

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: P951582

Luminaire Tested: **GALN-SB5C-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951582
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-SB5C-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 20922 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

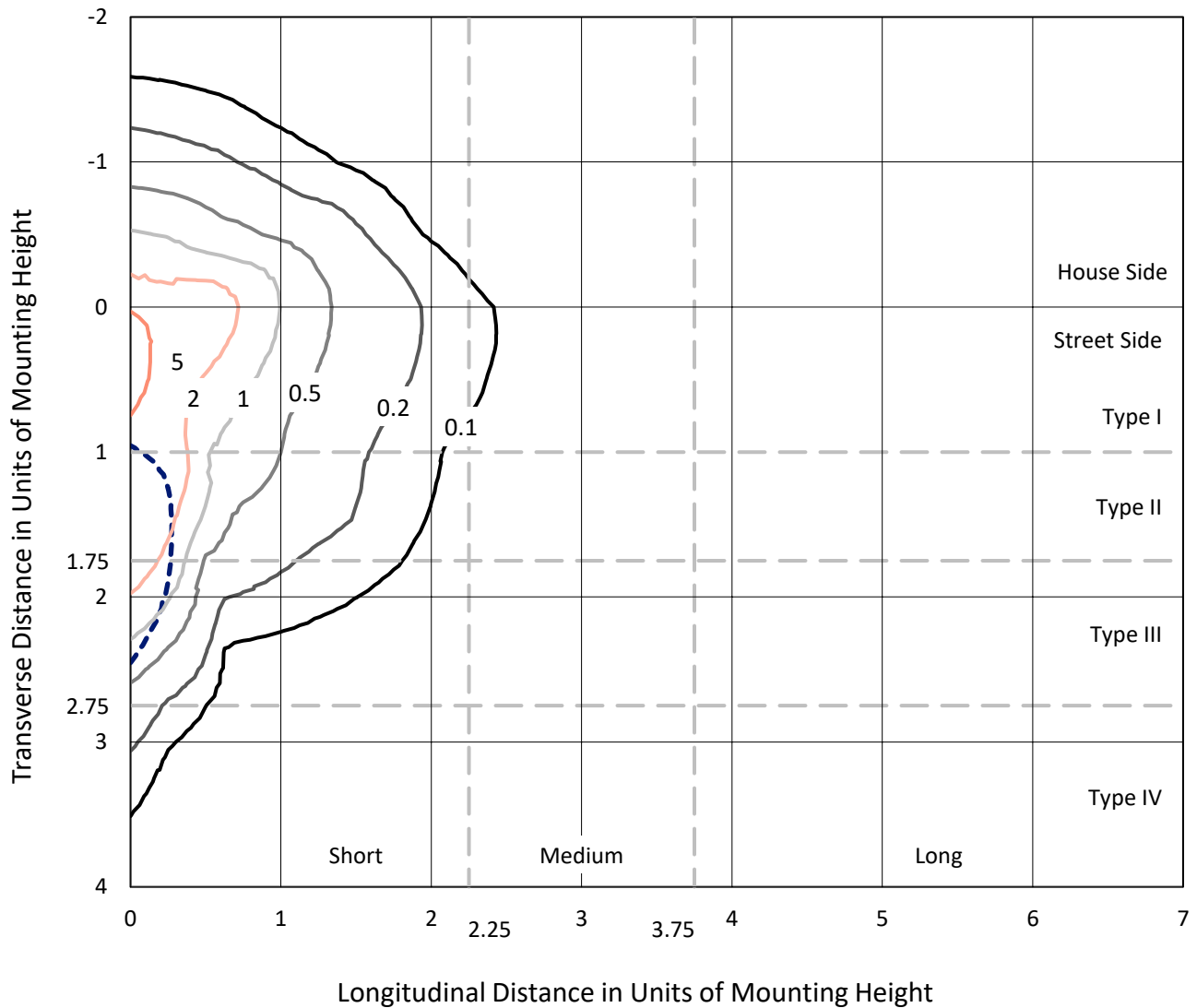
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

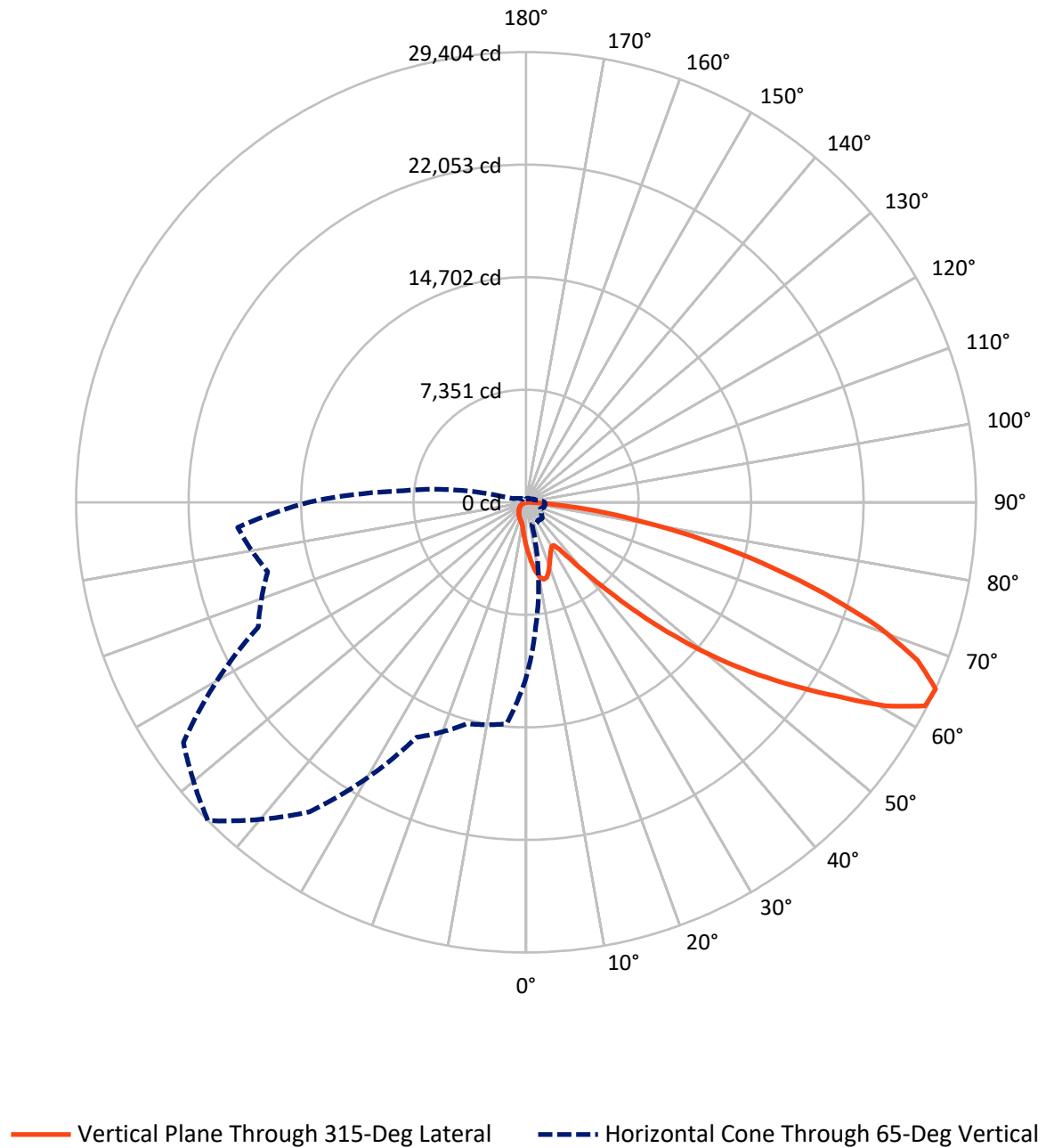
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2930.0	0.0	2930.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17992.0	0.0	17992.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	20922.0	0.0	20922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.4
10°-20°	855.0	4.1
20°-30°	1259.6	6.0
30°-40°	1618.3	7.7
40°-50°	2617.2	12.5
50°-60°	4589.5	21.9
60°-70°	5742.7	27.4
70°-80°	3355.8	16.0
80°-90°	598.7	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°	20922.0	100.0
0°-180°	20922.0	100.0

Coefficient of Utilization



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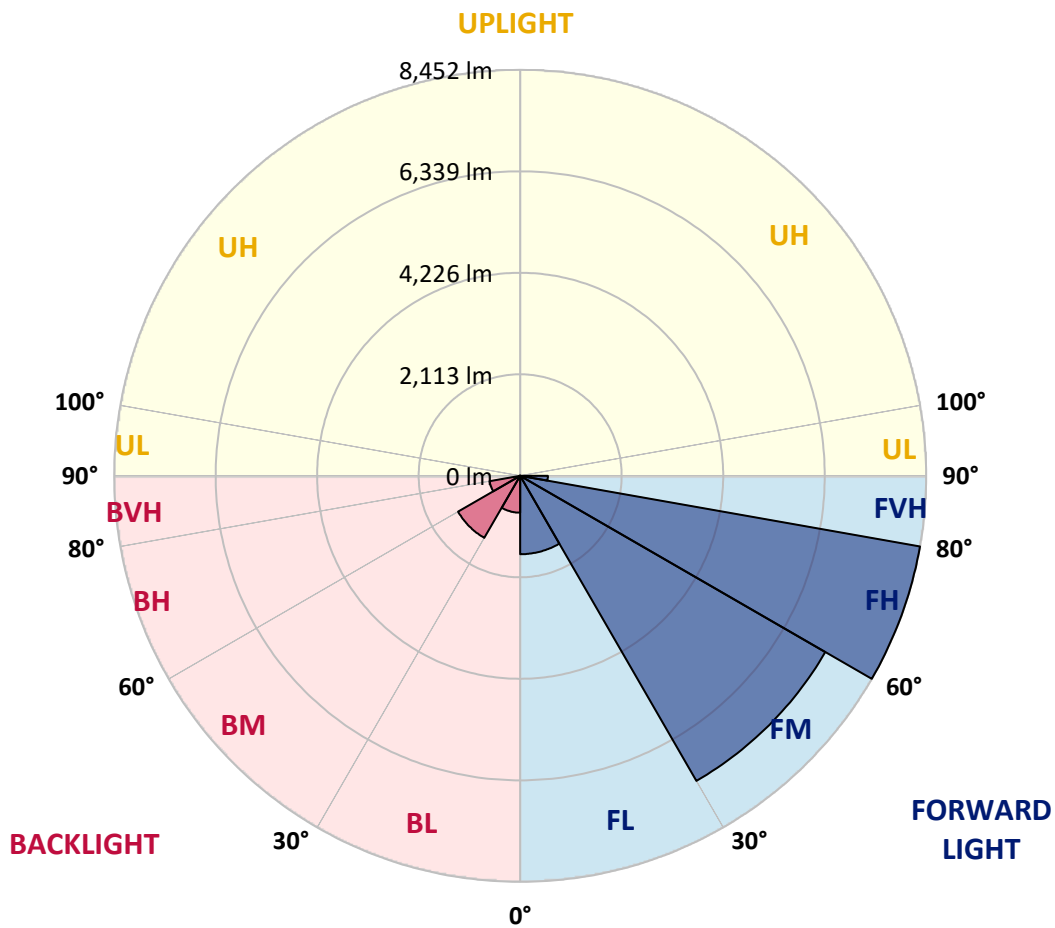
CATALOG NUMBER: GALN-SB5C-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.8	7.8			
FM (30°-60°)	7332.9	35.0			
FH (60°-80°)	8451.5	40.4			G4/12000
FVH (80°-90°)	575.7	2.8			G4/750
BL (0°-30°)	768.0	3.7	B2/1000		
BM (30°-60°)	1492.0	7.1	B2/2500		
BH (60°-80°)	647.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
2.5°	3273.2	3217.0	3183.8	3101.7	3019.5	2953.2	2863.9	2804.8	2734.2	2666.4
5°	3647.9	3557.1	3447.6	3297.7	3160.8	3021.0	2885.5	2751.5	2610.2	2480.5
7.5°	3965.0	3833.9	3640.7	3441.8	3267.4	3098.8	2940.3	2763.0	2591.5	2388.2
10°	4207.2	4040.0	3786.3	3525.4	3325.1	3155.0	3000.8	2850.9	2677.9	2432.9
12.5°	4354.2	4175.5	3874.2	3568.7	3339.5	3149.3	3029.6	2963.3	2895.6	2652.0
15°	4462.3	4269.2	3936.2	3598.9	3306.4	3072.9	2984.9	3051.2	3129.1	2973.4
17.5°	4574.7	4371.5	4016.9	3611.9	3217.0	2924.4	2886.9	3058.5	3238.6	3231.4
20°	4681.4	4479.6	4087.5	3603.3	3072.9	2744.2	2777.4	2996.5	3205.5	3293.4
22.5°	4803.9	4590.6	4155.3	3570.1	2885.5	2575.6	2679.4	2898.5	3081.5	3185.3
25°	4953.8	4730.4	4250.4	3521.1	2683.7	2435.8	2579.9	2784.6	2933.1	3005.1
27.5°	5115.2	4897.6	4377.3	3495.2	2520.8	2336.4	2467.5	2649.1	2781.7	2832.2
30°	5315.5	5092.1	4527.1	3466.3	2414.2	2278.7	2350.8	2492.0	2621.7	2672.2
32.5°	5534.6	5308.3	4671.3	3397.2	2349.3	2235.5	2236.9	2326.3	2444.5	2505.0
35°	5808.5	5567.8	4825.5	3245.8	2297.4	2185.0	2125.9	2169.2	2267.2	2339.2
37.5°	6199.1	5907.9	5014.3	3029.6	2221.1	2107.2	2009.2	2019.3	2094.2	2173.5
40°	6738.1	6364.8	5236.3	2804.8	2111.5	1997.7	1880.9	1876.6	1931.4	2009.2
42.5°	7467.4	6968.7	5502.9	2590.0	2006.3	1865.1	1745.4	1738.2	1781.5	1849.2
45°	8430.2	7741.3	5830.1	2405.5	1924.1	1735.3	1617.1	1614.3	1650.3	1709.4
47.5°	9662.5	8815.0	6157.3	2280.1	1880.9	1633.0	1511.9	1517.7	1549.4	1602.7
50°	11258.1	10214.5	6256.7	2216.7	1880.9	1578.2	1418.2	1447.1	1473.0	1513.4
52.5°	13170.7	11557.8	5928.1	2159.1	1892.4	1585.4	1339.0	1401.0	1419.7	1454.3
55°	14943.5	12216.5	5096.5	2079.8	1895.3	1630.1	1271.2	1363.5	1398.1	1411.0
57.5°	15972.6	11990.2	4120.7	1945.8	1883.8	1660.4	1228.0	1317.4	1383.7	1392.3
60°	15776.5	11196.1	3034.0	1843.4	1798.8	1648.9	1215.0	1246.7	1351.9	1364.9
62.5°	14266.1	9864.3	2105.7	1764.2	1611.4	1598.4	1210.7	1135.8	1282.8	1314.5
65°	11467.0	7765.8	1487.4	1519.1	1412.5	1488.9	1187.6	1020.4	1199.2	1242.4
67.5°	8319.2	5255.0	1073.8	1230.9	1279.9	1311.6	1135.8	936.8	1104.0	1161.7
70°	5338.6	2837.9	753.8	812.9	1078.1	1114.1	1046.4	861.9	1007.5	1073.8
72.5°	3795.0	1676.2	541.9	569.3	866.2	928.2	921.0	778.3	895.1	975.8
75°	2618.9	923.9	366.1	406.4	628.4	753.8	710.6	668.8	758.1	840.3
77.5°	1641.6	413.7	219.1	282.5	412.2	592.4	487.2	517.4	590.9	667.3
80°	913.8	160.0	122.5	187.4	224.8	431.0	269.5	332.9	435.3	490.0
82.5°	198.9	20.2	54.8	80.7	87.9	250.8	142.7	193.1	273.8	269.5
85°	0.0	0.0	10.1	11.5	5.8	108.1	51.9	63.4	89.4	83.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
2897.0	0°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
2605.9	2.5°	2594.4	2523.7	2471.8	2445.9	2424.3	2444.5	2456.0	2456.0	2505.0	2533.8
2401.2	5°	2350.8	2223.9	2127.4	2062.5	2023.6	2036.6	2051.0	2066.8	2128.8	2170.6
2280.1	7.5°	2182.1	1987.6	1840.5	1749.7	1702.2	1709.4	1719.5	1732.5	1793.0	1834.8
2297.4	10°	2150.4	1870.8	1663.3	1543.6	1486.0	1475.9	1470.1	1465.8	1501.8	1533.6
2493.5	12.5°	2280.1	1876.6	1586.9	1441.3	1370.7	1340.4	1305.8	1278.4	1284.2	1304.4
2790.4	15°	2512.2	1950.1	1562.4	1388.0	1300.1	1249.6	1209.3	1176.1	1168.9	1176.1
3049.8	17.5°	2777.4	2049.5	1559.5	1341.9	1232.3	1180.4	1147.3	1117.0	1106.9	1108.4
3195.4	20°	2953.2	2128.8	1550.8	1290.0	1167.5	1121.3	1092.5	1062.2	1052.2	1055.0
3155.0	22.5°	2970.5	2170.6	1537.9	1232.3	1102.6	1063.7	1034.9	1007.5	1006.0	1006.0
3003.7	25°	2876.8	2170.6	1510.5	1180.4	1040.6	1006.0	980.1	946.9	952.7	955.6
2832.2	27.5°	2731.3	2118.7	1458.6	1138.6	987.3	951.3	925.3	895.1	902.3	906.6
2672.2	30°	2587.1	2052.4	1396.6	1091.1	936.8	895.1	876.3	850.4	853.3	859.0
2513.6	32.5°	2453.1	1981.8	1323.1	1052.2	886.4	844.6	830.2	801.4	805.7	811.5
2358.0	35°	2320.5	1904.0	1236.6	1006.0	840.3	798.5	787.0	753.8	756.7	765.3
2202.3	37.5°	2177.8	1821.8	1166.0	959.9	795.6	752.4	740.8	706.2	709.1	719.2
2040.9	40°	2027.9	1741.1	1096.8	910.9	748.0	704.8	694.7	657.2	660.1	671.6
1882.3	42.5°	1876.6	1653.2	1043.5	847.5	699.0	652.9	642.8	608.2	612.6	625.5
1744.0	45°	1736.8	1548.0	1008.9	776.9	652.9	601.0	590.9	559.2	567.9	582.3
1627.2	47.5°	1617.1	1439.9	994.5	717.8	603.9	547.7	539.0	513.1	527.5	543.4
1527.8	50°	1514.8	1336.1	975.8	657.2	557.8	501.6	492.9	475.6	494.4	510.2
1460.0	52.5°	1441.3	1217.9	935.4	602.5	517.4	462.7	459.8	451.1	468.4	482.8
1409.6	55°	1377.9	1095.4	870.5	554.9	481.4	429.5	432.4	428.1	442.5	454.0
1379.3	57.5°	1320.2	988.7	788.4	517.4	442.5	400.7	409.3	403.6	410.8	418.0
1347.6	60°	1251.1	880.6	690.4	475.6	396.4	371.9	381.9	366.1	364.7	367.5
1290.0	62.5°	1148.7	735.1	588.1	423.7	356.0	340.1	344.5	314.2	291.1	291.1
1204.9	65°	1006.0	590.9	492.9	366.1	309.9	296.9	294.0	250.8	219.1	216.2
1112.7	67.5°	840.3	485.7	409.3	308.4	258.0	249.3	252.2	220.5	188.8	185.9
1020.4	70°	684.6	402.1	330.1	246.5	198.9	207.5	220.5	188.8	158.5	154.2
912.3	72.5°	556.3	320.0	258.0	188.8	147.0	171.5	187.4	154.2	125.4	122.5
778.3	75°	429.5	234.9	184.5	128.3	106.7	132.6	147.0	112.4	89.4	85.0
602.5	77.5°	286.8	145.6	103.8	80.7	63.4	90.8	98.0	59.1	51.9	50.4
438.2	80°	174.4	67.7	44.7	38.9	21.6	33.2	38.9	24.5	27.4	28.8
233.5	82.5°	87.9	18.7	7.2	1.4	0.0	0.0	11.5	5.8	11.5	14.4
63.4	85°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.2
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°
2897.0	0°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
2545.3	2.5°	2626.1	2686.6	2744.2	2836.5	2931.6	3025.3	3120.4	3212.7	3245.8	3270.3
2198.0	5°	2323.4	2437.3	2569.9	2752.9	2948.9	3150.7	3355.4	3542.7	3627.8	3685.4
1870.8	7.5°	2010.6	2159.1	2349.3	2624.6	2931.6	3253.0	3574.4	3869.9	4006.8	4117.8
1562.4	10°	1700.7	1862.2	2102.9	2417.1	2832.2	3293.4	3737.3	4143.8	4321.0	4460.8
1340.4	12.5°	1428.3	1579.7	1831.9	2179.3	2676.5	3261.7	3831.0	4319.6	4528.6	4685.7
1181.9	15°	1236.6	1343.3	1566.7	1941.4	2492.0	3159.3	3836.8	4403.2	4632.4	4796.7
1115.6	17.5°	1130.0	1166.0	1311.6	1699.3	2287.4	3025.3	3783.4	4432.0	4677.0	4829.8
1056.5	20°	1072.3	1078.1	1118.5	1385.1	2025.0	2899.9	3733.0	4460.8	4718.8	4847.1
1014.7	22.5°	1026.2	1026.2	1036.3	1132.9	1686.3	2750.0	3717.1	4511.3	4776.5	4855.8
967.1	25°	984.4	984.4	987.3	1013.2	1336.1	2520.8	3707.0	4589.1	4855.8	4877.4
919.6	27.5°	941.2	942.6	942.6	957.0	1076.7	2209.5	3663.8	4690.0	4950.9	4906.2
873.4	30°	897.9	900.8	900.8	910.9	952.7	1844.9	3578.8	4811.1	5074.8	4943.7
827.3	32.5°	854.7	857.6	857.6	866.2	896.5	1473.0	3472.1	4922.1	5200.2	4959.5
782.6	35°	810.0	814.3	811.5	823.0	854.7	1171.8	3336.6	5033.0	5335.7	5010.0
739.4	37.5°	765.3	768.2	766.8	778.3	814.3	1011.8	3179.5	5116.6	5520.2	5122.4
693.3	40°	720.7	719.2	719.2	732.2	771.1	965.7	2982.1	5249.2	5785.4	5319.9
647.1	42.5°	674.5	674.5	671.6	686.1	733.6	931.1	2793.3	5487.1	6171.7	5634.1
603.9	45°	632.7	631.3	625.5	638.5	697.6	870.5	2727.0	5931.0	6742.4	6142.9
560.7	47.5°	592.4	590.9	576.5	588.1	654.4	815.8	2974.9	6657.4	7533.7	6890.9
526.1	50°	556.3	557.8	530.4	540.5	611.1	774.0	3512.5	7600.0	8584.4	7898.4
497.3	52.5°	523.2	523.2	487.2	492.9	557.8	736.5	4024.1	8621.9	9971.0	9303.6
467.0	55°	490.0	487.2	446.8	449.7	504.5	683.2	4100.5	9619.3	11862.0	11418.0
433.8	57.5°	452.6	446.8	409.3	409.3	455.5	644.3	3554.3	10386.1	14208.4	14525.5
371.9	60°	406.4	402.1	377.6	370.4	416.5	678.9	2507.9	10475.4	15721.8	18657.7
295.5	62.5°	347.4	353.1	340.1	330.1	379.1	704.8	1486.0	9756.2	15355.7	19972.2
229.2	65°	273.8	296.9	294.0	286.8	416.5	593.8	877.8	8375.4	14232.9	18911.4
200.3	67.5°	233.5	249.3	245.0	245.0	436.7	451.1	552.0	6543.5	12687.8	17653.1
167.2	70°	198.9	214.8	198.9	198.9	330.1	273.8	381.9	4568.9	11020.2	16260.8
134.0	72.5°	164.3	180.2	162.9	151.3	263.8	204.7	279.6	2855.2	9437.7	14810.9
95.1	75°	125.4	144.1	131.2	116.7	174.4	152.8	211.9	1658.9	7819.1	12672.0
57.7	77.5°	79.3	103.8	98.0	82.2	128.3	111.0	152.8	987.3	6033.3	9901.8
34.6	80°	49.0	53.3	54.8	51.9	73.5	74.9	103.8	562.1	4129.3	6901.0
21.6	82.5°	31.7	31.7	24.5	27.4	36.0	43.2	59.1	211.9	2427.2	4201.4
13.0	85°	23.1	20.2	13.0	13.0	17.3	21.6	23.1	64.9	984.4	1658.9
5.8	87.5°	11.5	10.1	4.3	5.8	8.6	7.2	5.8	2.9	247.9	530.4
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°
2897.0	0°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
3325.1	2.5°	3353.9	3398.6	3401.5	3401.5	3362.6	3361.1	3281.9	3273.2
3815.1	5°	3949.2	3978.0	3985.2	3970.8	3893.0	3835.3	3681.1	3647.9
4315.3	7.5°	4494.0	4551.6	4551.6	4517.1	4390.2	4272.0	4048.6	3965.0
4728.9	10°	4929.3	4995.6	4981.2	4910.5	4750.5	4587.7	4316.7	4207.2
4979.7	12.5°	5141.1	5208.9	5171.4	5090.7	4935.0	4763.5	4478.1	4354.2
5051.8	15°	5136.8	5118.1	5079.2	5069.1	4994.1	4864.4	4597.8	4462.3
5007.1	17.5°	4953.8	4795.2	4765.0	4865.9	4961.0	4929.3	4701.5	4574.7
4900.4	20°	4664.1	4387.3	4360.0	4553.1	4824.1	4962.4	4798.1	4681.4
4746.2	22.5°	4358.5	4060.2	3996.7	4210.1	4617.9	4972.5	4920.6	4803.9
4576.2	25°	4068.8	3769.0	3705.6	3904.5	4388.8	4955.2	5053.2	4953.8
4413.3	27.5°	3826.7	3537.0	3477.9	3676.8	4168.3	4906.2	5185.8	5115.2
4251.9	30°	3639.3	3371.2	3328.0	3519.7	3978.0	4845.7	5354.5	5315.5
4102.0	32.5°	3529.8	3333.7	3349.6	3506.7	3875.7	4779.4	5515.9	5534.6
4028.5	35°	3637.9	3646.5	3784.9	3849.7	3970.8	4769.3	5735.0	5808.5
4116.4	37.5°	4175.5	4475.3	4762.1	4708.8	4436.3	4886.0	6062.1	6199.1
4499.8	40°	5090.7	5706.1	6171.7	5968.5	5282.4	5243.5	6533.4	6738.1
5180.1	42.5°	6209.2	7252.7	8019.4	7474.6	6373.5	5869.0	7206.5	7467.4
6003.0	45°	7389.6	9159.5	10367.3	9234.5	7536.6	6745.3	8225.5	8430.2
6774.1	47.5°	8633.4	11477.1	13039.5	11186.0	8614.7	7742.7	9615.0	9662.5
7504.9	50°	9994.0	14018.2	15763.6	13136.1	9655.3	8885.7	11312.8	11258.1
8356.7	52.5°	11289.8	16631.2	18430.0	15094.8	10569.1	10303.9	13283.1	13170.7
9521.3	55°	12526.4	19242.9	21112.3	16977.2	11431.0	12177.6	15623.8	14943.5
11200.4	57.5°	13960.5	21590.8	23876.7	18868.2	12635.9	14610.5	18241.2	15972.6
14416.0	60°	16080.7	24258.6	27002.9	21459.6	14927.6	17167.4	19179.5	15776.5
18267.1	62.5°	18787.4	26711.7	29275.8	23999.2	17229.4	17648.8	17797.3	14266.1
17481.6	65°	19313.5	27333.0	29404.1	24678.1	16932.5	14970.9	14529.8	11467.0
15615.1	67.5°	17918.3	26210.2	27611.1	23414.0	14978.1	11569.4	10903.5	8319.2
14390.0	70°	16353.1	24069.8	24486.4	21265.0	13173.5	8509.5	7363.6	5338.6
13551.2	72.5°	14748.9	21214.6	20352.7	18467.5	11578.0	6196.2	5311.2	3795.0
12356.3	75°	12843.5	17460.0	16031.7	15344.2	9586.1	4863.0	3842.5	2618.9
10628.2	77.5°	10285.2	12290.0	11908.1	11893.7	7203.7	3552.8	2564.1	1641.6
8303.4	80°	7255.5	7976.2	7781.6	8957.7	4832.7	2577.1	1543.6	913.8
5779.6	82.5°	3512.5	4410.4	4527.1	5334.3	2350.8	1516.3	356.0	198.9
2260.0	85°	1375.0	2127.4	1794.4	2025.0	660.1	422.3	8.6	0.0
371.9	87.5°	154.2	246.5	226.3	178.7	80.7	17.3	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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