

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: P953220

Luminaire Tested: **GALN-SB6D-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953220
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-SB6D-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42317 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

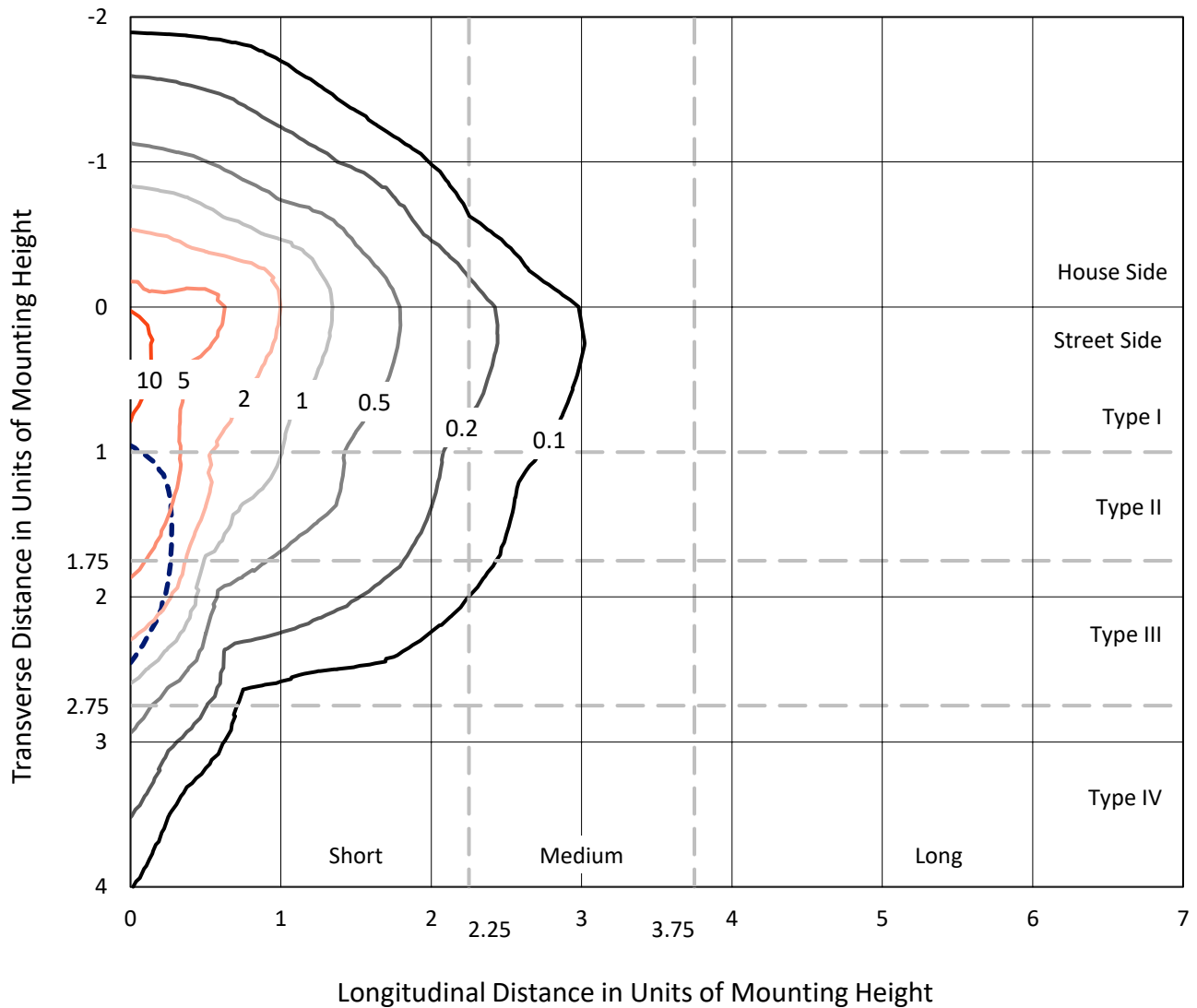
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

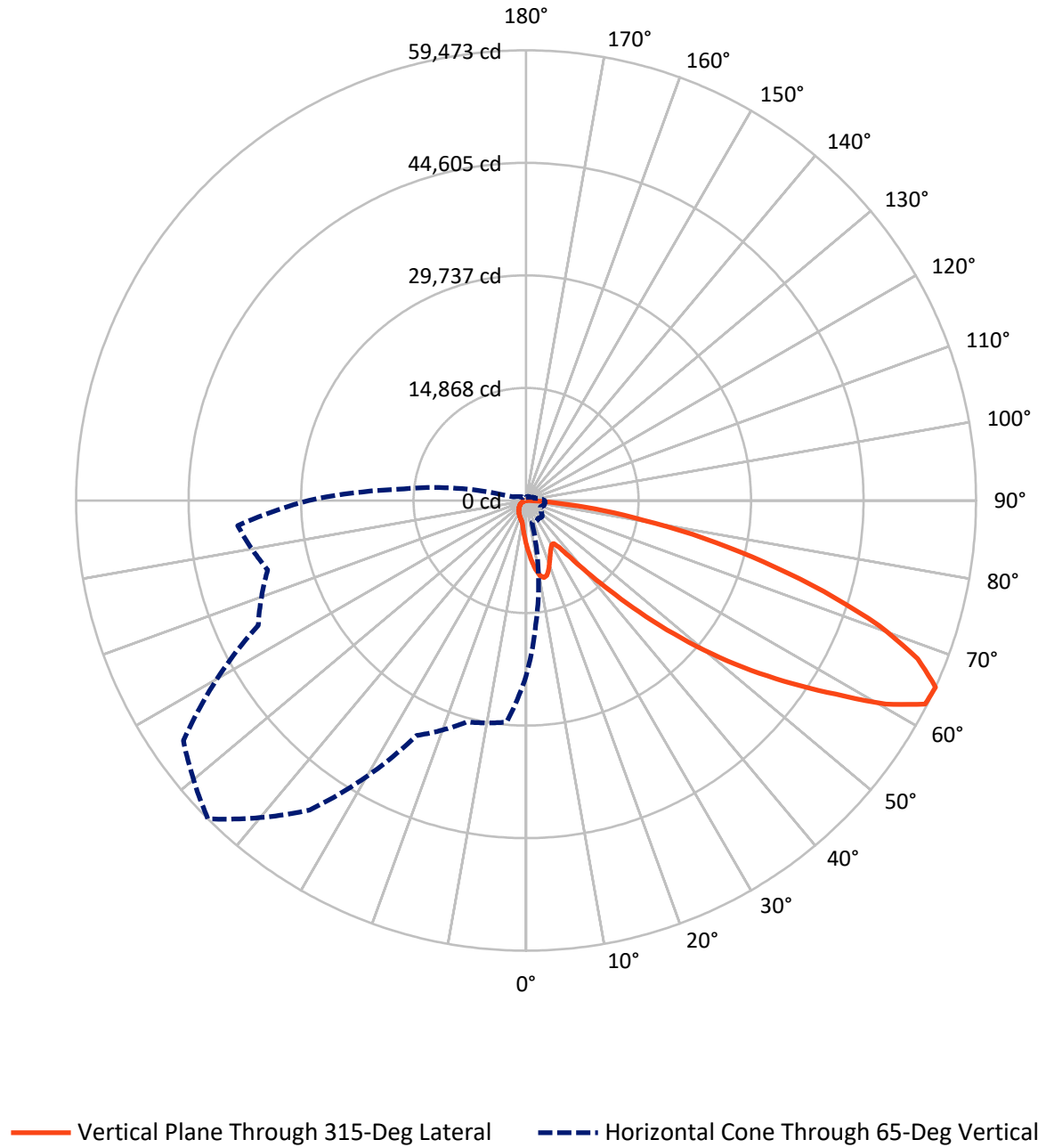
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5926.2	0.0	5926.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36390.8	0.0	36390.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	42317.0	0.0	42317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.4
10°-20°	1729.3	4.1
20°-30°	2547.7	6.0
30°-40°	3273.1	7.7
40°-50°	5293.6	12.5
50°-60°	9282.8	21.9
60°-70°	11615.3	27.4
70°-80°	6787.4	16.0
80°-90°	1211.0	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°	42317.0	100.0
0°-180°	42317.0	100.0

Coefficient of Utilization



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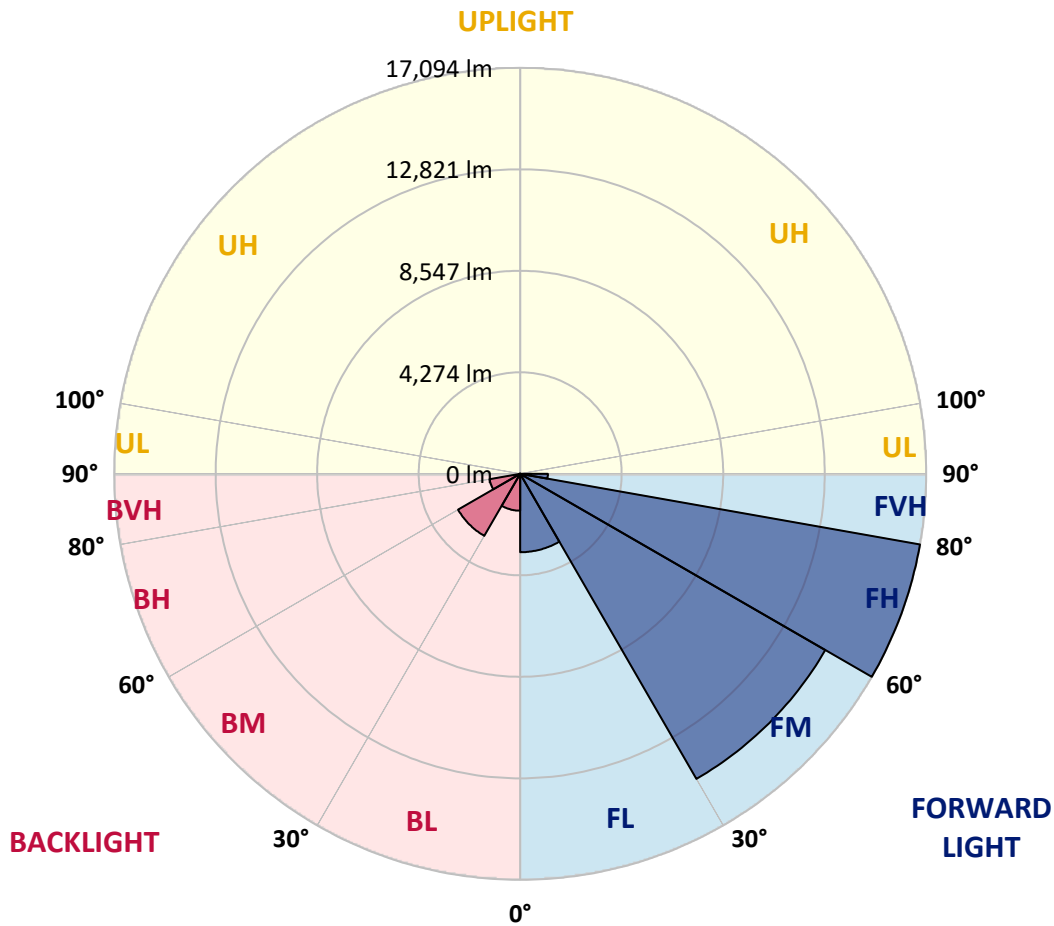
CATALOG NUMBER: GALN-SB6D-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3300.6	7.8			
FM (30°-60°)	14831.6	35.0			
FH (60°-80°)	17094.1	40.4			G5
FVH (80°-90°)	1164.5	2.8			G5
BL (0°-30°)	1553.4	3.7	B3/2500		
BM (30°-60°)	3017.8	7.1	B3/5000		
BH (60°-80°)	1308.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	46.5	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°	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6
2.5°	6620.4	6506.7	6439.7	6273.5	6107.3	5973.2	5792.5	5673.0	5530.1	5393.1
5°	7378.4	7194.7	6973.2	6670.0	6393.0	6110.3	5836.2	5565.1	5279.4	5017.1
7.5°	8019.7	7754.4	7363.8	6961.5	6608.8	6267.7	5947.0	5588.4	5241.5	4830.5
10°	8509.5	8171.3	7658.2	7130.6	6725.4	6381.4	6069.4	5766.3	5416.4	4920.9
12.5°	8806.8	8445.3	7836.1	7218.0	6754.5	6369.7	6127.7	5993.6	5856.6	5364.0
15°	9025.5	8634.8	7961.4	7279.3	6687.5	6215.2	6037.4	6171.5	6328.9	6014.1
17.5°	9252.8	8841.8	8124.7	7305.5	6506.7	5914.9	5839.1	6186.1	6550.5	6535.9
20°	9468.6	9060.4	8267.5	7288.0	6215.2	5550.5	5617.6	6060.7	6483.4	6661.2
22.5°	9716.4	9284.9	8404.5	7220.9	5836.2	5209.5	5419.4	5862.5	6232.7	6442.6
25°	10019.5	9567.7	8596.9	7121.8	5428.1	4926.7	5218.2	5632.2	5932.4	6078.2
27.5°	10346.0	9905.8	8853.5	7069.4	5098.7	4725.5	4990.8	5358.1	5626.3	5728.4
30°	10751.3	10299.4	9156.6	7011.1	4883.0	4608.9	4754.7	5040.4	5302.7	5404.8
32.5°	11194.4	10736.7	9448.2	6871.1	4751.8	4521.5	4524.4	4705.1	4944.2	5066.6
35°	11748.3	11261.4	9760.1	6565.0	4646.8	4419.4	4299.9	4387.4	4585.6	4731.4
37.5°	12538.3	11949.4	10142.0	6127.7	4492.3	4262.0	4063.8	4084.2	4235.8	4396.1
40°	13628.6	12873.5	10590.9	5673.0	4270.8	4040.5	3804.3	3795.6	3906.4	4063.8
42.5°	15103.6	14095.0	11130.2	5238.6	4058.0	3772.3	3530.3	3515.7	3603.2	3740.2
45°	17051.0	15657.5	11792.0	4865.5	3891.8	3509.9	3270.9	3265.0	3337.9	3457.4
47.5°	19543.5	17829.4	12453.7	4611.8	3804.3	3302.9	3058.0	3069.7	3133.8	3241.7
50°	22770.6	20660.0	12654.9	4483.6	3804.3	3192.1	2868.6	2926.9	2979.3	3061.0
52.5°	26639.1	23377.0	11990.2	4367.0	3827.7	3206.7	2708.2	2833.6	2871.5	2941.4
55°	30224.8	24709.2	10308.1	4206.6	3833.5	3297.1	2571.2	2757.8	2827.7	2854.0
57.5°	32306.2	24251.5	8334.6	3935.5	3810.2	3358.3	2483.7	2664.5	2798.6	2816.1
60°	31909.8	22645.3	6136.5	3728.5	3638.2	3335.0	2457.5	2521.6	2734.5	2760.7
62.5°	28854.6	19951.6	4259.1	3568.2	3259.2	3233.0	2448.8	2297.2	2594.5	2658.7
65°	23193.3	15707.1	3008.5	3072.6	2856.9	3011.4	2402.1	2064.0	2425.4	2512.9
67.5°	16826.5	10628.8	2171.8	2489.6	2588.7	2652.8	2297.2	1894.9	2233.0	2349.7
70°	10797.9	5740.0	1524.6	1644.2	2180.6	2253.4	2116.4	1743.3	2037.7	2171.8
72.5°	7675.7	3390.4	1096.1	1151.5	1752.0	1877.4	1862.8	1574.2	1810.3	1973.6
75°	5296.9	1868.6	740.5	822.1	1271.0	1524.6	1437.2	1352.7	1533.4	1699.6
77.5°	3320.4	836.7	443.1	571.4	833.7	1198.1	985.3	1046.6	1195.2	1349.7
80°	1848.2	323.6	247.8	379.0	454.8	871.6	545.1	673.4	880.4	991.2
82.5°	402.3	40.8	110.8	163.3	177.8	507.2	288.6	390.6	553.9	545.1
85°	0.0	0.0	20.4	23.3	11.7	218.6	104.9	128.3	180.7	169.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
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°
5859.6	0°	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6
5270.7	2.5°	5247.4	5104.5	4999.6	4947.1	4903.4	4944.2	4967.5	4967.5	5066.6	5124.9
4856.7	5°	4754.7	4498.2	4302.8	4171.7	4092.9	4119.2	4148.3	4180.4	4305.7	4390.3
4611.8	7.5°	4413.6	4020.1	3722.7	3539.1	3442.9	3457.4	3477.8	3504.1	3626.5	3711.0
4646.8	10°	4349.5	3783.9	3364.1	3122.2	3005.6	2985.2	2973.5	2964.8	3037.6	3101.8
5043.3	12.5°	4611.8	3795.6	3209.6	2915.2	2772.4	2711.1	2641.2	2585.8	2597.4	2638.3
5643.8	15°	5081.2	3944.3	3160.1	2807.3	2629.5	2527.5	2445.9	2378.8	2364.2	2378.8
6168.6	17.5°	5617.6	4145.4	3154.2	2714.1	2492.5	2387.5	2320.5	2259.3	2238.9	2241.8
6463.0	20°	5973.2	4305.7	3136.8	2609.1	2361.3	2268.0	2209.7	2148.5	2128.1	2133.9
6381.4	22.5°	6008.2	4390.3	3110.5	2492.5	2230.1	2151.4	2093.1	2037.7	2034.8	2034.8
6075.3	25°	5818.7	4390.3	3055.1	2387.5	2104.8	2034.8	1982.3	1915.3	1926.9	1932.8
5728.4	27.5°	5524.3	4285.3	2950.2	2303.0	1996.9	1924.0	1871.6	1810.3	1824.9	1833.7
5404.8	30°	5232.8	4151.2	2824.8	2206.8	1894.9	1810.3	1772.4	1720.0	1725.8	1737.5
5084.1	32.5°	4961.7	4008.4	2676.2	2128.1	1792.8	1708.3	1679.2	1620.9	1629.6	1641.3
4769.3	35°	4693.5	3851.0	2501.2	2034.8	1699.6	1615.0	1591.7	1524.6	1530.5	1548.0
4454.4	37.5°	4404.9	3684.8	2358.4	1941.5	1609.2	1521.7	1498.4	1428.4	1434.3	1454.7
4127.9	40°	4101.7	3521.6	2218.5	1842.4	1513.0	1425.5	1405.1	1329.3	1335.2	1358.5
3807.3	42.5°	3795.6	3343.7	2110.6	1714.1	1413.9	1320.6	1300.2	1230.2	1239.0	1265.2
3527.4	45°	3512.8	3130.9	2040.6	1571.3	1320.6	1215.6	1195.2	1131.1	1148.6	1177.7
3291.3	47.5°	3270.9	2912.3	2011.5	1451.8	1221.5	1107.8	1090.3	1037.8	1067.0	1099.0
3090.1	50°	3063.9	2702.4	1973.6	1329.3	1128.2	1014.5	997.0	962.0	999.9	1032.0
2953.1	52.5°	2915.2	2463.3	1892.0	1218.6	1046.6	935.8	929.9	912.5	947.4	976.6
2851.1	55°	2786.9	2215.6	1760.8	1122.4	973.7	868.7	874.6	865.8	895.0	918.3
2789.8	57.5°	2670.3	1999.8	1594.6	1046.6	895.0	810.4	827.9	816.3	830.8	845.4
2725.7	60°	2530.4	1781.2	1396.4	962.0	801.7	752.1	772.5	740.5	737.5	743.4
2609.1	62.5°	2323.4	1486.8	1189.4	857.1	720.1	688.0	696.7	635.5	588.9	588.9
2437.1	65°	2034.8	1195.2	997.0	740.5	626.8	600.5	594.7	507.2	443.1	437.3
2250.5	67.5°	1699.6	982.4	827.9	623.9	521.8	504.3	510.2	446.0	381.9	376.1
2064.0	70°	1384.7	813.3	667.6	498.5	402.3	419.8	446.0	381.9	320.7	311.9
1845.3	72.5°	1125.3	647.2	521.8	381.9	297.4	346.9	379.0	311.9	253.6	247.8
1574.2	75°	868.7	475.2	373.1	259.5	215.7	268.2	297.4	227.4	180.7	172.0
1218.6	77.5°	580.1	294.4	209.9	163.3	128.3	183.7	198.2	119.5	104.9	102.0
886.2	80°	352.7	137.0	90.4	78.7	43.7	67.0	78.7	49.6	55.4	58.3
472.3	82.5°	177.8	37.9	14.6	2.9	0.0	0.0	23.3	11.7	23.3	29.2
128.3	85°	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	14.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°
5859.6	0°	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6
5148.2	2.5°	5311.5	5433.9	5550.5	5737.1	5929.5	6119.0	6311.4	6498.0	6565.0	6614.6
4445.7	5°	4699.3	4929.6	5197.8	5568.0	5964.5	6372.6	6786.6	7165.6	7337.6	7454.2
3783.9	7.5°	4066.7	4367.0	4751.8	5308.6	5929.5	6579.6	7229.7	7827.3	8104.3	8328.7
3160.1	10°	3439.9	3766.4	4253.3	4888.8	5728.4	6661.2	7559.1	8381.2	8739.8	9022.5
2711.1	12.5°	2889.0	3195.1	3705.2	4407.8	5413.5	6597.1	7748.6	8736.9	9159.6	9477.3
2390.5	15°	2501.2	2717.0	3168.8	3926.8	5040.4	6390.1	7760.3	8905.9	9369.5	9701.8
2256.4	17.5°	2285.5	2358.4	2652.8	3437.0	4626.4	6119.0	7652.4	8964.2	9459.8	9768.8
2136.8	20°	2168.9	2180.6	2262.2	2801.5	4095.9	5865.4	7550.4	9022.5	9544.4	9803.8
2052.3	22.5°	2075.6	2075.6	2096.0	2291.3	3410.8	5562.2	7518.3	9124.6	9661.0	9821.3
1956.1	25°	1991.1	1991.1	1996.9	2049.4	2702.4	5098.7	7497.9	9282.0	9821.3	9865.0
1859.9	27.5°	1903.6	1906.5	1906.5	1935.7	2177.7	4469.0	7410.4	9486.1	10013.7	9923.3
1766.6	30°	1816.2	1822.0	1822.0	1842.4	1926.9	3731.5	7238.4	9730.9	10264.4	9999.1
1673.3	32.5°	1728.7	1734.5	1734.5	1752.0	1813.3	2979.3	7022.7	9955.4	10518.0	10031.2
1583.0	35°	1638.3	1647.1	1641.3	1664.6	1728.7	2370.1	6748.7	10179.9	10792.1	10133.2
1495.5	37.5°	1548.0	1553.8	1550.9	1574.2	1647.1	2046.5	6430.9	10349.0	11165.2	10360.6
1402.2	40°	1457.6	1454.7	1454.7	1480.9	1559.6	1953.2	6031.5	10617.2	11701.6	10760.0
1308.9	42.5°	1364.3	1364.3	1358.5	1387.6	1483.8	1883.2	5649.7	11098.2	12482.9	11395.5
1221.5	45°	1279.8	1276.9	1265.2	1291.4	1411.0	1760.8	5515.6	11996.0	13637.3	12424.6
1134.0	47.5°	1198.1	1195.2	1166.1	1189.4	1323.5	1650.0	6017.0	13465.3	15237.7	13937.6
1064.0	50°	1125.3	1128.2	1072.8	1093.2	1236.0	1565.5	7104.3	15371.8	17362.9	15975.3
1005.7	52.5°	1058.2	1058.2	985.3	997.0	1128.2	1489.7	8139.2	17438.7	20167.3	18817.6
944.5	55°	991.2	985.3	903.7	909.5	1020.3	1381.8	8293.7	19456.0	23992.1	23094.2
877.5	57.5°	915.4	903.7	827.9	827.9	921.2	1303.1	7188.9	21006.9	28738.0	29379.4
752.1	60°	822.1	813.3	763.8	749.2	842.5	1373.1	5072.4	21187.7	31799.0	37737.3
597.6	62.5°	702.6	714.2	688.0	667.6	766.7	1425.5	3005.6	19733.0	31058.5	40395.9
463.5	65°	553.9	600.5	594.7	580.1	842.5	1201.1	1775.4	16940.2	28787.6	38250.3
405.2	67.5°	472.3	504.3	495.6	495.6	883.3	912.5	1116.5	13235.0	25662.5	35705.4
338.2	70°	402.3	434.4	402.3	402.3	667.6	553.9	772.5	9241.2	22289.6	32889.3
271.1	72.5°	332.3	364.4	329.4	306.1	533.5	414.0	565.5	5775.0	19088.7	29956.6
192.4	75°	253.6	291.5	265.3	236.1	352.7	309.0	428.5	3355.4	15815.0	25630.4
116.6	77.5°	160.3	209.9	198.2	166.2	259.5	224.5	309.0	1996.9	12203.0	20027.4
70.0	80°	99.1	107.9	110.8	104.9	148.7	151.6	209.9	1136.9	8352.0	13958.0
43.7	82.5°	64.1	64.1	49.6	55.4	72.9	87.5	119.5	428.5	4909.2	8497.8
26.2	85°	46.6	40.8	26.2	26.2	35.0	43.7	46.6	131.2	1991.1	3355.4
11.7	87.5°	23.3	20.4	8.7	11.7	17.5	14.6	11.7	5.8	501.4	1072.8
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°
5859.6	0°	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6	5859.6
6725.4	2.5°	6783.7	6874.0	6879.9	6879.9	6801.2	6798.2	6637.9	6620.4
7716.5	5°	7987.6	8045.9	8060.5	8031.4	7874.0	7757.3	7445.4	7378.4
8728.1	7.5°	9089.6	9206.2	9206.2	9136.2	8879.7	8640.7	8188.8	8019.7
9564.8	10°	9970.0	10104.1	10074.9	9932.1	9608.5	9279.1	8731.0	8509.5
10072.0	12.5°	10398.5	10535.5	10459.7	10296.5	9981.6	9634.7	9057.5	8806.8
10217.8	15°	10389.8	10351.9	10273.2	10252.8	10101.2	9838.8	9299.5	9025.5
10127.4	17.5°	10019.5	9698.9	9637.6	9841.7	10034.1	9970.0	9509.4	9252.8
9911.7	20°	9433.6	8873.9	8818.5	9209.1	9757.2	10037.0	9704.7	9468.6
9599.8	22.5°	8815.6	8212.1	8083.8	8515.3	9340.3	10057.4	9952.5	9716.4
9255.8	25°	8229.6	7623.2	7495.0	7897.3	8876.8	10022.5	10220.7	10019.5
8926.3	27.5°	7739.9	7153.9	7034.4	7436.7	8430.8	9923.3	10488.9	10346.0
8599.8	30°	7360.9	6818.7	6731.2	7118.9	8045.9	9800.9	10830.0	10751.3
8296.7	32.5°	7139.3	6742.9	6774.9	7092.7	7839.0	9666.8	11156.5	11194.4
8148.0	35°	7358.0	7375.5	7655.3	7786.5	8031.4	9646.4	11599.6	11748.3
8325.8	37.5°	8445.3	9051.7	9631.8	9524.0	8973.0	9882.5	12261.3	12538.3
9101.3	40°	10296.5	11541.3	12482.9	12071.8	10684.2	10605.5	13214.6	13628.6
10477.2	42.5°	12558.7	14669.3	16220.2	15118.2	12891.0	11870.7	14576.0	15103.6
12141.8	45°	14946.2	18526.1	20969.0	18677.7	15243.6	13643.1	16637.0	17051.0
13701.4	47.5°	17462.0	23213.7	26373.8	22624.9	17424.1	15660.5	19447.3	19543.5
15179.4	50°	20214.0	28353.2	31883.5	26569.1	19528.9	17972.2	22881.4	22770.6
16902.3	52.5°	22834.8	33638.5	37276.7	30530.9	21377.2	20840.8	26866.5	26639.1
19257.8	55°	25336.0	38920.8	42701.8	34338.1	23120.4	24630.5	31600.8	30224.8
22654.0	57.5°	28236.6	43669.7	48293.2	38162.9	25557.6	29551.4	36894.8	32306.2
29157.8	60°	32524.9	49065.7	54616.3	43404.4	30192.7	34722.9	38792.6	31909.8
36947.2	62.5°	37999.6	54027.4	59213.5	48541.0	34848.3	35696.6	35996.9	28854.6
35358.5	65°	39063.7	55283.8	59473.0	49914.0	34247.8	30280.2	29388.1	23193.3
31583.3	67.5°	36241.8	53012.9	55846.5	47357.4	30294.8	23400.3	22053.5	16826.5
29105.3	70°	33075.9	48683.8	49526.3	43010.8	26644.9	17211.3	14893.8	10797.9
27408.7	72.5°	29831.2	42908.8	41165.5	37352.4	23417.8	12532.4	10742.5	7675.7
24992.0	75°	25977.3	35314.7	32425.8	31035.2	19389.0	9835.9	7771.9	5296.9
21496.7	77.5°	20802.9	24857.9	24085.4	24056.2	14570.2	7186.0	5186.1	3320.4
16794.5	80°	14675.1	16132.7	15739.2	18118.0	9774.7	5212.4	3122.2	1848.2
11689.9	82.5°	7104.3	8920.5	9156.6	10789.2	4754.7	3066.8	720.1	402.3
4571.0	85°	2781.1	4302.8	3629.4	4095.9	1335.2	854.2	17.5	0.0
752.1	87.5°	311.9	498.5	457.7	361.5	163.3	35.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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