

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: P950112

Luminaire Tested: **GALN-SB4C-930-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950112
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-SB4C-930-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 615mA 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: 15935 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

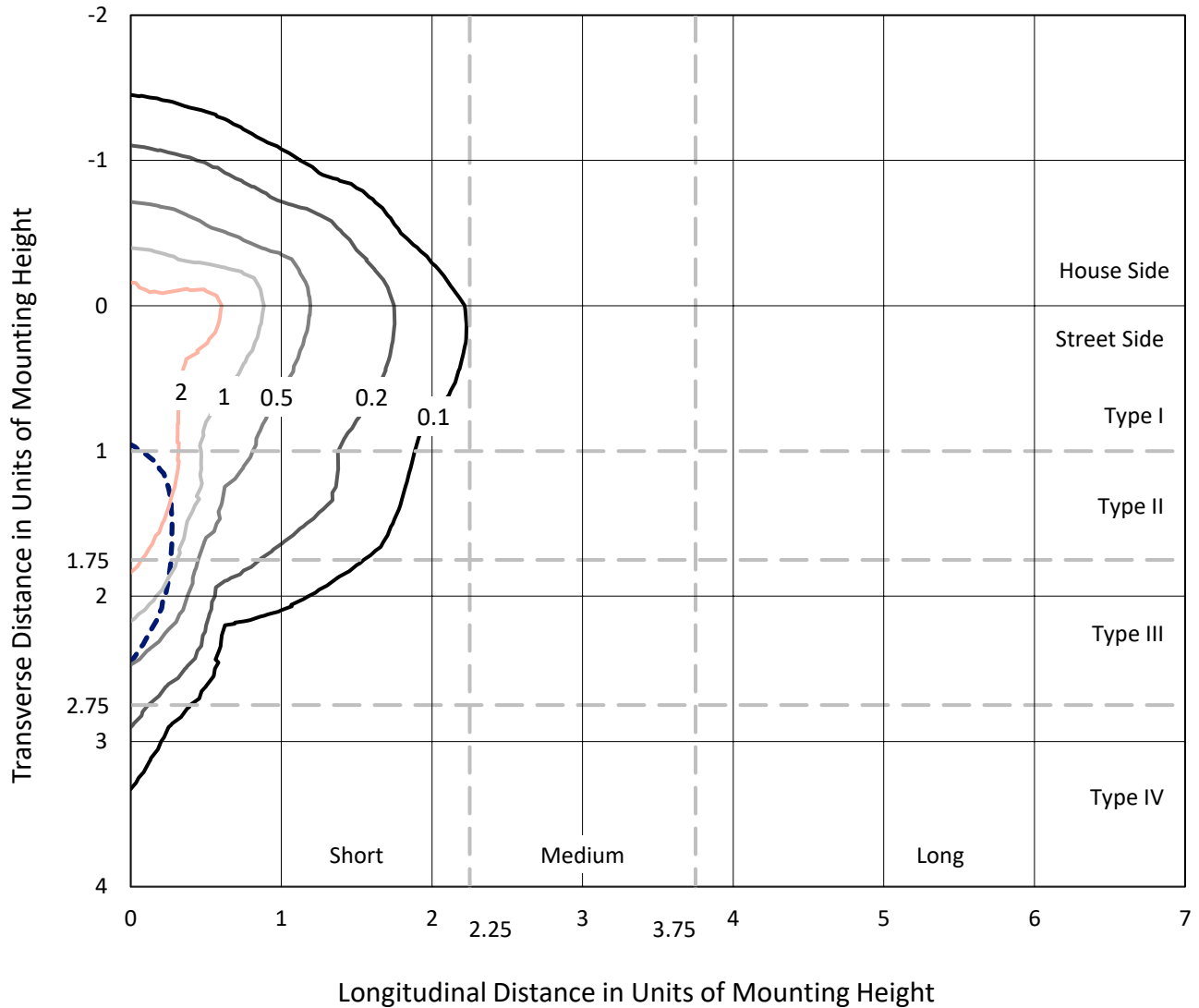
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

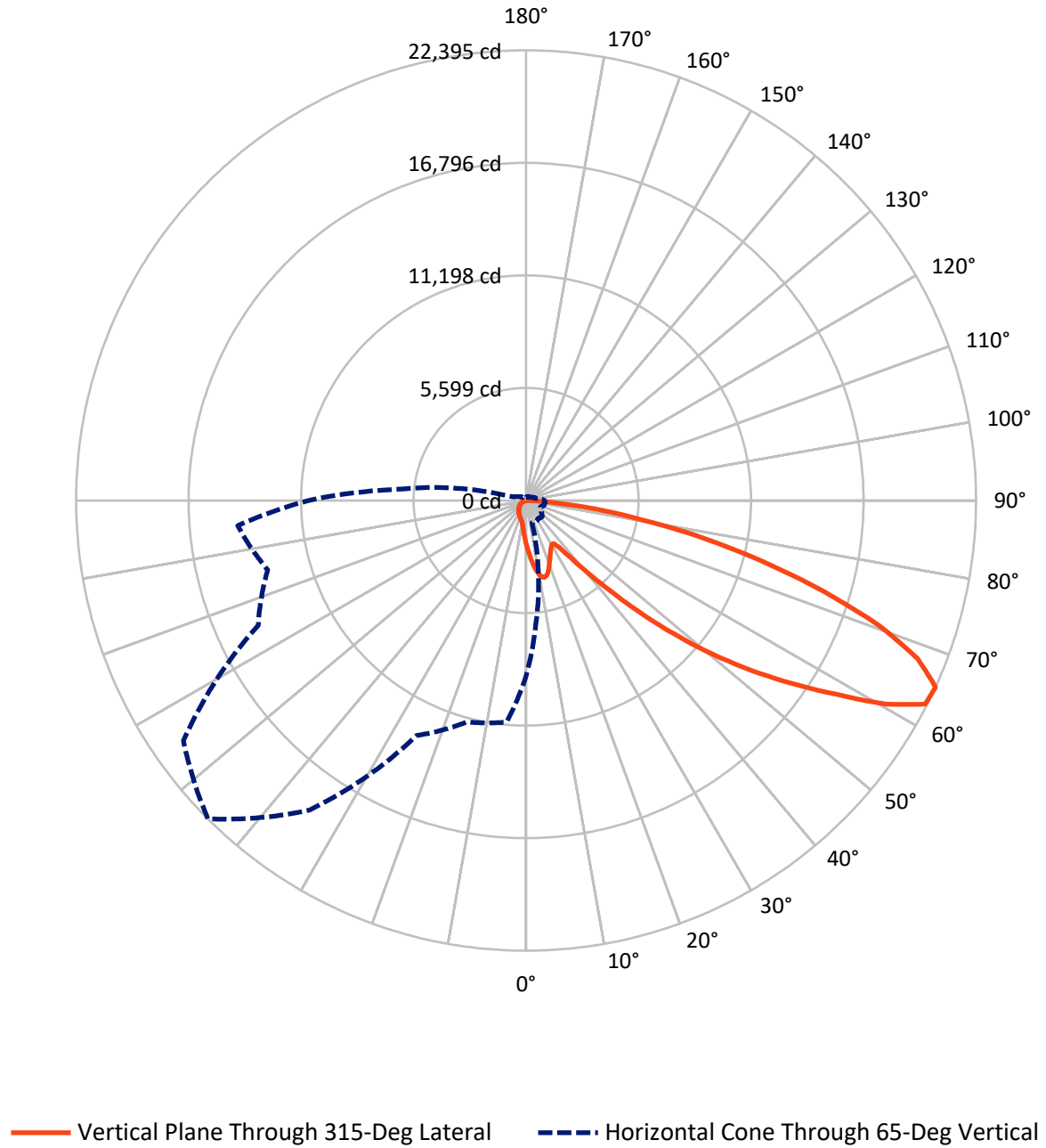
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2231.6	0.0	2231.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13703.4	0.0	13703.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	15935.0	0.0	15935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	1.4
10°-20°	651.2	4.1
20°-30°	959.4	6.0
30°-40°	1232.5	7.7
40°-50°	1993.4	12.5
50°-60°	3495.5	21.9
60°-70°	4373.9	27.4
70°-80°	2555.9	16.0
80°-90°	456.0	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°	15935.0	100.0
0°-180°	15935.0	100.0

Coefficient of Utilization



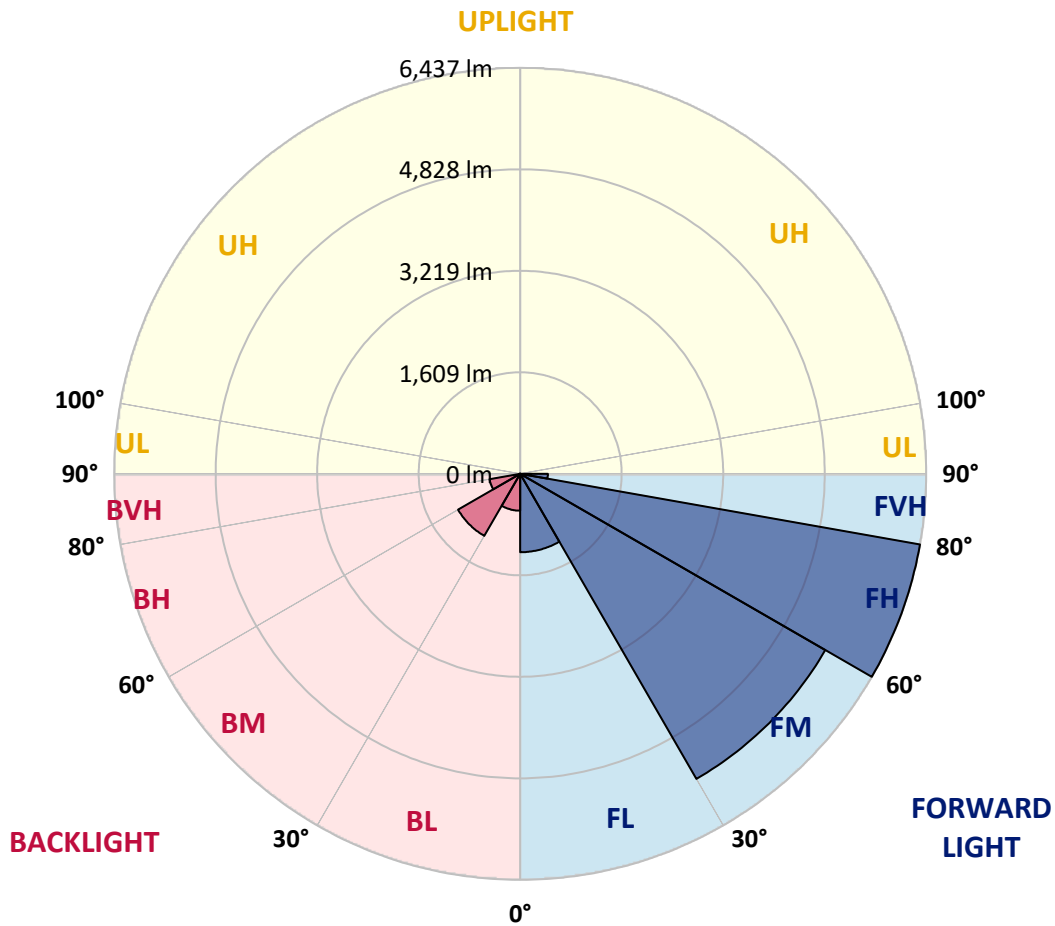
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.9	7.8			
FM (30°-60°)	5585.0	35.0			
FH (60°-80°)	6437.0	40.4			G3/7500
FVH (80°-90°)	438.5	2.8			G3/500
BL (0°-30°)	584.9	3.7	B2/1000		
BM (30°-60°)	1136.4	7.1	B2/2500		
BH (60°-80°)	492.7	3.1	B1/500		G1/500
BVH (80°-90°)	17.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2.5°	2493.0	2450.2	2424.9	2362.4	2299.8	2249.3	2181.2	2136.2	2082.4	2030.8
5°	2778.4	2709.3	2625.8	2511.7	2407.4	2300.9	2197.7	2095.6	1988.0	1889.2
7.5°	3019.9	2920.0	2772.9	2621.4	2488.6	2360.2	2239.4	2104.4	1973.8	1819.0
10°	3204.3	3077.0	2883.8	2685.1	2532.5	2403.0	2285.5	2171.4	2039.6	1853.0
12.5°	3316.3	3180.2	2950.8	2718.0	2543.5	2398.6	2307.5	2257.0	2205.4	2019.9
15°	3398.6	3251.6	2998.0	2741.1	2518.3	2340.4	2273.5	2323.9	2383.2	2264.7
17.5°	3484.3	3329.5	3059.4	2751.0	2450.2	2227.3	2198.8	2329.4	2466.7	2461.2
20°	3565.5	3411.8	3113.2	2744.4	2340.4	2090.1	2115.4	2282.2	2441.4	2508.4
22.5°	3658.8	3496.3	3164.8	2719.1	2197.7	1961.7	2040.7	2207.6	2347.0	2426.0
25°	3773.0	3602.8	3237.3	2681.8	2044.0	1855.2	1965.0	2120.9	2233.9	2288.8
27.5°	3895.9	3730.2	3333.9	2662.1	1920.0	1779.5	1879.4	2017.7	2118.7	2157.1
30°	4048.5	3878.4	3448.0	2640.1	1838.7	1735.6	1790.4	1898.0	1996.8	2035.2
32.5°	4215.4	4043.0	3557.8	2587.4	1789.3	1702.6	1703.7	1771.8	1861.8	1907.9
35°	4424.0	4240.6	3675.3	2472.1	1749.8	1664.2	1619.2	1652.1	1726.8	1781.7
37.5°	4721.4	4499.7	3819.1	2307.5	1691.6	1604.9	1530.3	1538.0	1595.0	1655.4
40°	5132.0	4847.7	3988.1	2136.2	1608.2	1521.5	1432.6	1429.3	1471.0	1530.3
42.5°	5687.5	5307.6	4191.2	1972.7	1528.1	1420.5	1329.4	1323.9	1356.8	1408.4
45°	6420.8	5896.0	4440.4	1832.2	1465.5	1321.7	1231.7	1229.5	1256.9	1301.9
47.5°	7359.3	6713.9	4689.6	1736.6	1432.6	1243.8	1151.5	1155.9	1180.1	1220.7
50°	8574.6	7779.8	4765.4	1688.3	1432.6	1202.0	1080.2	1102.1	1121.9	1152.6
52.5°	10031.3	8802.9	4515.1	1644.4	1441.4	1207.5	1019.8	1067.0	1081.3	1107.6
55°	11381.5	9304.6	3881.7	1584.1	1443.5	1241.6	968.2	1038.5	1064.8	1074.7
57.5°	12165.3	9132.2	3138.5	1482.0	1434.8	1264.6	935.3	1003.3	1053.8	1060.4
60°	12016.0	8527.4	2310.8	1404.0	1370.0	1255.8	925.4	949.6	1029.7	1039.6
62.5°	10865.6	7513.0	1603.8	1343.7	1227.3	1217.4	922.1	865.0	977.0	1001.2
65°	8733.7	5914.7	1132.9	1157.0	1075.8	1134.0	904.6	777.2	913.3	946.3
67.5°	6336.2	4002.4	817.8	937.5	974.8	999.0	865.0	713.5	840.9	884.8
70°	4066.1	2161.5	574.1	619.1	821.1	848.6	797.0	656.5	767.3	817.8
72.5°	2890.4	1276.7	412.8	433.6	659.8	707.0	701.5	592.8	681.7	743.2
75°	1994.6	703.7	278.8	309.6	478.6	574.1	541.2	509.4	577.4	640.0
77.5°	1250.3	315.1	166.9	215.2	314.0	451.2	371.0	394.1	450.1	508.3
80°	696.0	121.9	93.3	142.7	171.2	328.2	205.3	253.6	331.5	373.2
82.5°	151.5	15.4	41.7	61.5	67.0	191.0	108.7	147.1	208.6	205.3
85°	0.0	0.0	7.7	8.8	4.4	82.3	39.5	48.3	68.1	63.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
1984.7	2.5°	1976.0	1922.2	1882.6	1862.9	1846.4	1861.8	1870.6	1870.6	1907.9	1929.9
1828.9	5°	1790.4	1693.8	1620.3	1570.9	1541.2	1551.1	1562.1	1574.2	1621.4	1653.2
1736.6	7.5°	1662.0	1513.8	1401.8	1332.7	1296.4	1301.9	1309.6	1319.5	1365.6	1397.4
1749.8	10°	1637.9	1424.9	1266.8	1175.7	1131.8	1124.1	1119.7	1116.4	1143.9	1168.0
1899.1	12.5°	1736.6	1429.3	1208.6	1097.8	1044.0	1020.9	994.6	973.7	978.1	993.5
2125.3	15°	1913.4	1485.3	1190.0	1057.1	990.2	951.8	921.0	895.8	890.3	895.8
2322.8	17.5°	2115.4	1561.0	1187.8	1022.0	938.6	899.1	873.8	850.8	843.1	844.2
2433.7	20°	2249.3	1621.4	1181.2	982.5	889.2	854.1	832.1	809.0	801.4	803.6
2403.0	22.5°	2262.5	1653.2	1171.3	938.6	839.8	810.1	788.2	767.3	766.2	766.2
2287.7	25°	2191.1	1653.2	1150.4	899.1	792.6	766.2	746.5	721.2	725.6	727.8
2157.1	27.5°	2080.2	1613.7	1110.9	867.2	752.0	724.5	704.8	681.7	687.2	690.5
2035.2	30°	1970.5	1563.2	1063.7	831.0	713.5	681.7	667.4	647.7	649.9	654.3
1914.5	32.5°	1868.4	1509.4	1007.7	801.4	675.1	643.3	632.3	610.4	613.6	618.0
1795.9	35°	1767.4	1450.1	941.9	766.2	640.0	608.2	599.4	574.1	576.3	582.9
1677.4	37.5°	1658.7	1387.6	888.1	731.1	606.0	573.0	564.2	537.9	540.1	547.8
1554.4	40°	1544.5	1326.1	835.4	693.8	569.7	536.8	529.1	500.6	502.8	511.6
1433.7	42.5°	1429.3	1259.1	794.8	645.5	532.4	497.3	489.6	463.3	466.5	476.4
1328.3	45°	1322.8	1179.0	768.4	591.7	497.3	457.8	450.1	425.9	432.5	443.5
1239.4	47.5°	1231.7	1096.7	757.5	546.7	460.0	417.1	410.6	390.8	401.8	413.9
1163.6	50°	1153.7	1017.6	743.2	500.6	424.8	382.0	375.4	362.3	376.5	388.6
1112.0	52.5°	1097.8	927.6	712.4	458.9	394.1	352.4	350.2	343.6	356.8	367.7
1073.6	55°	1049.5	834.3	663.0	422.6	366.7	327.1	329.3	326.0	337.0	345.8
1050.6	57.5°	1005.5	753.1	600.5	394.1	337.0	305.2	311.8	307.4	312.9	318.3
1026.4	60°	952.9	670.7	525.8	362.3	301.9	283.2	290.9	278.8	277.7	279.9
982.5	62.5°	874.9	559.9	447.9	322.7	271.1	259.1	262.4	239.3	221.7	221.7
917.7	65°	766.2	450.1	375.4	278.8	236.0	226.1	223.9	191.0	166.9	164.7
847.5	67.5°	640.0	369.9	311.8	234.9	196.5	189.9	192.1	168.0	143.8	141.6
777.2	70°	521.4	306.3	251.4	187.7	151.5	158.1	168.0	143.8	120.8	117.5
694.9	72.5°	423.7	243.7	196.5	143.8	112.0	130.6	142.7	117.5	95.5	93.3
592.8	75°	327.1	178.9	140.5	97.7	81.2	101.0	112.0	85.6	68.1	64.8
458.9	77.5°	218.5	110.9	79.0	61.5	48.3	69.2	74.6	45.0	39.5	38.4
333.7	80°	132.8	51.6	34.0	29.6	16.5	25.2	29.6	18.7	20.9	22.0
177.8	82.5°	67.0	14.3	5.5	1.1	0.0	0.0	8.8	4.4	8.8	11.0
48.3	85°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5
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°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
1938.6	2.5°	2000.1	2046.2	2090.1	2160.4	2232.8	2304.2	2376.6	2446.9	2472.1	2490.8
1674.1	5°	1769.6	1856.3	1957.3	2096.7	2246.0	2399.7	2555.6	2698.3	2763.0	2807.0
1424.9	7.5°	1531.4	1644.4	1789.3	1999.0	2232.8	2477.6	2722.4	2947.5	3051.8	3136.3
1190.0	10°	1295.4	1418.3	1601.6	1840.9	2157.1	2508.4	2846.5	3156.0	3291.1	3397.6
1020.9	12.5°	1087.9	1203.1	1395.2	1659.8	2038.5	2484.2	2917.8	3290.0	3449.1	3568.8
900.2	15°	941.9	1023.1	1193.3	1478.7	1898.0	2406.3	2922.2	3353.6	3528.2	3653.3
849.7	17.5°	860.6	888.1	999.0	1294.3	1742.1	2304.2	2881.6	3375.6	3562.2	3678.6
804.7	20°	816.7	821.1	851.9	1054.9	1542.3	2208.7	2843.2	3397.6	3594.0	3691.8
772.8	22.5°	781.6	781.6	789.3	862.8	1284.4	2094.5	2831.1	3436.0	3638.0	3698.3
736.6	25°	749.8	749.8	752.0	771.7	1017.6	1920.0	2823.4	3495.3	3698.3	3714.8
700.4	27.5°	716.8	717.9	717.9	728.9	820.0	1682.9	2790.5	3572.1	3770.8	3736.8
665.2	30°	683.9	686.1	686.1	693.8	725.6	1405.1	2725.7	3664.3	3865.2	3765.3
630.1	32.5°	651.0	653.2	653.2	659.8	682.8	1121.9	2644.5	3748.8	3960.7	3777.4
596.1	35°	616.9	620.2	618.0	626.8	651.0	892.5	2541.3	3833.4	4063.9	3815.8
563.1	37.5°	582.9	585.1	584.0	592.8	620.2	770.6	2421.6	3897.0	4204.4	3901.4
528.0	40°	548.9	547.8	547.8	557.7	587.3	735.5	2271.3	3998.0	4406.4	4051.8
492.9	42.5°	513.7	513.7	511.6	522.5	558.8	709.1	2127.4	4179.2	4700.6	4291.1
460.0	45°	481.9	480.8	476.4	486.3	531.3	663.0	2077.0	4517.3	5135.3	4678.6
427.0	47.5°	451.2	450.1	439.1	447.9	498.4	621.3	2265.8	5070.5	5738.0	5248.4
400.7	50°	423.7	424.8	404.0	411.7	465.4	589.5	2675.2	5788.5	6538.2	6015.7
378.7	52.5°	398.5	398.5	371.0	375.4	424.8	561.0	3064.9	6566.8	7594.3	7086.0
355.7	55°	373.2	371.0	340.3	342.5	384.2	520.3	3123.1	7326.4	9034.5	8696.4
330.4	57.5°	344.7	340.3	311.8	311.8	346.9	490.7	2707.1	7910.4	10821.7	11063.2
283.2	60°	309.6	306.3	287.6	282.1	317.3	517.0	1910.1	7978.5	11974.3	14210.4
225.0	62.5°	264.6	268.9	259.1	251.4	288.7	536.8	1131.8	7430.7	11695.5	15211.6
174.5	65°	208.6	226.1	223.9	218.5	317.3	452.3	668.5	6379.1	10840.3	14403.6
152.6	67.5°	177.8	189.9	186.6	186.6	332.6	343.6	420.4	4983.8	9663.5	13445.3
127.3	70°	151.5	163.6	151.5	151.5	251.4	208.6	290.9	3479.9	8393.4	12384.9
102.1	72.5°	125.1	137.2	124.0	115.3	200.9	155.9	213.0	2174.7	7188.1	11280.5
72.5	75°	95.5	109.8	99.9	88.9	132.8	116.4	161.4	1263.5	5955.3	9651.5
43.9	77.5°	60.4	79.0	74.6	62.6	97.7	84.5	116.4	752.0	4595.2	7541.6
26.3	80°	37.3	40.6	41.7	39.5	56.0	57.1	79.0	428.1	3145.1	5256.1
16.5	82.5°	24.2	24.2	18.7	20.9	27.4	32.9	45.0	161.4	1848.6	3200.0
9.9	85°	17.6	15.4	9.9	9.9	13.2	16.5	17.6	49.4	749.8	1263.5
4.4	87.5°	8.8	7.7	3.3	4.4	6.6	5.5	4.4	2.2	188.8	404.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2206.5	0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2532.5	2.5°	2554.5	2588.5	2590.7	2590.7	2561.1	2560.0	2499.6	2493.0
2905.8	5°	3007.8	3029.8	3035.3	3024.3	2965.0	2921.1	2803.7	2778.4
3286.7	7.5°	3422.8	3466.7	3466.7	3440.4	3343.8	3253.7	3083.6	3019.9
3601.7	10°	3754.3	3804.8	3793.8	3740.1	3618.2	3494.2	3287.8	3204.3
3792.7	12.5°	3915.7	3967.3	3938.7	3877.3	3758.7	3628.1	3410.7	3316.3
3847.6	15°	3912.4	3898.1	3868.5	3860.8	3803.7	3704.9	3501.8	3398.6
3813.6	17.5°	3773.0	3652.2	3629.2	3706.0	3778.5	3754.3	3580.9	3484.3
3732.4	20°	3552.3	3341.6	3320.7	3467.8	3674.2	3779.6	3654.4	3565.5
3614.9	22.5°	3319.6	3092.4	3044.1	3206.5	3517.2	3787.3	3747.7	3658.8
3485.4	25°	3099.0	2870.6	2822.3	2973.8	3342.7	3774.1	3848.7	3773.0
3361.3	27.5°	2914.5	2693.9	2648.9	2800.4	3174.7	3736.8	3949.7	3895.9
3238.4	30°	2771.8	2567.6	2534.7	2680.7	3029.8	3690.7	4078.2	4048.5
3124.2	32.5°	2688.4	2539.1	2551.2	2670.8	2951.9	3640.2	4201.1	4215.4
3068.2	35°	2770.7	2777.3	2882.7	2932.1	3024.3	3632.5	4368.0	4424.0
3135.2	37.5°	3180.2	3408.5	3627.0	3586.4	3378.9	3721.4	4617.2	4721.4
3427.2	40°	3877.3	4346.0	4700.6	4545.8	4023.3	3993.6	4976.1	5132.0
3945.3	42.5°	4729.1	5523.9	6107.9	5693.0	4854.3	4470.1	5488.8	5687.5
4572.1	45°	5628.2	6976.2	7896.2	7033.3	5740.2	5137.5	6264.9	6420.8
5159.4	47.5°	6575.6	8741.4	9931.4	8519.7	6561.3	5897.1	7323.1	7359.3
5716.0	50°	7611.8	10676.8	12006.1	10004.9	7353.9	6767.7	8616.3	8574.6
6364.8	52.5°	8598.7	12667.0	14037.0	11496.8	8049.8	7847.9	10116.9	10031.3
7251.8	55°	9540.6	14656.1	16079.9	12930.5	8706.3	9274.9	11899.7	11381.5
8530.7	57.5°	10632.9	16444.4	18185.4	14370.7	9624.0	11127.9	13893.2	12165.3
10979.7	60°	12247.7	18476.3	20566.4	16344.5	11369.4	13075.4	14607.8	12016.0
13912.9	62.5°	14309.2	20344.7	22297.6	18278.7	13122.6	13442.0	13555.1	10865.6
13314.7	65°	14709.9	20817.8	22395.3	18795.8	12896.4	11402.4	11066.5	8733.7
11893.1	67.5°	13647.3	19962.7	21029.7	17833.0	11407.9	8811.7	8304.5	6336.2
10960.0	70°	12455.1	18332.5	18649.8	16196.3	10033.5	6481.1	5608.4	4066.1
10321.1	72.5°	11233.3	16157.9	15501.4	14065.5	8818.3	4719.2	4045.2	2890.4
9411.1	75°	9782.1	13298.2	12210.3	11686.7	7301.2	3703.8	2926.6	1994.6
8094.8	77.5°	7833.6	9360.6	9069.7	9058.7	5486.6	2706.0	1952.9	1250.3
6324.2	80°	5526.1	6075.0	5926.8	6822.5	3680.8	1962.8	1175.7	696.0
4402.0	82.5°	2675.2	3359.1	3448.0	4062.8	1790.4	1154.8	271.1	151.5
1721.3	85°	1047.3	1620.3	1366.7	1542.3	502.8	321.6	6.6	0.0
283.2	87.5°	117.5	187.7	172.3	136.1	61.5	13.2	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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