

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: P951603

Luminaire Tested: **GALN-SB5C-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951603
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-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 20085 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

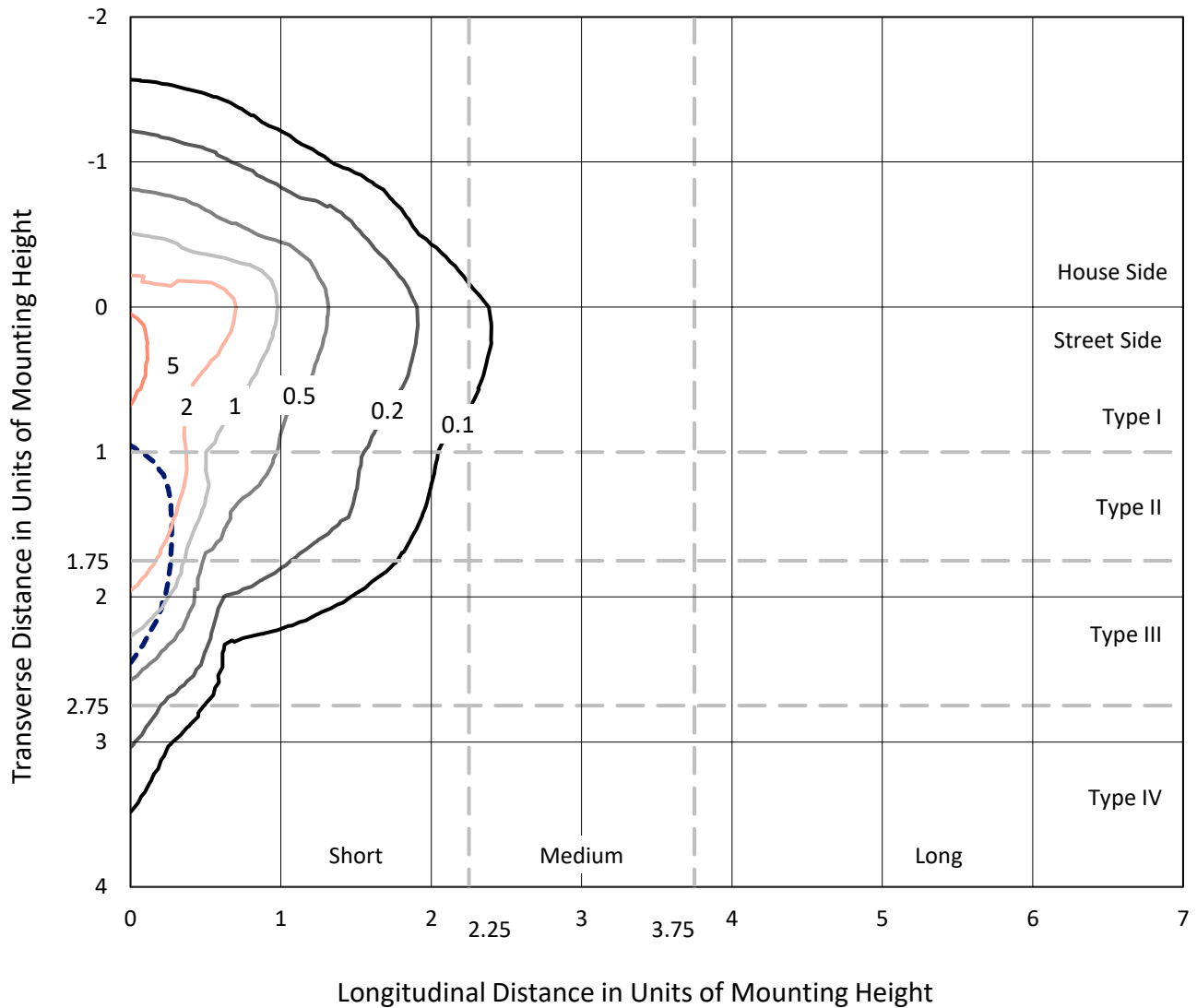
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

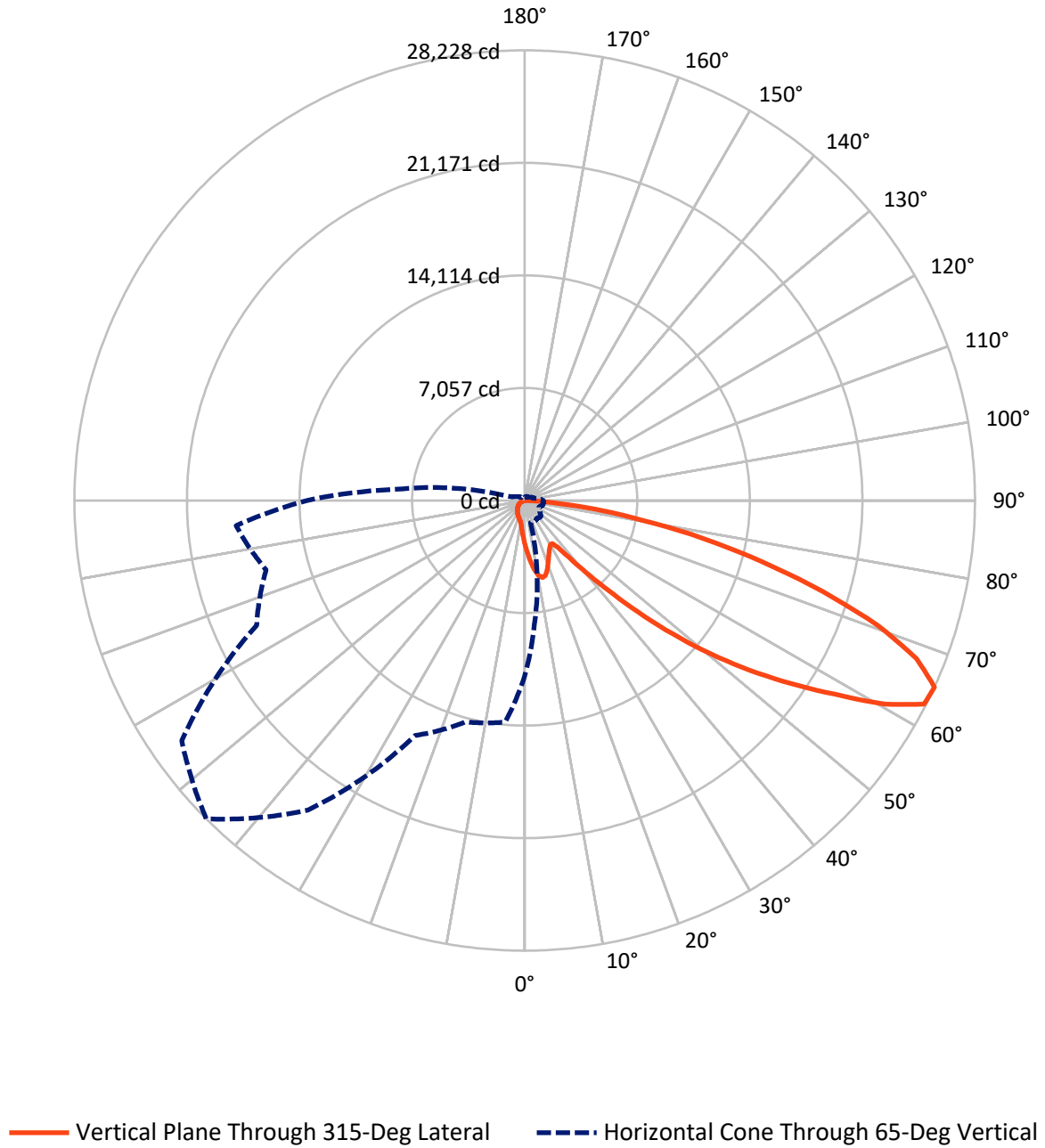
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2812.8	0.0	2812.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17272.2	0.0	17272.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	20085.0	0.0	20085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	1.4
10°-20°	820.8	4.1
20°-30°	1209.2	6.0
30°-40°	1553.5	7.7
40°-50°	2512.5	12.5
50°-60°	4405.9	21.9
60°-70°	5513.0	27.4
70°-80°	3221.5	16.0
80°-90°	574.8	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°	20085.0	100.0
0°-180°	20085.0	100.0

Coefficient of Utilization



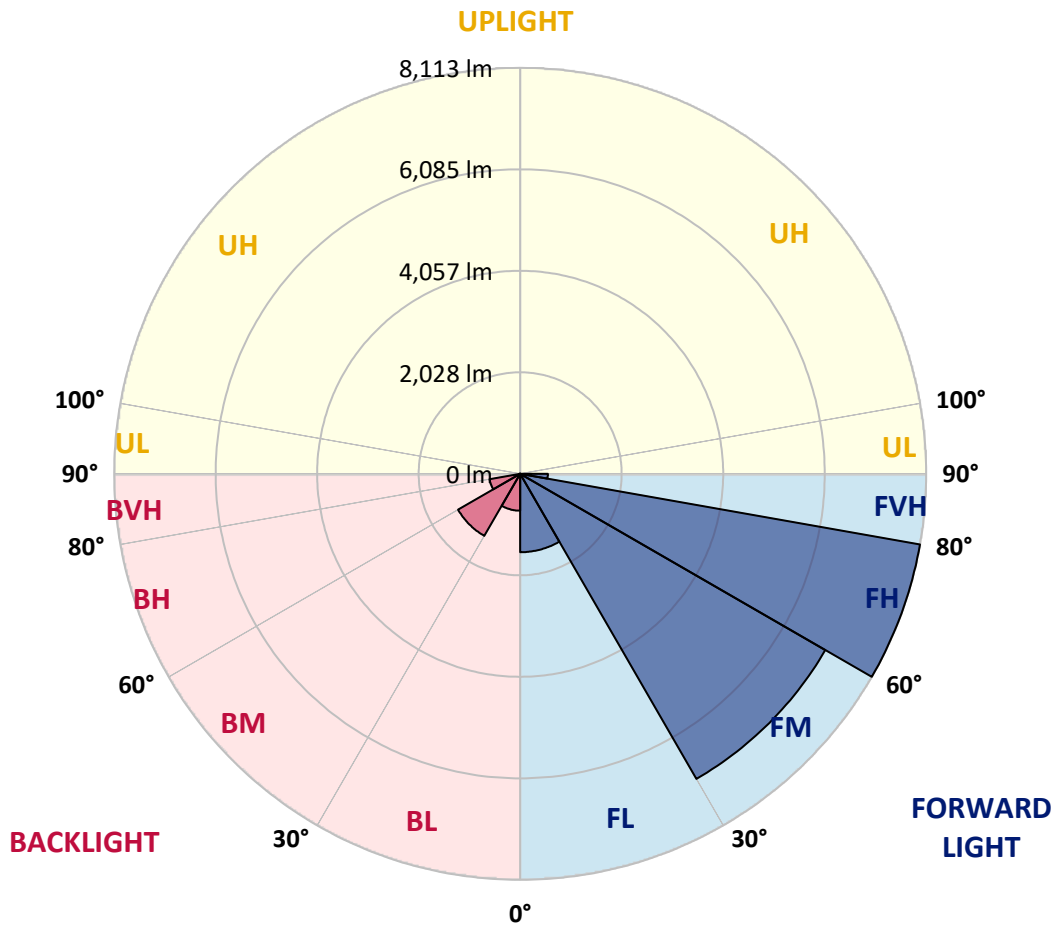
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.6	7.8			
FM (30°-60°)	7039.6	35.0			
FH (60°-80°)	8113.4	40.4			G4/12000
FVH (80°-90°)	552.7	2.8			G4/750
BL (0°-30°)	737.3	3.7	B2/1000		
BM (30°-60°)	1432.3	7.1	B2/2500		
BH (60°-80°)	621.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.1	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°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
2.5°	3142.3	3088.3	3056.5	2977.6	2898.7	2835.1	2749.3	2692.6	2624.8	2559.7
5°	3502.0	3414.8	3309.7	3165.8	3034.3	2900.1	2770.1	2641.4	2505.8	2381.3
7.5°	3806.4	3680.5	3495.1	3304.1	3136.7	2974.8	2822.6	2652.5	2487.8	2292.7
10°	4038.9	3878.4	3634.8	3384.4	3192.1	3028.8	2880.8	2736.9	2570.8	2335.6
12.5°	4180.0	4008.4	3719.2	3425.9	3205.9	3023.3	2908.4	2844.8	2779.7	2545.9
15°	4283.8	4098.4	3778.7	3455.0	3174.1	2949.9	2865.5	2929.2	3003.9	2854.5
17.5°	4391.7	4196.6	3856.2	3467.4	3088.3	2807.4	2771.4	2936.1	3109.1	3102.1
20°	4494.1	4300.4	3924.0	3459.1	2949.9	2634.5	2666.3	2876.6	3077.2	3161.6
22.5°	4611.7	4406.9	3989.1	3427.3	2770.1	2472.6	2572.2	2782.5	2958.2	3057.9
25°	4755.6	4541.1	4080.4	3380.2	2576.4	2338.4	2476.7	2673.2	2815.7	2884.9
27.5°	4910.6	4701.6	4202.1	3355.3	2420.0	2242.9	2368.8	2543.1	2670.4	2718.9
30°	5102.9	4888.4	4346.0	3327.7	2317.6	2187.5	2256.7	2392.3	2516.9	2565.3
32.5°	5313.2	5096.0	4484.4	3261.3	2255.3	2146.0	2147.4	2233.2	2346.7	2404.8
35°	5576.1	5345.0	4632.4	3116.0	2205.5	2097.6	2040.9	2082.4	2176.5	2245.7
37.5°	5951.1	5671.6	4813.7	2908.4	2132.2	2022.9	1928.8	1938.5	2010.4	2086.5
40°	6468.5	6110.2	5026.8	2692.6	2027.0	1917.7	1805.7	1801.5	1854.1	1928.8
42.5°	7168.7	6689.9	5282.8	2486.4	1926.0	1790.4	1675.6	1668.7	1710.2	1775.2
45°	8092.9	7431.6	5596.9	2309.3	1847.2	1665.9	1552.5	1549.7	1584.3	1641.0
47.5°	9276.0	8462.4	5910.9	2188.9	1805.7	1567.7	1451.4	1457.0	1487.4	1538.6
50°	10807.7	9805.9	6006.4	2128.0	1805.7	1515.1	1361.5	1389.2	1414.1	1452.8
52.5°	12643.8	11095.5	5690.9	2072.7	1816.7	1522.0	1285.4	1344.9	1362.9	1396.1
55°	14345.6	11727.8	4892.6	1996.6	1819.5	1564.9	1220.4	1308.9	1342.1	1354.6
57.5°	15333.6	11510.6	3955.8	1867.9	1808.4	1594.0	1178.9	1264.7	1328.3	1336.6
60°	15145.4	10748.2	2912.6	1769.7	1726.8	1582.9	1166.4	1196.9	1297.9	1310.3
62.5°	13695.3	9469.7	2021.5	1693.6	1546.9	1534.5	1162.3	1090.3	1231.4	1261.9
65°	11008.3	7455.1	1427.9	1458.4	1356.0	1429.3	1140.1	979.6	1151.2	1192.7
67.5°	7986.4	5044.8	1030.8	1181.6	1228.7	1259.1	1090.3	899.4	1059.9	1115.2
70°	5125.0	2724.4	723.6	780.4	1035.0	1069.6	1004.5	827.4	967.2	1030.8
72.5°	3643.1	1609.2	520.3	546.5	831.6	891.1	884.2	747.2	859.2	936.7
75°	2514.1	886.9	351.4	390.2	603.3	723.6	682.1	642.0	727.8	806.7
77.5°	1576.0	397.1	210.3	271.2	395.7	568.7	467.7	496.7	567.3	640.6
80°	877.2	153.6	117.6	179.9	215.8	413.7	258.7	319.6	417.9	470.4
82.5°	190.9	19.4	52.6	77.5	84.4	240.8	137.0	185.4	262.9	258.7
85°	0.0	0.0	9.7	11.1	5.5	103.8	49.8	60.9	85.8	80.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°
2781.1	0°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
2501.6	2.5°	2490.6	2422.8	2373.0	2348.0	2327.3	2346.7	2357.7	2357.7	2404.8	2432.5
2305.2	5°	2256.7	2135.0	2042.3	1980.0	1942.6	1955.1	1968.9	1984.1	2043.6	2083.8
2188.9	7.5°	2094.8	1908.0	1766.9	1679.7	1634.1	1641.0	1650.7	1663.1	1721.3	1761.4
2205.5	10°	2064.4	1796.0	1596.7	1481.9	1426.5	1416.9	1411.3	1407.2	1441.8	1472.2
2393.7	12.5°	2188.9	1801.5	1523.4	1383.6	1315.8	1286.8	1253.6	1227.3	1232.8	1252.2
2678.7	15°	2411.7	1872.1	1499.9	1332.5	1248.0	1199.6	1160.9	1129.1	1122.1	1129.1
2927.8	17.5°	2666.3	1967.5	1497.1	1288.2	1183.0	1133.2	1101.4	1072.3	1062.6	1064.0
3067.5	20°	2835.1	2043.6	1488.8	1238.4	1120.8	1076.5	1048.8	1019.7	1010.1	1012.8
3028.8	22.5°	2851.7	2083.8	1476.4	1183.0	1058.5	1021.1	993.5	967.2	965.8	965.8
2883.5	25°	2761.8	2083.8	1450.1	1133.2	999.0	965.8	940.9	909.1	914.6	917.4
2718.9	27.5°	2622.0	2034.0	1400.3	1093.1	947.8	913.2	888.3	859.2	866.2	870.3
2565.3	30°	2483.6	1970.3	1340.8	1047.4	899.4	859.2	841.3	816.4	819.1	824.7
2413.1	32.5°	2355.0	1902.5	1270.2	1010.1	850.9	810.8	797.0	769.3	773.5	779.0
2263.6	35°	2227.7	1827.8	1187.2	965.8	806.7	766.5	755.5	723.6	726.4	734.7
2114.2	37.5°	2090.7	1748.9	1119.4	921.5	763.8	722.3	711.2	678.0	680.8	690.4
1959.2	40°	1946.8	1671.4	1053.0	874.5	718.1	676.6	666.9	630.9	633.7	644.8
1807.0	42.5°	1801.5	1587.0	1001.8	813.6	671.1	626.8	617.1	583.9	588.0	600.5
1674.2	45°	1667.3	1486.0	968.6	745.8	626.8	577.0	567.3	536.9	545.2	559.0
1562.1	47.5°	1552.5	1382.3	954.7	689.1	579.7	525.8	517.5	492.6	506.4	521.6
1466.7	50°	1454.2	1282.6	936.7	630.9	535.5	481.5	473.2	456.6	474.6	489.8
1401.6	52.5°	1383.6	1169.2	898.0	578.4	496.7	444.2	441.4	433.1	449.7	463.5
1353.2	55°	1322.8	1051.6	835.7	532.7	462.1	412.3	415.1	410.9	424.8	435.8
1324.1	57.5°	1267.4	949.2	756.9	496.7	424.8	384.7	393.0	387.4	394.3	401.3
1293.7	60°	1201.0	845.4	662.8	456.6	380.5	357.0	366.7	351.4	350.1	352.8
1238.4	62.5°	1102.8	705.7	564.5	406.8	341.8	326.5	330.7	301.6	279.5	279.5
1156.7	65°	965.8	567.3	473.2	351.4	297.5	285.0	282.3	240.8	210.3	207.5
1068.2	67.5°	806.7	466.3	393.0	296.1	247.7	239.4	242.1	211.7	181.3	178.5
979.6	70°	657.2	386.0	316.9	236.6	190.9	199.2	211.7	181.3	152.2	148.1
875.8	72.5°	534.1	307.2	247.7	181.3	141.1	164.7	179.9	148.1	120.4	117.6
747.2	75°	412.3	225.5	177.1	123.1	102.4	127.3	141.1	107.9	85.8	81.6
578.4	77.5°	275.3	139.7	99.6	77.5	60.9	87.2	94.1	56.7	49.8	48.4
420.6	80°	167.4	65.0	42.9	37.4	20.8	31.8	37.4	23.5	26.3	27.7
224.2	82.5°	84.4	18.0	6.9	1.4	0.0	0.0	11.1	5.5	11.1	13.8
60.9	85°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.9
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°
2781.1	0°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
2443.5	2.5°	2521.0	2579.1	2634.5	2723.0	2814.3	2904.3	2995.6	3084.1	3116.0	3139.5
2110.1	5°	2230.4	2339.7	2467.0	2642.8	2830.9	3024.7	3221.1	3401.0	3482.6	3538.0
1796.0	7.5°	1930.2	2072.7	2255.3	2519.6	2814.3	3122.9	3431.4	3715.1	3846.5	3953.1
1499.9	10°	1632.7	1787.7	2018.7	2320.4	2718.9	3161.6	3587.8	3978.0	4148.2	4282.4
1286.8	12.5°	1371.2	1516.5	1758.6	2092.1	2569.4	3131.2	3677.7	4146.8	4347.4	4498.2
1134.6	15°	1187.2	1289.6	1504.0	1863.8	2392.3	3033.0	3683.3	4227.0	4447.0	4604.8
1070.9	17.5°	1084.8	1119.4	1259.1	1631.3	2195.8	2904.3	3632.1	4254.7	4489.9	4636.6
1014.2	20°	1029.4	1035.0	1073.7	1329.7	1944.0	2783.9	3583.6	4282.4	4530.1	4653.2
974.1	22.5°	985.2	985.2	994.8	1087.5	1618.9	2640.0	3568.4	4330.8	4585.4	4661.5
928.4	25°	945.0	945.0	947.8	972.7	1282.6	2420.0	3558.7	4405.5	4661.5	4682.3
882.8	27.5°	903.5	904.9	904.9	918.7	1033.6	2121.1	3517.2	4502.4	4752.8	4709.9
838.5	30°	862.0	864.8	864.8	874.5	914.6	1771.1	3435.6	4618.6	4871.8	4745.9
794.2	32.5°	820.5	823.3	823.3	831.6	860.6	1414.1	3333.2	4725.2	4992.2	4761.1
751.3	35°	777.6	781.8	779.0	790.1	820.5	1124.9	3203.1	4831.7	5122.3	4809.6
709.8	37.5°	734.7	737.5	736.1	747.2	781.8	971.3	3052.3	4911.9	5299.4	4917.5
665.5	40°	691.8	690.4	690.4	702.9	740.3	927.0	2862.8	5039.2	5554.0	5107.0
621.3	42.5°	647.5	647.5	644.8	658.6	704.3	893.8	2681.5	5267.5	5924.8	5408.7
579.7	45°	607.4	606.0	600.5	613.0	669.7	835.7	2617.9	5693.7	6472.7	5897.1
538.2	47.5°	568.7	567.3	553.5	564.5	628.2	783.1	2855.8	6391.1	7232.3	6615.2
505.0	50°	534.1	535.5	509.2	518.9	586.7	743.0	3371.9	7296.0	8241.0	7582.4
477.4	52.5°	502.3	502.3	467.7	473.2	535.5	707.0	3863.1	8277.0	9572.1	8931.4
448.3	55°	470.4	467.7	428.9	431.7	484.3	655.8	3936.5	9234.5	11387.4	10961.2
416.5	57.5°	434.5	428.9	393.0	393.0	437.2	618.5	3412.1	9970.6	13640.0	13944.4
357.0	60°	390.2	386.0	362.5	355.6	399.9	651.7	2407.5	10056.3	15092.8	17911.3
283.6	62.5°	333.5	339.0	326.5	316.9	363.9	676.6	1426.5	9365.9	14741.4	19173.2
220.0	65°	262.9	285.0	282.3	275.3	399.9	570.1	842.6	8040.4	13663.5	18154.8
192.3	67.5°	224.2	239.4	235.2	235.2	419.2	433.1	529.9	6281.8	12180.2	16946.9
160.5	70°	190.9	206.2	190.9	190.9	316.9	262.9	366.7	4386.2	10579.4	15610.3
128.7	72.5°	157.7	173.0	156.4	145.3	253.2	196.5	268.4	2741.0	9060.1	14218.4
91.3	75°	120.4	138.4	125.9	112.1	167.4	146.7	203.4	1592.6	7506.3	12165.0
55.3	77.5°	76.1	99.6	94.1	78.9	123.1	106.5	146.7	947.8	5791.9	9505.7
33.2	80°	47.0	51.2	52.6	49.8	70.6	71.9	99.6	539.6	3964.1	6624.9
20.8	82.5°	30.4	30.4	23.5	26.3	34.6	41.5	56.7	203.4	2330.1	4033.3
12.5	85°	22.1	19.4	12.5	12.5	16.6	20.8	22.1	62.3	945.0	1592.6
5.5	87.5°	11.1	9.7	4.2	5.5	8.3	6.9	5.5	2.8	238.0	509.2
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°
2781.1	0°	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1	2781.1
3192.1	2.5°	3219.7	3262.6	3265.4	3265.4	3228.0	3226.7	3150.6	3142.3
3662.5	5°	3791.2	3818.9	3825.8	3811.9	3737.2	3681.9	3533.8	3502.0
4142.6	7.5°	4314.2	4369.6	4369.6	4336.3	4214.6	4101.1	3886.7	3806.4
4539.7	10°	4732.1	4795.7	4781.9	4714.1	4560.5	4404.1	4144.0	4038.9
4780.5	12.5°	4935.5	5000.5	4964.5	4887.0	4737.6	4573.0	4299.0	4180.0
4849.7	15°	4931.3	4913.3	4876.0	4866.3	4794.3	4669.8	4413.8	4283.8
4806.8	17.5°	4755.6	4603.4	4574.3	4671.2	4762.5	4732.1	4513.5	4391.7
4704.4	20°	4477.5	4211.8	4185.5	4370.9	4631.1	4763.9	4606.2	4494.1
4556.3	22.5°	4184.1	3897.7	3836.9	4041.6	4433.2	4773.6	4723.8	4611.7
4393.1	25°	3906.0	3618.2	3557.4	3748.3	4213.2	4757.0	4851.1	4755.6
4236.7	27.5°	3673.6	3395.5	3338.7	3529.7	4001.5	4709.9	4978.4	4910.6
4081.8	30°	3493.7	3236.3	3194.8	3378.9	3818.9	4651.8	5140.2	5102.9
3937.9	32.5°	3388.6	3200.4	3215.6	3366.4	3720.6	4588.2	5295.2	5313.2
3867.3	35°	3492.3	3500.6	3633.5	3695.7	3811.9	4578.5	5505.5	5576.1
3951.7	37.5°	4008.4	4296.2	4571.6	4520.4	4258.9	4690.6	5819.6	5951.1
4319.7	40°	4887.0	5477.9	5924.8	5729.7	5071.1	5033.7	6272.1	6468.5
4972.8	42.5°	5960.7	6962.5	7698.6	7175.6	6118.5	5634.2	6918.2	7168.7
5762.9	45°	7094.0	8793.1	9952.6	8865.0	7235.1	6475.5	7896.5	8092.9
6503.1	47.5°	8288.0	11018.0	12517.9	10738.5	8270.1	7432.9	9230.3	9276.0
7204.6	50°	9594.2	13457.3	15132.9	12610.6	9269.0	8530.2	10860.2	10807.7
8022.4	52.5°	10838.1	15965.9	17692.7	14490.9	10146.3	9891.7	12751.7	12643.8
9140.4	55°	12025.3	18473.1	20267.7	16298.0	10973.7	11690.4	14998.7	14345.6
10752.3	57.5°	13402.0	20727.0	22921.5	18113.3	12130.4	14026.0	17511.4	15333.6
13839.2	60°	15437.3	23288.2	25922.6	20601.1	14330.4	16480.6	18412.2	15145.4
17536.3	62.5°	18035.8	25643.1	28104.6	23039.1	16540.1	16942.8	17085.3	13695.3
16782.3	65°	18540.9	26239.5	28227.8	23690.8	16255.1	14371.9	13948.5	11008.3
14990.4	67.5°	17201.5	25161.6	26506.5	22477.3	14378.9	11106.5	10467.3	7986.4
13814.3	70°	15698.9	23106.9	23506.8	20414.3	12646.5	8169.1	7069.1	5125.0
13009.0	72.5°	14158.9	20365.9	19538.5	17728.7	11114.8	5948.3	5098.7	3643.1
11862.0	75°	12329.7	16761.5	15390.3	14730.3	9202.6	4668.4	3688.8	2514.1
10203.0	77.5°	9873.7	11798.4	11431.7	11417.9	6915.5	3410.7	2461.5	1576.0
7971.2	80°	6965.3	7657.1	7470.3	8599.4	4639.4	2474.0	1481.9	877.2
5548.4	82.5°	3371.9	4234.0	4346.0	5120.9	2256.7	1455.6	341.8	190.9
2169.6	85°	1320.0	2042.3	1722.6	1944.0	633.7	405.4	8.3	0.0
357.0	87.5°	148.1	236.6	217.2	171.6	77.5	16.6	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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