5°	1259.3	1416.5	1835.3	2470.4	3267.4	4086.1	4786.6	5051.3
1158.1	20°	1164.4	1207.9	1495.9	2187.1	3131.9	4031.7	4817.8	5096.4
1108.3	22.5°	1108.3	1119.2	1223.5	1821.3	2970.0	4014.5	4872.2	5158.7
1063.2	25°	1063.2	1066.3	1094.3	1443.0	2722.5	4003.6	4956.3	5244.3
1016.5	27.5°	1018.0	1018.0	1033.6	1162.8	2386.3	3956.9	5065.3	5347.0
969.8	30°	972.9	972.9	983.8	1028.9	1992.5	3865.1	5196.0	5480.9
923.1	32.5°	926.2	926.2	935.5	968.2	1590.9	3749.9	5315.9	5616.3
874.8	35°	879.5	876.4	888.8	923.1	1265.5	3603.6	5435.7	5762.6
826.6	37.5°	829.7	828.1	840.6	879.5	1092.8	3433.9	5526.0	5961.9
778.3	40°	776.8	776.8	790.8	832.8	1042.9	3220.7	5669.2	6248.3
728.5	42.5°	728.5	725.4	741.0	792.3	1005.6	3016.7	5926.1	6665.5
683.4	45°	681.8	675.6	689.6	753.4	940.2	2945.1	6405.5	7281.9
639.8	47.5°	638.2	622.7	635.1	706.7	881.1	3212.9	7190.1	8136.5
600.9	50°	602.4	572.8	583.7	660.0	835.9	3793.5	8208.1	9271.3
565.1	52.5°	565.1	526.1	532.4	602.4	795.4	4346.1	9311.8	10768.8
529.3	55°	526.1	482.6	485.7	544.8	737.8	4428.6	10388.9	12811.1
488.8	57.5°	482.6	442.1	442.1	491.9	695.8	3838.6	11217.1	15345.2
439.0	60°	434.3	407.8	400.1	449.9	733.2	2708.5	11313.6	16979.7
375.1	62.5°	381.4	367.4	356.5	409.4	761.2	1604.9	10536.8	16584.3
295.8	65°	320.7	317.6	309.8	449.9	641.3	948.0	9045.6	15371.7
252.2	67.5°	269.3	264.6	264.6	471.7	487.2	596.2	7067.1	13703.0
214.8	70°	231.9	214.8	214.8	356.5	295.8	412.5	4934.5	11902.0
177.5	72.5°	194.6	175.9	163.4	284.9	221.0	302.0	3083.7	10192.8
135.4	75°	155.7	141.7	126.1	188.4	165.0	228.8	1791.7	8444.7
85.6	77.5°	112.1	105.9	88.7	138.5	119.9	165.0	1066.3	6516.0
52.9	80°	57.6	59.2	56.0	79.4	80.9	112.1	607.1	4459.7
34.2	82.5°	34.2	26.5	29.6	38.9	46.7	63.8	228.8	2621.4
24.9	85°	21.8	14.0	14.0	18.7	23.3	24.9	70.0	1063.2
12.5	87.5°	10.9	4.7	6.2	9.3	7.8	6.2	3.1	267.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)