

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: P951246

Luminaire Tested: **GALN-SB5B-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951246
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-SB5B-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 15102 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

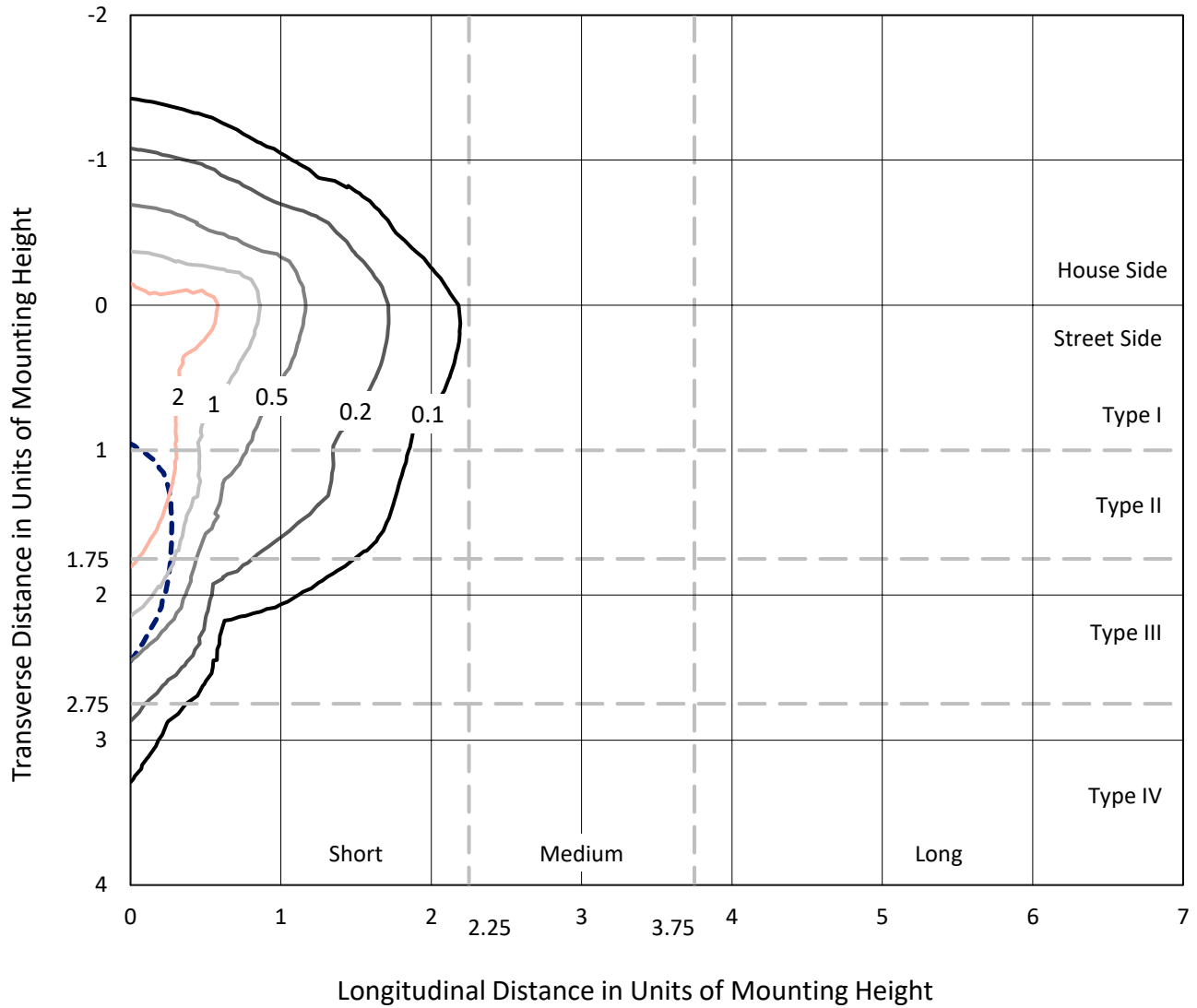
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

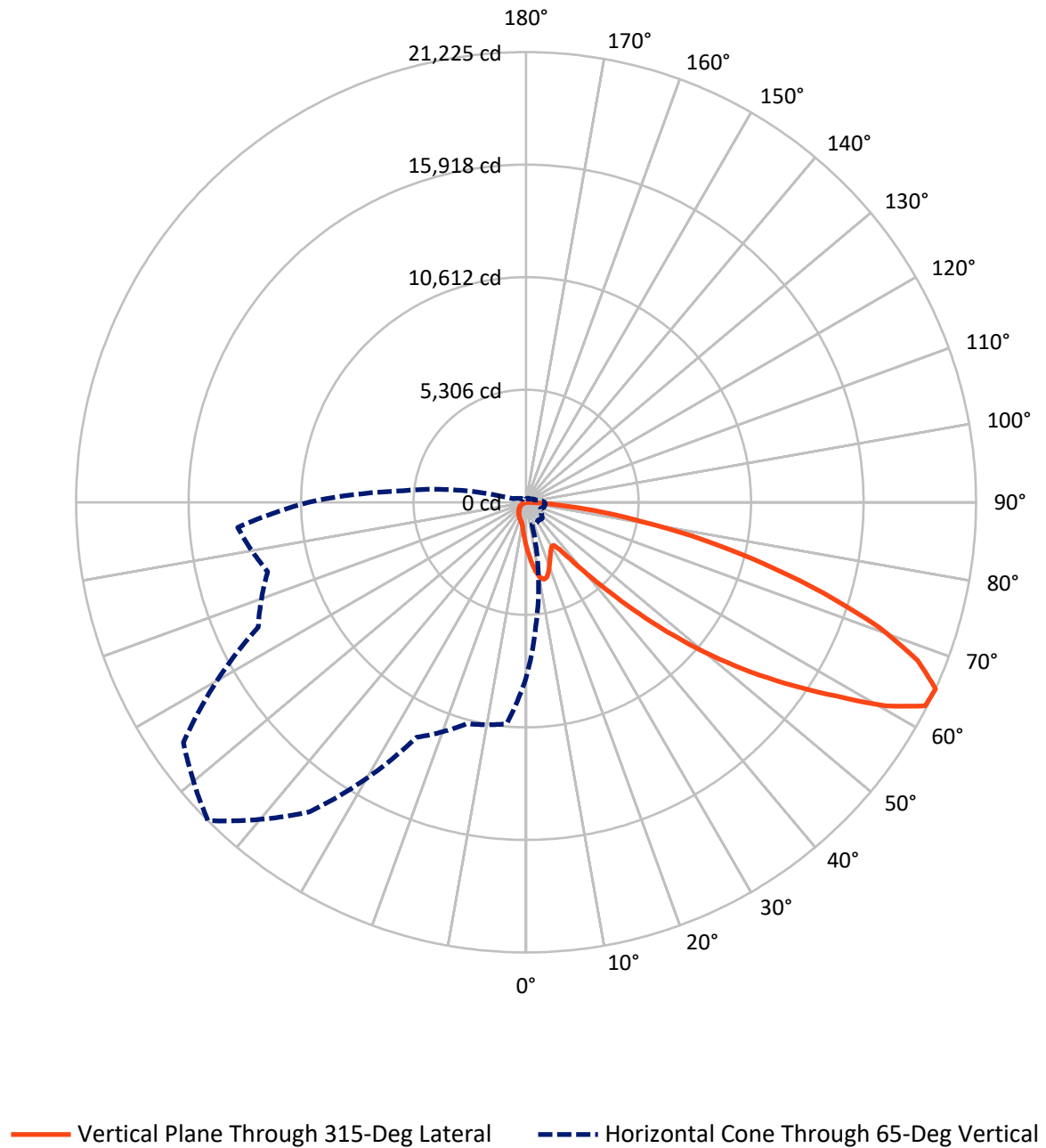
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2114.9	0.0	2114.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12987.1	0.0	12987.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	15102.0	0.0	15102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.4
10°-20°	617.2	4.1
20°-30°	909.2	6.0
30°-40°	1168.1	7.7
40°-50°	1889.2	12.5
50°-60°	3312.8	21.9
60°-70°	4145.2	27.4
70°-80°	2422.3	16.0
80°-90°	432.2	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°	15102.0	100.0
0°-180°	15102.0	100.0

Coefficient of Utilization



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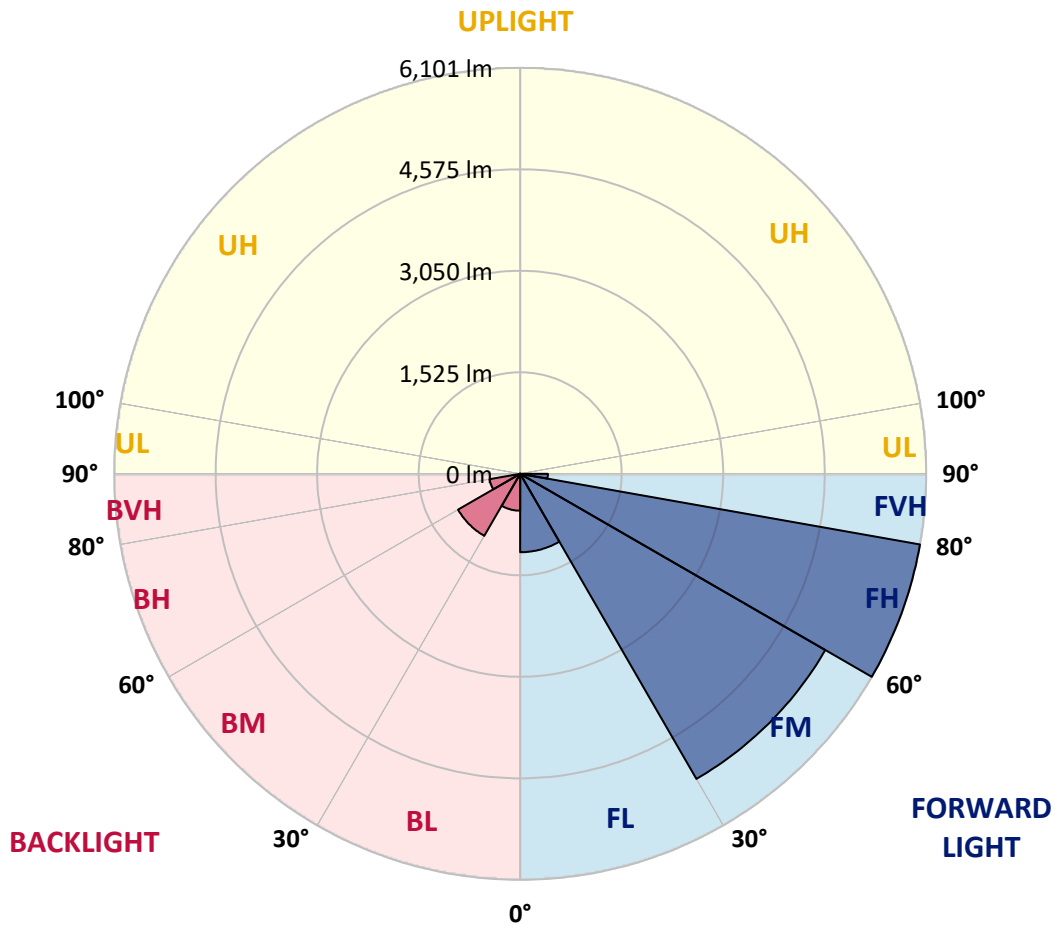
CATALOG NUMBER: GALN-SB5B-950-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.9	7.8			
FM (30°-60°)	5293.1	35.0			
FH (60°-80°)	6100.5	40.4			G3/7500
FVH (80°-90°)	415.6	2.8			G3/500
BL (0°-30°)	554.4	3.7	B2/1000		
BM (30°-60°)	1077.0	7.1	B2/2500		
BH (60°-80°)	467.0	3.1	B1/500		G1/500
BVH (80°-90°)	16.6	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°	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1
2.5°	2362.7	2322.1	2298.2	2238.9	2179.6	2131.7	2067.2	2024.6	1973.6	1924.7
5°	2633.2	2567.6	2488.6	2380.4	2281.5	2180.6	2082.8	1986.1	1884.1	1790.5
7.5°	2862.1	2767.4	2628.0	2484.4	2358.5	2236.8	2122.4	1994.4	1870.6	1723.9
10°	3036.8	2916.2	2733.1	2544.7	2400.1	2277.4	2166.1	2057.9	1933.0	1756.1
12.5°	3143.0	3014.0	2796.5	2576.0	2410.5	2273.2	2186.9	2139.0	2090.1	1914.3
15°	3221.0	3081.6	2841.3	2597.8	2386.6	2218.1	2154.6	2202.5	2258.6	2146.3
17.5°	3302.1	3155.4	2899.5	2607.2	2322.1	2110.9	2083.9	2207.7	2337.7	2332.5
20°	3379.1	3233.5	2950.5	2600.9	2218.1	1980.9	2004.8	2162.9	2313.8	2377.2
22.5°	3467.6	3313.6	2999.4	2577.0	2082.8	1859.1	1934.0	2092.2	2224.3	2299.2
25°	3575.8	3414.5	3068.1	2541.6	1937.2	1758.2	1862.3	2010.0	2117.2	2169.2
27.5°	3692.3	3535.2	3159.6	2522.9	1819.6	1686.4	1781.1	1912.2	2007.9	2044.3
30°	3836.9	3675.6	3267.8	2502.1	1742.6	1644.8	1696.8	1798.8	1892.4	1928.8
32.5°	3995.0	3831.7	3371.8	2452.2	1695.8	1613.6	1614.7	1679.2	1764.5	1808.2
35°	4192.7	4018.9	3483.2	2342.9	1658.3	1577.2	1534.5	1565.8	1636.5	1688.5
37.5°	4474.6	4264.5	3619.4	2186.9	1603.2	1521.0	1450.3	1457.6	1511.7	1568.9
40°	4863.7	4594.3	3779.7	2024.6	1524.1	1442.0	1357.7	1354.6	1394.1	1450.3
42.5°	5390.2	5030.2	3972.1	1869.5	1448.2	1346.2	1259.9	1254.7	1285.9	1334.8
45°	6085.1	5587.8	4208.3	1736.4	1388.9	1252.6	1167.3	1165.2	1191.2	1233.9
47.5°	6974.6	6362.9	4444.5	1645.9	1357.7	1178.7	1091.3	1095.5	1118.4	1156.9
50°	8126.3	7373.1	4516.2	1600.1	1357.7	1139.2	1023.7	1044.5	1063.3	1092.4
52.5°	9506.9	8342.7	4279.0	1558.5	1366.0	1144.4	966.5	1011.2	1024.8	1049.7
55°	10786.6	8818.2	3678.7	1501.3	1368.1	1176.7	917.6	984.2	1009.2	1018.5
57.5°	11529.4	8654.8	2974.4	1404.5	1359.8	1198.5	886.4	950.9	998.8	1005.0
60°	11387.9	8081.6	2190.0	1330.6	1298.4	1190.2	877.0	899.9	975.9	985.2
62.5°	10297.6	7120.3	1520.0	1273.4	1163.1	1153.8	873.9	819.8	925.9	948.8
65°	8277.2	5605.5	1073.7	1096.6	1019.6	1074.7	857.3	736.6	865.6	896.8
67.5°	6005.0	3793.2	775.1	888.5	923.8	946.7	819.8	676.2	796.9	838.5
70°	3853.5	2048.5	544.1	586.8	778.2	804.2	755.3	622.1	727.2	775.1
72.5°	2739.3	1210.0	391.2	410.9	625.3	670.0	664.8	561.8	646.1	704.3
75°	1890.4	666.9	264.3	293.4	453.6	544.1	512.9	482.7	547.2	606.5
77.5°	1185.0	298.6	158.1	203.9	297.5	427.6	351.6	373.5	426.6	481.7
80°	659.6	115.5	88.4	135.2	162.3	311.1	194.5	240.3	314.2	353.7
82.5°	143.6	14.6	39.5	58.3	63.5	181.0	103.0	139.4	197.7	194.5
85°	0.0	0.0	7.3	8.3	4.2	78.0	37.5	45.8	64.5	60.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°
2091.1	0°	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1
1881.0	2.5°	1872.7	1821.7	1784.2	1765.5	1749.9	1764.5	1772.8	1772.8	1808.2	1829.0
1733.3	5°	1696.8	1605.3	1535.6	1488.8	1460.7	1470.0	1480.4	1491.9	1536.6	1566.8
1645.9	7.5°	1575.1	1434.7	1328.6	1263.0	1228.7	1233.9	1241.2	1250.5	1294.2	1324.4
1658.3	10°	1552.2	1350.4	1200.6	1114.2	1072.6	1065.3	1061.2	1058.1	1084.1	1107.0
1799.8	12.5°	1645.9	1354.6	1145.4	1040.4	989.4	967.5	942.6	922.8	927.0	941.5
2014.2	15°	1813.4	1407.6	1127.8	1001.9	938.4	902.0	872.9	848.9	843.7	848.9
2201.4	17.5°	2004.8	1479.4	1125.7	968.6	889.5	852.1	828.1	806.3	799.0	800.0
2306.5	20°	2131.7	1536.6	1119.4	931.1	842.7	809.4	788.6	766.8	759.5	761.6
2277.4	22.5°	2144.2	1566.8	1110.1	889.5	795.9	767.8	747.0	727.2	726.2	726.2
2168.1	25°	2076.6	1566.8	1090.3	852.1	751.1	726.2	707.5	683.5	687.7	689.8
2044.3	27.5°	1971.5	1529.3	1052.9	821.9	712.7	686.6	667.9	646.1	651.3	654.4
1928.8	30°	1867.5	1481.5	1008.1	787.6	676.2	646.1	632.5	613.8	615.9	620.1
1814.4	32.5°	1770.7	1430.5	955.1	759.5	639.8	609.7	599.3	578.4	581.6	585.7
1702.0	35°	1675.0	1374.3	892.6	726.2	606.5	576.4	568.0	544.1	546.2	552.4
1589.7	37.5°	1572.0	1315.0	841.7	692.9	574.3	543.1	534.8	509.8	511.9	519.1
1473.2	40°	1463.8	1256.8	791.7	657.5	540.0	508.7	501.5	474.4	476.5	484.8
1358.7	42.5°	1354.6	1193.3	753.2	611.7	504.6	471.3	464.0	439.0	442.2	451.5
1258.8	45°	1253.6	1117.4	728.3	560.8	471.3	433.8	426.6	403.7	409.9	420.3
1174.6	47.5°	1167.3	1039.3	717.9	518.1	435.9	395.3	389.1	370.4	380.8	392.2
1102.8	50°	1093.4	964.4	704.3	474.4	402.6	362.0	355.8	343.3	356.8	368.3
1053.9	52.5°	1040.4	879.1	675.2	434.9	373.5	334.0	331.9	325.6	338.1	348.5
1017.5	55°	994.6	790.7	628.4	400.5	347.5	310.0	312.1	309.0	319.4	327.7
995.6	57.5°	953.0	713.7	569.1	373.5	319.4	289.2	295.5	291.3	296.5	301.7
972.7	60°	903.0	635.7	498.3	343.3	286.1	268.4	275.7	264.3	263.2	265.3
931.1	62.5°	829.2	530.6	424.5	305.9	257.0	245.5	248.6	226.8	210.2	210.2
869.7	65°	726.2	426.6	355.8	264.3	223.7	214.3	212.2	181.0	158.1	156.1
803.2	67.5°	606.5	350.6	295.5	222.6	186.2	180.0	182.1	159.2	136.3	134.2
736.6	70°	494.2	290.3	238.2	177.9	143.6	149.8	159.2	136.3	114.4	111.3
658.6	72.5°	401.6	231.0	186.2	136.3	106.1	123.8	135.2	111.3	90.5	88.4
561.8	75°	310.0	169.6	133.2	92.6	77.0	95.7	106.1	81.1	64.5	61.4
434.9	77.5°	207.0	105.1	74.9	58.3	45.8	65.5	70.7	42.7	37.5	36.4
316.3	80°	125.9	48.9	32.3	28.1	15.6	23.9	28.1	17.7	19.8	20.8
168.5	82.5°	63.5	13.5	5.2	1.0	0.0	0.0	8.3	4.2	8.3	10.4
45.8	85°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2
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°
2091.1	0°	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1
1837.3	2.5°	1895.6	1939.2	1980.9	2047.4	2116.1	2183.7	2252.4	2319.0	2342.9	2360.6
1586.6	5°	1677.1	1759.3	1855.0	1987.1	2128.6	2274.2	2422.0	2557.2	2618.6	2660.2
1350.4	7.5°	1451.3	1558.5	1695.8	1894.5	2116.1	2348.1	2580.1	2793.4	2892.2	2972.3
1127.8	10°	1227.6	1344.2	1517.9	1744.7	2044.3	2377.2	2697.7	2991.1	3119.0	3219.9
967.5	12.5°	1031.0	1140.2	1322.3	1573.0	1932.0	2354.4	2765.3	3118.0	3268.8	3382.2
853.1	15°	892.6	969.6	1130.9	1401.4	1798.8	2280.5	2769.5	3178.3	3343.7	3462.4
805.2	17.5°	815.7	841.7	946.7	1226.6	1651.1	2183.7	2731.0	3199.1	3376.0	3486.3
762.6	20°	774.0	778.2	807.3	999.8	1461.7	2093.2	2694.6	3219.9	3406.2	3498.8
732.4	22.5°	740.7	740.7	748.0	817.7	1217.2	1985.0	2683.1	3256.4	3447.8	3505.0
698.1	25°	710.6	710.6	712.7	731.4	964.4	1819.6	2675.8	3312.5	3505.0	3520.6
663.8	27.5°	679.4	680.4	680.4	690.8	777.2	1594.9	2644.6	3385.4	3573.7	3541.4
630.5	30°	648.2	650.2	650.2	657.5	687.7	1331.7	2583.2	3472.8	3663.1	3568.5
597.2	32.5°	616.9	619.0	619.0	625.3	647.1	1063.3	2506.3	3552.9	3753.7	3579.9
564.9	35°	584.7	587.8	585.7	594.1	616.9	845.8	2408.5	3633.0	3851.4	3616.3
533.7	37.5°	552.4	554.5	553.5	561.8	587.8	730.3	2295.1	3693.3	3984.6	3697.5
500.4	40°	520.2	519.1	519.1	528.5	556.6	697.0	2152.5	3789.0	4176.0	3840.0
467.1	42.5°	486.9	486.9	484.8	495.2	529.5	672.1	2016.2	3960.7	4454.9	4066.8
435.9	45°	456.7	455.7	451.5	460.9	503.5	628.4	1968.4	4281.1	4866.9	4434.1
404.7	47.5°	427.6	426.6	416.1	424.5	472.3	588.8	2147.3	4805.5	5438.0	4974.0
379.7	50°	401.6	402.6	382.9	390.1	441.1	558.7	2535.4	5485.9	6196.4	5701.2
358.9	52.5°	377.7	377.7	351.6	355.8	402.6	531.6	2904.7	6223.5	7197.3	6715.6
337.1	55°	353.7	351.6	322.5	324.6	364.1	493.1	2959.9	6943.4	8562.2	8241.8
313.2	57.5°	326.7	322.5	295.5	295.5	328.8	465.0	2565.6	7496.9	10256.0	10484.8
268.4	60°	293.4	290.3	272.6	267.4	300.7	490.0	1810.2	7561.4	11348.4	13467.6
213.3	62.5°	250.7	254.9	245.5	238.2	273.6	508.7	1072.6	7042.3	11084.1	14416.4
165.4	65°	197.7	214.3	212.2	207.0	300.7	428.6	633.6	6045.6	10273.7	13650.7
144.6	67.5°	168.5	180.0	176.9	176.9	315.2	325.6	398.5	4723.3	9158.4	12742.5
120.7	70°	143.6	155.0	143.6	143.6	238.2	197.7	275.7	3298.0	7954.7	11737.5
96.8	72.5°	118.6	130.0	117.6	109.2	190.4	147.7	201.8	2061.0	6812.3	10690.8
68.7	75°	90.5	104.0	94.7	84.3	125.9	110.3	152.9	1197.5	5644.0	9146.9
41.6	77.5°	57.2	74.9	70.7	59.3	92.6	80.1	110.3	712.7	4355.0	7147.3
25.0	80°	35.4	38.5	39.5	37.5	53.1	54.1	74.9	405.7	2980.7	4981.3
15.6	82.5°	22.9	22.9	17.7	19.8	26.0	31.2	42.7	152.9	1752.0	3032.7
9.4	85°	16.6	14.6	9.4	9.4	12.5	15.6	16.6	46.8	710.6	1197.5
4.2	87.5°	8.3	7.3	3.1	4.2	6.2	5.2	4.2	2.1	178.9	382.9
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°
2091.1	0°	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1	2091.1
2400.1	2.5°	2420.9	2453.2	2455.3	2455.3	2427.2	2426.1	2368.9	2362.7
2753.9	5°	2850.6	2871.4	2876.6	2866.2	2810.0	2768.4	2657.1	2633.2
3114.9	7.5°	3243.9	3285.5	3285.5	3260.5	3169.0	3083.7	2922.4	2862.1
3413.5	10°	3558.1	3605.9	3595.5	3544.5	3429.1	3311.5	3115.9	3036.8
3594.5	12.5°	3711.0	3759.9	3732.8	3674.6	3562.2	3438.4	3232.4	3143.0
3646.5	15°	3707.9	3694.4	3666.3	3659.0	3604.9	3511.2	3318.8	3221.0
3614.2	17.5°	3575.8	3461.3	3439.5	3512.3	3581.0	3558.1	3393.7	3302.1
3537.3	20°	3366.6	3166.9	3147.1	3286.5	3482.1	3582.0	3463.4	3379.1
3425.9	22.5°	3146.1	2930.7	2884.9	3038.9	3333.3	3589.3	3551.8	3467.6
3303.2	25°	2937.0	2720.6	2674.8	2818.4	3167.9	3576.8	3647.5	3575.8
3185.6	27.5°	2762.2	2553.1	2510.4	2654.0	3008.8	3541.4	3743.3	3692.3
3069.1	30°	2626.9	2433.4	2402.2	2540.6	2871.4	3497.7	3865.0	3836.9
2960.9	32.5°	2547.9	2406.4	2417.8	2531.2	2797.6	3449.9	3981.5	3995.0
2907.8	35°	2625.9	2632.1	2732.0	2778.8	2866.2	3442.6	4139.6	4192.7
2971.3	37.5°	3014.0	3230.3	3437.4	3398.9	3202.3	3526.9	4375.8	4474.6
3248.0	40°	3674.6	4118.8	4454.9	4308.2	3813.0	3784.9	4716.0	4863.7
3739.1	42.5°	4481.9	5235.1	5788.6	5395.4	4600.5	4236.4	5201.9	5390.2
4333.1	45°	5334.0	6611.6	7483.4	6665.7	5440.1	4868.9	5937.4	6085.1
4889.7	47.5°	6231.8	8284.5	9412.2	8074.3	6218.3	5588.9	6940.3	6974.6
5417.2	50°	7213.9	10118.6	11378.5	9481.9	6969.4	6413.9	8165.9	8126.3
6032.1	52.5°	8149.2	12004.8	13303.2	10895.8	7629.0	7437.6	9588.1	9506.9
6872.7	55°	9041.9	13890.0	15239.3	12254.5	8251.2	8790.1	11277.6	10786.6
8084.7	57.5°	10077.0	15584.7	17234.8	13619.5	9120.9	10546.2	13166.9	11529.4
10405.8	60°	11607.4	17510.5	19491.3	15490.1	10775.1	12391.8	13844.2	11387.9
13185.6	62.5°	13561.2	19281.2	21132.0	17323.2	12436.6	12739.3	12846.5	10297.6
12618.6	65°	13941.0	19729.6	21224.6	17813.2	12222.3	10806.3	10488.0	8277.2
11271.4	67.5°	12933.9	18919.1	19930.4	16900.8	10811.5	8351.1	7870.4	6005.0
10387.1	70°	11804.0	17374.2	17674.8	15349.6	9509.0	6142.3	5315.3	3853.5
9781.6	72.5°	10646.1	15313.2	14691.1	13330.3	8357.3	4472.6	3833.8	2739.3
8919.1	75°	9270.7	12603.0	11572.0	11075.8	6919.5	3510.2	2773.6	1890.4
7671.7	77.5°	7424.1	8871.2	8595.5	8585.1	5199.8	2564.5	1850.8	1185.0
5993.6	80°	5237.2	5757.4	5617.0	6465.9	3488.4	1860.2	1114.2	659.6
4171.9	82.5°	2535.4	3183.5	3267.8	3850.4	1696.8	1094.5	257.0	143.6
1631.3	85°	992.5	1535.6	1295.3	1461.7	476.5	304.8	6.2	0.0
268.4	87.5°	111.3	177.9	163.3	129.0	58.3	12.5	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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