

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: P956494

Luminaire Tested: **GALN-SB9A-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956494  
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-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

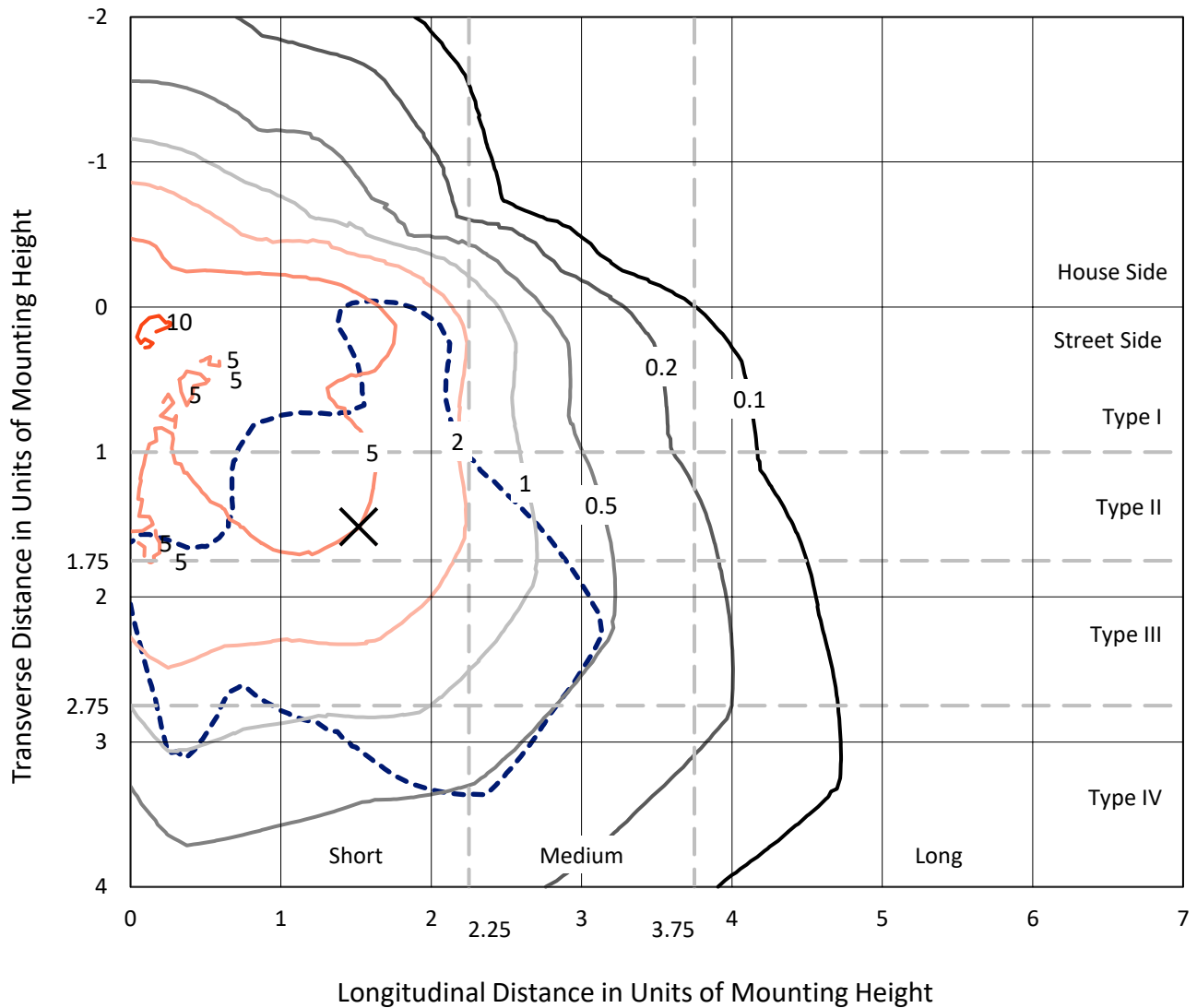
Lumens per Lamp: N/A  
Luminaire Lumens: 29827 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

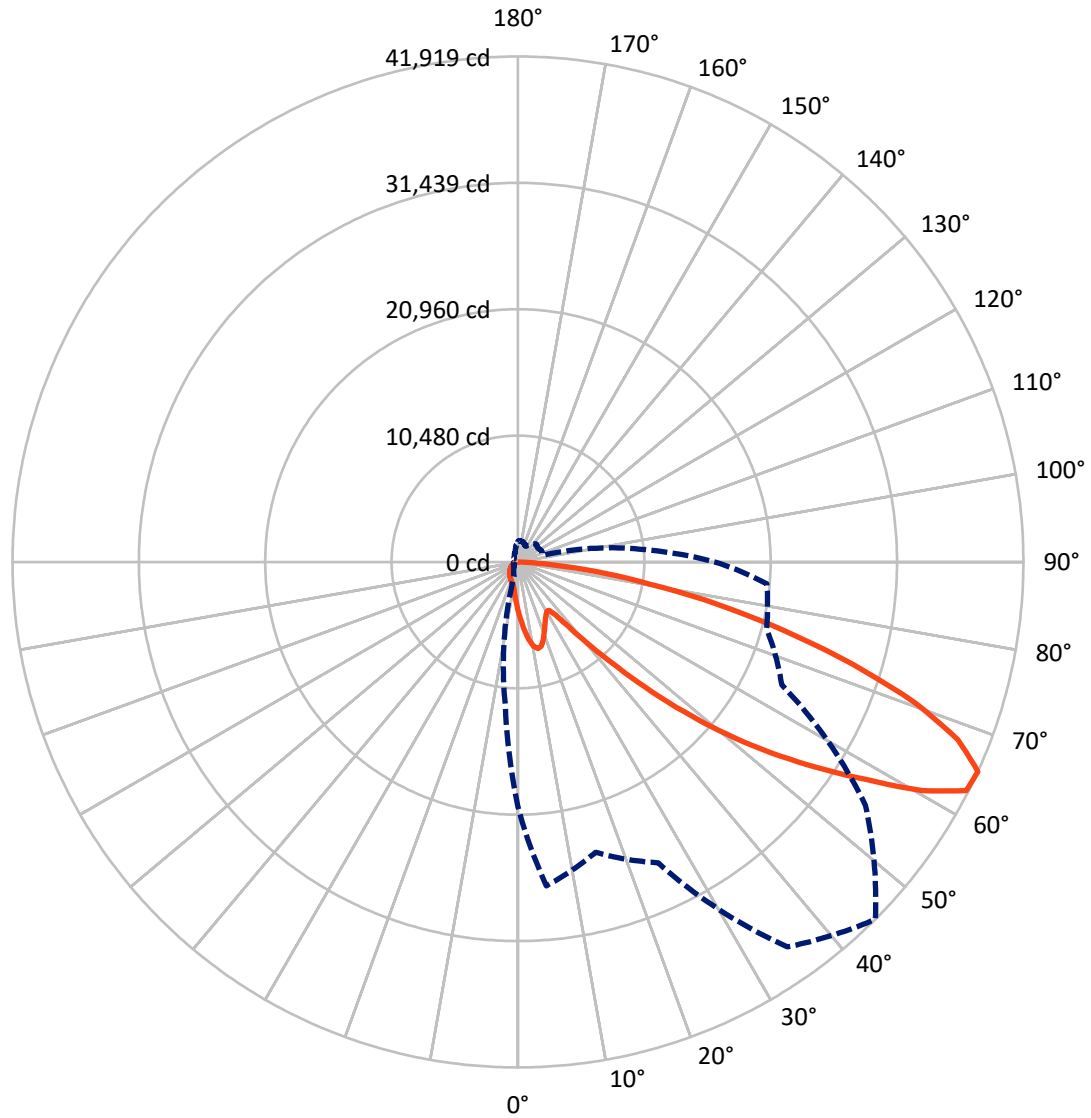
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	5928.7	0.0	5928.7
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	23898.3	0.0	23898.3
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	29827.0	0.0	29827.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.6	1.4
10°-20°	1218.9	4.1
20°-30°	1795.7	6.0
30°-40°	2307.0	7.7
40°-50°	3731.1	12.5
50°-60°	6542.9	21.9
60°-70°	8187.0	27.4
70°-80°	4784.1	16.0
80°-90°	853.6	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°	29827.0	100.0
0°-180°	29827.0	100.0



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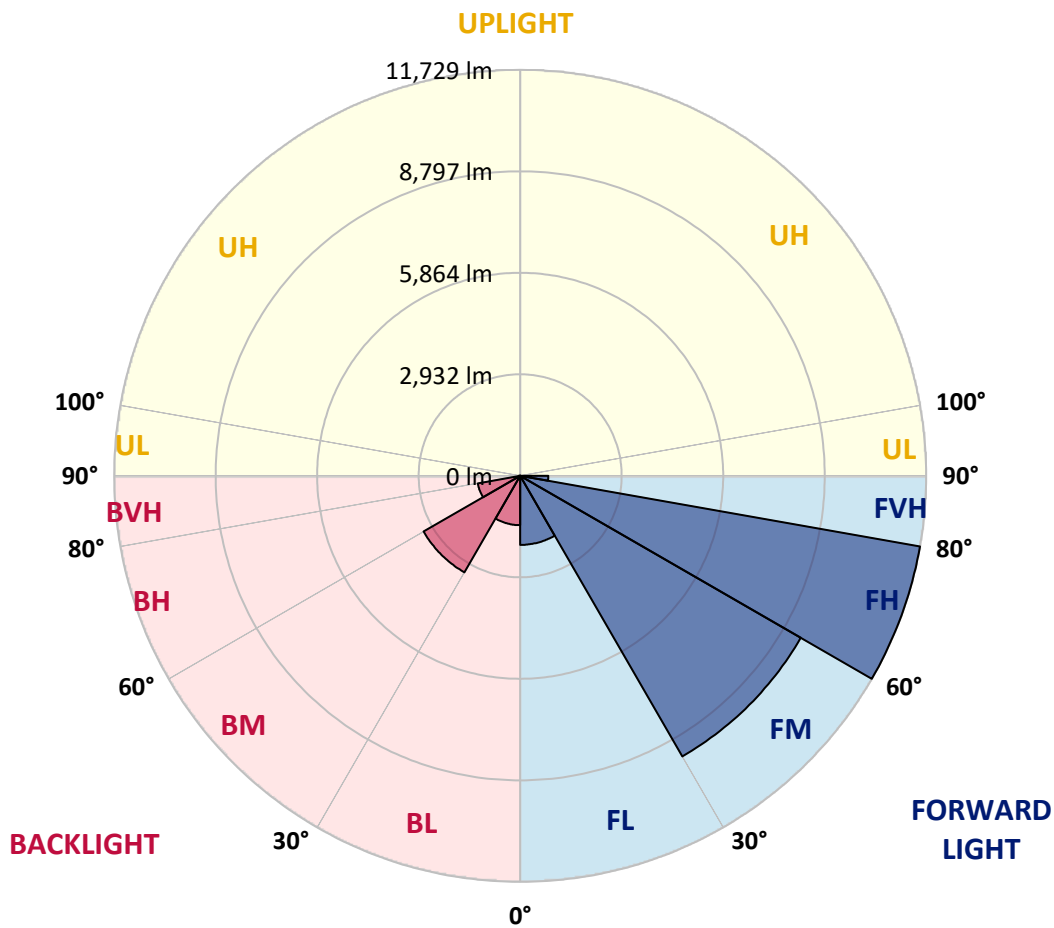
CATALOG NUMBER: GALN-SB9A-850-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.8	6.7			
FM (30°-60°)	9360.1	31.4			
FH (60°-80°)	11728.9	39.3			G4/12000
FVH (80°-90°)	813.6	2.7			G5
BL (0°-30°)	1425.5	4.8	B3/2500		
BM (30°-60°)	3221.0	10.8	B3/5000		
BH (60°-80°)	1242.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	40.0	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°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
2.5°	4627.3	4662.3	4740.4	4781.4	4845.1	4849.3	4849.3	4793.8	4791.7	4678.7
5°	5171.9	5254.0	5439.0	5630.1	5671.2	5681.4	5660.9	5549.9	5467.7	5247.9
7.5°	5712.3	5870.5	6152.0	6406.8	6489.0	6489.0	6439.6	6258.8	6090.3	5771.8
10°	6160.2	6359.5	6741.7	7027.3	7121.8	7101.3	7000.6	6772.5	6540.3	6154.0
12.5°	6456.1	6680.1	7099.2	7329.4	7425.9	7372.5	7257.4	7035.5	6791.0	6384.2
15°	6604.0	6838.3	7202.0	7323.2	7296.5	7241.0	7226.6	7119.8	6934.8	6554.7
17.5°	6667.7	6885.5	7138.3	7062.2	6836.2	6793.1	6936.9	7072.5	7027.3	6702.7
20°	6727.3	6910.2	6986.2	6649.2	6254.7	6215.7	6491.0	6877.3	7074.6	6840.3
22.5°	6809.5	6922.5	6766.4	6213.6	5788.3	5697.9	6002.0	6583.5	7089.0	7015.0
25°	6922.5	6953.3	6523.9	5800.6	5373.2	5282.8	5566.4	6256.8	7064.3	7204.0
27.5°	7058.1	6994.4	6291.7	5455.4	5042.4	4958.2	5241.7	5942.4	6994.4	7393.1
30°	7234.8	7047.9	6061.6	5188.3	4806.1	4744.5	5017.7	5671.2	6908.1	7633.5
32.5°	7413.6	7070.5	5847.9	5032.1	4752.7	4775.3	4999.3	5525.3	6813.6	7863.6
35°	7606.8	7142.4	5743.1	5186.2	5198.6	5395.8	5488.3	5660.9	6799.2	8175.9
37.5°	7869.8	7302.6	5868.4	5952.7	6380.1	6789.0	6712.9	6324.6	6965.7	8642.4
40°	8247.8	7584.2	6415.0	7257.4	8134.8	8798.5	8508.8	7530.7	7475.2	9314.3
42.5°	8798.5	8032.1	7384.8	8851.9	10339.6	11432.7	10656.0	9086.2	8367.0	10273.8
45°	9612.2	8757.4	8558.1	10534.8	13058.1	14780.0	13164.9	10744.4	9616.3	11726.6
47.5°	10740.3	9823.8	9657.4	12308.1	16362.1	18589.5	15947.1	12281.4	11038.2	13707.4
50°	12238.2	11260.1	10699.2	14247.8	19984.7	22473.0	18727.2	13764.9	12667.6	16127.9
52.5°	14214.9	13263.5	11913.5	16095.0	23710.0	26274.3	21519.6	15067.6	14689.5	18936.7
55°	16910.7	16277.9	13573.8	17858.0	27433.2	30098.3	24203.1	16296.4	17360.7	22273.7
57.5°	20255.9	20708.0	15967.6	19902.5	30780.4	34039.3	26899.0	18014.2	20829.2	26005.2
60°	22413.4	26599.0	20551.8	22925.1	34583.8	38496.1	30593.5	21281.2	24474.4	27342.8
62.5°	21891.5	28472.9	26042.1	26783.9	38081.0	41736.5	34214.0	24562.7	25160.6	25372.3
65°	20290.8	26960.6	24922.3	27533.9	38966.6	41919.3	35181.7	24139.4	21342.9	20714.1
67.5°	18088.1	25166.8	22261.4	25544.9	37366.0	39363.2	33379.7	21353.2	16493.6	15544.3
70°	15710.8	23181.9	20514.8	23313.4	34314.6	34908.5	30316.1	18780.6	12131.4	10497.8
72.5°	13454.6	21114.8	19318.9	21026.4	30244.1	29015.4	26327.8	16506.0	8833.5	7571.8
75°	11147.1	18065.5	17615.5	18310.0	24891.5	22855.2	21875.1	13666.3	6932.8	5478.0
77.5°	8601.3	14116.3	15151.9	14662.8	17521.0	16976.5	16956.0	10269.7	5065.0	3655.4
80°	5886.9	9838.2	11837.5	10343.7	11371.1	11093.7	12770.4	6889.6	3673.9	2200.7
82.5°	3460.2	5989.7	8239.6	5007.5	6287.6	6454.0	7604.7	3351.3	2161.6	507.5
85°	1403.4	2365.0	3221.9	1960.2	3032.8	2558.2	2887.0	941.1	602.0	12.3
87.5°	353.4	756.2	530.1	219.9	351.4	322.6	254.8	115.1	24.7	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°
4130.1	0°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
4666.4	2.5°	4586.2	4539.0	4421.9	4304.7	4210.2	4082.8	3998.6	3897.9	3801.3	3715.0
5200.6	5°	5071.2	4915.0	4701.3	4506.1	4306.8	4113.6	3922.6	3721.2	3536.3	3423.2
5652.7	7.5°	5465.7	5190.3	4906.8	4658.2	4417.8	4191.7	3939.0	3694.5	3404.8	3250.6
5997.9	10°	5759.5	5397.9	5026.0	4740.4	4497.9	4278.0	4064.3	3817.8	3468.4	3275.3
6207.5	12.5°	5952.7	5523.2	5087.6	4760.9	4489.7	4319.1	4224.6	4128.0	3780.8	3554.7
6361.6	15°	6086.2	5611.6	5130.8	4713.6	4380.8	4255.4	4349.9	4460.9	4239.0	3978.0
6521.8	17.5°	6232.1	5726.6	5149.3	4586.2	4169.1	4115.7	4360.2	4617.1	4606.8	4347.9
6673.9	20°	6386.2	5827.3	5136.9	4380.8	3912.3	3959.5	4271.9	4569.8	4695.1	4555.4
6848.5	22.5°	6544.4	5923.9	5089.7	4113.6	3671.9	3819.8	4132.1	4393.1	4541.0	4497.9
7062.2	25°	6743.8	6059.5	5019.8	3826.0	3472.6	3678.0	3969.8	4181.5	4284.2	4282.1
7292.4	27.5°	6982.1	6240.3	4982.8	3593.8	3330.8	3517.8	3776.7	3965.7	4037.6	4037.6
7578.0	30°	7259.5	6454.0	4941.7	3441.7	3248.6	3351.3	3552.7	3737.6	3809.5	3809.5
7890.3	32.5°	7567.7	6659.5	4843.1	3349.3	3186.9	3189.0	3316.4	3484.9	3571.2	3583.5
8280.7	35°	7937.6	6879.4	4627.3	3275.3	3115.0	3030.8	3092.4	3232.2	3334.9	3361.6
8837.6	37.5°	8422.5	7148.5	4319.1	3166.4	3004.1	2864.3	2878.7	2985.6	3098.6	3139.7
9606.0	40°	9073.9	7465.0	3998.6	3010.2	2847.9	2681.5	2675.3	2753.4	2864.3	2909.6
10645.8	42.5°	9934.8	7845.1	3692.4	2860.2	2658.9	2488.3	2478.1	2539.7	2636.3	2683.5
12018.3	45°	11036.2	8311.5	3429.4	2743.1	2473.9	2305.5	2301.3	2352.7	2437.0	2486.3
13775.2	47.5°	12567.0	8778.0	3250.6	2681.5	2328.1	2155.5	2163.7	2208.9	2284.9	2319.8
16049.8	50°	14562.1	8919.8	3160.2	2681.5	2250.0	2021.9	2063.0	2100.0	2157.5	2178.1
18776.5	52.5°	16477.2	8451.3	3078.0	2697.9	2260.2	1908.9	1997.2	2023.9	2073.3	2081.5
21303.8	55°	17416.2	7265.7	2965.0	2702.0	2323.9	1812.3	1943.8	1993.1	2011.6	2009.6
22770.9	57.5°	17093.6	5874.6	2773.9	2685.6	2367.1	1750.7	1878.1	1972.6	1984.9	1966.4
22491.5	60°	15961.4	4325.3	2628.0	2564.4	2350.7	1732.2	1777.4	1927.4	1945.9	1921.2
20338.1	62.5°	14062.8	3002.0	2515.0	2297.2	2278.7	1726.0	1619.2	1828.7	1873.9	1839.0
16347.7	65°	11071.1	2120.5	2165.7	2013.7	2122.6	1693.1	1454.8	1709.6	1771.2	1717.8
11860.1	67.5°	7491.7	1530.8	1754.8	1824.6	1869.8	1619.2	1335.6	1574.0	1656.1	1586.3
7610.9	70°	4045.8	1074.6	1158.9	1537.0	1588.3	1491.8	1228.8	1436.3	1530.8	1454.8
5410.2	72.5°	2389.7	772.6	811.6	1234.9	1323.3	1313.0	1109.6	1276.0	1391.1	1300.7
3733.5	75°	1317.1	521.9	579.4	895.9	1074.6	1013.0	953.4	1080.8	1197.9	1109.6
2340.4	77.5°	589.7	312.3	402.7	587.7	844.5	694.5	737.7	842.5	951.4	858.9
1302.7	80°	228.1	174.7	267.1	320.5	614.4	384.2	474.7	620.5	698.6	624.6
283.6	82.5°	28.8	78.1	115.1	125.3	357.5	203.4	275.3	390.4	384.2	332.9
0.0	85°	0.0	14.4	16.4	8.2	154.1	74.0	90.4	127.4	119.2	90.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	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°
4130.1	0°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
3698.6	2.5°	3597.9	3523.9	3486.9	3456.1	3484.9	3501.3	3501.3	3571.2	3612.3	3628.7
3351.3	5°	3170.5	3032.8	2940.4	2884.9	2903.4	2923.9	2946.5	3034.9	3094.5	3133.5
3110.9	7.5°	2833.5	2623.9	2494.5	2426.7	2437.0	2451.3	2469.8	2556.1	2615.7	2667.1
3065.7	10°	2667.1	2371.2	2200.7	2118.5	2104.1	2095.9	2089.7	2141.1	2186.3	2227.4
3250.6	12.5°	2675.3	2262.3	2054.8	1954.1	1910.9	1861.6	1822.6	1830.8	1859.6	1910.9
3581.5	15°	2780.1	2227.4	1978.7	1853.4	1781.5	1724.0	1676.7	1666.4	1676.7	1684.9
3959.5	17.5°	2921.9	2223.3	1913.0	1756.8	1682.9	1635.6	1592.4	1578.1	1580.1	1590.4
4210.2	20°	3034.9	2210.9	1839.0	1664.4	1598.6	1557.5	1514.4	1500.0	1504.1	1506.1
4234.9	22.5°	3094.5	2192.4	1756.8	1571.9	1516.4	1475.3	1436.3	1434.2	1434.2	1446.6
4101.3	25°	3094.5	2153.4	1682.9	1483.5	1434.2	1397.2	1350.0	1358.2	1362.3	1378.7
3893.8	27.5°	3020.5	2079.4	1623.3	1407.5	1356.1	1319.2	1276.0	1286.3	1292.4	1310.9
3688.3	30°	2926.0	1991.1	1555.5	1335.6	1276.0	1249.3	1212.3	1216.4	1224.6	1245.2
3497.2	32.5°	2825.3	1886.3	1500.0	1263.7	1204.1	1183.5	1142.5	1148.6	1156.8	1179.4
3308.2	35°	2714.3	1763.0	1434.2	1197.9	1138.3	1121.9	1074.6	1078.8	1091.1	1115.7
3104.8	37.5°	2597.2	1662.3	1368.5	1134.2	1072.6	1056.2	1006.8	1010.9	1025.3	1054.1
2891.1	40°	2482.2	1563.7	1298.6	1066.4	1004.8	990.4	937.0	941.1	957.5	988.3
2675.3	42.5°	2356.8	1487.7	1208.2	996.6	930.8	916.4	867.1	873.3	891.8	922.6
2476.0	45°	2206.8	1438.3	1107.5	930.8	856.8	842.5	797.3	809.6	830.1	860.9
2305.5	47.5°	2052.7	1417.8	1023.3	860.9	780.8	768.5	731.5	752.0	774.6	799.3
2159.6	50°	1904.8	1391.1	937.0	795.2	715.1	702.7	678.1	704.8	727.4	750.0
2054.8	52.5°	1736.3	1333.5	858.9	737.7	659.6	655.5	643.1	667.8	688.3	708.9
1964.4	55°	1561.6	1241.1	791.1	686.3	612.3	616.4	610.3	630.8	647.3	665.7
1882.2	57.5°	1409.6	1124.0	737.7	630.8	571.2	583.6	575.3	585.6	595.9	618.5
1783.5	60°	1255.5	984.2	678.1	565.1	530.1	544.5	521.9	519.9	524.0	530.1
1637.7	62.5°	1047.9	838.3	604.1	507.5	484.9	491.1	447.9	415.1	415.1	421.2
1434.2	65°	842.5	702.7	521.9	441.8	423.3	419.2	357.5	312.3	308.2	326.7
1197.9	67.5°	692.5	583.6	439.7	367.8	355.5	359.6	314.4	269.2	265.1	285.6
976.0	70°	573.3	470.5	351.4	283.6	295.9	314.4	269.2	226.0	219.9	238.4
793.1	72.5°	456.2	367.8	269.2	209.6	244.5	267.1	219.9	178.8	174.7	191.1
612.3	75°	334.9	263.0	182.9	152.1	189.0	209.6	160.3	127.4	121.2	135.6
408.9	77.5°	207.5	147.9	115.1	90.4	129.5	139.7	84.2	74.0	71.9	82.2
248.6	80°	96.6	63.7	55.5	30.8	47.3	55.5	34.9	39.0	41.1	49.3
125.3	82.5°	26.7	10.3	2.1	0.0	0.0	16.4	8.2	16.4	20.5	30.8
10.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.3	18.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
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°
4130.1	0°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
3743.8	2.5°	3830.1	3912.3	4043.8	4179.4	4313.0	4448.6	4580.1	4627.3
3312.3	5°	3474.6	3663.7	3924.6	4204.1	4491.7	4783.5	5050.6	5171.9
2866.4	7.5°	3078.0	3349.3	3741.7	4179.4	4637.6	5095.8	5517.1	5712.3
2424.6	10°	2654.8	2997.9	3445.8	4037.6	4695.1	5328.0	5907.5	6160.2
2036.3	12.5°	2252.0	2611.6	3106.8	3815.7	4649.9	5461.6	6158.1	6456.1
1763.0	15°	1915.0	2233.5	2767.8	3552.7	4504.1	5469.8	6277.3	6604.0
1610.9	17.5°	1662.3	1869.8	2422.6	3260.9	4313.0	5393.8	6318.4	6667.7
1528.7	20°	1537.0	1594.5	1974.6	2887.0	4134.2	5321.9	6359.5	6727.3
1463.0	22.5°	1463.0	1477.4	1615.0	2404.1	3920.5	5299.2	6431.4	6809.5
1403.4	25°	1403.4	1407.5	1444.5	1904.8	3593.8	5284.9	6542.4	6922.5
1341.8	27.5°	1343.8	1343.8	1364.4	1534.9	3150.0	5223.2	6686.2	7058.1
1280.1	30°	1284.2	1284.2	1298.6	1358.2	2630.1	5102.0	6858.8	7234.8
1218.5	32.5°	1222.6	1222.6	1234.9	1278.1	2100.0	4949.9	7017.0	7413.6
1154.8	35°	1160.9	1156.8	1173.3	1218.5	1670.5	4756.8	7175.3	7606.8
1091.1	37.5°	1095.2	1093.1	1109.6	1160.9	1442.4	4532.8	7294.4	7869.8
1027.4	40°	1025.3	1025.3	1043.8	1099.3	1376.7	4251.3	7483.5	8247.8
961.6	42.5°	961.6	957.5	978.1	1045.9	1327.4	3982.1	7822.5	8798.5
902.0	45°	900.0	891.8	910.3	994.5	1241.1	3887.6	8455.4	9612.2
844.5	47.5°	842.5	821.9	838.3	932.9	1163.0	4241.0	9491.0	10740.3
793.1	50°	795.2	756.2	770.5	871.2	1103.4	5007.5	10834.8	12238.2
745.9	52.5°	745.9	694.5	702.7	795.2	1050.0	5736.9	12291.6	14214.9
698.6	55°	694.5	637.0	641.1	719.2	974.0	5845.8	13713.5	16910.7
645.2	57.5°	637.0	583.6	583.6	649.3	918.5	5067.1	14806.7	20255.9
579.4	60°	573.3	538.3	528.1	593.8	967.8	3575.3	14934.1	22413.4
495.2	62.5°	503.4	484.9	470.5	540.4	1004.8	2118.5	13908.7	21891.5
390.4	65°	423.3	419.2	408.9	593.8	846.6	1251.4	11940.3	20290.8
332.9	67.5°	355.5	349.3	349.3	622.6	643.1	787.0	9328.6	18088.1
283.6	70°	306.2	283.6	283.6	470.5	390.4	544.5	6513.6	15710.8
234.2	72.5°	256.8	232.2	215.8	376.0	291.8	398.6	4070.5	13454.6
178.8	75°	205.5	187.0	166.4	248.6	217.8	302.1	2365.0	11147.1
113.0	77.5°	147.9	139.7	117.1	182.9	158.2	217.8	1407.5	8601.3
69.9	80°	76.0	78.1	74.0	104.8	106.8	147.9	801.4	5886.9
45.2	82.5°	45.2	34.9	39.0	51.4	61.6	84.2	302.1	3460.2
32.9	85°	28.8	18.5	18.5	24.7	30.8	32.9	92.5	1403.4
16.4	87.5°	14.4	6.2	8.2	12.3	10.3	8.2	4.1	353.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)