

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: P955801

Luminaire Tested: **GALN-SB8C-927-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955801
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-927-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 28132 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

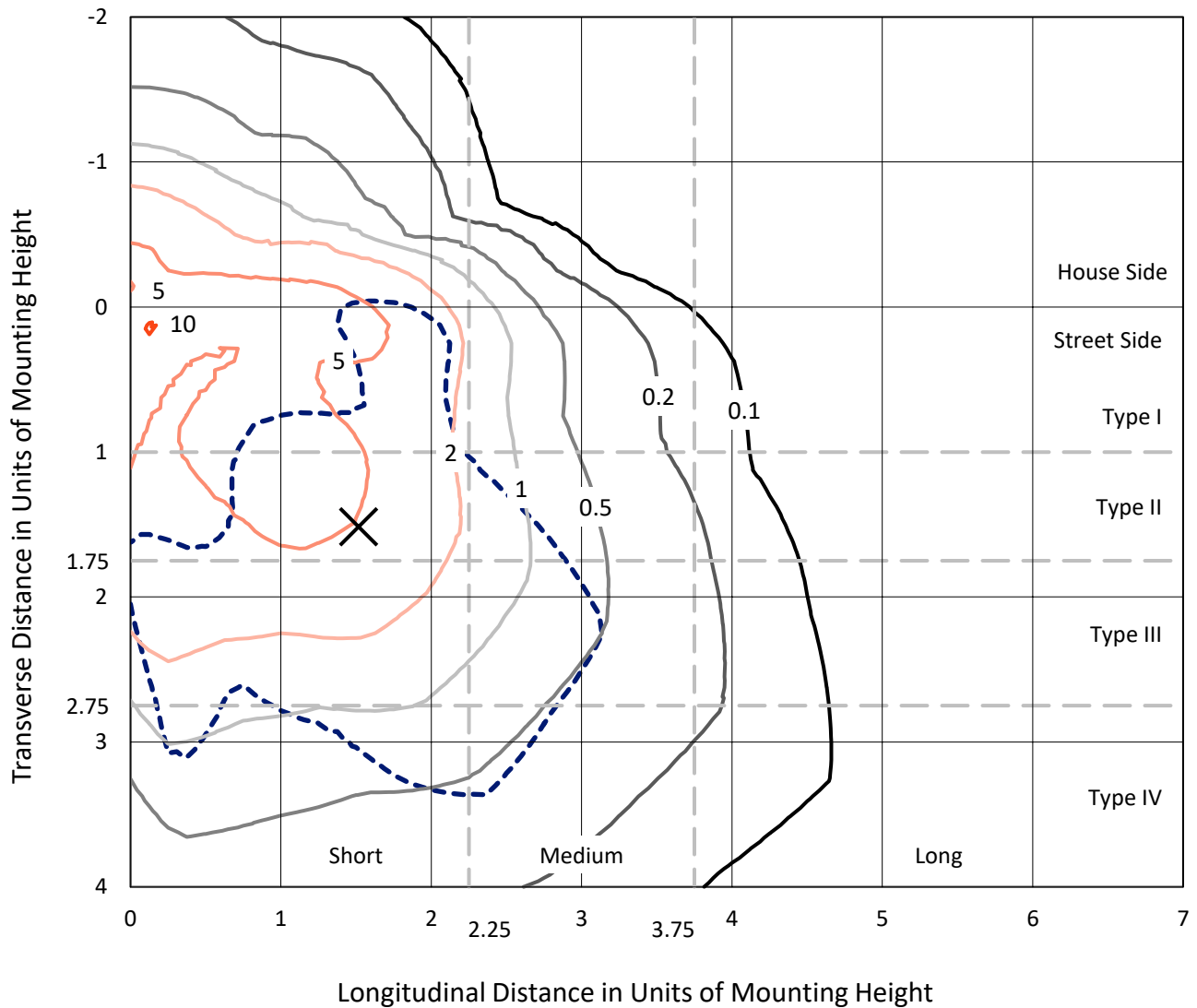
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

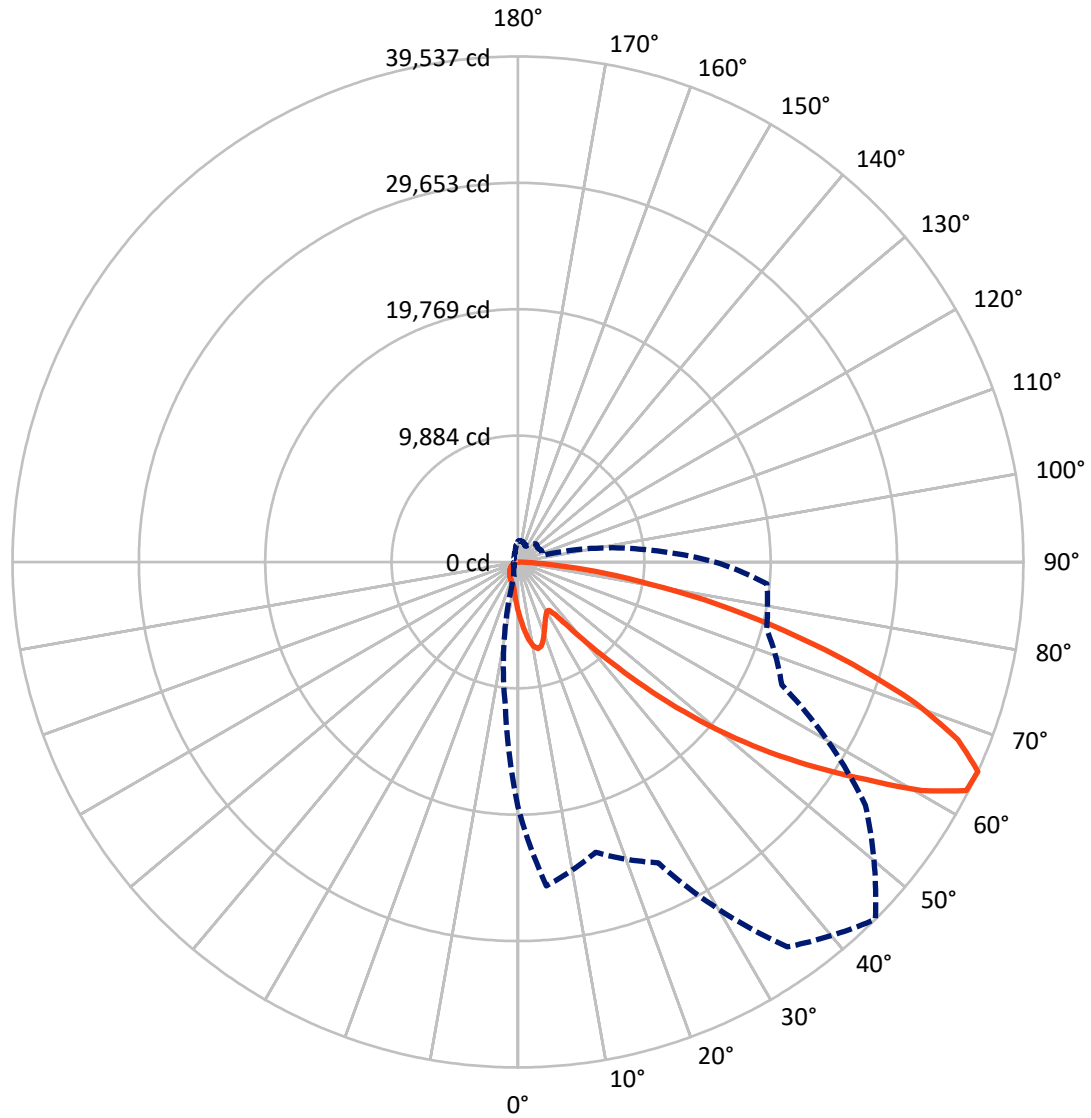
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	5591.8	0.0	5591.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22540.2	0.0	22540.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	28132.0	0.0	28132.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.4
10°-20°	1149.7	4.1
20°-30°	1693.7	6.0
30°-40°	2175.9	7.7
40°-50°	3519.1	12.5
50°-60°	6171.1	21.9
60°-70°	7721.7	27.4
70°-80°	4512.2	16.0
80°-90°	805.1	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°	28132.0	100.0
0°-180°	28132.0	100.0



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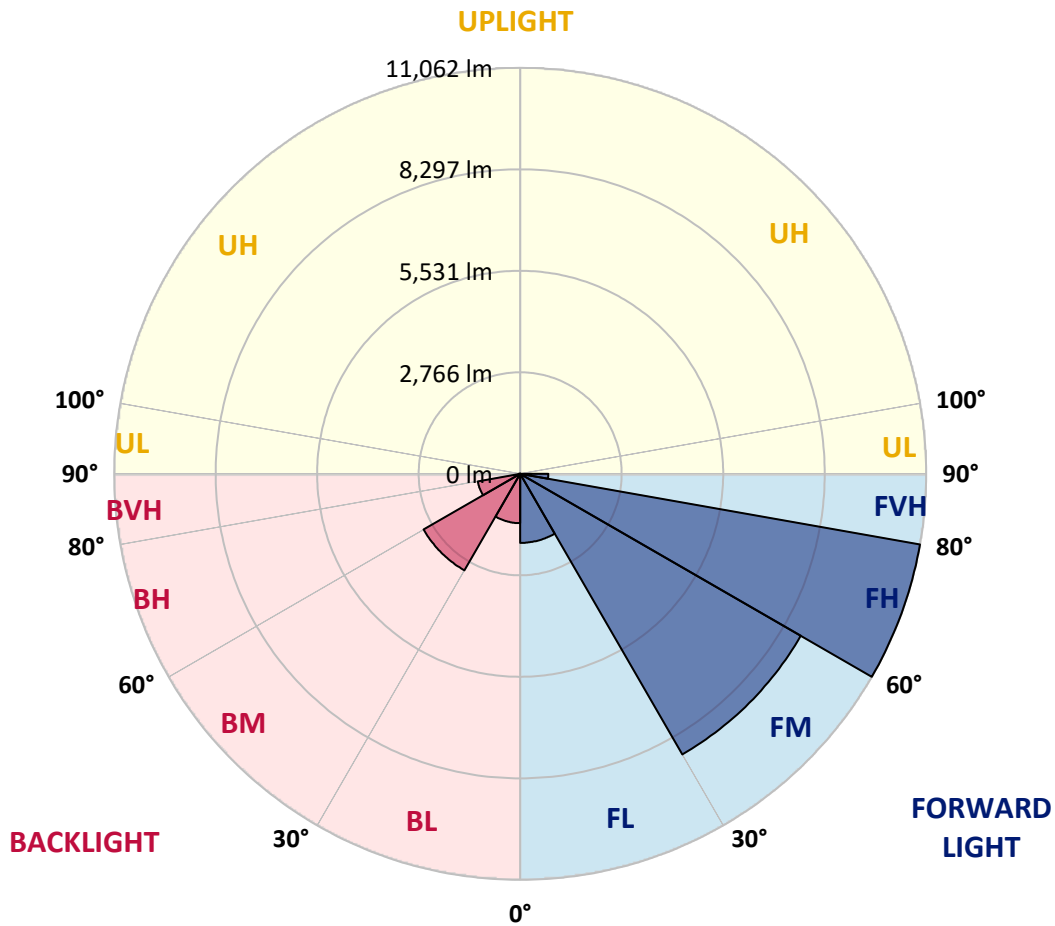
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.4	6.7			
FM (30°-60°)	8828.2	31.4			
FH (60°-80°)	11062.4	39.3			G4/12000
FVH (80°-90°)	767.3	2.7			G5
BL (0°-30°)	1344.5	4.8	B3/2500		
BM (30°-60°)	3038.0	10.8	B3/5000		
BH (60°-80°)	1171.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	37.7	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°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
2.5°	4364.4	4397.3	4471.0	4509.7	4569.8	4573.7	4573.7	4521.4	4519.4	4412.8
5°	4877.9	4955.5	5129.9	5310.1	5348.9	5358.6	5339.2	5234.5	5157.0	4949.7
7.5°	5387.6	5536.9	5802.4	6042.7	6120.2	6120.2	6073.7	5903.2	5744.2	5443.8
10°	5810.1	5998.1	6358.6	6628.0	6717.1	6697.7	6602.8	6387.7	6168.7	5804.3
12.5°	6089.2	6300.4	6695.8	6912.8	7003.9	6953.5	6845.0	6635.7	6405.1	6021.4
15°	6228.7	6449.7	6792.7	6907.0	6881.8	6829.5	6815.9	6715.2	6540.8	6182.2
17.5°	6288.8	6494.2	6732.6	6660.9	6447.7	6407.0	6542.7	6670.6	6628.0	6321.8
20°	6345.0	6517.5	6589.2	6271.4	5899.3	5862.5	6122.1	6486.5	6672.5	6451.6
22.5°	6422.5	6529.1	6381.8	5860.5	5459.3	5374.1	5660.9	6209.4	6686.1	6616.3
25°	6529.1	6558.2	6153.2	5471.0	5067.9	4982.6	5250.0	5901.2	6662.8	6794.6
27.5°	6657.0	6597.0	5934.2	5145.4	4755.9	4676.4	4943.8	5604.7	6597.0	6972.9
30°	6823.7	6647.3	5717.1	4893.5	4533.0	4474.8	4732.6	5348.9	6515.6	7199.7
32.5°	6992.3	6668.7	5515.6	4746.2	4482.6	4503.9	4715.2	5211.3	6426.4	7416.7
35°	7174.5	6736.5	5416.7	4891.5	4903.1	5089.2	5176.4	5339.2	6412.8	7711.3
37.5°	7422.5	6887.7	5534.9	5614.4	6017.5	6403.2	6331.4	5965.2	6569.8	8151.2
40°	7779.1	7153.2	6050.4	6845.0	7672.5	8298.5	8025.3	7102.8	7050.4	8785.0
42.5°	8298.5	7575.6	6965.2	8348.9	9752.0	10783.0	10050.5	8569.8	7891.5	9690.0
45°	9066.0	8259.8	8071.8	9936.1	12316.0	13940.0	12416.8	10133.8	9069.8	11060.2
47.5°	10129.9	9265.6	9108.6	11608.6	15432.3	17533.1	15040.8	11583.4	10410.9	12928.4
50°	11542.7	10620.2	10091.2	13438.1	18849.0	21195.9	17662.9	12982.7	11947.8	15211.4
52.5°	13407.1	12509.8	11236.5	15180.4	22362.6	24781.2	20296.7	14211.4	13854.8	17860.6
55°	15949.7	15352.8	12802.4	16843.2	25874.3	28387.8	22827.7	15370.3	16374.2	21007.9
57.5°	19104.8	19531.2	15060.2	18771.5	29031.3	32104.9	25370.4	16990.5	19645.5	24527.3
60°	21139.7	25087.4	19383.9	21622.3	32618.5	36308.4	28854.9	20071.9	23083.5	25789.0
62.5°	20647.5	26854.9	24562.2	25261.8	35917.0	39364.7	32269.7	23166.9	23730.8	23930.4
65°	19137.8	25428.5	23506.0	25969.2	36752.2	39537.2	33182.5	22767.6	20130.0	19537.0
67.5°	17060.2	23736.6	20996.3	24093.2	35242.5	37126.3	31482.8	20139.7	15556.3	14661.0
70°	14818.0	21864.5	19349.0	21988.6	32364.6	32924.7	28593.3	17713.3	11442.0	9901.2
72.5°	12690.0	19914.9	18221.1	19831.6	28525.4	27366.5	24831.6	15568.0	8331.5	7141.5
75°	10513.7	17038.9	16614.5	17269.5	23476.9	21556.4	20632.0	12889.6	6538.8	5166.7
77.5°	8112.5	13314.1	14290.8	13829.6	16525.3	16011.8	15992.4	9686.1	4777.2	3447.7
80°	5552.4	9279.1	11164.8	9755.9	10724.9	10463.3	12044.7	6498.1	3465.1	2075.6
82.5°	3263.6	5649.3	7771.4	4722.9	5930.3	6087.3	7172.5	3160.9	2038.8	478.7
85°	1323.7	2230.6	3038.8	1848.9	2860.5	2412.8	2722.9	887.6	567.8	11.6
87.5°	333.3	713.2	500.0	207.4	331.4	304.3	240.3	108.5	23.3	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°
3895.4	0°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
4401.2	2.5°	4325.6	4281.0	4170.6	4060.1	3971.0	3850.8	3771.3	3676.4	3585.3	3503.9
4905.1	5°	4783.0	4635.7	4434.1	4250.0	4062.0	3879.9	3699.6	3509.7	3335.3	3228.7
5331.4	7.5°	5155.1	4895.4	4627.9	4393.4	4166.7	3953.5	3715.1	3484.5	3211.3	3065.9
5657.0	10°	5432.2	5091.1	4740.4	4471.0	4242.3	4034.9	3833.4	3600.8	3271.3	3089.2
5854.7	12.5°	5614.4	5209.3	4798.5	4490.3	4234.5	4073.7	3984.5	3893.4	3565.9	3352.7
6000.1	15°	5740.4	5292.7	4839.2	4445.8	4131.8	4013.6	4102.7	4207.4	3998.1	3752.0
6151.2	17.5°	5878.0	5401.2	4856.6	4325.6	3932.2	3881.8	4112.4	4354.7	4345.0	4100.8
6294.6	20°	6023.3	5496.2	4845.0	4131.8	3690.0	3734.5	4029.1	4310.1	4428.3	4296.5
6459.4	22.5°	6172.5	5587.3	4800.4	3879.9	3463.2	3602.7	3897.3	4143.4	4283.0	4242.3
6660.9	25°	6360.5	5715.2	4734.5	3608.6	3275.2	3469.0	3744.2	3943.8	4040.7	4038.8
6878.0	27.5°	6585.3	5885.7	4699.7	3389.6	3141.5	3317.9	3562.0	3740.3	3808.2	3808.2
7147.3	30°	6847.0	6087.3	4660.9	3246.2	3064.0	3160.9	3350.8	3525.2	3593.1	3593.1
7441.9	32.5°	7137.7	6281.1	4567.9	3158.9	3005.8	3007.8	3127.9	3286.8	3368.2	3379.9
7810.1	35°	7486.5	6488.4	4364.4	3089.2	2938.0	2858.6	2916.7	3048.5	3145.4	3170.6
8335.3	37.5°	7943.9	6742.3	4073.7	2986.5	2833.4	2701.6	2715.1	2815.9	2922.5	2961.3
9060.2	40°	8558.2	7040.8	3771.3	2839.2	2686.1	2529.1	2523.3	2596.9	2701.6	2744.2
10040.8	42.5°	9370.2	7399.3	3482.6	2697.7	2507.8	2346.9	2337.2	2395.4	2486.5	2531.0
11335.4	45°	10409.0	7839.2	3234.5	2587.2	2333.4	2174.4	2170.6	2219.0	2298.5	2345.0
12992.4	47.5°	11852.8	8279.1	3065.9	2529.1	2195.8	2033.0	2040.7	2083.4	2155.1	2188.0
15137.7	50°	13734.6	8412.9	2980.6	2529.1	2122.1	1907.0	1945.8	1980.6	2034.9	2054.3
17709.5	52.5°	15540.8	7971.0	2903.1	2544.6	2131.8	1800.4	1883.7	1908.9	1955.4	1963.2
20093.2	55°	16426.5	6852.8	2796.5	2548.5	2191.9	1709.3	1833.3	1879.9	1897.3	1895.4
21476.9	57.5°	16122.2	5540.7	2616.3	2533.0	2232.6	1651.2	1771.3	1860.5	1872.1	1854.7
21213.4	60°	15054.4	4079.5	2478.7	2418.6	2217.1	1633.7	1676.4	1817.8	1835.3	1812.0
19182.3	62.5°	13263.7	2831.4	2372.1	2166.7	2149.2	1627.9	1527.1	1724.8	1767.5	1734.5
15418.7	65°	10441.9	2000.0	2042.7	1899.2	2002.0	1596.9	1372.1	1612.4	1670.6	1620.2
11186.1	67.5°	7066.0	1443.8	1655.1	1720.9	1763.6	1527.1	1259.7	1484.5	1562.0	1496.1
7178.4	70°	3815.9	1013.6	1093.0	1449.6	1498.1	1407.0	1158.9	1354.7	1443.8	1372.1
5102.8	72.5°	2253.9	728.7	765.5	1164.7	1248.1	1238.4	1046.5	1203.5	1312.0	1226.8
3521.3	75°	1242.3	492.3	546.5	845.0	1013.6	955.4	899.2	1019.4	1129.9	1046.5
2207.4	77.5°	556.2	294.6	379.8	554.3	796.5	655.0	695.7	794.6	897.3	810.1
1228.7	80°	215.1	164.7	251.9	302.3	579.5	362.4	447.7	585.3	658.9	589.2
267.4	82.5°	27.1	73.6	108.5	118.2	337.2	191.9	259.7	368.2	362.4	314.0
0.0	85°	0.0	13.6	15.5	7.8	145.4	69.8	85.3	120.2	112.4	85.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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°
3895.4	0°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
3488.4	2.5°	3393.4	3323.7	3288.8	3259.7	3286.8	3302.4	3302.4	3368.2	3407.0	3422.5
3160.9	5°	2990.3	2860.5	2773.3	2721.0	2738.4	2757.8	2779.1	2862.4	2918.6	2955.5
2934.1	7.5°	2672.5	2474.8	2352.7	2288.8	2298.5	2312.0	2329.5	2410.9	2467.1	2515.5
2891.5	10°	2515.5	2236.5	2075.6	1998.1	1984.5	1976.8	1970.9	2019.4	2062.0	2100.8
3065.9	12.5°	2523.3	2133.7	1938.0	1843.0	1802.3	1755.8	1719.0	1726.8	1753.9	1802.3
3377.9	15°	2622.1	2100.8	1866.3	1748.1	1680.2	1626.0	1581.4	1571.7	1581.4	1589.2
3734.5	17.5°	2755.8	2096.9	1804.3	1657.0	1587.2	1542.6	1502.0	1488.4	1490.3	1500.0
3971.0	20°	2862.4	2085.3	1734.5	1569.8	1507.8	1469.0	1428.3	1414.7	1418.6	1420.6
3994.2	22.5°	2918.6	2067.8	1657.0	1482.6	1430.2	1391.5	1354.7	1352.7	1352.7	1364.4
3868.2	25°	2918.6	2031.0	1587.2	1399.2	1352.7	1317.8	1273.3	1281.0	1284.9	1300.4
3672.5	27.5°	2848.9	1961.3	1531.0	1327.5	1279.1	1244.2	1203.5	1213.2	1219.0	1236.4
3478.7	30°	2759.7	1877.9	1467.1	1259.7	1203.5	1178.3	1143.4	1147.3	1155.0	1174.4
3298.5	32.5°	2664.8	1779.1	1414.7	1191.9	1135.7	1116.3	1077.5	1083.3	1091.1	1112.4
3120.2	35°	2560.1	1662.8	1352.7	1129.9	1073.7	1058.1	1013.6	1017.5	1029.1	1052.3
2928.3	37.5°	2449.6	1567.8	1290.7	1069.8	1011.6	996.1	949.6	953.5	967.1	994.2
2726.8	40°	2341.1	1474.8	1224.8	1005.8	947.7	934.1	883.7	887.6	903.1	932.2
2523.3	42.5°	2222.9	1403.1	1139.5	939.9	877.9	864.3	817.8	823.7	841.1	870.2
2335.3	45°	2081.4	1356.6	1044.6	877.9	808.1	794.6	751.9	763.6	783.0	812.0
2174.4	47.5°	1936.1	1337.2	965.1	812.0	736.4	724.8	689.9	709.3	730.6	753.9
2036.8	50°	1796.5	1312.0	883.7	750.0	674.4	662.8	639.5	664.7	686.1	707.4
1938.0	52.5°	1637.6	1257.8	810.1	695.7	622.1	618.2	606.6	629.9	649.2	668.6
1852.7	55°	1472.9	1170.6	746.1	647.3	577.5	581.4	575.6	595.0	610.5	627.9
1775.2	57.5°	1329.5	1060.1	695.7	595.0	538.8	550.4	542.6	552.3	562.0	583.3
1682.2	60°	1184.1	928.3	639.5	533.0	500.0	513.6	492.3	490.3	494.2	500.0
1544.6	62.5°	988.4	790.7	569.8	478.7	457.4	463.2	422.5	391.5	391.5	397.3
1352.7	65°	794.6	662.8	492.3	416.7	399.2	395.4	337.2	294.6	290.7	308.1
1129.9	67.5°	653.1	550.4	414.7	346.9	335.3	339.2	296.5	253.9	250.0	269.4
920.6	70°	540.7	443.8	331.4	267.4	279.1	296.5	253.9	213.2	207.4	224.8
748.1	72.5°	430.2	346.9	253.9	197.7	230.6	251.9	207.4	168.6	164.7	180.2
577.5	75°	315.9	248.1	172.5	143.4	178.3	197.7	151.2	120.2	114.3	127.9
385.7	77.5°	195.7	139.5	108.5	85.3	122.1	131.8	79.5	69.8	67.8	77.5
234.5	80°	91.1	60.1	52.3	29.1	44.6	52.3	32.9	36.8	38.8	46.5
118.2	82.5°	25.2	9.7	1.9	0.0	0.0	15.5	7.8	15.5	19.4	29.1
9.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.7	17.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
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°
3895.4	0°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
3531.0	2.5°	3612.4	3690.0	3814.0	3941.9	4067.9	4195.8	4319.8	4364.4
3124.1	5°	3277.2	3455.5	3701.6	3965.1	4236.5	4511.7	4763.6	4877.9
2703.5	7.5°	2903.1	3158.9	3529.1	3941.9	4374.1	4806.2	5203.5	5387.6
2286.8	10°	2503.9	2827.5	3250.0	3808.2	4428.3	5025.2	5571.8	5810.1
1920.6	12.5°	2124.0	2463.2	2930.3	3598.9	4385.7	5151.2	5808.2	6089.2
1662.8	15°	1806.2	2106.6	2610.5	3350.8	4248.1	5159.0	5920.6	6228.7
1519.4	17.5°	1567.8	1763.6	2284.9	3075.6	4067.9	5087.3	5959.4	6288.8
1441.9	20°	1449.6	1503.9	1862.4	2722.9	3899.3	5019.4	5998.1	6345.0
1379.9	22.5°	1379.9	1393.4	1523.3	2267.5	3697.7	4998.1	6065.9	6422.5
1323.7	25°	1323.7	1327.5	1362.4	1796.5	3389.6	4984.5	6170.6	6529.1
1265.5	27.5°	1267.5	1267.5	1286.8	1447.7	2971.0	4926.4	6306.3	6657.0
1207.4	30°	1211.3	1211.3	1224.8	1281.0	2480.6	4812.1	6469.0	6823.7
1149.2	32.5°	1153.1	1153.1	1164.7	1205.4	1980.6	4668.6	6618.3	6992.3
1089.2	35°	1095.0	1091.1	1106.6	1149.2	1575.6	4486.5	6767.5	7174.5
1029.1	37.5°	1033.0	1031.0	1046.5	1095.0	1360.5	4275.2	6879.9	7422.5
969.0	40°	967.1	967.1	984.5	1036.8	1298.5	4009.7	7058.2	7779.1
907.0	42.5°	907.0	903.1	922.5	986.4	1251.9	3755.8	7378.0	8298.5
850.8	45°	848.8	841.1	858.5	938.0	1170.6	3666.7	7974.9	9066.0
796.5	47.5°	794.6	775.2	790.7	879.9	1096.9	4000.0	8951.6	10129.9
748.1	50°	750.0	713.2	726.8	821.7	1040.7	4722.9	10219.1	11542.7
703.5	52.5°	703.5	655.0	662.8	750.0	990.3	5410.9	11593.1	13407.1
658.9	55°	655.0	600.8	604.7	678.3	918.6	5513.6	12934.2	15949.7
608.5	57.5°	600.8	550.4	550.4	612.4	866.3	4779.1	13965.2	19104.8
546.5	60°	540.7	507.8	498.1	560.1	912.8	3372.1	14085.4	21139.7
467.1	62.5°	474.8	457.4	443.8	509.7	947.7	1998.1	13118.3	20647.5
368.2	65°	399.2	395.4	385.7	560.1	798.5	1180.2	11261.7	19137.8
314.0	67.5°	335.3	329.5	329.5	587.2	606.6	742.3	8798.5	17060.2
267.4	70°	288.8	267.4	267.4	443.8	368.2	513.6	6143.5	14818.0
220.9	72.5°	242.3	219.0	203.5	354.7	275.2	376.0	3839.2	12690.0
168.6	75°	193.8	176.4	157.0	234.5	205.4	284.9	2230.6	10513.7
106.6	77.5°	139.5	131.8	110.5	172.5	149.2	205.4	1327.5	8112.5
65.9	80°	71.7	73.6	69.8	98.8	100.8	139.5	755.8	5552.4
42.6	82.5°	42.6	32.9	36.8	48.5	58.1	79.5	284.9	3263.6
31.0	85°	27.1	17.4	17.4	23.3	29.1	31.0	87.2	1323.7
15.5	87.5°	13.6	5.8	7.8	11.6	9.7	7.8	3.9	333.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)