

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: P948222

Luminaire Tested: **GALN-SB3B-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948222
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-SB3B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA 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: 11586 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

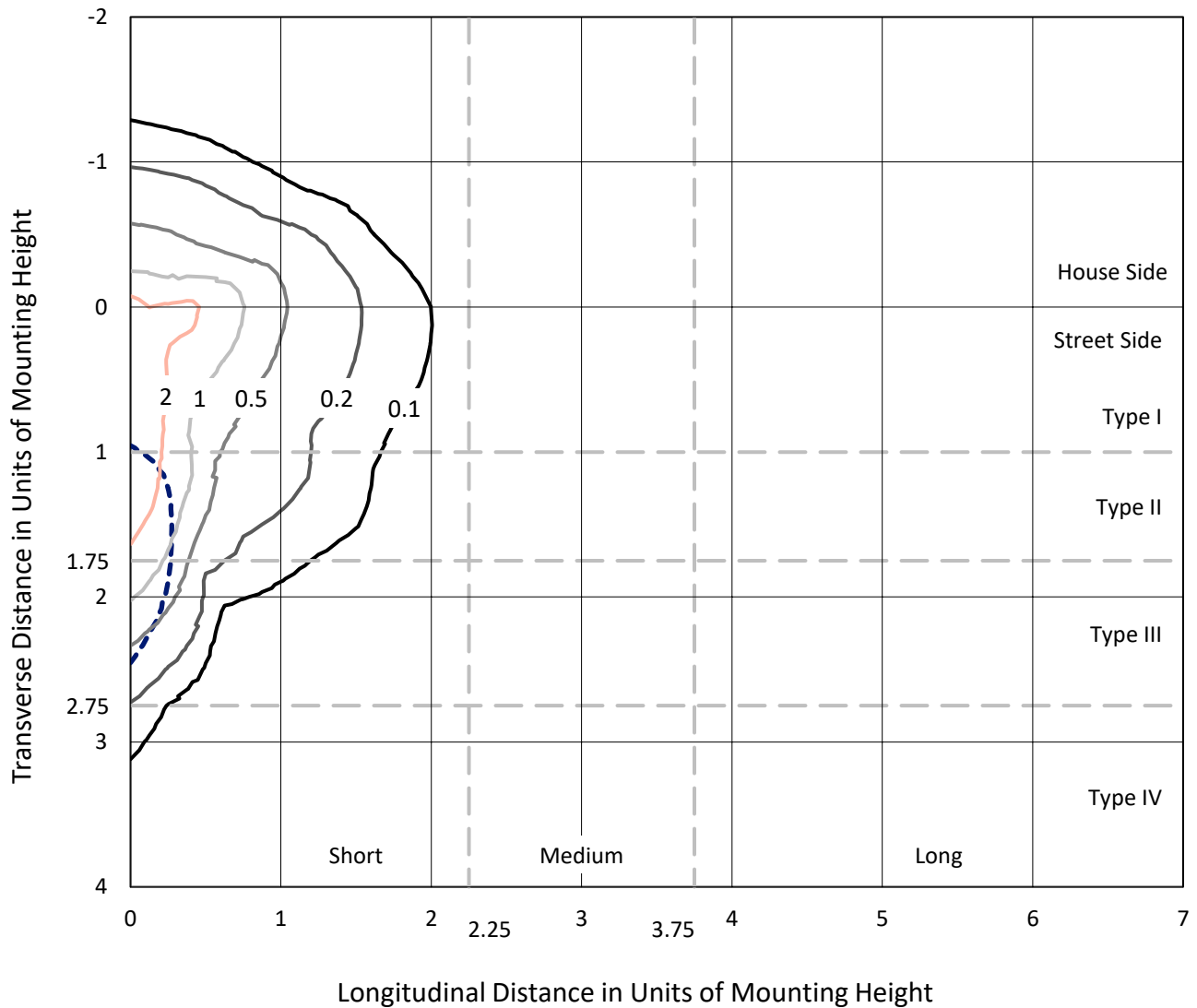
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

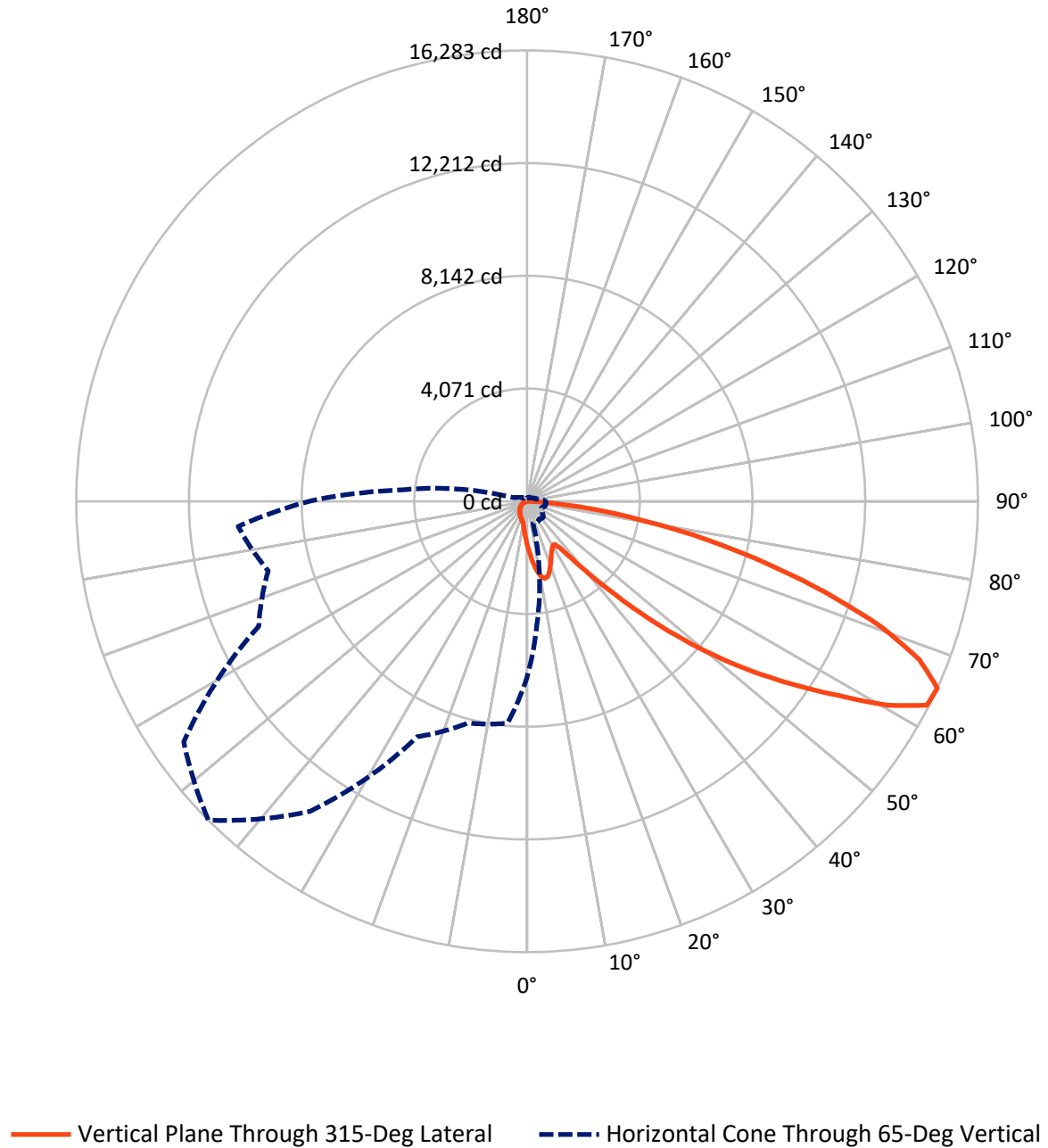
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1622.5	0.0	1622.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9963.5	0.0	9963.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	11586.0	0.0	11586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.4
10°-20°	473.5	4.1
20°-30°	697.5	6.0
30°-40°	896.1	7.7
40°-50°	1449.3	12.5
50°-60°	2541.5	21.9
60°-70°	3180.1	27.4
70°-80°	1858.3	16.0
80°-90°	331.6	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°	11586.0	100.0
0°-180°	11586.0	100.0

Coefficient of Utilization



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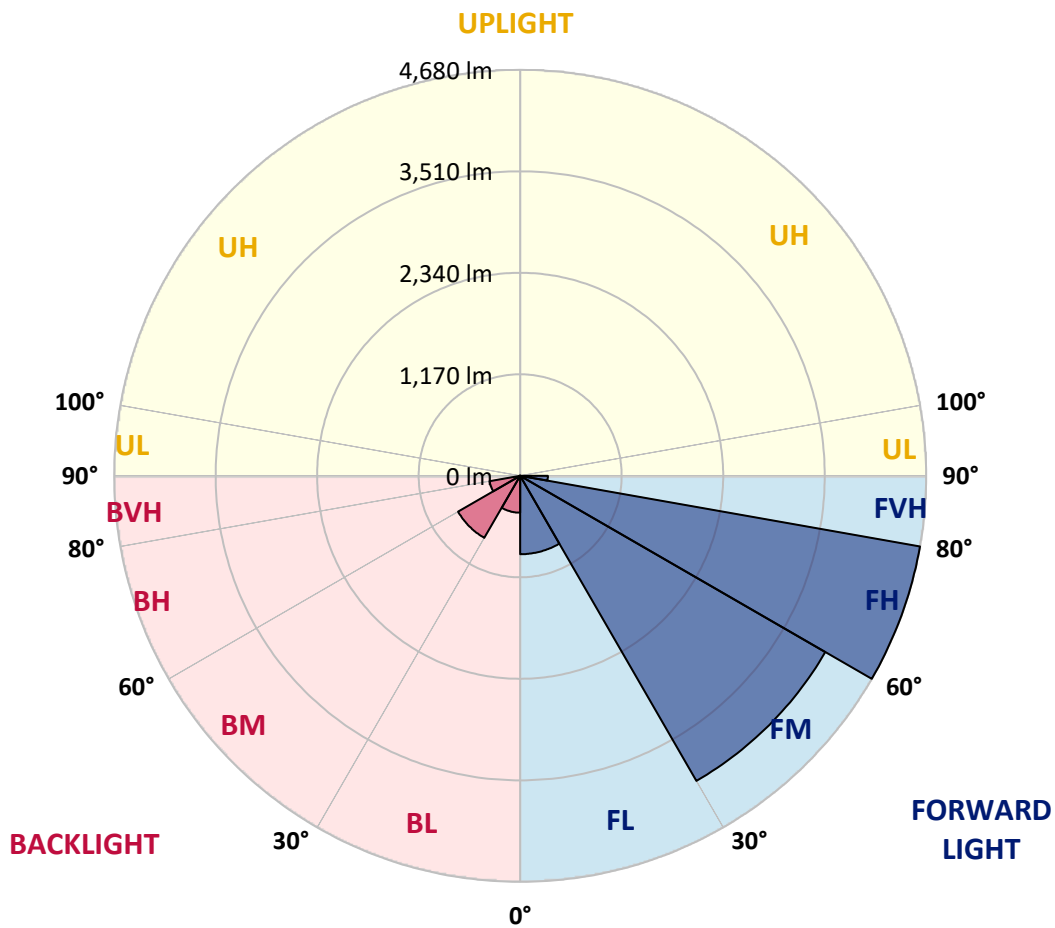
CATALOG NUMBER: GALN-SB3B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.7	7.8			
FM (30°-60°)	4060.8	35.0			
FH (60°-80°)	4680.2	40.4			G2/5000
FVH (80°-90°)	318.8	2.8			G3/500
BL (0°-30°)	425.3	3.7	B1/500		
BM (30°-60°)	826.2	7.1	B1/1000		
BH (60°-80°)	358.3	3.1	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
2.5°	1812.6	1781.5	1763.1	1717.6	1672.1	1635.4	1585.9	1553.2	1514.1	1476.6
5°	2020.1	1969.8	1909.2	1826.2	1750.4	1672.9	1597.9	1523.7	1445.5	1373.6
7.5°	2195.7	2123.1	2016.1	1906.0	1809.4	1716.0	1628.2	1530.1	1435.1	1322.5
10°	2329.8	2237.2	2096.8	1952.3	1841.3	1747.2	1661.8	1578.7	1483.0	1347.3
12.5°	2411.2	2312.3	2145.4	1976.2	1849.3	1744.0	1677.7	1641.0	1603.5	1468.6
15°	2471.1	2364.1	2179.8	1993.0	1831.0	1701.7	1653.0	1689.7	1732.8	1646.6
17.5°	2533.3	2420.8	2224.5	2000.2	1781.5	1619.5	1598.7	1693.7	1793.5	1789.5
20°	2592.4	2480.7	2263.6	1995.4	1701.7	1519.7	1538.0	1659.4	1775.1	1823.8
22.5°	2660.2	2542.1	2301.1	1977.0	1597.9	1426.3	1483.8	1605.1	1706.5	1763.9
25°	2743.3	2619.5	2353.8	1949.9	1486.2	1348.9	1428.7	1542.0	1624.2	1664.2
27.5°	2832.6	2712.1	2424.0	1935.5	1396.0	1293.8	1366.4	1467.0	1540.4	1568.4
30°	2943.6	2819.9	2507.0	1919.6	1336.9	1261.9	1301.8	1380.0	1451.8	1479.8
32.5°	3064.9	2939.6	2586.8	1881.2	1301.0	1237.9	1238.7	1288.2	1353.7	1387.2
35°	3216.6	3083.3	2672.2	1797.4	1272.3	1210.0	1177.3	1201.2	1255.5	1295.4
37.5°	3432.9	3271.6	2776.8	1677.7	1230.0	1166.9	1112.6	1118.2	1159.7	1203.6
40°	3731.4	3524.6	2899.7	1553.2	1169.3	1106.2	1041.6	1039.2	1069.5	1112.6
42.5°	4135.2	3859.1	3047.4	1434.3	1111.0	1032.8	966.6	962.6	986.5	1024.0
45°	4668.4	4286.9	3228.5	1332.1	1065.5	961.0	895.5	893.9	913.9	946.6
47.5°	5350.8	4881.5	3409.7	1262.7	1041.6	904.3	837.3	840.5	858.0	887.5
50°	6234.4	5656.5	3464.8	1227.6	1041.6	874.0	785.4	801.3	815.7	838.1
52.5°	7293.5	6400.4	3282.8	1195.6	1048.0	878.0	741.5	775.8	786.2	805.3
55°	8275.3	6765.2	2822.3	1151.7	1049.6	902.7	704.0	755.1	774.2	781.4
57.5°	8845.1	6639.8	2281.9	1077.5	1043.2	919.5	680.0	729.5	766.2	771.0
60°	8736.6	6200.1	1680.1	1020.8	996.1	913.1	672.8	690.4	748.7	755.9
62.5°	7900.1	5462.6	1166.1	976.9	892.3	885.2	670.4	628.9	710.4	727.9
65°	6350.1	4300.5	823.7	841.3	782.2	824.5	657.7	565.1	664.1	688.0
67.5°	4606.9	2910.1	594.6	681.6	708.8	726.3	628.9	518.8	611.4	643.3
70°	2956.4	1571.6	417.4	450.2	597.0	617.0	579.5	477.3	557.9	594.6
72.5°	2101.5	928.3	300.1	315.3	479.7	514.0	510.0	431.0	495.7	540.4
75°	1450.2	511.6	202.7	225.1	348.0	417.4	393.5	370.3	419.8	465.3
77.5°	909.1	229.1	121.3	156.4	228.3	328.0	269.8	286.5	327.2	369.5
80°	506.0	88.6	67.8	103.8	124.5	238.6	149.3	184.4	241.0	271.4
82.5°	110.1	11.2	30.3	44.7	48.7	138.9	79.0	107.0	151.6	149.3
85°	0.0	0.0	5.6	6.4	3.2	59.9	28.7	35.1	49.5	46.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1443.1	2.5°	1436.7	1397.6	1368.8	1354.5	1342.5	1353.7	1360.1	1360.1	1387.2	1403.2
1329.7	5°	1301.8	1231.6	1178.1	1142.2	1120.6	1127.8	1135.8	1144.6	1178.9	1202.0
1262.7	7.5°	1208.4	1100.7	1019.2	969.0	942.6	946.6	952.2	959.4	992.9	1016.1
1272.3	10°	1190.8	1036.0	921.1	854.8	822.9	817.3	814.1	811.7	831.7	849.2
1380.8	12.5°	1262.7	1039.2	878.8	798.2	759.0	742.3	723.1	708.0	711.2	722.3
1545.2	15°	1391.2	1079.9	865.2	768.6	719.9	692.0	669.7	651.3	647.3	651.3
1688.9	17.5°	1538.0	1135.0	863.6	743.1	682.4	653.7	635.3	618.6	613.0	613.8
1769.5	20°	1635.4	1178.9	858.8	714.3	646.5	621.0	605.0	588.2	582.7	584.2
1747.2	22.5°	1645.0	1202.0	851.6	682.4	610.6	589.0	573.1	557.9	557.1	557.1
1663.4	25°	1593.1	1202.0	836.5	653.7	576.3	557.1	542.7	524.4	527.6	529.2
1568.4	27.5°	1512.5	1173.3	807.7	630.5	546.7	526.8	512.4	495.7	499.6	502.0
1479.8	30°	1432.7	1136.6	773.4	604.2	518.8	495.7	485.3	470.9	472.5	475.7
1392.0	32.5°	1358.5	1097.5	732.7	582.7	490.9	467.7	459.7	443.8	446.2	449.4
1305.8	35°	1285.0	1054.4	684.8	557.1	465.3	442.2	435.8	417.4	419.0	423.8
1219.6	37.5°	1206.0	1008.9	645.7	531.6	440.6	416.6	410.3	391.1	392.7	398.3
1130.2	40°	1123.0	964.2	607.4	504.4	414.2	390.3	384.7	364.0	365.6	371.9
1042.4	42.5°	1039.2	915.5	577.9	469.3	387.1	361.6	356.0	336.8	339.2	346.4
965.8	45°	961.8	857.2	558.7	430.2	361.6	332.8	327.2	309.7	314.5	322.5
901.1	47.5°	895.5	797.4	550.7	397.5	334.4	303.3	298.5	284.1	292.1	300.9
846.0	50°	838.9	739.9	540.4	364.0	308.9	277.8	273.0	263.4	273.8	282.5
808.5	52.5°	798.2	674.4	518.0	333.6	286.5	256.2	254.6	249.8	259.4	267.4
780.6	55°	763.0	606.6	482.1	307.3	266.6	237.9	239.4	237.1	245.0	251.4
763.8	57.5°	731.1	547.5	436.6	286.5	245.0	221.9	226.7	223.5	227.5	231.5
746.3	60°	692.8	487.7	382.3	263.4	219.5	205.9	211.5	202.7	201.9	203.5
714.3	62.5°	636.1	407.1	325.6	234.7	197.1	188.4	190.8	174.0	161.2	161.2
667.3	65°	557.1	327.2	273.0	202.7	171.6	164.4	162.8	138.9	121.3	119.7
616.2	67.5°	465.3	269.0	226.7	170.8	142.9	138.1	139.7	122.1	104.6	103.0
565.1	70°	379.1	222.7	182.8	136.5	110.1	114.9	122.1	104.6	87.8	85.4
505.2	72.5°	308.1	177.2	142.9	104.6	81.4	95.0	103.8	85.4	69.4	67.8
431.0	75°	237.9	130.1	102.2	71.0	59.1	73.4	81.4	62.3	49.5	47.1
333.6	77.5°	158.8	80.6	57.5	44.7	35.1	50.3	54.3	32.7	28.7	27.9
242.6	80°	96.6	37.5	24.7	21.6	12.0	18.4	21.6	13.6	15.2	16.0
129.3	82.5°	48.7	10.4	4.0	0.8	0.0	0.0	6.4	3.2	6.4	8.0
35.1	85°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0
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°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1409.5	2.5°	1454.2	1487.8	1519.7	1570.8	1623.4	1675.3	1728.0	1779.1	1797.4	1811.0
1217.2	5°	1286.6	1349.7	1423.1	1524.5	1633.0	1744.8	1858.1	1961.9	2009.0	2040.9
1036.0	7.5°	1113.4	1195.6	1301.0	1453.4	1623.4	1801.4	1979.4	2143.0	2218.9	2280.3
865.2	10°	941.8	1031.2	1164.5	1338.5	1568.4	1823.8	2069.6	2294.7	2392.9	2470.3
742.3	12.5°	791.0	874.8	1014.5	1206.8	1482.2	1806.2	2121.5	2392.1	2507.8	2594.8
654.5	15°	684.8	743.9	867.6	1075.1	1380.0	1749.6	2124.7	2438.4	2565.3	2656.3
617.8	17.5°	625.8	645.7	726.3	941.0	1266.7	1675.3	2095.2	2454.3	2590.0	2674.6
585.0	20°	593.8	597.0	619.4	767.0	1121.4	1605.9	2067.2	2470.3	2613.2	2684.2
561.9	22.5°	568.3	568.3	573.9	627.3	933.8	1522.9	2058.4	2498.2	2645.1	2689.0
535.6	25°	545.1	545.1	546.7	561.1	739.9	1396.0	2052.9	2541.3	2689.0	2701.0
509.2	27.5°	521.2	522.0	522.0	530.0	596.2	1223.6	2028.9	2597.2	2741.7	2716.9
483.7	30°	497.3	498.8	498.8	504.4	527.6	1021.6	1981.8	2664.2	2810.3	2737.7
458.1	32.5°	473.3	474.9	474.9	479.7	496.5	815.7	1922.8	2725.7	2879.7	2746.4
433.4	35°	448.6	451.0	449.4	455.7	473.3	648.9	1847.7	2787.2	2954.8	2774.4
409.5	37.5°	423.8	425.4	424.6	431.0	451.0	560.3	1760.7	2833.4	3056.9	2836.6
383.9	40°	399.1	398.3	398.3	405.5	427.0	534.8	1651.4	2906.9	3203.8	2946.0
358.4	42.5°	373.5	373.5	371.9	379.9	406.3	515.6	1546.8	3038.6	3417.7	3120.0
334.4	45°	350.4	349.6	346.4	353.6	386.3	482.1	1510.1	3284.4	3733.8	3401.7
310.5	47.5°	328.0	327.2	319.3	325.6	362.4	451.8	1647.4	3686.7	4172.0	3816.0
291.3	50°	308.1	308.9	293.7	299.3	338.4	428.6	1945.1	4208.7	4753.8	4373.9
275.4	52.5°	289.7	289.7	269.8	273.0	308.9	407.9	2228.4	4774.6	5521.6	5152.1
258.6	55°	271.4	269.8	247.4	249.0	279.4	378.3	2270.7	5326.9	6568.8	6323.0
240.2	57.5°	250.6	247.4	226.7	226.7	252.2	356.8	1968.2	5751.5	7868.2	8043.8
205.9	60°	225.1	222.7	209.1	205.1	230.7	375.9	1388.8	5801.0	8706.3	10332.1
163.6	62.5°	192.4	195.5	188.4	182.8	209.9	390.3	822.9	5402.7	8503.5	11060.0
126.9	65°	151.6	164.4	162.8	158.8	230.7	328.8	486.1	4638.1	7881.8	10472.6
110.9	67.5°	129.3	138.1	135.7	135.7	241.8	249.8	305.7	3623.6	7026.2	9775.8
92.6	70°	110.1	118.9	110.1	110.1	182.8	151.6	211.5	2530.1	6102.7	9004.8
74.2	72.5°	91.0	99.8	90.2	83.8	146.1	113.3	154.8	1581.1	5226.3	8201.8
52.7	75°	69.4	79.8	72.6	64.7	96.6	84.6	117.3	918.7	4330.0	7017.4
31.9	77.5°	43.9	57.5	54.3	45.5	71.0	61.5	84.6	546.7	3341.1	5483.3
19.2	80°	27.1	29.5	30.3	28.7	40.7	41.5	57.5	311.3	2286.7	3821.6
12.0	82.5°	17.6	17.6	13.6	15.2	20.0	23.9	32.7	117.3	1344.1	2326.6
7.2	85°	12.8	11.2	7.2	7.2	9.6	12.0	12.8	35.9	545.1	918.7
3.2	87.5°	6.4	5.6	2.4	3.2	4.8	4.0	3.2	1.6	137.3	293.7
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1841.3	2.5°	1857.3	1882.0	1883.6	1883.6	1862.1	1861.3	1817.4	1812.6
2112.7	5°	2186.9	2202.9	2206.9	2198.9	2155.8	2123.9	2038.5	2020.1
2389.7	7.5°	2488.6	2520.6	2520.6	2501.4	2431.2	2365.7	2242.0	2195.7
2618.7	10°	2729.7	2766.4	2758.4	2719.3	2630.7	2540.5	2390.5	2329.8
2757.6	12.5°	2847.0	2884.5	2863.8	2819.1	2732.9	2637.9	2479.9	2411.2
2797.5	15°	2844.6	2834.2	2812.7	2807.1	2765.6	2693.8	2546.1	2471.1
2772.8	17.5°	2743.3	2655.5	2638.7	2694.6	2747.2	2729.7	2603.6	2533.3
2713.7	20°	2582.8	2429.6	2414.4	2521.4	2671.4	2748.0	2657.1	2592.4
2628.3	22.5°	2413.6	2248.4	2213.3	2331.4	2557.3	2753.6	2724.9	2660.2
2534.1	25°	2253.2	2087.2	2052.1	2162.2	2430.4	2744.1	2798.3	2743.3
2443.9	27.5°	2119.1	1958.7	1925.9	2036.1	2308.3	2716.9	2871.8	2832.6
2354.6	30°	2015.3	1866.9	1842.9	1949.1	2202.9	2683.4	2965.1	2943.6
2271.5	32.5°	1954.7	1846.1	1854.9	1941.9	2146.2	2646.7	3054.5	3064.9
2230.8	35°	2014.5	2019.3	2096.0	2131.9	2198.9	2641.1	3175.9	3216.6
2279.5	37.5°	2312.3	2478.3	2637.1	2607.6	2456.7	2705.7	3357.0	3432.9
2491.8	40°	2819.1	3159.9	3417.7	3305.2	2925.2	2903.7	3618.0	3731.4
2868.6	42.5°	3438.4	4016.3	4440.9	4139.2	3529.4	3250.1	3990.8	4135.2
3324.3	45°	4092.1	5072.3	5741.1	5113.8	4173.5	3735.4	4555.1	4668.4
3751.3	47.5°	4780.9	6355.7	7220.9	6194.5	4770.6	4287.7	5324.5	5350.8
4156.0	50°	5534.4	7762.8	8729.4	7274.4	5346.8	4920.6	6264.7	6234.4
4627.7	52.5°	6251.9	9209.9	10206.0	8359.1	5852.9	5706.0	7355.8	7293.5
5272.6	55°	6936.8	10656.2	11691.4	9401.5	6330.2	6743.6	8652.0	8275.3
6202.5	57.5°	7730.9	11956.4	13222.2	10448.6	6997.4	8090.9	10101.4	8845.1
7983.1	60°	8905.0	13433.7	14953.4	11883.7	8266.5	9506.8	10621.0	8736.6
10115.8	62.5°	10403.9	14792.2	16212.1	13290.1	9541.1	9773.4	9855.6	7900.1
9680.8	65°	10695.3	15136.2	16283.1	13666.0	9376.7	8290.4	8046.2	6350.1
8647.2	67.5°	9922.7	14514.4	15290.2	12966.0	8294.4	6406.8	6038.0	4606.9
7968.8	70°	9055.9	13329.2	13559.8	11776.0	7295.1	4712.3	4077.8	2956.4
7504.2	72.5°	8167.5	11748.0	11270.7	10226.8	6411.6	3431.3	2941.2	2101.5
6842.6	75°	7112.4	9668.8	8877.9	8497.2	5308.5	2693.0	2127.9	1450.2
5885.6	77.5°	5695.6	6805.9	6594.4	6586.4	3989.2	1967.5	1419.9	909.1
4598.2	80°	4017.9	4417.0	4309.2	4960.5	2676.2	1427.1	854.8	506.0
3200.6	82.5°	1945.1	2442.4	2507.0	2954.0	1301.8	839.7	197.1	110.1
1251.5	85°	761.4	1178.1	993.7	1121.4	365.6	233.9	4.8	0.0
205.9	87.5°	85.4	136.5	125.3	99.0	44.7	9.6	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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