

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: P956937

Luminaire Tested: **GALN-SB9B-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956937
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-SB9B-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 28365 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

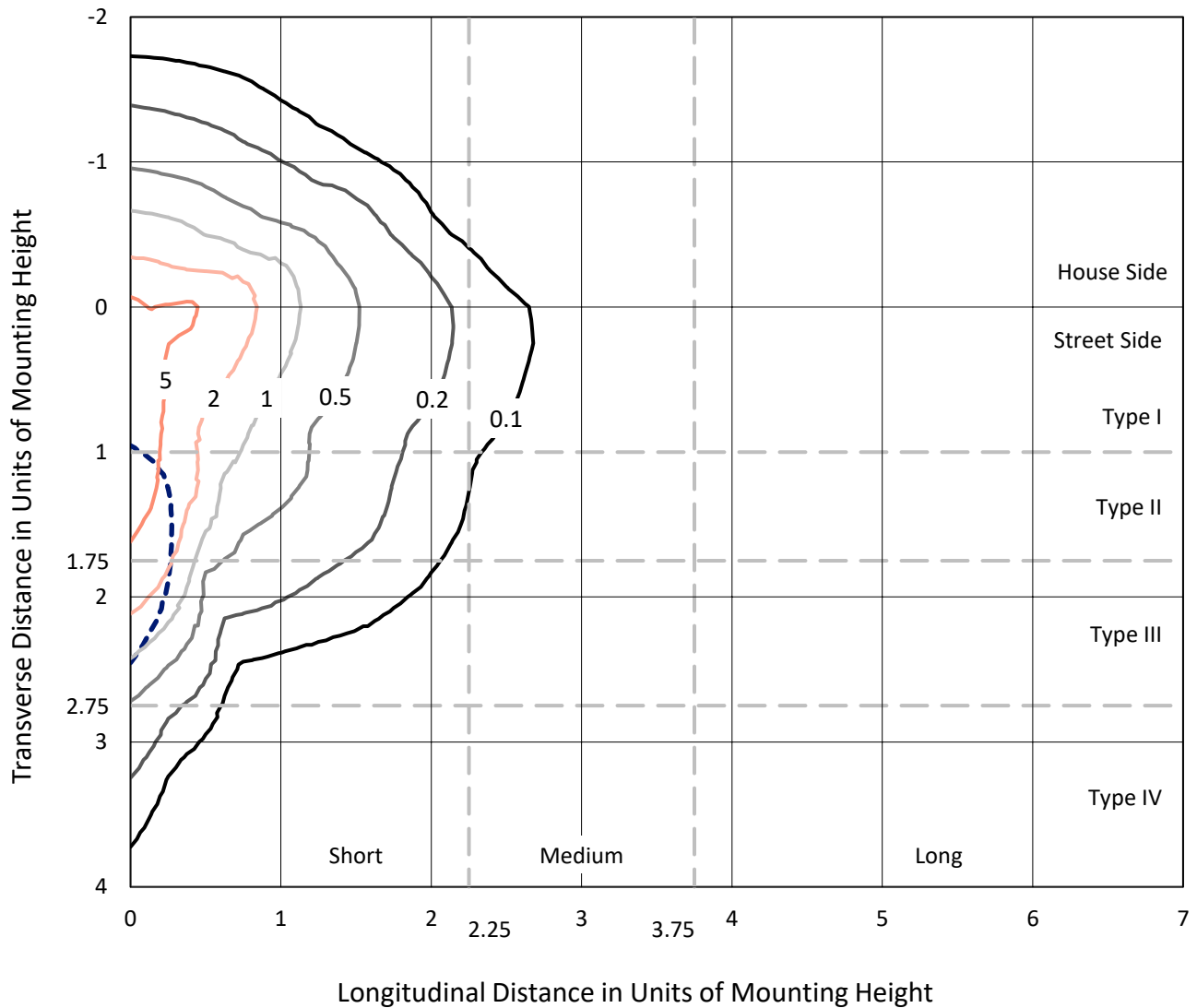
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

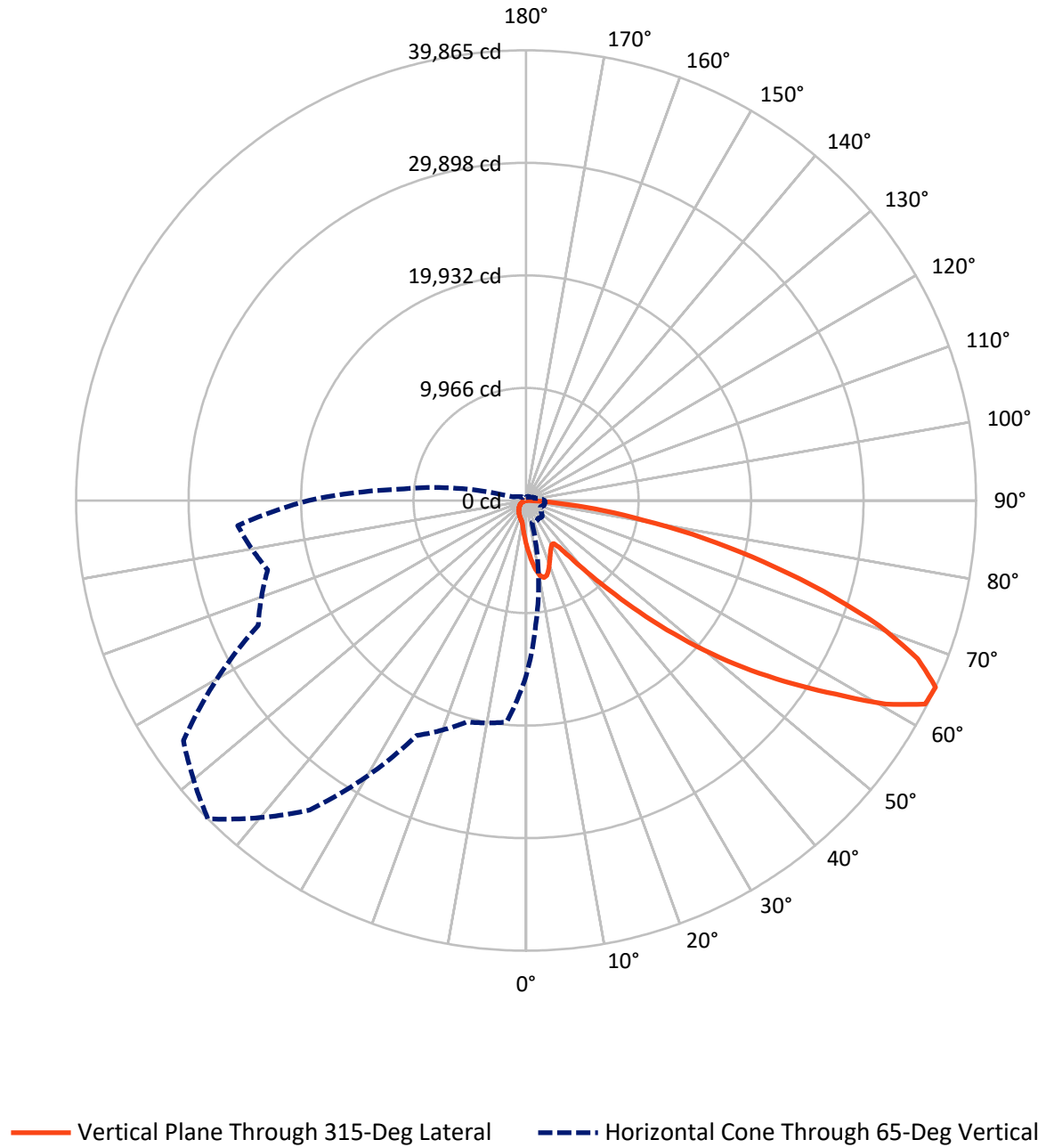
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3972.3	0.0	3972.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24392.7	0.0	24392.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	28365.0	0.0	28365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	1.4
10°-20°	1159.2	4.1
20°-30°	1707.7	6.0
30°-40°	2193.9	7.7
40°-50°	3548.3	12.5
50°-60°	6222.2	21.9
60°-70°	7785.7	27.4
70°-80°	4549.6	16.0
80°-90°	811.7	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°	28365.0	100.0
0°-180°	28365.0	100.0

Coefficient of Utilization



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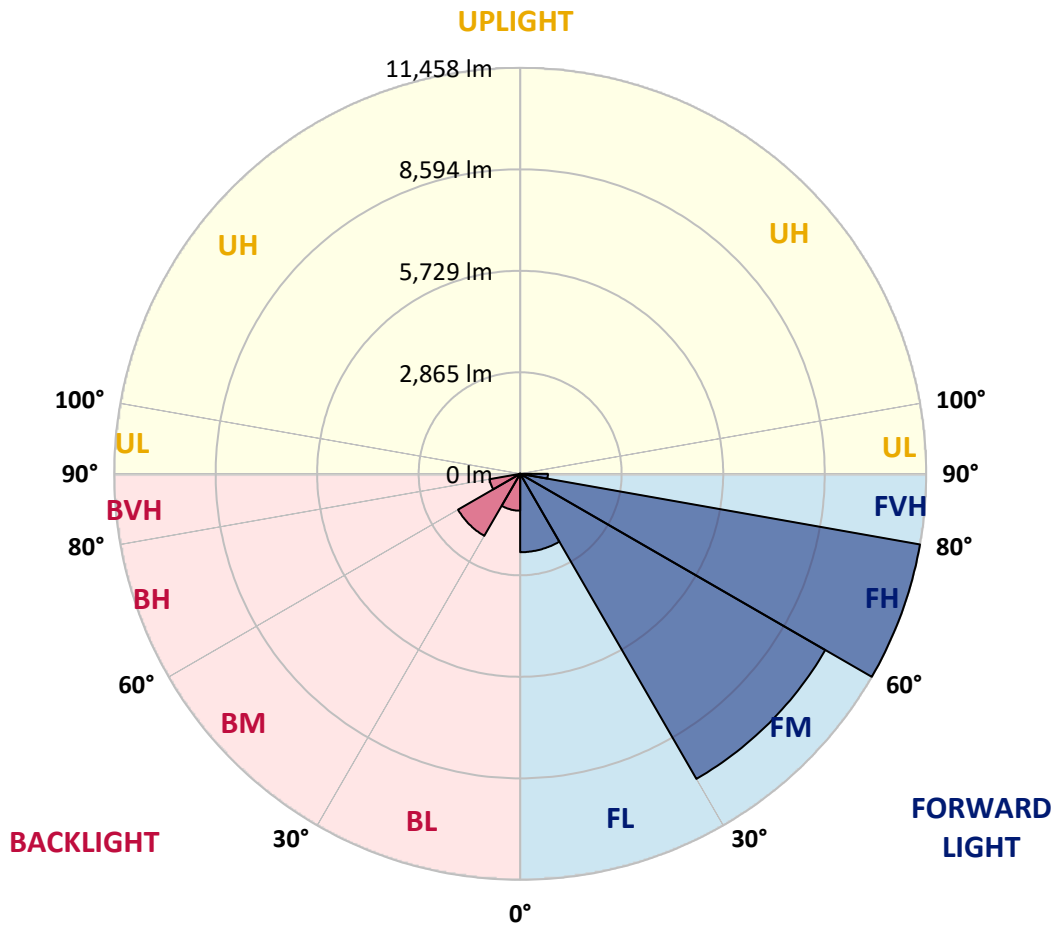
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2212.4	7.8			
FM (30°-60°)	9941.6	35.0			
FH (60°-80°)	11458.2	40.4			G4/12000
FVH (80°-90°)	780.5	2.8			G5
BL (0°-30°)	1041.2	3.7	B3/2500		
BM (30°-60°)	2022.8	7.1	B2/2500		
BH (60°-80°)	877.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	31.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6
2.5°	4437.7	4361.4	4316.5	4205.1	4093.7	4003.9	3882.7	3802.6	3706.8	3615.0
5°	4945.7	4822.6	4674.1	4470.9	4285.2	4095.7	3912.0	3730.3	3538.8	3362.9
7.5°	5375.6	5197.8	4935.9	4666.3	4429.8	4201.2	3986.3	3745.9	3513.4	3237.9
10°	5703.9	5477.2	5133.3	4779.6	4508.0	4277.4	4068.3	3865.1	3630.6	3298.4
12.5°	5903.2	5660.9	5252.5	4838.2	4527.5	4269.6	4107.4	4017.5	3925.7	3595.5
15°	6049.7	5787.9	5336.5	4879.3	4482.6	4166.0	4046.8	4136.7	4242.2	4031.2
17.5°	6202.2	5926.6	5445.9	4896.9	4361.4	3964.8	3914.0	4146.5	4390.8	4381.0
20°	6346.8	6073.2	5541.7	4885.1	4166.0	3720.5	3765.5	4062.5	4345.8	4465.0
22.5°	6512.9	6223.7	5633.5	4840.2	3912.0	3491.9	3632.6	3929.6	4177.8	4318.5
25°	6716.1	6413.2	5762.5	4773.7	3638.4	3302.3	3497.8	3775.2	3976.5	4074.2
27.5°	6934.9	6639.9	5934.5	4738.6	3417.6	3167.5	3345.3	3591.5	3771.3	3839.7
30°	7206.5	6903.7	6137.7	4699.5	3273.0	3089.4	3187.1	3378.6	3554.4	3622.8
32.5°	7503.6	7196.8	6333.1	4605.7	3185.1	3030.7	3032.7	3153.8	3314.1	3396.1
35°	7874.8	7548.5	6542.2	4400.5	3114.8	2962.3	2882.2	2940.8	3073.7	3171.4
37.5°	8404.4	8009.7	6798.1	4107.4	3011.2	2856.8	2723.9	2737.6	2839.2	2946.7
40°	9135.2	8629.1	7099.1	3802.6	2862.7	2708.3	2550.0	2544.2	2618.4	2723.9
42.5°	10123.9	9447.8	7460.6	3511.4	2720.0	2528.5	2366.4	2356.6	2415.2	2507.0
45°	11429.3	10495.2	7904.1	3261.3	2608.7	2352.7	2192.4	2188.5	2237.4	2317.5
47.5°	13100.0	11951.0	8347.7	3091.3	2550.0	2213.9	2049.8	2057.6	2100.6	2172.9
50°	15263.1	13848.4	8482.5	3005.3	2550.0	2139.7	1922.8	1961.9	1997.0	2051.8
52.5°	17856.1	15669.5	8037.0	2927.2	2565.7	2149.5	1815.3	1899.3	1924.7	1971.6
55°	20259.6	16562.5	6909.5	2819.7	2569.6	2210.0	1723.5	1848.5	1895.4	1913.0
57.5°	21654.8	16255.8	5586.6	2638.0	2553.9	2251.1	1664.9	1786.0	1875.9	1887.6
60°	21389.1	15179.1	4113.3	2499.2	2438.7	2235.4	1647.3	1690.3	1832.9	1850.5
62.5°	19341.2	13373.5	2854.9	2391.8	2184.6	2167.0	1641.4	1539.8	1739.1	1782.1
65°	15546.4	10528.4	2016.6	2059.6	1915.0	2018.5	1610.1	1383.5	1625.8	1684.4
67.5°	11278.8	7124.5	1455.8	1668.8	1735.2	1778.2	1539.8	1270.1	1496.8	1575.0
70°	7237.8	3847.5	1022.0	1102.1	1461.6	1510.5	1418.6	1168.5	1365.9	1455.8
72.5°	5145.0	2272.6	734.7	771.9	1174.4	1258.4	1248.6	1055.2	1213.5	1322.9
75°	3550.5	1252.5	496.3	551.0	852.0	1022.0	963.3	906.7	1027.8	1139.2
77.5°	2225.7	560.8	297.0	383.0	558.9	803.1	660.5	701.5	801.2	904.7
80°	1238.9	216.9	166.1	254.0	304.8	584.3	365.4	451.4	590.1	664.4
82.5°	269.7	27.4	74.3	109.4	119.2	340.0	193.5	261.8	371.3	365.4
85°	0.0	0.0	13.7	15.6	7.8	146.6	70.3	86.0	121.2	113.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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°
3927.6	0°	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6
3532.9	2.5°	3517.3	3421.5	3351.2	3316.0	3286.7	3314.1	3329.7	3329.7	3396.1	3435.2
3255.5	5°	3187.1	3015.1	2884.2	2796.2	2743.5	2761.1	2780.6	2802.1	2886.1	2942.8
3091.3	7.5°	2958.4	2694.6	2495.3	2372.2	2307.7	2317.5	2331.2	2348.8	2430.8	2487.5
3114.8	10°	2915.4	2536.4	2255.0	2092.8	2014.6	2000.9	1993.1	1987.3	2036.1	2079.1
3380.5	12.5°	3091.3	2544.2	2151.4	1954.1	1858.3	1817.3	1770.4	1733.2	1741.1	1768.4
3783.0	15°	3405.9	2643.8	2118.2	1881.8	1762.6	1694.2	1639.4	1594.5	1584.7	1594.5
4134.8	17.5°	3765.5	2778.7	2114.3	1819.2	1670.7	1600.4	1555.4	1514.4	1500.7	1502.7
4332.1	20°	4003.9	2886.1	2102.6	1748.9	1582.8	1520.3	1481.2	1440.1	1426.5	1430.4
4277.4	22.5°	4027.3	2942.8	2085.0	1670.7	1494.8	1442.1	1403.0	1365.9	1363.9	1363.9
4072.2	25°	3900.3	2942.8	2047.8	1600.4	1410.8	1363.9	1328.8	1283.8	1291.6	1295.5
3839.7	27.5°	3702.9	2872.5	1977.5	1543.7	1338.5	1289.7	1254.5	1213.5	1223.2	1229.1
3622.8	30°	3507.5	2782.6	1893.5	1479.2	1270.1	1213.5	1188.1	1152.9	1156.8	1164.6
3407.9	32.5°	3325.8	2686.8	1793.8	1426.5	1201.7	1145.1	1125.5	1086.5	1092.3	1100.1
3196.8	35°	3146.0	2581.3	1676.6	1363.9	1139.2	1082.5	1066.9	1022.0	1025.9	1037.6
2985.8	37.5°	2952.6	2469.9	1580.8	1301.4	1078.6	1020.0	1004.4	957.5	961.4	975.1
2766.9	40°	2749.4	2360.5	1487.0	1235.0	1014.2	955.5	941.9	891.0	895.0	910.6
2552.0	42.5°	2544.2	2241.3	1414.7	1149.0	947.7	885.2	871.5	824.6	830.5	848.1
2364.4	45°	2354.6	2098.7	1367.8	1053.2	885.2	814.8	801.2	758.2	769.9	789.4
2206.1	47.5°	2192.4	1952.1	1348.3	973.1	818.7	742.5	730.8	695.6	715.2	736.7
2071.3	50°	2053.7	1811.4	1322.9	891.0	756.2	680.0	668.3	644.8	670.2	691.7
1979.5	52.5°	1954.1	1651.2	1268.2	816.8	701.5	627.3	623.3	611.6	635.1	654.6
1911.1	55°	1868.1	1485.1	1180.2	752.3	652.7	582.3	586.2	580.4	599.9	615.5
1870.0	57.5°	1789.9	1340.5	1068.9	701.5	599.9	543.2	555.0	547.1	556.9	566.7
1827.0	60°	1696.1	1193.9	936.0	644.8	537.4	504.1	517.8	496.3	494.4	498.3
1748.9	62.5°	1557.4	996.6	797.3	574.5	482.7	461.2	467.0	426.0	394.7	394.7
1633.6	65°	1363.9	801.2	668.3	496.3	420.1	402.5	398.6	340.0	297.0	293.1
1508.5	67.5°	1139.2	658.5	555.0	418.2	349.8	338.1	342.0	299.0	256.0	252.1
1383.5	70°	928.2	545.2	447.5	334.1	269.7	281.4	299.0	256.0	214.9	209.1
1236.9	72.5°	754.3	433.8	349.8	256.0	199.3	232.5	254.0	209.1	170.0	166.1
1055.2	75°	582.3	318.5	250.1	173.9	144.6	179.8	199.3	152.4	121.2	115.3
816.8	77.5°	388.9	197.4	140.7	109.4	86.0	123.1	132.9	80.1	70.3	68.4
594.0	80°	236.4	91.8	60.6	52.8	29.3	44.9	52.8	33.2	37.1	39.1
316.6	82.5°	119.2	25.4	9.8	2.0	0.0	0.0	15.6	7.8	15.6	19.5
86.0	85°	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8
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°
3927.6	0°	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6
3450.9	2.5°	3560.3	3642.4	3720.5	3845.6	3974.5	4101.6	4230.5	4355.6	4400.5	4433.7
2979.9	5°	3149.9	3304.3	3484.1	3732.2	3998.0	4271.6	4549.0	4803.1	4918.3	4996.5
2536.4	7.5°	2725.9	2927.2	3185.1	3558.3	3974.5	4410.3	4846.0	5246.6	5432.3	5582.7
2118.2	10°	2305.8	2524.6	2851.0	3276.9	3839.7	4465.0	5066.9	5617.9	5858.2	6047.8
1817.3	12.5°	1936.5	2141.6	2483.6	2954.5	3628.7	4422.0	5193.9	5856.3	6139.6	6352.6
1602.3	15°	1676.6	1821.2	2124.1	2632.1	3378.6	4283.3	5201.7	5969.6	6280.3	6503.1
1512.4	17.5°	1532.0	1580.8	1778.2	2303.8	3101.1	4101.6	5129.4	6008.7	6340.9	6548.0
1432.3	20°	1453.8	1461.6	1516.3	1877.8	2745.4	3931.6	5061.0	6047.8	6397.6	6571.5
1375.7	22.5°	1391.3	1391.3	1405.0	1535.9	2286.2	3728.3	5039.5	6116.2	6475.7	6583.2
1311.2	25°	1334.6	1334.6	1338.5	1373.7	1811.4	3417.6	5025.8	6221.7	6583.2	6612.5
1246.7	27.5°	1276.0	1278.0	1278.0	1297.5	1459.7	2995.6	4967.2	6358.5	6712.2	6651.6
1184.2	30°	1217.4	1221.3	1221.3	1235.0	1291.6	2501.2	4851.9	6522.6	6880.2	6702.4
1121.6	32.5°	1158.8	1162.7	1162.7	1174.4	1215.4	1997.0	4707.3	6673.1	7050.2	6723.9
1061.1	35°	1098.2	1104.0	1100.1	1115.8	1158.8	1588.6	4523.6	6823.6	7233.9	6792.3
1002.4	37.5°	1037.6	1041.5	1039.6	1055.2	1104.0	1371.7	4310.6	6936.9	7484.0	6944.7
939.9	40°	977.0	975.1	975.1	992.7	1045.4	1309.2	4042.9	7116.7	7843.6	7212.4
877.4	42.5°	914.5	914.5	910.6	930.1	994.6	1262.3	3787.0	7439.1	8367.3	7638.4
818.7	45°	857.8	855.9	848.1	865.6	945.8	1180.2	3697.1	8040.9	9141.1	8328.2
760.1	47.5°	803.1	801.2	781.6	797.3	887.1	1106.0	4033.2	9025.8	10213.8	9342.3
713.2	50°	754.3	756.2	719.1	732.8	828.5	1049.3	4762.0	10303.7	11638.3	10708.2
674.1	52.5°	709.3	709.3	660.5	668.3	756.2	998.5	5455.7	11689.1	13518.1	12613.4
633.1	55°	664.4	660.5	605.8	609.7	683.9	926.2	5559.3	13041.3	16081.8	15480.0
588.2	57.5°	613.6	605.8	555.0	555.0	617.5	873.5	4818.7	14080.9	19263.0	19692.9
504.1	60°	551.0	545.2	512.0	502.2	564.7	920.4	3400.1	14202.1	21314.8	25295.2
400.6	62.5°	470.9	478.7	461.2	447.5	513.9	955.5	2014.6	13227.0	20818.5	27077.3
310.7	65°	371.3	402.5	398.6	388.9	564.7	805.1	1190.0	11355.0	19296.3	25639.1
271.6	67.5°	316.6	338.1	332.2	332.2	592.1	611.6	748.4	8871.4	17201.5	23933.2
226.7	70°	269.7	291.2	269.7	269.7	447.5	371.3	517.8	6194.3	14940.7	22045.6
181.7	72.5°	222.8	244.3	220.8	205.2	357.6	277.5	379.1	3871.0	12795.1	20079.8
129.0	75°	170.0	195.4	177.8	158.3	236.4	207.1	287.2	2249.1	10600.7	17180.0
78.2	77.5°	107.5	140.7	132.9	111.4	173.9	150.5	207.1	1338.5	8179.7	13424.3
46.9	80°	66.4	72.3	74.3	70.3	99.7	101.6	140.7	762.1	5598.4	9356.0
29.3	82.5°	43.0	43.0	33.2	37.1	48.9	58.6	80.1	287.2	3290.6	5696.1
17.6	85°	31.3	27.4	17.6	17.6	23.4	29.3	31.3	87.9	1334.6	2249.1
7.8	87.5°	15.6	13.7	5.9	7.8	11.7	9.8	7.8	3.9	336.1	719.1
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°
3927.6	0°	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6	3927.6
4508.0	2.5°	4547.1	4607.7	4611.6	4611.6	4558.8	4556.8	4449.4	4437.7
5172.4	5°	5354.1	5393.2	5403.0	5383.4	5277.9	5199.7	4990.6	4945.7
5850.4	7.5°	6092.7	6170.9	6170.9	6124.0	5952.0	5791.8	5488.9	5375.6
6411.2	10°	6682.9	6772.7	6753.2	6657.5	6440.6	6219.7	5852.4	5703.9
6751.3	12.5°	6970.1	7061.9	7011.1	6901.7	6690.7	6458.1	6071.2	5903.2
6849.0	15°	6964.2	6938.8	6886.1	6872.4	6770.8	6594.9	6233.4	6049.7
6788.4	17.5°	6716.1	6501.1	6460.1	6596.9	6725.8	6682.9	6374.1	6202.2
6643.8	20°	6323.3	5948.1	5911.0	6172.9	6540.2	6727.8	6505.0	6346.8
6434.7	22.5°	5909.1	5504.6	5418.6	5707.8	6260.8	6741.5	6671.1	6512.9
6204.1	25°	5516.3	5109.8	5023.9	5293.5	5950.1	6718.0	6850.9	6716.1
5983.3	27.5°	5188.0	4795.2	4715.1	4984.8	5651.1	6651.6	7030.7	6934.9
5764.5	30°	4934.0	4570.5	4511.9	4771.8	5393.2	6569.5	7259.3	7206.5
5561.2	32.5°	4785.5	4519.7	4541.2	4754.2	5254.4	6479.6	7478.2	7503.6
5461.6	35°	4932.0	4943.8	5131.3	5219.3	5383.4	6466.0	7775.2	7874.8
5580.8	37.5°	5660.9	6067.3	6456.2	6383.9	6014.6	6624.2	8218.7	8404.4
6100.6	40°	6901.7	7736.1	8367.3	8091.7	7161.6	7108.8	8857.7	9135.2
7022.9	42.5°	8418.1	9832.8	10872.3	10133.7	8640.8	7956.9	9770.3	10123.9
8138.6	45°	10018.4	12418.0	14055.5	12519.6	10217.7	9145.0	11151.8	11429.3
9184.0	47.5°	11704.8	15560.1	17678.3	15165.4	11679.4	10497.2	13035.5	13100.0
10174.7	50°	13549.4	19005.1	21371.5	17809.2	13090.2	12046.7	15337.4	15263.1
11329.6	52.5°	15306.1	22547.8	24986.5	20464.8	14329.1	13969.5	18008.5	17856.1
12908.5	55°	16982.7	26088.6	28623.0	23016.8	15497.6	16509.8	21181.9	20259.6
15184.9	57.5°	18926.9	29271.7	32370.8	25580.5	17131.2	19808.2	24730.5	21654.8
19544.4	60°	21801.4	32888.7	36609.2	29093.9	20238.1	23274.7	26002.6	21389.1
24765.7	62.5°	25471.1	36214.4	39690.7	32536.9	23358.7	23927.4	24128.6	19341.2
23700.7	65°	26184.3	37056.6	39864.6	33457.3	22956.2	20296.7	19698.8	15546.4
21170.2	67.5°	24292.8	35534.4	37433.8	31743.6	20306.5	15685.2	14782.4	11278.8
19509.3	70°	22170.7	32632.7	33197.4	28830.1	17860.0	11536.7	9983.3	7237.8
18372.0	72.5°	19995.8	28761.7	27593.2	25037.3	15696.9	8400.5	7200.7	5145.0
16752.1	75°	17412.6	23671.4	21734.9	20802.8	12996.4	6593.0	5209.5	3550.5
14409.2	77.5°	13944.1	16662.2	16144.4	16124.8	9766.4	4816.7	3476.3	2225.7
11257.3	80°	9836.7	10813.7	10549.9	12144.4	6551.9	3493.8	2092.8	1238.9
7835.7	82.5°	4762.0	5979.4	6137.7	7231.9	3187.1	2055.7	482.7	269.7
3064.0	85°	1864.2	2884.2	2432.8	2745.4	895.0	572.5	11.7	0.0
504.1	87.5°	209.1	334.1	306.8	242.3	109.4	23.4	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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