

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: P951853

Luminaire Tested: **GALN-SB5D-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951853  
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-SB5D-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

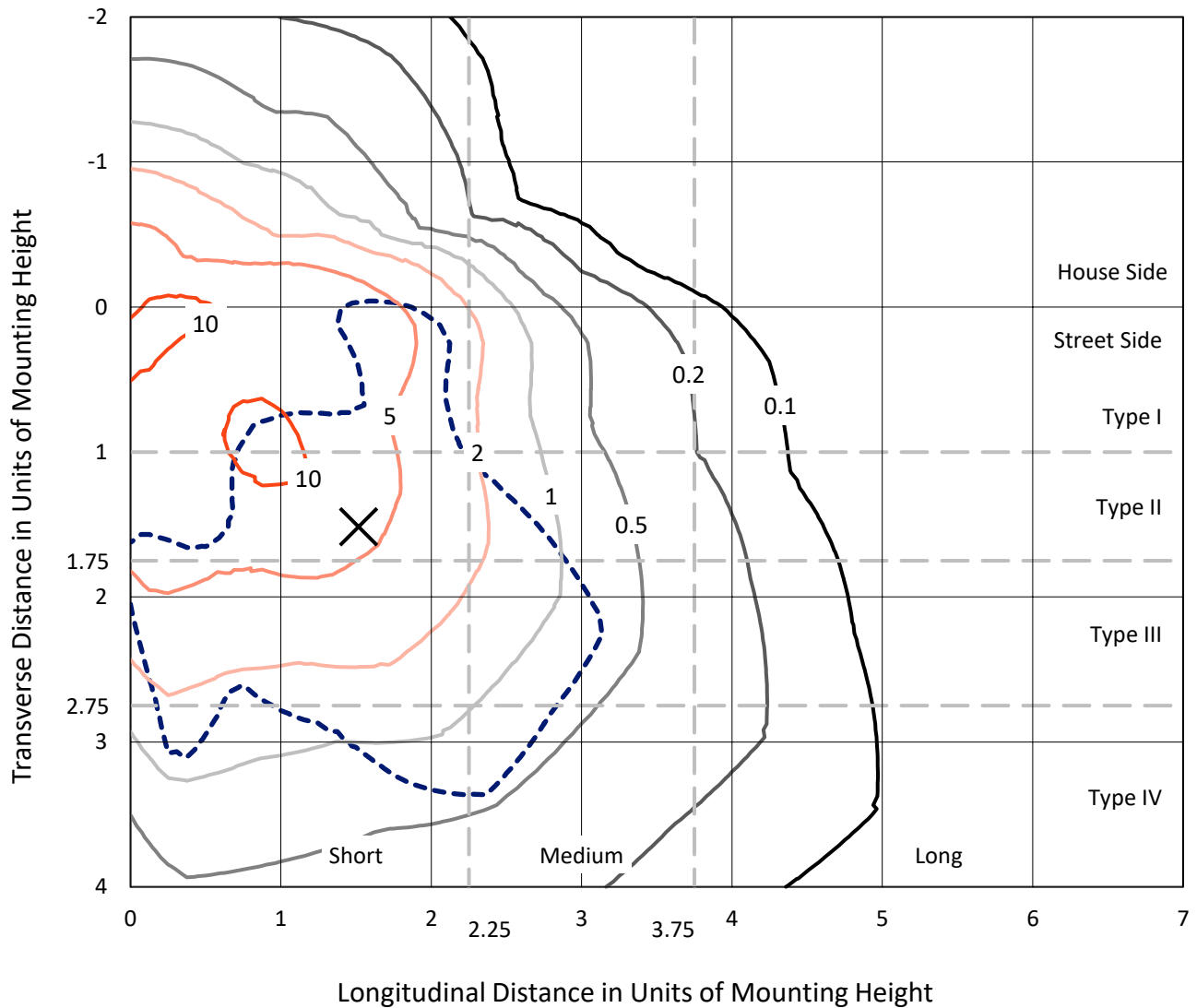
Lumens per Lamp: N/A  
Luminaire Lumens: 37525 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

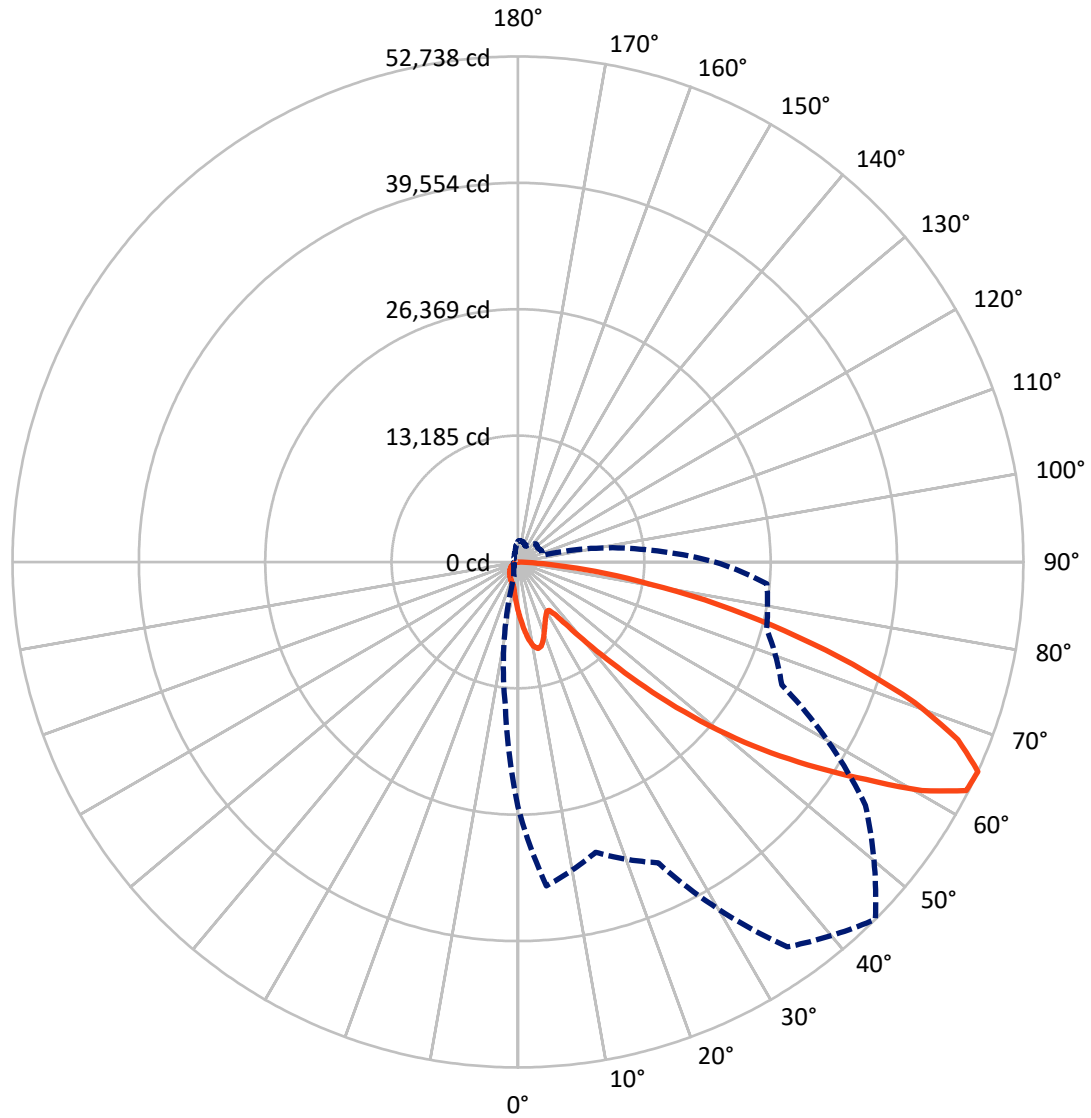
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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
<b>House Side</b>	Lumens	7458.8	0.0	7458.8
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	30066.2	0.0	30066.2
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	37525.0	0.0	37525.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.6	1.4
10°-20°	1533.5	4.1
20°-30°	2259.2	6.0
30°-40°	2902.4	7.7
40°-50°	4694.1	12.5
50°-60°	8231.6	21.9
60°-70°	10299.9	27.4
70°-80°	6018.8	16.0
80°-90°	1073.8	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°	37525.0	100.0
0°-180°	37525.0	100.0



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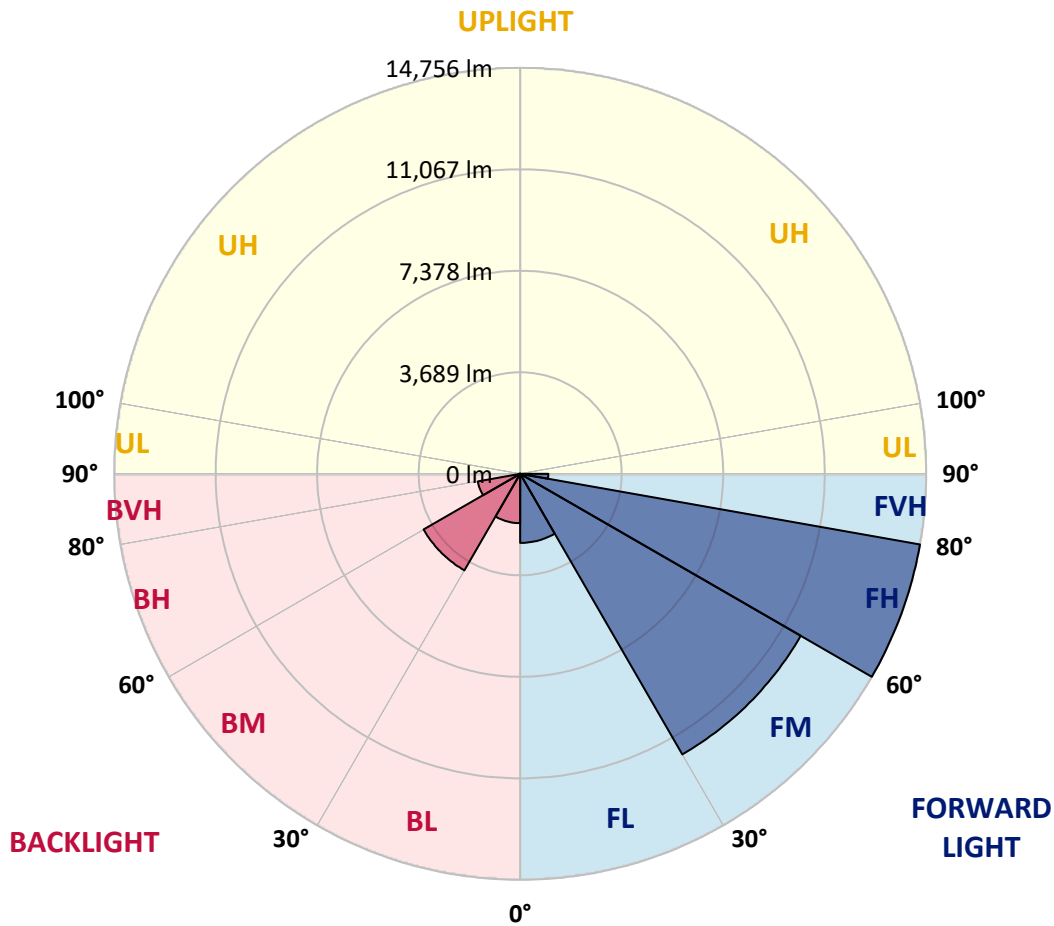
CATALOG NUMBER: GALN-SB5D-850-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2510.9	6.7			
FM (30°-60°)	11775.8	31.4			
FH (60°-80°)	14756.0	39.3			G5
FVH (80°-90°)	1023.5	2.7			G5
BL (0°-30°)	1793.4	4.8	B3/2500		
BM (30°-60°)	4052.3	10.8	B3/5000		
BH (60°-80°)	1562.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	50.3	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
2.5°	5821.6	5865.5	5963.8	6015.5	6095.6	6100.8	6100.8	6031.0	6028.4	5886.2
5°	6506.6	6610.1	6842.7	7083.1	7134.8	7147.7	7121.9	6982.3	6878.9	6602.3
7.5°	7186.5	7385.6	7739.7	8060.3	8163.7	8163.7	8101.6	7874.2	7662.2	7261.5
10°	7750.1	8000.8	8481.6	8841.0	8959.9	8934.0	8807.4	8520.4	8228.3	7742.3
12.5°	8122.3	8404.1	8931.5	9221.0	9342.5	9275.3	9130.5	8851.3	8543.7	8031.8
15°	8308.4	8603.1	9060.7	9213.2	9179.6	9109.8	9091.7	8957.3	8724.6	8246.4
17.5°	8388.6	8662.6	8980.6	8884.9	8600.6	8546.3	8727.2	8897.8	8841.0	8432.5
20°	8463.6	8693.6	8789.3	8365.3	7869.0	7819.9	8166.3	8652.3	8900.4	8605.7
22.5°	8567.0	8709.1	8512.7	7817.3	7282.2	7168.4	7551.0	8282.6	8918.5	8825.5
25°	8709.1	8747.9	8207.6	7297.7	6760.0	6646.2	7003.0	7871.6	8887.5	9063.3
27.5°	8879.8	8799.6	7915.5	6863.4	6343.8	6237.8	6594.5	7476.1	8799.6	9301.1
30°	9102.1	8866.8	7626.0	6527.3	6046.5	5969.0	6312.8	7134.8	8691.0	9603.6
32.5°	9327.0	8895.3	7357.1	6330.9	5979.3	6007.7	6289.5	6951.3	8572.1	9893.1
35°	9570.0	8985.7	7225.3	6524.7	6540.3	6788.4	6904.7	7121.9	8554.0	10286.0
37.5°	9900.9	9187.4	7383.0	7489.0	8026.7	8541.1	8445.5	7956.9	8763.4	10872.8
40°	10376.5	9541.5	8070.6	9130.5	10234.3	11069.3	10704.8	9474.3	9404.5	11718.2
42.5°	11069.3	10105.1	9290.8	11136.5	13008.1	14383.4	13406.2	11431.2	10526.4	12925.4
45°	12093.0	11017.6	10766.9	13253.7	16428.2	18594.5	16562.6	13517.4	12098.2	14753.1
47.5°	13512.2	12359.3	12149.9	15484.6	20585.0	23387.2	20062.8	15451.0	13887.1	17245.1
50°	15396.7	14166.2	13460.5	17924.9	25142.5	28273.0	23560.4	17317.5	15937.0	20290.3
52.5°	17883.6	16686.7	14988.3	20248.9	29829.2	33055.4	27073.5	18956.4	18480.7	23824.1
55°	21275.2	20479.0	17077.0	22466.9	34513.4	37866.3	30449.7	20502.3	21841.3	28022.3
57.5°	25483.7	26052.4	20088.7	25039.1	38724.5	42824.4	33841.3	22663.4	26205.0	32716.8
60°	28198.1	33463.9	25856.0	28841.7	43509.5	48431.5	38489.3	26773.7	30790.9	34399.7
62.5°	27541.4	35821.5	32763.3	33696.5	47909.3	52508.2	43044.2	30902.1	31654.3	31920.6
65°	25527.7	33918.8	31354.4	34640.1	49023.5	52738.2	44261.7	30369.5	26851.2	26060.2
67.5°	22756.5	31662.1	28006.8	32137.7	47009.7	49522.4	41994.6	26864.2	20750.4	19556.1
70°	19765.5	29164.9	25809.4	29330.3	43170.8	43917.9	38140.3	23627.6	15262.3	13207.2
72.5°	16927.1	26564.3	24304.9	26453.1	38049.8	36503.9	33122.6	20766.0	11113.3	9526.0
75°	14024.1	22728.0	22161.9	23035.7	31315.7	28753.9	27520.8	17193.4	8722.1	6891.8
77.5°	10821.1	17759.5	19062.4	18447.1	22043.0	21357.9	21332.1	12920.2	6372.2	4598.9
80°	7406.3	12377.4	14892.6	13013.3	14305.8	13956.8	16066.3	8667.8	4622.1	2768.6
82.5°	4353.3	7535.5	10366.2	6299.8	7910.3	8119.7	9567.4	4216.3	2719.5	638.5
85°	1765.6	2975.4	4053.4	2466.2	3815.6	3218.4	3632.0	1184.0	757.4	15.5
87.5°	444.6	951.3	667.0	276.6	442.0	405.9	320.5	144.8	31.0	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
5870.7	2.5°	5769.9	5710.4	5563.1	5415.7	5296.8	5136.6	5030.6	4903.9	4782.4	4673.8
6542.8	5°	6380.0	6183.5	5914.7	5669.1	5418.3	5175.3	4934.9	4681.6	4448.9	4306.7
7111.6	7.5°	6876.3	6529.9	6173.2	5860.4	5557.9	5273.6	4955.6	4648.0	4283.5	4089.6
7545.8	10°	7246.0	6791.0	6323.1	5963.8	5658.7	5382.1	5113.3	4803.1	4363.6	4120.6
7809.5	12.5°	7489.0	6948.7	6400.7	5989.6	5648.4	5433.8	5314.9	5193.4	4756.5	4472.2
8003.4	15°	7657.0	7059.9	6454.9	5930.2	5511.4	5353.7	5472.6	5612.2	5333.0	5004.7
8205.0	17.5°	7840.5	7204.6	6478.2	5769.9	5245.1	5177.9	5485.5	5808.7	5795.8	5470.0
8396.3	20°	8034.4	7331.3	6462.7	5511.4	4922.0	4981.5	5374.4	5749.2	5906.9	5731.1
8616.1	22.5°	8233.5	7452.8	6403.2	5175.3	4619.5	4805.7	5198.6	5526.9	5713.0	5658.7
8884.9	25°	8484.2	7623.4	6315.4	4813.4	4368.8	4627.3	4994.4	5260.6	5389.9	5387.3
9174.5	27.5°	8784.1	7850.9	6268.8	4521.3	4190.4	4425.7	4751.4	4989.2	5079.7	5079.7
9533.8	30°	9133.1	8119.7	6217.1	4330.0	4087.0	4216.3	4469.6	4702.3	4792.7	4792.7
9926.7	32.5°	9520.9	8378.2	6093.0	4213.7	4009.5	4012.0	4172.3	4384.3	4492.9	4508.4
10417.9	35°	9986.2	8654.8	5821.6	4120.6	3919.0	3813.0	3890.5	4066.3	4195.6	4229.2
11118.4	37.5°	10596.2	8993.5	5433.8	3983.6	3779.4	3603.6	3621.7	3756.1	3898.3	3950.0
12085.3	40°	11415.7	9391.6	5030.6	3787.1	3582.9	3373.5	3365.8	3464.0	3603.6	3660.5
13393.3	42.5°	12498.9	9869.8	4645.4	3598.4	3345.1	3130.5	3117.6	3195.2	3316.7	3376.1
15120.1	45°	13884.5	10456.7	4314.5	3451.1	3112.4	2900.5	2895.3	2959.9	3065.9	3127.9
17330.4	47.5°	15810.4	11043.5	4089.6	3373.5	2928.9	2711.7	2722.1	2779.0	2874.6	2918.6
20192.1	50°	18320.5	11221.8	3975.9	3373.5	2830.7	2543.7	2595.4	2642.0	2714.3	2740.2
23622.5	52.5°	20729.8	10632.4	3872.5	3394.2	2843.6	2401.5	2512.7	2546.3	2608.3	2618.7
26802.1	55°	21911.1	9140.8	3730.3	3399.4	2923.7	2280.0	2445.5	2507.5	2530.8	2528.2
28647.9	57.5°	21505.3	7390.7	3489.9	3378.7	2978.0	2202.5	2362.8	2481.7	2497.2	2473.9
28296.3	60°	20080.9	5441.6	3306.3	3226.2	2957.3	2179.2	2236.1	2424.8	2448.1	2417.1
25587.1	62.5°	17692.3	3776.8	3164.1	2890.1	2866.9	2171.5	2037.0	2300.7	2357.6	2313.6
20566.9	65°	13928.4	2667.8	2724.7	2533.4	2670.4	2130.1	1830.2	2150.8	2228.3	2161.1
14921.1	67.5°	9425.2	1925.9	2207.7	2295.6	2352.4	2037.0	1680.3	1980.2	2083.6	1995.7
9575.1	70°	5090.0	1352.0	1458.0	1933.6	1998.3	1876.8	1545.9	1807.0	1925.9	1830.2
6806.5	72.5°	3006.4	972.0	1021.1	1553.6	1664.8	1651.9	1395.9	1605.3	1750.1	1636.4
4697.1	75°	1657.0	656.6	729.0	1127.1	1352.0	1274.4	1199.5	1359.8	1507.1	1395.9
2944.4	77.5°	741.9	392.9	506.7	739.3	1062.5	873.8	928.0	1059.9	1196.9	1080.6
1638.9	80°	286.9	219.7	336.1	403.3	772.9	483.4	597.2	780.7	878.9	785.9
356.7	82.5°	36.2	98.2	144.8	157.7	449.8	255.9	346.4	491.2	483.4	418.8
0.0	85°	0.0	18.1	20.7	10.3	193.9	93.1	113.7	160.3	149.9	113.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
4653.1	2.5°	4526.5	4433.4	4386.9	4348.1	4384.3	4405.0	4405.0	4492.9	4544.6	4565.3
4216.3	5°	3988.8	3815.6	3699.3	3629.5	3652.7	3678.6	3707.0	3818.2	3893.1	3942.2
3913.8	7.5°	3564.8	3301.1	3138.3	3053.0	3065.9	3084.0	3107.3	3215.8	3290.8	3355.4
3856.9	10°	3355.4	2983.2	2768.6	2665.2	2647.1	2636.8	2629.0	2693.7	2750.5	2802.2
4089.6	12.5°	3365.8	2846.2	2585.1	2458.4	2404.1	2342.1	2293.0	2303.3	2339.5	2404.1
4505.8	15°	3497.6	2802.2	2489.4	2331.7	2241.3	2168.9	2109.4	2096.5	2109.4	2119.8
4981.5	17.5°	3676.0	2797.1	2406.7	2210.2	2117.2	2057.7	2003.4	1985.3	1987.9	2000.9
5296.8	20°	3818.2	2781.5	2313.6	2093.9	2011.2	1959.5	1905.2	1887.1	1892.3	1894.9
5327.9	22.5°	3893.1	2758.3	2210.2	1977.6	1907.8	1856.1	1807.0	1804.4	1804.4	1819.9
5159.8	25°	3893.1	2709.2	2117.2	1866.4	1804.4	1757.9	1698.4	1708.7	1713.9	1734.6
4898.7	27.5°	3800.1	2616.1	2042.2	1770.8	1706.2	1659.6	1605.3	1618.3	1626.0	1649.3
4640.2	30°	3681.2	2504.9	1956.9	1680.3	1605.3	1571.7	1525.2	1530.4	1540.7	1566.6
4399.8	32.5°	3554.5	2373.1	1887.1	1589.8	1514.9	1489.0	1437.3	1445.1	1455.4	1483.8
4162.0	35°	3414.9	2218.0	1804.4	1507.1	1432.1	1411.5	1352.0	1357.2	1372.7	1403.7
3906.1	37.5°	3267.5	2091.3	1721.7	1427.0	1349.4	1328.7	1266.7	1271.9	1290.0	1326.1
3637.2	40°	3122.8	1967.2	1633.8	1341.7	1264.1	1246.0	1178.8	1184.0	1204.6	1243.4
3365.8	42.5°	2965.1	1871.6	1520.0	1253.8	1171.0	1152.9	1090.9	1098.7	1121.9	1160.7
3115.0	45°	2776.4	1809.6	1393.4	1171.0	1078.0	1059.9	1003.0	1018.5	1044.4	1083.1
2900.5	47.5°	2582.5	1783.7	1287.4	1083.1	982.3	966.8	920.3	946.1	974.6	1005.6
2716.9	50°	2396.4	1750.1	1178.8	1000.4	899.6	884.1	853.1	886.7	915.1	943.6
2585.1	52.5°	2184.4	1677.7	1080.6	928.0	829.8	824.6	809.1	840.2	866.0	891.9
2471.3	55°	1964.7	1561.4	995.3	863.4	770.4	775.5	767.8	793.6	814.3	837.6
2367.9	57.5°	1773.4	1414.0	928.0	793.6	718.7	734.2	723.8	736.7	749.7	778.1
2243.8	60°	1579.5	1238.3	853.1	710.9	667.0	685.0	656.6	654.0	659.2	667.0
2060.3	62.5°	1318.4	1054.7	760.0	638.5	610.1	617.8	563.5	522.2	522.2	529.9
1804.4	65°	1059.9	884.1	656.6	555.8	532.5	527.4	449.8	392.9	387.8	411.0
1507.1	67.5°	871.2	734.2	553.2	462.7	447.2	452.4	395.5	338.6	333.5	359.3
1227.9	70°	721.2	592.0	442.0	356.7	372.3	395.5	338.6	284.4	276.6	299.9
997.8	72.5°	573.9	462.7	338.6	263.7	307.6	336.1	276.6	224.9	219.7	240.4
770.4	75°	421.4	330.9	230.1	191.3	237.8	263.7	201.6	160.3	152.5	170.6
514.4	77.5°	261.1	186.1	144.8	113.7	162.9	175.8	106.0	93.1	90.5	103.4
312.8	80°	121.5	80.1	69.8	38.8	59.5	69.8	43.9	49.1	51.7	62.0
157.7	82.5°	33.6	12.9	2.6	0.0	0.0	20.7	10.3	20.7	25.9	38.8
12.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9	23.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
4710.0	2.5°	4818.6	4922.0	5087.4	5258.1	5426.1	5596.7	5762.1	5821.6
4167.1	5°	4371.4	4609.2	4937.5	5289.1	5651.0	6018.1	6354.1	6506.6
3606.2	7.5°	3872.5	4213.7	4707.4	5258.1	5834.5	6411.0	6940.9	7186.5
3050.4	10°	3339.9	3771.6	4335.2	5079.7	5906.9	6703.1	7432.1	7750.1
2561.8	12.5°	2833.2	3285.6	3908.6	4800.5	5850.0	6871.1	7747.5	8122.3
2218.0	15°	2409.3	2810.0	3482.1	4469.6	5666.5	6881.5	7897.4	8308.4
2026.7	17.5°	2091.3	2352.4	3047.8	4102.5	5426.1	6785.8	7949.1	8388.6
1923.3	20°	1933.6	2006.0	2484.3	3632.0	5201.2	6695.4	8000.8	8463.6
1840.6	22.5°	1840.6	1858.7	2031.9	3024.5	4932.3	6666.9	8091.3	8567.0
1765.6	25°	1765.6	1770.8	1817.3	2396.4	4521.3	6648.8	8230.9	8709.1
1688.1	27.5°	1690.6	1690.6	1716.5	1931.1	3962.9	6571.3	8411.9	8879.8
1610.5	30°	1615.7	1615.7	1633.8	1708.7	3308.9	6418.8	8629.0	9102.1
1533.0	32.5°	1538.1	1538.1	1553.6	1607.9	2642.0	6227.5	8828.0	9327.0
1452.8	35°	1460.6	1455.4	1476.1	1533.0	2101.7	5984.5	9027.1	9570.0
1372.7	37.5°	1377.8	1375.3	1395.9	1460.6	1814.7	5702.7	9177.0	9900.9
1292.5	40°	1290.0	1290.0	1313.2	1383.0	1732.0	5348.5	9414.9	10376.5
1209.8	42.5°	1209.8	1204.6	1230.5	1315.8	1670.0	5009.9	9841.4	11069.3
1134.9	45°	1132.3	1121.9	1145.2	1251.2	1561.4	4891.0	10637.6	12093.0
1062.5	47.5°	1059.9	1034.0	1054.7	1173.6	1463.2	5335.6	11940.5	13512.2
997.8	50°	1000.4	951.3	969.4	1096.1	1388.2	6299.8	13631.1	15396.7
938.4	52.5°	938.4	873.8	884.1	1000.4	1321.0	7217.5	15464.0	17883.6
878.9	55°	873.8	801.4	806.5	904.8	1225.3	7354.6	17252.8	21275.2
811.7	57.5°	801.4	734.2	734.2	816.9	1155.5	6374.8	18628.1	25483.7
729.0	60°	721.2	677.3	664.4	747.1	1217.6	4498.0	18788.4	28198.1
623.0	62.5°	633.3	610.1	592.0	679.9	1264.1	2665.2	17498.4	27541.4
491.2	65°	532.5	527.4	514.4	747.1	1065.1	1574.3	15021.9	25527.7
418.8	67.5°	447.2	439.5	439.5	783.3	809.1	990.1	11736.3	22756.5
356.7	70°	385.2	356.7	356.7	592.0	491.2	685.0	8194.7	19765.5
294.7	72.5°	323.1	292.1	271.4	473.1	367.1	501.5	5121.0	16927.1
224.9	75°	258.5	235.2	209.4	312.8	274.0	380.0	2975.4	14024.1
142.2	77.5°	186.1	175.8	147.3	230.1	199.1	274.0	1770.8	10821.1
87.9	80°	95.6	98.2	93.1	131.8	134.4	186.1	1008.2	7406.3
56.9	82.5°	56.9	43.9	49.1	64.6	77.6	106.0	380.0	4353.3
41.4	85°	36.2	23.3	23.3	31.0	38.8	41.4	116.3	1765.6
20.7	87.5°	18.1	7.8	10.3	15.5	12.9	10.3	5.2	444.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)