

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: P951433

Luminaire Tested: **GALN-SB5C-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951433
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-SB5C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 25943 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

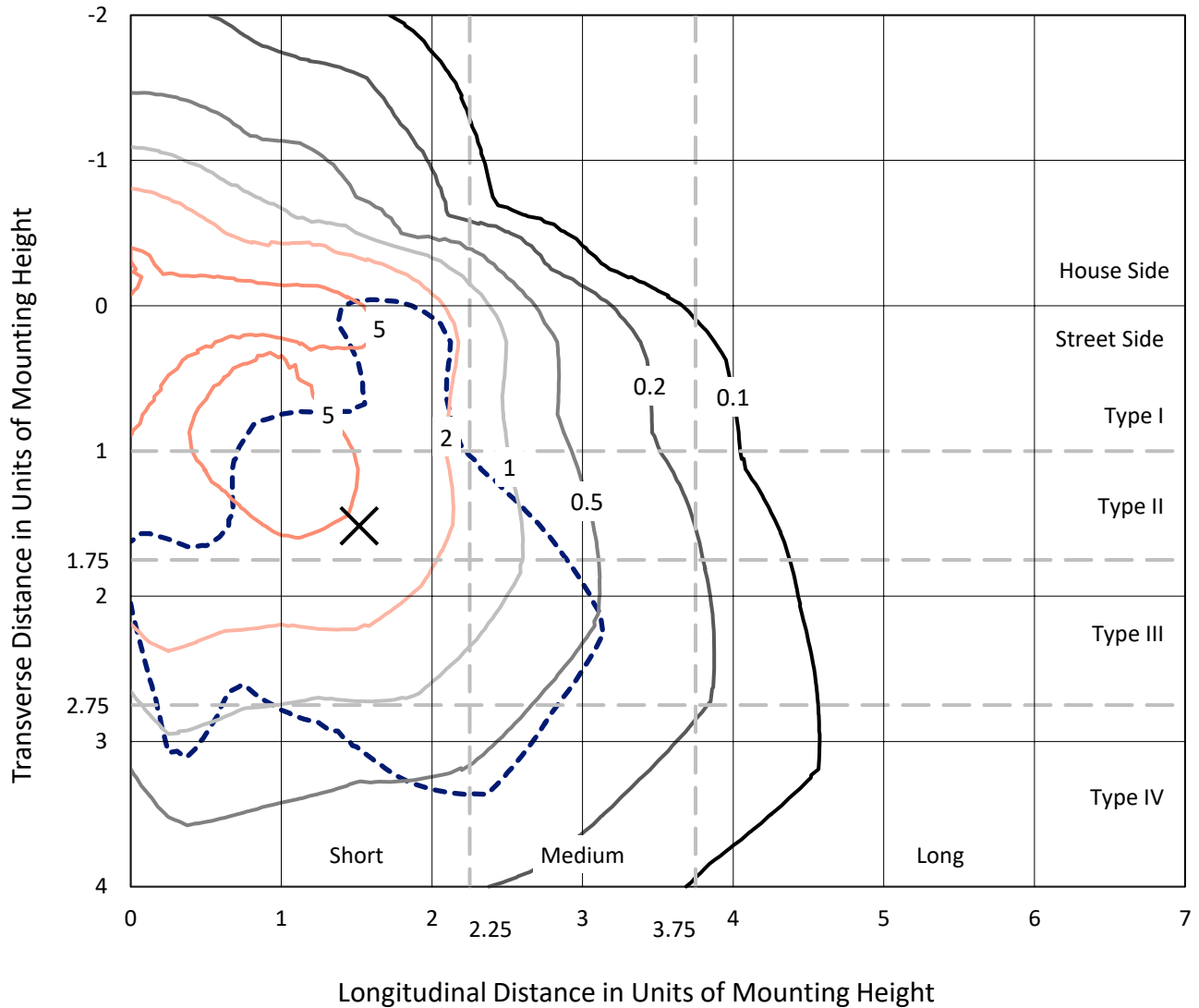
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

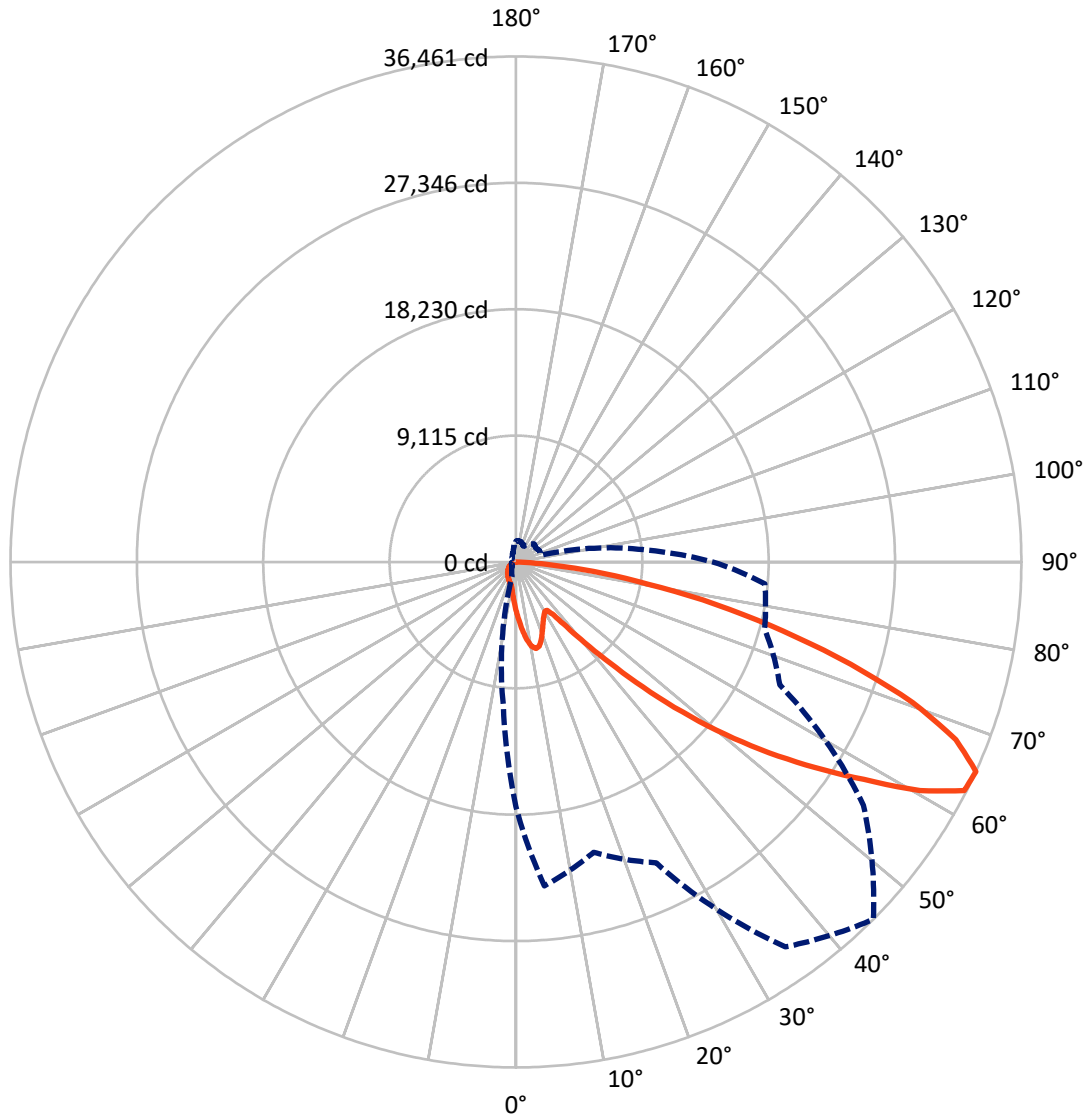
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	5156.7	0.0	5156.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	20786.3	0.0	20786.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	25943.0	0.0	25943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	1.4
10°-20°	1060.2	4.1
20°-30°	1561.9	6.0
30°-40°	2006.6	7.7
40°-50°	3245.3	12.5
50°-60°	5690.9	21.9
60°-70°	7120.9	27.4
70°-80°	4161.1	16.0
80°-90°	742.4	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°	25943.0	100.0
0°-180°	25943.0	100.0

Coefficient of Utilization



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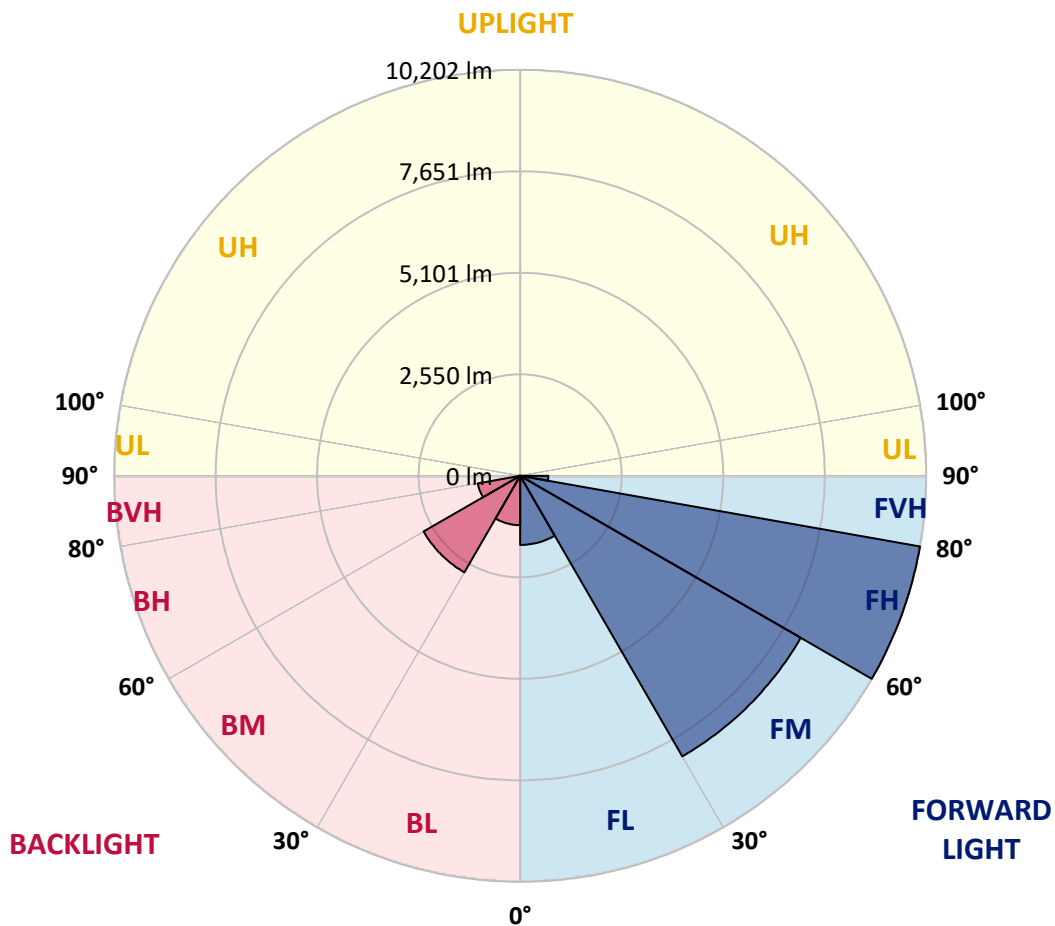
CATALOG NUMBER: GALN-SB5C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.9	6.7			
FM (30°-60°)	8141.2	31.4			
FH (60°-80°)	10201.6	39.3			G4/12000
FVH (80°-90°)	707.6	2.7			G4/750
BL (0°-30°)	1239.9	4.8	B3/2500		
BM (30°-60°)	2801.6	10.8	B3/5000		
BH (60°-80°)	1080.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	34.8	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°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
2.5°	4024.8	4055.2	4123.1	4158.8	4214.2	4217.8	4217.8	4169.5	4167.8	4069.5
5°	4498.4	4569.9	4730.7	4896.9	4932.7	4941.6	4923.7	4827.2	4755.7	4564.5
7.5°	4968.4	5106.0	5350.9	5572.5	5644.0	5644.0	5601.1	5443.8	5297.3	5020.2
10°	5358.0	5531.4	5863.8	6112.2	6194.4	6176.6	6089.0	5890.6	5688.7	5352.7
12.5°	5615.4	5810.2	6174.8	6374.9	6458.9	6412.5	6312.4	6119.4	5906.7	5552.8
15°	5744.1	5947.8	6264.1	6369.6	6346.4	6298.1	6285.6	6192.7	6031.8	5701.2
17.5°	5799.5	5988.9	6208.7	6142.6	5946.0	5908.5	6033.6	6151.5	6112.2	5829.9
20°	5851.3	6010.4	6076.5	5783.4	5440.2	5406.3	5645.8	5981.8	6153.3	5949.6
22.5°	5922.8	6021.1	5885.3	5404.5	5034.5	4955.9	5220.4	5726.2	6165.8	6101.5
25°	6021.1	6047.9	5674.4	5045.3	4673.5	4594.9	4841.5	5442.0	6144.4	6265.9
27.5°	6139.0	6083.6	5472.4	4745.0	4385.8	4312.5	4559.2	5168.6	6083.6	6430.4
30°	6292.7	6130.1	5272.2	4512.7	4180.3	4126.6	4364.3	4932.7	6008.6	6639.5
32.5°	6448.2	6149.8	5086.4	4376.9	4133.8	4153.5	4348.3	4805.8	5926.4	6839.6
35°	6616.2	6212.3	4995.2	4510.9	4521.6	4693.2	4773.6	4923.7	5913.9	7111.3
37.5°	6845.0	6351.7	5104.2	5177.5	5549.3	5904.9	5838.8	5501.0	6058.6	7517.0
40°	7173.8	6596.6	5579.6	6312.4	7075.5	7652.8	7400.8	6550.1	6501.8	8101.4
42.5°	7652.8	6986.2	6423.2	7699.3	8993.2	9944.0	9268.4	7903.0	7277.5	8936.0
45°	8360.5	7617.1	7443.7	9163.0	11357.7	12855.3	11450.6	9345.3	8364.1	10199.6
47.5°	9341.7	8544.6	8399.8	10705.3	14231.5	16168.8	13870.5	10682.1	9600.8	11922.4
50°	10644.6	9793.9	9306.0	12392.5	17382.3	19546.6	16288.6	11972.5	11018.1	14027.7
52.5°	12363.9	11536.4	10362.2	13999.2	20622.5	22852.9	18717.4	13105.5	12776.7	16470.9
55°	14708.7	14158.2	11806.3	15532.6	23860.9	26178.9	21051.4	14174.3	15100.1	19373.3
57.5°	17618.2	18011.4	13888.3	17310.8	26772.3	29606.8	23396.3	15668.4	18116.9	22618.8
60°	19494.8	23135.3	17875.6	19939.8	30080.4	33483.2	26609.6	18510.0	21287.4	23782.3
62.5°	19040.8	24765.3	22651.0	23296.2	33122.2	36301.6	29758.7	21364.2	21884.3	22068.4
65°	17648.6	23449.9	21677.0	23948.5	33892.5	36460.7	30600.5	20996.0	18563.7	18016.8
67.5°	15732.7	21889.6	19362.5	22218.5	32500.3	34237.4	29033.1	18572.6	14345.9	13520.2
70°	13664.9	20163.2	17843.4	20277.6	29846.3	30362.8	26368.4	16335.0	10551.6	9130.8
72.5°	11702.6	18365.3	16803.3	18288.4	26305.8	25237.1	22899.4	14356.6	7683.2	6585.8
75°	9695.6	15713.1	15321.7	15925.8	21650.2	19879.0	19026.5	11886.7	6030.0	4764.7
77.5°	7481.2	12278.1	13178.8	12753.5	15239.5	14765.9	14748.0	8932.4	4405.5	3179.4
80°	5120.3	8557.1	10296.1	8996.8	9890.4	9649.1	11107.5	5992.5	3195.5	1914.1
82.5°	3009.6	5209.7	7166.7	4355.4	5468.8	5613.6	6614.4	2914.9	1880.1	441.4
85°	1220.7	2057.1	2802.3	1705.0	2637.9	2225.1	2511.0	818.5	523.7	10.7
87.5°	307.4	657.7	461.1	191.2	305.6	280.6	221.6	100.1	21.4	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3592.3	0°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
4058.7	2.5°	3989.0	3947.9	3846.1	3744.2	3662.0	3551.2	3477.9	3390.3	3306.3	3231.3
4523.4	5°	4410.8	4275.0	4089.1	3919.3	3746.0	3578.0	3411.8	3236.6	3075.8	2977.5
4916.6	7.5°	4754.0	4514.5	4267.8	4051.6	3842.5	3645.9	3426.1	3213.4	2961.4	2827.4
5216.8	10°	5009.5	4695.0	4371.5	4123.1	3912.2	3721.0	3535.1	3320.6	3016.8	2848.8
5399.1	12.5°	5177.5	4804.0	4425.1	4140.9	3905.0	3756.7	3674.5	3590.5	3288.5	3091.9
5533.2	15°	5293.7	4880.8	4462.6	4099.8	3810.3	3701.3	3783.5	3880.0	3687.0	3460.0
5672.6	17.5°	5420.6	4980.9	4478.7	3989.0	3626.2	3579.8	3792.4	4015.8	4006.9	3781.7
5804.8	20°	5554.6	5068.5	4468.0	3810.3	3402.8	3443.9	3715.6	3974.7	4083.8	3962.2
5956.7	22.5°	5692.2	5152.5	4426.9	3578.0	3193.7	3322.4	3594.1	3821.0	3949.7	3912.2
6142.6	25°	5865.6	5270.5	4366.1	3327.8	3020.4	3199.1	3452.9	3637.0	3726.3	3724.5
6342.8	27.5°	6072.9	5427.7	4334.0	3125.8	2897.1	3059.7	3284.9	3449.3	3511.9	3511.9
6591.2	30°	6314.2	5613.6	4298.2	2993.6	2825.6	2914.9	3090.1	3250.9	3313.5	3313.5
6862.9	32.5°	6582.3	5792.3	4212.4	2913.1	2771.9	2773.7	2884.5	3031.1	3106.2	3116.9
7202.4	35°	6904.0	5983.6	4024.8	2848.8	2709.4	2636.1	2689.7	2811.3	2900.6	2923.9
7686.8	37.5°	7325.7	6217.7	3756.7	2754.1	2612.9	2491.4	2503.9	2596.8	2695.1	2730.8
8355.2	40°	7892.3	6492.9	3477.9	2618.3	2477.1	2332.3	2326.9	2394.9	2491.4	2530.7
9259.5	42.5°	8641.1	6823.5	3211.6	2487.8	2312.6	2164.3	2155.4	2209.0	2293.0	2334.1
10453.3	45°	9599.1	7229.2	2982.8	2385.9	2151.8	2005.2	2001.7	2046.3	2119.6	2162.5
11981.4	47.5°	10930.5	7634.9	2827.4	2332.3	2024.9	1874.8	1881.9	1921.2	1987.4	2017.8
13959.8	50°	12665.9	7758.2	2748.7	2332.3	1957.0	1758.6	1794.4	1826.5	1876.6	1894.4
16331.4	52.5°	14331.6	7350.8	2677.2	2346.6	1965.9	1660.3	1737.2	1760.4	1803.3	1810.4
18529.7	55°	15148.3	6319.5	2578.9	2350.2	2021.3	1576.3	1690.7	1733.6	1749.7	1747.9
19805.8	57.5°	14867.7	5109.6	2412.7	2335.9	2058.9	1522.7	1633.5	1715.7	1726.4	1710.4
19562.7	60°	13883.0	3762.1	2285.8	2230.4	2044.6	1506.6	1545.9	1676.4	1692.5	1671.0
17689.7	62.5°	12231.6	2611.1	2187.5	1998.1	1982.0	1501.2	1408.3	1590.6	1629.9	1599.5
14219.0	65°	9629.4	1844.4	1883.7	1751.5	1846.2	1472.7	1265.3	1487.0	1540.6	1494.1
10315.7	67.5°	6516.1	1331.5	1526.3	1587.0	1626.4	1408.3	1161.7	1369.0	1440.5	1379.7
6619.8	70°	3519.0	934.7	1008.0	1336.8	1381.5	1297.5	1068.7	1249.3	1331.5	1265.3
4705.7	72.5°	2078.5	672.0	705.9	1074.1	1151.0	1142.0	965.1	1109.9	1209.9	1131.3
3247.3	75°	1145.6	453.9	504.0	779.2	934.7	881.1	829.3	940.1	1041.9	965.1
2035.6	77.5°	512.9	271.7	350.3	511.1	734.5	604.1	641.6	732.8	827.5	747.1
1133.1	80°	198.4	151.9	232.3	278.8	534.4	334.2	412.8	539.7	607.6	543.3
246.6	82.5°	25.0	67.9	100.1	109.0	311.0	176.9	239.5	339.6	334.2	289.5
0.0	85°	0.0	12.5	14.3	7.1	134.0	64.3	78.6	110.8	103.7	78.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	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°
3592.3	0°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
3217.0	2.5°	3129.4	3065.1	3032.9	3006.1	3031.1	3045.4	3045.4	3106.2	3141.9	3156.2
2914.9	5°	2757.7	2637.9	2557.5	2509.2	2525.3	2543.2	2562.8	2639.7	2691.5	2725.5
2705.8	7.5°	2464.6	2282.3	2169.7	2110.7	2119.6	2132.1	2148.2	2223.3	2275.1	2319.8
2666.5	10°	2319.8	2062.4	1914.1	1842.6	1830.1	1822.9	1817.6	1862.3	1901.6	1937.3
2827.4	12.5°	2326.9	1967.7	1787.2	1699.6	1662.1	1619.2	1585.2	1592.4	1617.4	1662.1
3115.1	15°	2418.1	1937.3	1721.1	1612.1	1549.5	1499.5	1458.4	1449.4	1458.4	1465.5
3443.9	17.5°	2541.4	1933.8	1663.9	1528.1	1463.7	1422.6	1385.1	1372.6	1374.4	1383.3
3662.0	20°	2639.7	1923.0	1599.5	1447.6	1390.4	1354.7	1317.2	1304.7	1308.2	1310.0
3683.4	22.5°	2691.5	1906.9	1528.1	1367.2	1319.0	1283.2	1249.3	1247.5	1247.5	1258.2
3567.3	25°	2691.5	1873.0	1463.7	1290.4	1247.5	1215.3	1174.2	1181.3	1184.9	1199.2
3386.7	27.5°	2627.2	1808.6	1411.9	1224.2	1179.6	1147.4	1109.9	1118.8	1124.1	1140.2
3208.0	30°	2545.0	1731.8	1352.9	1161.7	1109.9	1086.6	1054.4	1058.0	1065.2	1083.0
3041.8	32.5°	2457.4	1640.7	1304.7	1099.1	1047.3	1029.4	993.7	999.0	1006.2	1025.9
2877.4	35°	2360.9	1533.4	1247.5	1041.9	990.1	975.8	934.7	938.3	949.0	970.5
2700.5	37.5°	2259.0	1445.8	1190.3	986.5	932.9	918.6	875.7	879.3	891.8	916.8
2514.6	40°	2158.9	1360.1	1129.5	927.6	873.9	861.4	815.0	818.5	832.8	859.6
2326.9	42.5°	2049.9	1293.9	1050.9	866.8	809.6	797.1	754.2	759.6	775.6	802.5
2153.6	45°	1919.5	1251.0	963.3	809.6	745.3	732.8	693.4	704.2	722.0	748.8
2005.2	47.5°	1785.4	1233.2	890.0	748.8	679.1	668.4	636.2	654.1	673.8	695.2
1878.3	50°	1656.7	1209.9	815.0	691.6	621.9	611.2	589.8	613.0	632.7	652.3
1787.2	52.5°	1510.2	1159.9	747.1	641.6	573.7	570.1	559.4	580.8	598.7	616.6
1708.6	55°	1358.3	1079.5	688.1	596.9	532.6	536.2	530.8	548.7	563.0	579.1
1637.1	57.5°	1226.0	977.6	641.6	548.7	496.8	507.6	500.4	509.4	518.3	537.9
1551.3	60°	1092.0	856.1	589.8	491.5	461.1	473.6	453.9	452.2	455.7	461.1
1424.4	62.5°	911.5	729.2	525.4	441.4	421.8	427.1	389.6	361.0	361.0	366.4
1247.5	65°	732.8	611.2	453.9	384.2	368.2	364.6	311.0	271.7	268.1	284.2
1041.9	67.5°	602.3	507.6	382.5	319.9	309.2	312.8	273.4	234.1	230.5	248.4
848.9	70°	498.6	409.3	305.6	246.6	257.4	273.4	234.1	196.6	191.2	207.3
689.9	72.5°	396.8	319.9	234.1	182.3	212.7	232.3	191.2	155.5	151.9	166.2
532.6	75°	291.3	228.8	159.1	132.3	164.4	182.3	139.4	110.8	105.4	118.0
355.7	77.5°	180.5	128.7	100.1	78.6	112.6	121.5	73.3	64.3	62.6	71.5
216.3	80°	84.0	55.4	48.3	26.8	41.1	48.3	30.4	34.0	35.7	42.9
109.0	82.5°	23.2	8.9	1.8	0.0	0.0	14.3	7.1	14.3	17.9	26.8
8.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	8.9	16.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
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°
3592.3	0°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
3256.3	2.5°	3331.3	3402.8	3517.2	3635.2	3751.3	3869.3	3983.7	4024.8
2881.0	5°	3022.2	3186.6	3413.6	3656.6	3906.8	4160.6	4392.9	4498.4
2493.1	7.5°	2677.2	2913.1	3254.5	3635.2	4033.7	4432.3	4798.6	4968.4
2108.9	10°	2309.1	2607.5	2997.1	3511.9	4083.8	4634.2	5138.2	5358.0
1771.1	12.5°	1958.8	2271.5	2702.2	3318.8	4044.4	4750.4	5356.2	5615.4
1533.4	15°	1665.7	1942.7	2407.4	3090.1	3917.5	4757.5	5459.9	5744.1
1401.2	17.5°	1445.8	1626.4	2107.1	2836.3	3751.3	4691.4	5495.6	5799.5
1329.7	20°	1336.8	1386.9	1717.5	2511.0	3595.8	4628.9	5531.4	5851.3
1272.5	22.5°	1272.5	1285.0	1404.7	2091.0	3410.0	4609.2	5593.9	5922.8
1220.7	25°	1220.7	1224.2	1256.4	1656.7	3125.8	4596.7	5690.5	6021.1
1167.0	27.5°	1168.8	1168.8	1186.7	1335.0	2739.8	4543.1	5815.6	6139.0
1113.4	30°	1117.0	1117.0	1129.5	1181.3	2287.6	4437.6	5965.7	6292.7
1059.8	32.5°	1063.4	1063.4	1074.1	1111.6	1826.5	4305.4	6103.3	6448.2
1004.4	35°	1009.8	1006.2	1020.5	1059.8	1453.0	4137.4	6240.9	6616.2
949.0	37.5°	952.6	950.8	965.1	1009.8	1254.6	3942.6	6344.6	6845.0
893.6	40°	891.8	891.8	907.9	956.2	1197.4	3697.7	6509.0	7173.8
836.4	42.5°	836.4	832.8	850.7	909.7	1154.5	3463.6	6803.9	7652.8
784.6	45°	782.8	775.6	791.7	865.0	1079.5	3381.4	7354.3	8360.5
734.5	47.5°	732.8	714.9	729.2	811.4	1011.6	3688.8	8255.1	9341.7
689.9	50°	691.6	657.7	670.2	757.8	959.7	4355.4	9423.9	10644.6
648.8	52.5°	648.8	604.1	611.2	691.6	913.3	4989.9	10691.0	12363.9
607.6	55°	604.1	554.0	557.6	625.5	847.1	5084.6	11927.8	14708.7
561.2	57.5°	554.0	507.6	507.6	564.8	798.9	4407.2	12878.6	17618.2
504.0	60°	498.6	468.2	459.3	516.5	841.8	3109.7	12989.4	19494.8
430.7	62.5°	437.9	421.8	409.3	470.0	873.9	1842.6	12097.6	19040.8
339.6	65°	368.2	364.6	355.7	516.5	736.3	1088.4	10385.4	17648.6
289.5	67.5°	309.2	303.8	303.8	541.5	559.4	684.5	8113.9	15732.7
246.6	70°	266.3	246.6	246.6	409.3	339.6	473.6	5665.4	13664.9
203.7	72.5°	223.4	202.0	187.7	327.1	253.8	346.7	3540.4	11702.6
155.5	75°	178.7	162.6	144.8	216.3	189.4	262.7	2057.1	9695.6
98.3	77.5°	128.7	121.5	101.9	159.1	137.6	189.4	1224.2	7481.2
60.8	80°	66.1	67.9	64.3	91.1	92.9	128.7	697.0	5120.3
39.3	82.5°	39.3	30.4	34.0	44.7	53.6	73.3	262.7	3009.6
28.6	85°	25.0	16.1	16.1	21.4	26.8	28.6	80.4	1220.7
14.3	87.5°	12.5	5.4	7.1	10.7	8.9	7.1	3.6	307.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)