

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: P955864

Luminaire Tested: **GALN-SB8C-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955864
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-SB8C-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA 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: 33491 lumens
Efficiency: N/A
Efficacy: 83.8 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

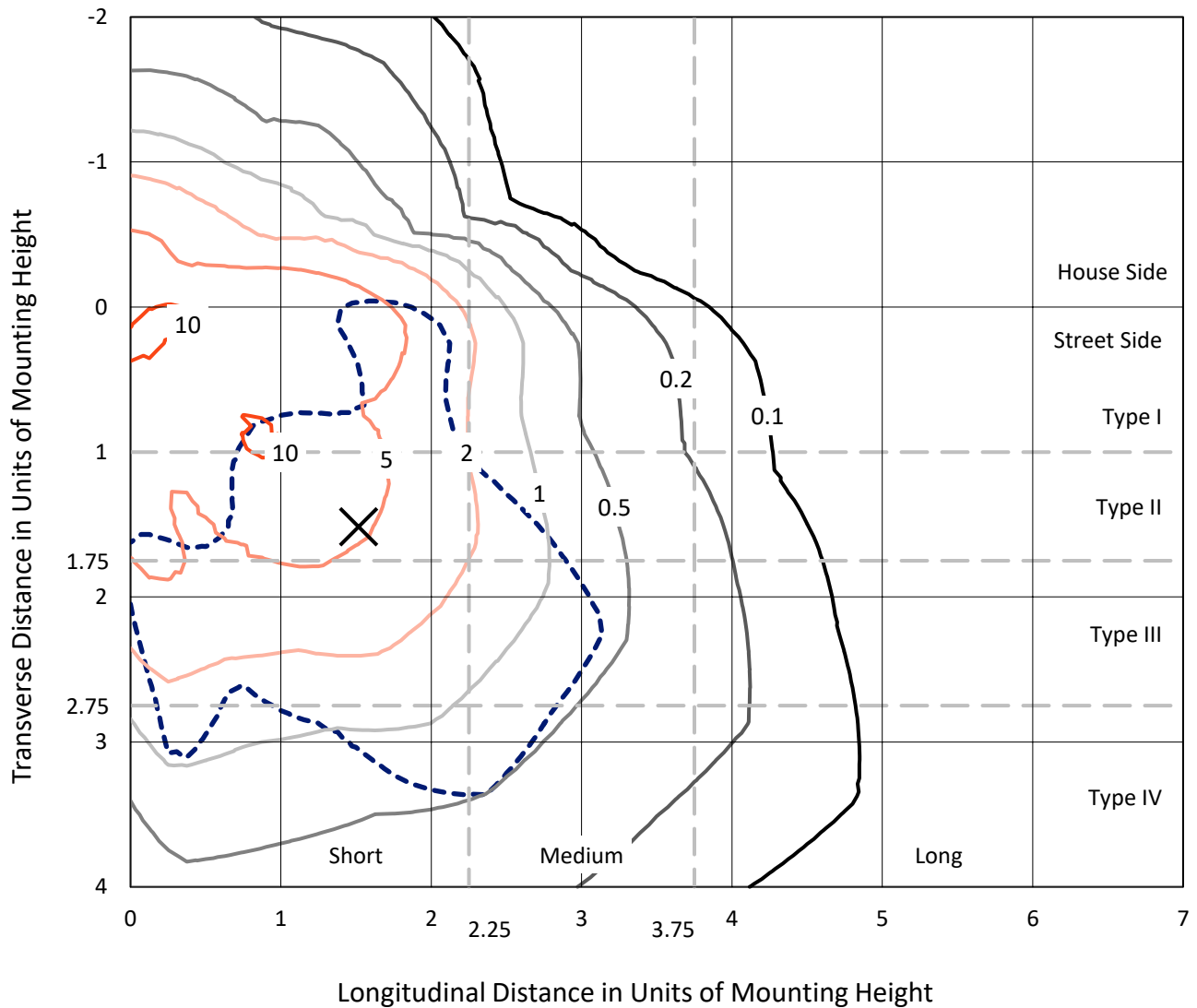
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

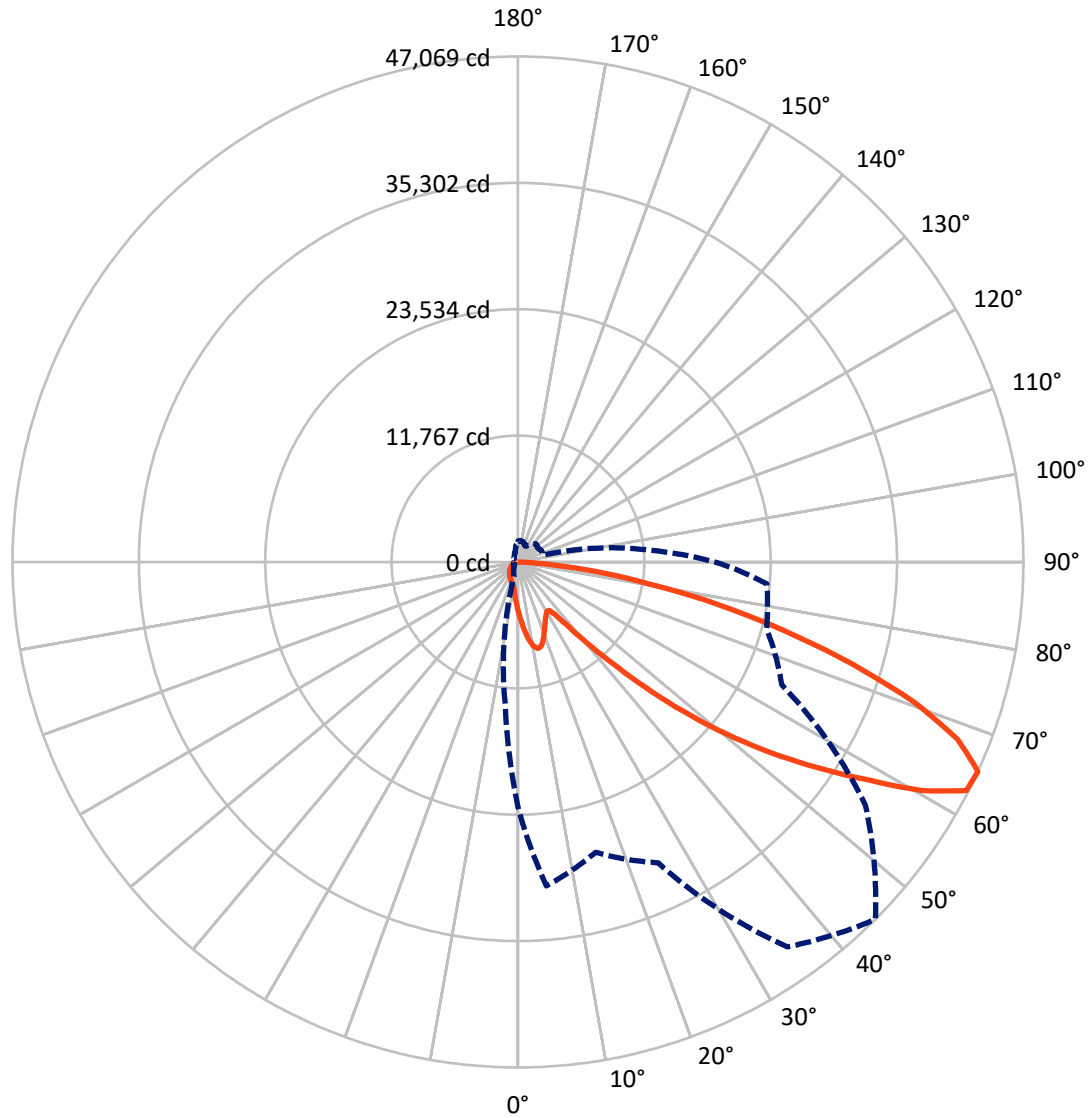
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	6657.0	0.0	6657.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	26834.0	0.0	26834.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	33491.0	0.0	33491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.6	1.4
10°-20°	1368.7	4.1
20°-30°	2016.3	6.0
30°-40°	2590.4	7.7
40°-50°	4189.5	12.5
50°-60°	7346.7	21.9
60°-70°	9192.7	27.4
70°-80°	5371.8	16.0
80°-90°	958.4	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°	33491.0	100.0
0°-180°	33491.0	100.0

Coefficient of Utilization



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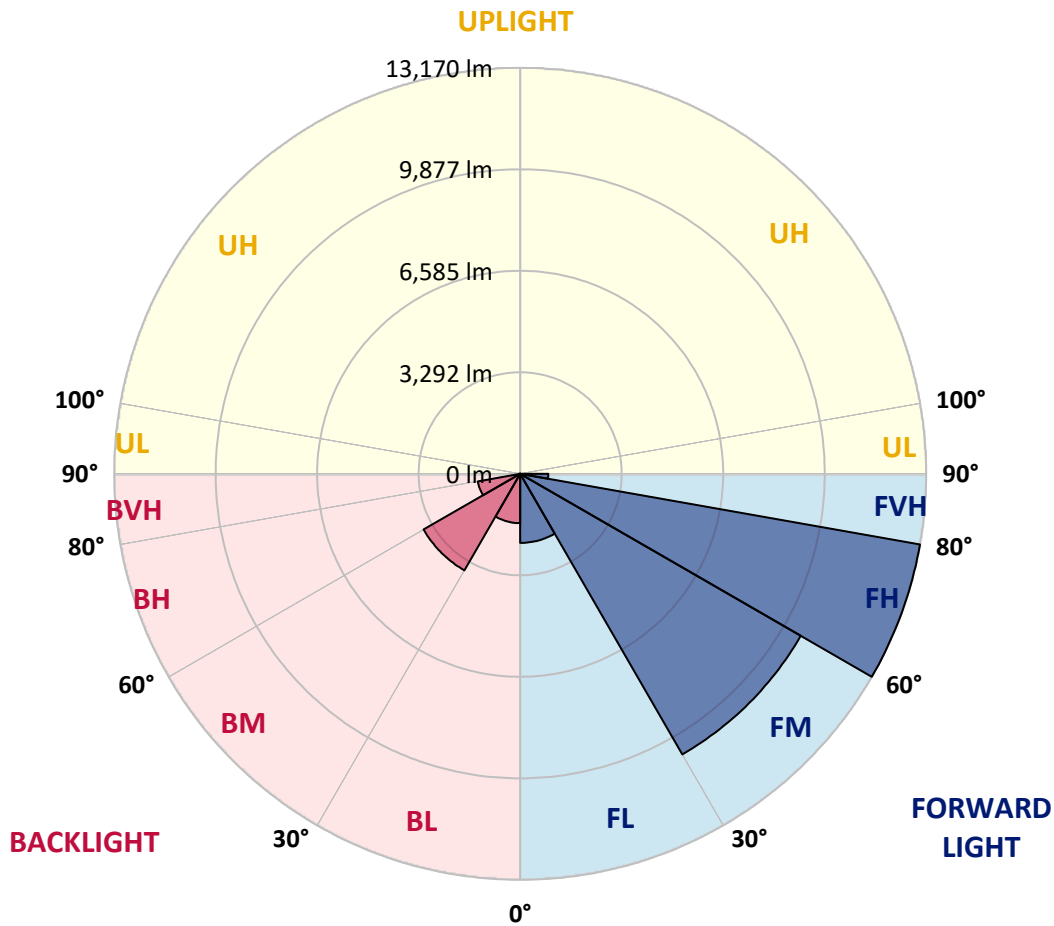
CATALOG NUMBER: GALN-SB8C-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.9	6.7			
FM (30°-60°)	10509.9	31.4			
FH (60°-80°)	13169.7	39.3			G5
FVH (80°-90°)	913.5	2.7			G5
BL (0°-30°)	1600.6	4.8	B3/2500		
BM (30°-60°)	3616.7	10.8	B3/5000		
BH (60°-80°)	1394.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	44.9	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°	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4
2.5°	5195.8	5235.0	5322.7	5368.8	5440.3	5444.9	5444.9	5382.7	5380.3	5253.4
5°	5807.2	5899.5	6107.1	6321.7	6367.8	6379.4	6356.3	6231.7	6139.4	5892.5
7.5°	6414.0	6591.6	6907.7	7193.8	7286.1	7286.1	7230.7	7027.7	6838.5	6480.9
10°	6916.9	7140.7	7569.9	7890.6	7996.7	7973.6	7860.6	7604.5	7343.8	6910.0
12.5°	7249.2	7500.6	7971.3	8229.7	8338.1	8278.2	8149.0	7899.8	7625.2	7168.4
15°	7415.3	7678.3	8086.7	8222.8	8192.8	8130.5	8114.4	7994.4	7786.7	7359.9
17.5°	7486.8	7731.4	8015.1	7929.8	7676.0	7627.5	7789.0	7941.3	7890.6	7526.0
20°	7553.7	7759.0	7844.4	7466.0	7023.1	6979.2	7288.4	7722.1	7943.6	7680.6
22.5°	7646.0	7772.9	7597.5	6976.9	6499.3	6397.8	6739.3	7392.2	7959.8	7876.7
25°	7772.9	7807.5	7325.3	6513.2	6033.3	5931.8	6250.2	7025.4	7932.1	8089.0
27.5°	7925.2	7853.6	7064.6	6125.6	5661.8	5567.2	5885.6	6672.4	7853.6	8301.2
30°	8123.6	7913.6	6806.2	5825.6	5396.5	5327.3	5634.1	6367.8	7756.7	8571.2
32.5°	8324.3	7939.0	6566.2	5650.3	5336.5	5361.9	5613.4	6204.0	7650.6	8829.6
35°	8541.2	8019.8	6448.6	5823.3	5837.2	6058.7	6162.5	6356.3	7634.5	9180.3
37.5°	8836.5	8199.7	6589.3	6683.9	7163.8	7622.9	7537.6	7101.5	7821.3	9704.0
40°	9261.0	8515.8	7203.0	8149.0	9134.1	9879.3	9554.0	8455.8	8393.5	10458.4
42.5°	9879.3	9018.8	8292.0	9939.3	11609.7	12837.1	11965.0	10202.4	9394.8	11535.9
45°	10793.0	9833.2	9609.4	11828.9	14662.1	16595.5	14782.1	12064.2	10797.6	13167.1
47.5°	12059.6	11030.6	10843.7	13820.0	18372.1	20873.1	17906.0	13790.0	12394.2	15391.2
50°	13741.6	12643.3	12013.5	15998.0	22439.6	25233.6	21027.6	15455.8	14223.8	18109.1
52.5°	15961.1	14892.8	13377.0	18072.1	26622.6	29501.9	24163.1	16918.6	16494.0	21263.0
55°	18988.1	18277.5	15241.2	20051.7	30803.2	33795.6	27176.3	18298.2	19493.4	25009.8
57.5°	22744.2	23251.8	17929.1	22347.3	34561.6	38220.7	30203.3	20227.0	23387.9	29199.7
60°	25166.7	29866.4	23076.4	25741.2	38832.1	43225.0	34351.6	23895.5	27480.8	30701.6
62.5°	24580.7	31970.6	29241.2	30074.1	42759.0	46863.4	38416.9	27580.0	28251.4	28489.1
65°	22783.4	30272.5	27983.8	30916.2	43753.4	47068.8	39503.5	27104.8	23964.7	23258.7
67.5°	20310.1	28258.3	24996.0	28682.9	41956.1	44198.6	37480.1	23976.2	18519.7	17453.8
70°	17640.7	26029.6	23034.9	26177.3	38529.9	39196.7	34040.1	21087.6	13621.6	11787.4
72.5°	15107.4	23708.6	21692.1	23609.4	33959.4	32579.7	29561.9	18533.6	9918.6	8502.0
75°	12516.5	20284.7	19779.5	20559.3	27949.2	25662.8	24562.2	15345.1	7784.4	6150.9
77.5°	9657.9	15850.3	17013.1	16464.0	19673.3	19061.9	19038.8	11531.3	5687.2	4104.5
80°	6610.1	11046.8	13291.7	11614.3	12767.9	12456.5	14339.1	7736.0	4125.2	2471.0
82.5°	3885.3	6725.4	9251.8	5622.6	7060.0	7246.9	8538.9	3763.0	2427.2	569.9
85°	1575.8	2655.6	3617.7	2201.0	3405.4	2872.4	3241.6	1056.7	676.0	13.8
87.5°	396.8	849.0	595.3	246.9	394.5	362.2	286.1	129.2	27.7	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°
4637.4	0°	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4
5239.6	2.5°	5149.6	5096.6	4965.1	4833.5	4727.4	4584.4	4489.8	4376.7	4268.3	4171.4
5839.5	5°	5694.1	5518.8	5278.8	5059.6	4835.8	4619.0	4404.4	4178.3	3970.7	3843.8
6347.1	7.5°	6137.1	5827.9	5509.5	5230.4	4960.4	4706.6	4422.9	4148.3	3823.0	3650.0
6734.7	10°	6467.0	6061.0	5643.4	5322.7	5050.4	4803.5	4563.6	4286.7	3894.5	3677.6
6970.0	12.5°	6683.9	6201.7	5712.6	5345.7	5041.2	4849.7	4743.6	4635.1	4245.2	3991.4
7143.0	15°	6833.9	6300.9	5761.0	5292.7	4918.9	4778.2	4884.3	5008.9	4759.7	4466.7
7323.0	17.5°	6997.7	6430.1	5781.8	5149.6	4681.3	4621.3	4895.8	5184.2	5172.7	4882.0
7493.7	20°	7170.7	6543.2	5768.0	4918.9	4392.9	4445.9	4796.6	5131.2	5271.9	5115.0
7689.8	22.5°	7348.4	6651.6	5714.9	4619.0	4122.9	4289.0	4639.7	4932.8	5098.9	5050.4
7929.8	25°	7572.2	6803.9	5636.4	4296.0	3899.1	4129.9	4457.5	4695.1	4810.5	4808.2
8188.2	27.5°	7839.8	7006.9	5594.9	4035.3	3739.9	3949.9	4240.6	4452.9	4533.6	4533.6
8508.9	30°	8151.3	7246.9	5548.8	3864.5	3647.7	3763.0	3989.1	4196.8	4277.5	4277.5
8859.6	32.5°	8497.3	7477.6	5438.0	3760.7	3578.4	3580.7	3723.8	3913.0	4009.9	4023.7
9297.9	35°	8912.6	7724.4	5195.8	3677.6	3497.7	3403.1	3472.3	3629.2	3744.6	3774.5
9923.2	37.5°	9457.1	8026.7	4849.7	3555.4	3373.1	3216.2	3232.4	3352.3	3479.2	3525.4
10786.1	40°	10188.5	8382.0	4489.8	3380.0	3197.8	3010.9	3003.9	3091.6	3216.2	3267.0
11953.5	42.5°	11155.2	8808.8	4146.0	3211.6	2985.5	2794.0	2782.5	2851.7	2960.1	3013.2
13494.7	45°	12391.9	9332.5	3850.7	3080.1	2777.8	2588.7	2584.0	2641.7	2736.3	2791.7
15467.3	47.5°	14110.7	9856.3	3650.0	3010.9	2614.0	2420.2	2429.5	2480.2	2565.6	2604.8
18021.4	50°	16351.0	10015.5	3548.4	3010.9	2526.4	2270.3	2316.4	2357.9	2422.5	2445.6
21083.0	52.5°	18501.3	9489.4	3456.2	3029.3	2537.9	2143.4	2242.6	2272.6	2327.9	2337.2
23920.8	55°	19555.7	8158.2	3329.3	3033.9	2609.4	2034.9	2182.6	2238.0	2258.7	2256.4
25568.2	57.5°	19193.4	6596.2	3114.7	3015.5	2657.9	1965.7	2108.8	2214.9	2228.7	2208.0
25254.4	60°	17922.2	4856.6	2950.9	2879.4	2639.4	1945.0	1995.7	2164.1	2184.9	2157.2
22836.5	62.5°	15790.3	3370.8	2824.0	2579.4	2558.7	1938.0	1818.1	2053.4	2104.1	2064.9
18355.9	65°	12431.1	2381.0	2431.8	2261.0	2383.3	1901.1	1633.5	1919.6	1988.8	1928.8
13317.0	67.5°	8412.0	1718.8	1970.3	2048.8	2099.5	1818.1	1499.7	1767.3	1859.6	1781.1
8545.8	70°	4542.8	1206.7	1301.2	1725.8	1783.5	1675.0	1379.7	1612.7	1718.8	1633.5
6074.8	72.5°	2683.3	867.5	911.3	1386.6	1485.8	1474.3	1245.9	1432.8	1562.0	1460.4
4192.1	75°	1478.9	586.0	650.6	1005.9	1206.7	1137.4	1070.5	1213.6	1345.1	1245.9
2627.9	77.5°	662.2	350.7	452.2	659.9	948.3	779.8	828.3	945.9	1068.2	964.4
1462.8	80°	256.1	196.1	299.9	359.9	689.8	431.4	533.0	696.8	784.4	701.4
318.4	82.5°	32.3	87.7	129.2	140.7	401.4	228.4	309.2	438.4	431.4	373.8
0.0	85°	0.0	16.2	18.5	9.2	173.0	83.1	101.5	143.0	133.8	101.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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°
4637.4	0°	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4
4152.9	2.5°	4039.9	3956.8	3915.3	3880.7	3913.0	3931.4	3931.4	4009.9	4056.0	4074.5
3763.0	5°	3560.0	3405.4	3301.6	3239.3	3260.0	3283.1	3308.5	3407.7	3474.6	3518.4
3493.1	7.5°	3181.6	2946.3	2800.9	2724.8	2736.3	2752.5	2773.2	2870.1	2937.0	2994.7
3442.3	10°	2994.7	2662.5	2471.0	2378.7	2362.6	2353.3	2346.4	2404.1	2454.8	2501.0
3650.0	12.5°	3003.9	2540.2	2307.2	2194.1	2145.7	2090.3	2046.5	2055.7	2088.0	2145.7
4021.4	15°	3121.6	2501.0	2221.8	2081.1	2000.3	1935.7	1882.7	1871.1	1882.7	1891.9
4445.9	17.5°	3280.8	2496.4	2148.0	1972.6	1889.6	1836.5	1788.1	1771.9	1774.2	1785.8
4727.4	20°	3407.7	2482.5	2064.9	1868.8	1795.0	1748.8	1700.4	1684.2	1688.9	1691.2
4755.1	22.5°	3474.6	2461.8	1972.6	1765.0	1702.7	1656.6	1612.7	1610.4	1610.4	1624.3
4605.1	25°	3474.6	2417.9	1889.6	1665.8	1610.4	1568.9	1515.8	1525.0	1529.7	1548.1
4372.1	27.5°	3391.6	2334.9	1822.7	1580.4	1522.7	1481.2	1432.8	1444.3	1451.2	1472.0
4141.4	30°	3285.4	2235.7	1746.5	1499.7	1432.8	1402.8	1361.2	1365.9	1375.1	1398.2
3926.8	32.5°	3172.4	2118.0	1684.2	1418.9	1352.0	1328.9	1282.8	1289.7	1298.9	1324.3
3714.6	35°	3047.8	1979.6	1610.4	1345.1	1278.2	1259.7	1206.7	1211.3	1225.1	1252.8
3486.1	37.5°	2916.3	1866.5	1536.6	1273.6	1204.3	1185.9	1130.5	1135.1	1151.3	1183.6
3246.2	40°	2787.1	1755.8	1458.1	1197.4	1128.2	1112.1	1052.1	1056.7	1075.1	1109.8
3003.9	42.5°	2646.3	1670.4	1356.6	1119.0	1045.2	1029.0	973.6	980.6	1001.3	1035.9
2780.2	45°	2477.9	1615.0	1243.6	1045.2	962.1	945.9	895.2	909.0	932.1	966.7
2588.7	47.5°	2304.9	1592.0	1149.0	966.7	876.7	862.9	821.4	844.4	869.8	897.5
2424.8	50°	2138.8	1562.0	1052.1	892.9	802.9	789.1	761.4	791.4	816.7	842.1
2307.2	52.5°	1949.6	1497.4	964.4	828.3	740.6	736.0	722.1	749.8	772.9	796.0
2205.7	55°	1753.5	1393.5	888.3	770.6	687.5	692.2	685.2	708.3	726.8	747.5
2113.4	57.5°	1582.7	1262.0	828.3	708.3	641.4	655.2	646.0	657.5	669.1	694.5
2002.6	60°	1409.7	1105.1	761.4	634.5	595.3	611.4	586.0	583.7	588.3	595.3
1838.8	62.5°	1176.7	941.3	678.3	569.9	544.5	551.4	503.0	466.1	466.1	473.0
1610.4	65°	945.9	789.1	586.0	496.0	475.3	470.7	401.4	350.7	346.1	366.8
1345.1	67.5°	777.5	655.2	493.7	413.0	399.1	403.8	353.0	302.2	297.6	320.7
1095.9	70°	643.7	528.3	394.5	318.4	332.2	353.0	302.2	253.8	246.9	267.6
890.6	72.5°	512.2	413.0	302.2	235.3	274.6	299.9	246.9	200.7	196.1	214.6
687.5	75°	376.1	295.3	205.3	170.7	212.3	235.3	180.0	143.0	136.1	152.3
459.1	77.5°	233.0	166.1	129.2	101.5	145.4	156.9	94.6	83.1	80.8	92.3
279.2	80°	108.4	71.5	62.3	34.6	53.1	62.3	39.2	43.8	46.1	55.4
140.7	82.5°	30.0	11.5	2.3	0.0	0.0	18.5	9.2	18.5	23.1	34.6
11.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.5	20.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
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°
4637.4	0°	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4	4637.4
4203.7	2.5°	4300.6	4392.9	4540.5	4692.8	4842.8	4995.0	5142.7	5195.8
3719.2	5°	3901.4	4113.7	4406.7	4720.5	5043.5	5371.1	5671.0	5807.2
3218.5	7.5°	3456.2	3760.7	4201.4	4692.8	5207.3	5721.8	6194.8	6414.0
2722.5	10°	2980.9	3366.2	3869.1	4533.6	5271.9	5982.5	6633.1	6916.9
2286.4	12.5°	2528.7	2932.4	3488.5	4284.4	5221.1	6132.5	6914.6	7249.2
1979.6	15°	2150.3	2507.9	3107.8	3989.1	5057.3	6141.7	7048.4	7415.3
1808.8	17.5°	1866.5	2099.5	2720.2	3661.5	4842.8	6056.3	7094.6	7486.8
1716.5	20°	1725.8	1790.4	2217.2	3241.6	4642.0	5975.6	7140.7	7553.7
1642.7	22.5°	1642.7	1658.9	1813.4	2699.4	4402.1	5950.2	7221.5	7646.0
1575.8	25°	1575.8	1580.4	1621.9	2138.8	4035.3	5934.1	7346.1	7772.9
1506.6	27.5°	1508.9	1508.9	1532.0	1723.5	3536.9	5864.9	7507.6	7925.2
1437.4	30°	1442.0	1442.0	1458.1	1525.0	2953.2	5728.7	7701.4	8123.6
1368.2	32.5°	1372.8	1372.8	1386.6	1435.1	2357.9	5558.0	7879.0	8324.3
1296.6	35°	1303.6	1298.9	1317.4	1368.2	1875.7	5341.1	8056.7	8541.2
1225.1	37.5°	1229.7	1227.4	1245.9	1303.6	1619.6	5089.6	8190.5	8836.5
1153.6	40°	1151.3	1151.3	1172.0	1234.3	1545.8	4773.6	8402.7	9261.0
1079.8	42.5°	1079.8	1075.1	1098.2	1174.4	1490.4	4471.3	8783.4	9879.3
1012.9	45°	1010.5	1001.3	1022.1	1116.7	1393.5	4365.2	9494.0	10793.0
948.3	47.5°	945.9	922.9	941.3	1047.5	1305.9	4762.0	10656.9	12059.6
890.6	50°	892.9	849.0	865.2	978.2	1239.0	5622.6	12165.8	13741.6
837.5	52.5°	837.5	779.8	789.1	892.9	1179.0	6441.6	13801.6	15961.1
784.4	55°	779.8	715.2	719.8	807.5	1093.6	6563.9	15398.1	18988.1
724.5	57.5°	715.2	655.2	655.2	729.1	1031.3	5689.5	16625.5	22744.2
650.6	60°	643.7	604.5	592.9	666.8	1086.7	4014.5	16768.6	25166.7
556.0	62.5°	565.3	544.5	528.3	606.8	1128.2	2378.7	15617.3	24580.7
438.4	65°	475.3	470.7	459.1	666.8	950.6	1405.1	13407.0	22783.4
373.8	67.5°	399.1	392.2	392.2	699.1	722.1	883.6	10474.6	20310.1
318.4	70°	343.8	318.4	318.4	528.3	438.4	611.4	7313.8	17640.7
263.0	72.5°	288.4	260.7	242.3	422.2	327.6	447.6	4570.5	15107.4
200.7	75°	230.7	210.0	186.9	279.2	244.6	339.2	2655.6	12516.5
126.9	77.5°	166.1	156.9	131.5	205.3	177.7	244.6	1580.4	9657.9
78.4	80°	85.4	87.7	83.1	117.7	120.0	166.1	899.8	6610.1
50.8	82.5°	50.8	39.2	43.8	57.7	69.2	94.6	339.2	3885.3
36.9	85°	32.3	20.8	20.8	27.7	34.6	36.9	103.8	1575.8
18.5	87.5°	16.2	6.9	9.2	13.8	11.5	9.2	4.6	396.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)