

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: P948978

Luminaire Tested: **GALN-SB3D-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948978
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-SB3D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA 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: 22288 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

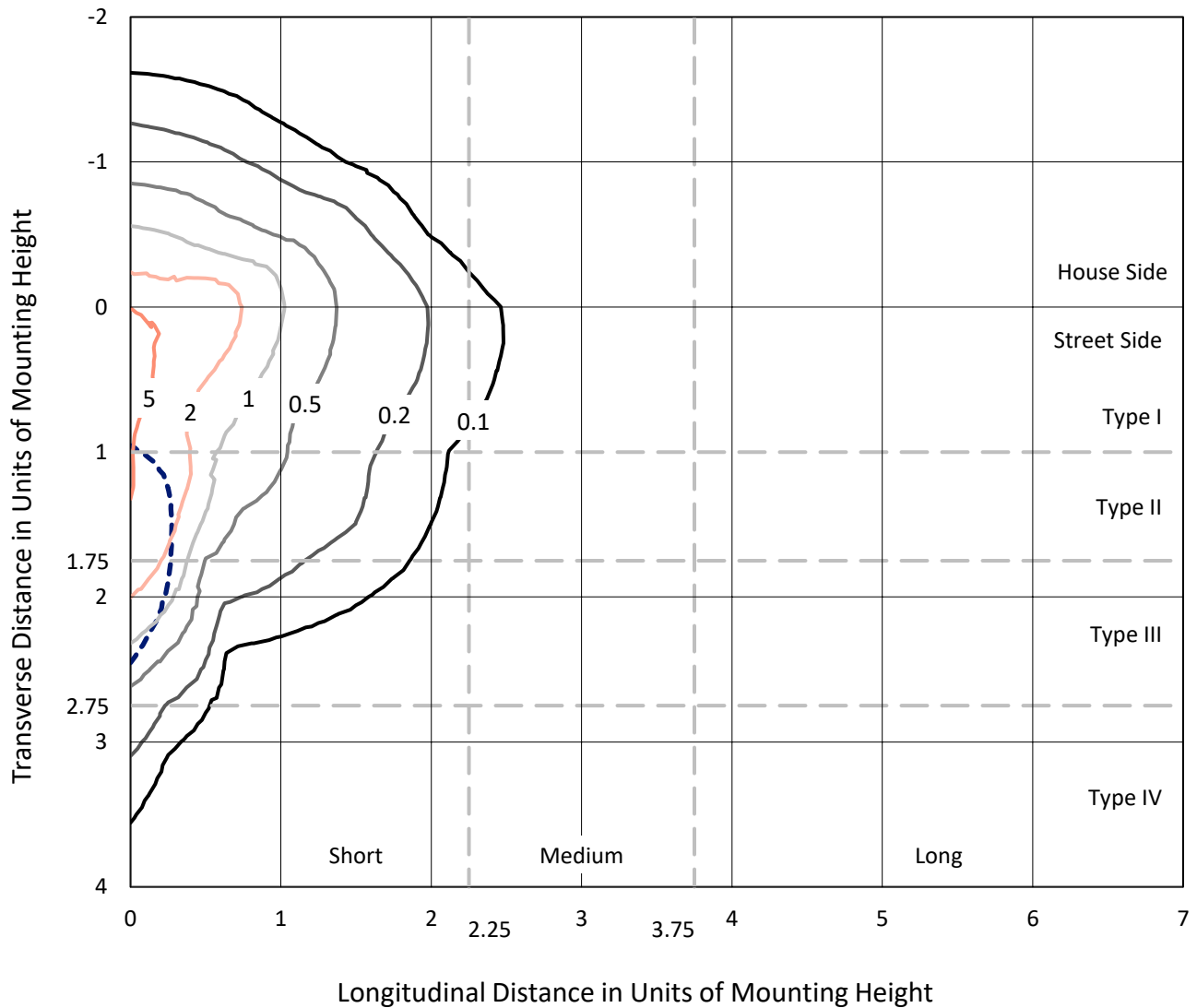
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

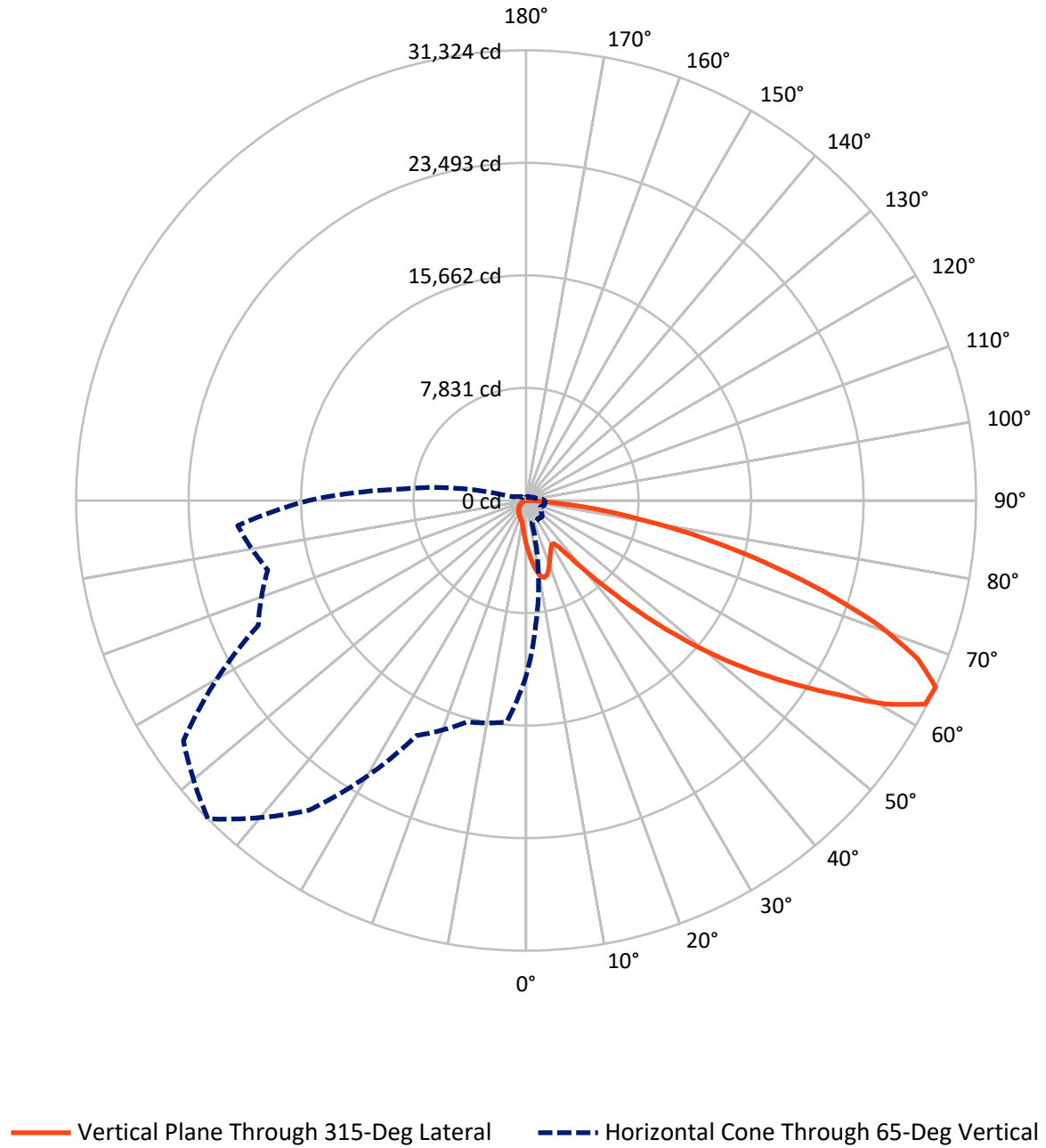
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3121.3	0.0	3121.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19166.7	0.0	19166.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	22288.0	0.0	22288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.4
10°-20°	910.8	4.1
20°-30°	1341.8	6.0
30°-40°	1723.9	7.7
40°-50°	2788.1	12.5
50°-60°	4889.1	21.9
60°-70°	6117.7	27.4
70°-80°	3574.9	16.0
80°-90°	637.8	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°	22288.0	100.0
0°-180°	22288.0	100.0

Coefficient of Utilization



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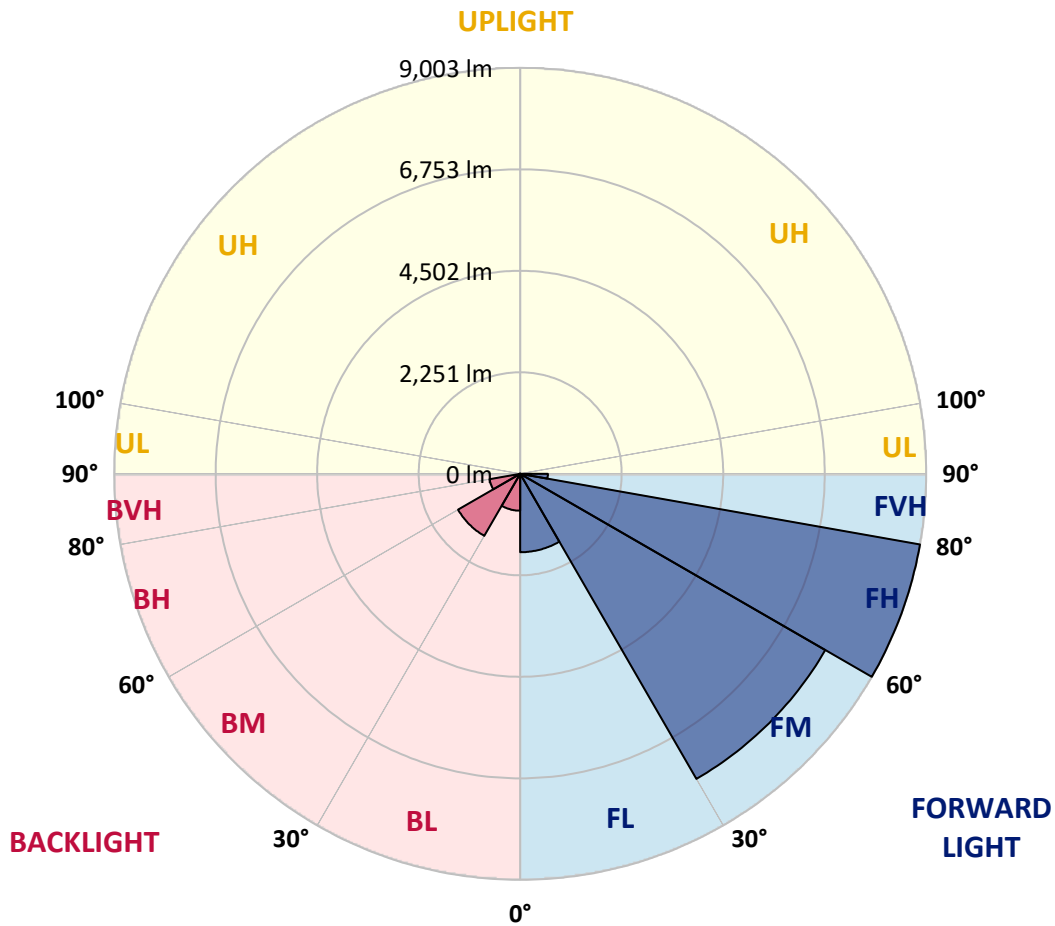
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.4	7.8			
FM (30°-60°)	7811.7	35.0			
FH (60°-80°)	9003.3	40.4			G4/12000
FVH (80°-90°)	613.3	2.8			G4/750
BL (0°-30°)	818.1	3.7	B2/1000		
BM (30°-60°)	1589.4	7.1	B2/2500		
BH (60°-80°)	689.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	24.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
2.5°	3486.9	3427.0	3391.7	3304.2	3216.7	3146.1	3050.9	2987.9	2912.7	2840.5
5°	3886.1	3789.4	3672.7	3513.0	3367.2	3218.2	3073.9	2931.1	2780.6	2642.4
7.5°	4223.9	4084.2	3878.4	3666.6	3480.8	3301.1	3132.2	2943.4	2760.7	2544.2
10°	4481.9	4303.8	4033.5	3755.6	3542.2	3361.0	3196.7	3037.0	2852.8	2591.8
12.5°	4638.5	4448.1	4127.2	3801.7	3557.5	3354.9	3227.4	3156.8	3084.6	2825.2
15°	4753.6	4547.9	4193.2	3833.9	3522.2	3273.5	3179.8	3250.5	3333.4	3167.6
17.5°	4873.4	4656.9	4279.2	3847.7	3427.0	3115.3	3075.4	3258.1	3450.1	3442.4
20°	4987.0	4772.1	4354.4	3838.5	3273.5	2923.4	2958.7	3192.1	3414.8	3508.4
22.5°	5117.5	4890.3	4426.6	3803.2	3073.9	2743.8	2854.3	3087.7	3282.7	3393.3
25°	5277.2	5039.2	4527.9	3751.0	2858.9	2594.8	2748.4	2966.4	3124.6	3201.3
27.5°	5449.2	5217.3	4663.0	3723.4	2685.4	2488.9	2628.6	2822.1	2963.3	3017.1
30°	5662.6	5424.6	4822.7	3692.7	2571.8	2427.5	2504.3	2654.7	2792.9	2846.7
32.5°	5896.0	5654.9	4976.3	3619.0	2502.7	2381.4	2383.0	2478.2	2604.1	2668.5
35°	6187.7	5931.3	5140.6	3457.7	2447.4	2327.7	2264.7	2310.8	2415.2	2492.0
37.5°	6603.8	6293.6	5341.7	3227.4	2366.1	2244.8	2140.4	2151.1	2231.0	2315.4
40°	7178.0	6780.4	5578.1	2987.9	2249.4	2128.1	2003.7	1999.1	2057.4	2140.4
42.5°	7955.0	7423.7	5862.2	2759.1	2137.3	1986.8	1859.4	1851.7	1897.8	1969.9
45°	8980.6	8246.7	6210.7	2562.6	2049.8	1848.6	1722.7	1719.7	1758.0	1821.0
47.5°	10293.4	9390.6	6559.3	2429.0	2003.7	1739.6	1610.6	1616.8	1650.6	1707.4
50°	11993.1	10881.5	6665.2	2361.5	2003.7	1681.3	1510.8	1541.6	1569.2	1612.2
52.5°	14030.6	12312.5	6315.1	2300.0	2016.0	1689.0	1426.4	1492.4	1512.4	1549.2
55°	15919.1	13014.1	5429.2	2215.6	2019.1	1736.5	1354.2	1452.5	1489.3	1503.2
57.5°	17015.4	12773.1	4389.7	2072.8	2006.8	1768.8	1308.2	1403.4	1474.0	1483.2
60°	16806.6	11927.1	3232.0	1963.8	1916.2	1756.5	1294.4	1328.1	1440.2	1454.0
62.5°	15197.5	10508.3	2243.2	1879.3	1716.6	1702.8	1289.7	1209.9	1366.5	1400.3
65°	12215.7	8272.8	1584.5	1618.3	1504.7	1586.1	1265.2	1087.1	1277.5	1323.5
67.5°	8862.4	5598.1	1143.9	1311.2	1363.4	1397.2	1209.9	998.0	1176.1	1237.5
70°	5687.2	3023.2	803.0	866.0	1148.5	1186.9	1114.7	918.2	1073.3	1143.9
72.5°	4042.7	1785.7	577.3	606.5	922.8	988.8	981.1	829.1	953.5	1039.5
75°	2789.8	984.2	390.0	433.0	669.4	803.0	757.0	712.4	807.6	895.1
77.5°	1748.8	440.7	233.4	300.9	439.1	631.1	519.0	551.2	629.5	710.9
80°	973.5	170.4	130.5	199.6	239.5	459.1	287.1	354.7	463.7	522.0
82.5°	211.9	21.5	58.3	86.0	93.7	267.2	152.0	205.7	291.7	287.1
85°	0.0	0.0	10.7	12.3	6.1	115.2	55.3	67.6	95.2	89.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°
3086.2	0°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
2776.0	2.5°	2763.7	2688.5	2633.2	2605.6	2582.6	2604.1	2616.3	2616.3	2668.5	2699.3
2558.0	5°	2504.3	2369.1	2266.3	2197.2	2155.7	2169.5	2184.9	2201.8	2267.8	2312.3
2429.0	7.5°	2324.6	2117.3	1960.7	1864.0	1813.3	1821.0	1831.7	1845.6	1910.1	1954.6
2447.4	10°	2290.8	1993.0	1771.9	1644.4	1583.0	1572.3	1566.1	1561.5	1599.9	1633.7
2656.3	12.5°	2429.0	1999.1	1690.5	1535.4	1460.2	1427.9	1391.1	1361.9	1368.1	1389.5
2972.6	15°	2676.2	2077.4	1664.4	1478.6	1384.9	1331.2	1288.2	1252.9	1245.2	1252.9
3248.9	17.5°	2958.7	2183.4	1661.3	1429.5	1312.8	1257.5	1222.2	1189.9	1179.2	1180.7
3404.0	20°	3146.1	2267.8	1652.1	1374.2	1243.7	1194.5	1163.8	1131.6	1120.8	1123.9
3361.0	22.5°	3164.5	2312.3	1638.3	1312.8	1174.6	1133.1	1102.4	1073.3	1071.7	1071.7
3199.8	25°	3064.7	2312.3	1609.1	1257.5	1108.6	1071.7	1044.1	1008.8	1014.9	1018.0
3017.1	27.5°	2909.6	2257.1	1553.8	1213.0	1051.8	1013.4	985.7	953.5	961.2	965.8
2846.7	30°	2756.1	2186.4	1487.8	1162.3	998.0	953.5	933.5	905.9	909.0	915.1
2677.8	32.5°	2613.3	2111.2	1409.5	1120.8	944.3	899.8	884.4	853.7	858.3	864.4
2511.9	35°	2472.0	2028.3	1317.4	1071.7	895.1	850.6	838.3	803.0	806.1	815.3
2346.1	37.5°	2320.0	1940.8	1242.1	1022.6	847.5	801.5	789.2	752.4	755.4	766.2
2174.1	40°	2160.3	1854.8	1168.4	970.4	796.9	750.8	740.1	700.1	703.2	715.5
2005.2	42.5°	1999.1	1761.1	1111.6	902.8	744.7	695.5	684.8	647.9	652.5	666.4
1857.8	45°	1850.2	1649.0	1074.8	827.6	695.5	640.3	629.5	595.7	605.0	620.3
1733.5	47.5°	1722.7	1533.9	1059.4	764.6	643.3	583.5	574.2	546.6	562.0	578.8
1627.5	50°	1613.7	1423.3	1039.5	700.1	594.2	534.3	525.1	506.7	526.6	543.5
1555.4	52.5°	1535.4	1297.4	996.5	641.8	551.2	492.9	489.8	480.6	499.0	514.4
1501.6	55°	1467.9	1166.9	927.4	591.1	512.8	457.6	460.6	456.0	471.4	483.7
1469.4	57.5°	1406.4	1053.3	839.9	551.2	471.4	426.8	436.1	429.9	437.6	445.3
1435.6	60°	1332.7	938.1	735.5	506.7	422.2	396.1	406.9	390.0	388.5	391.5
1374.2	62.5°	1223.7	783.1	626.4	451.4	379.2	362.4	367.0	334.7	310.2	310.2
1283.6	65°	1071.7	629.5	525.1	390.0	330.1	316.3	313.2	267.2	233.4	230.3
1185.3	67.5°	895.1	517.4	436.1	328.6	274.8	265.6	268.7	234.9	201.1	198.1
1087.1	70°	729.3	428.4	351.6	262.6	211.9	221.1	234.9	201.1	168.9	164.3
971.9	72.5°	592.7	340.9	274.8	201.1	156.6	182.7	199.6	164.3	133.6	130.5
829.1	75°	457.6	250.3	196.5	136.7	113.6	141.3	156.6	119.8	95.2	90.6
641.8	77.5°	305.5	155.1	110.5	86.0	67.6	96.7	104.4	63.0	55.3	53.7
466.8	80°	185.8	72.2	47.6	41.5	23.0	35.3	41.5	26.1	29.2	30.7
248.7	82.5°	93.7	20.0	7.7	1.5	0.0	0.0	12.3	6.1	12.3	15.4
67.6	85°	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.7
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°
3086.2	0°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
2711.5	2.5°	2797.5	2862.0	2923.4	3021.7	3123.0	3222.8	3324.2	3422.4	3457.7	3483.8
2341.5	5°	2475.1	2596.4	2737.6	2932.6	3141.4	3356.4	3574.4	3774.0	3864.6	3926.0
1993.0	7.5°	2141.9	2300.0	2502.7	2796.0	3123.0	3465.4	3807.8	4122.6	4268.4	4386.7
1664.4	10°	1811.8	1983.8	2240.2	2574.9	3017.1	3508.4	3981.3	4414.3	4603.2	4752.1
1427.9	12.5°	1521.6	1682.8	1951.5	2321.5	2851.3	3474.6	4081.1	4601.6	4824.3	4991.6
1259.0	15°	1317.4	1431.0	1669.0	2068.2	2654.7	3365.6	4087.3	4690.7	4934.8	5109.8
1188.4	17.5°	1203.8	1242.1	1397.2	1810.2	2436.7	3222.8	4030.5	4721.4	4982.4	5145.2
1125.5	20°	1142.3	1148.5	1191.5	1475.5	2157.3	3089.2	3976.7	4752.1	5026.9	5163.6
1080.9	22.5°	1093.2	1093.2	1104.0	1206.8	1796.4	2929.6	3959.8	4805.8	5088.3	5172.8
1030.3	25°	1048.7	1048.7	1051.8	1079.4	1423.3	2685.4	3949.1	4888.7	5172.8	5195.8
979.6	27.5°	1002.6	1004.2	1004.2	1019.5	1147.0	2353.8	3903.0	4996.2	5274.1	5226.5
930.5	30°	956.6	959.6	959.6	970.4	1014.9	1965.3	3812.4	5125.2	5406.2	5266.5
881.3	32.5°	910.5	913.6	913.6	922.8	955.0	1569.2	3698.8	5243.4	5539.8	5283.3
833.7	35°	862.9	867.5	864.4	876.7	910.5	1248.3	3554.5	5361.7	5684.1	5337.1
787.7	37.5°	815.3	818.4	816.8	829.1	867.5	1077.9	3387.1	5450.7	5880.6	5456.8
738.5	40°	767.7	766.2	766.2	780.0	821.4	1028.7	3176.8	5592.0	6163.1	5667.2
689.4	42.5°	718.6	718.6	715.5	730.9	781.5	991.9	2975.6	5845.3	6574.6	6001.9
643.3	45°	674.0	672.5	666.4	680.2	743.1	927.4	2905.0	6318.2	7182.6	6543.9
597.3	47.5°	631.1	629.5	614.2	626.4	697.1	869.0	3169.1	7092.1	8025.6	7340.8
560.4	50°	592.7	594.2	565.0	575.8	651.0	824.5	3741.8	8096.2	9144.9	8414.0
529.7	52.5°	557.4	557.4	519.0	525.1	594.2	784.6	4286.9	9184.8	10622.0	9911.1
497.5	55°	522.0	519.0	476.0	479.0	537.4	727.8	4368.2	10247.3	12636.4	12163.5
462.2	57.5°	482.1	476.0	436.1	436.1	485.2	686.3	3786.3	11064.2	15136.1	15473.9
396.1	60°	433.0	428.4	402.3	394.6	443.7	723.2	2671.6	11159.4	16748.3	19875.9
314.8	62.5°	370.0	376.2	362.4	351.6	403.8	750.8	1583.0	10393.2	16358.3	21276.2
244.1	65°	291.7	316.3	313.2	305.5	443.7	632.6	935.1	8922.3	15162.2	20146.1
213.4	67.5°	248.7	265.6	261.0	261.0	465.2	480.6	588.1	6970.8	13516.2	18805.7
178.1	70°	211.9	228.8	211.9	211.9	351.6	291.7	406.9	4867.3	11739.7	17322.5
142.8	72.5°	175.0	191.9	173.5	161.2	281.0	218.0	297.9	3041.6	10053.9	15777.9
101.3	75°	133.6	153.5	139.7	124.4	185.8	162.8	225.7	1767.3	8329.6	13499.3
61.4	77.5°	84.4	110.5	104.4	87.5	136.7	118.2	162.8	1051.8	6427.2	10548.3
36.8	80°	52.2	56.8	58.3	55.3	78.3	79.8	110.5	598.8	4399.0	7351.5
23.0	82.5°	33.8	33.8	26.1	29.2	38.4	46.1	63.0	225.7	2585.6	4475.7
13.8	85°	24.6	21.5	13.8	13.8	18.4	23.0	24.6	69.1	1048.7	1767.3
6.1	87.5°	12.3	10.7	4.6	6.1	9.2	7.7	6.1	3.1	264.1	565.0
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°
3086.2	0°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
3542.2	2.5°	3572.9	3620.5	3623.6	3623.6	3582.1	3580.6	3496.1	3486.9
4064.2	5°	4207.0	4237.7	4245.4	4230.1	4147.1	4085.7	3921.4	3886.1
4597.0	7.5°	4787.4	4848.8	4848.8	4812.0	4676.9	4551.0	4313.0	4223.9
5037.7	10°	5251.1	5321.7	5306.4	5231.1	5060.7	4887.2	4598.6	4481.9
5304.8	12.5°	5476.8	5549.0	5509.1	5423.1	5257.2	5074.5	4770.5	4638.5
5381.6	15°	5472.2	5452.2	5410.8	5400.0	5320.2	5182.0	4898.0	4753.6
5334.0	17.5°	5277.2	5108.3	5076.1	5183.5	5284.9	5251.1	5008.5	4873.4
5220.4	20°	4968.6	4673.8	4644.6	4850.4	5139.0	5286.4	5111.4	4987.0
5056.1	22.5°	4643.1	4325.3	4257.7	4484.9	4919.5	5297.2	5241.9	5117.5
4874.9	25°	4334.5	4015.1	3947.5	4159.4	4675.3	5278.7	5383.1	5277.2
4701.4	27.5°	4076.5	3767.9	3704.9	3916.8	4440.4	5226.5	5524.4	5449.2
4529.5	30°	3876.9	3591.3	3545.3	3749.5	4237.7	5162.0	5704.0	5662.6
4369.8	32.5°	3760.2	3551.4	3568.3	3735.7	4128.7	5091.4	5876.0	5896.0
4291.5	35°	3875.4	3884.6	4032.0	4101.1	4230.1	5080.7	6109.4	6187.7
4385.1	37.5°	4448.1	4767.4	5073.0	5016.2	4726.0	5205.0	6457.9	6603.8
4793.6	40°	5423.1	6078.7	6574.6	6358.1	5627.3	5585.8	6960.0	7178.0
5518.3	42.5°	6614.5	7726.2	8543.0	7962.6	6789.6	6252.2	7677.1	7955.0
6395.0	45°	7872.0	9757.5	11044.2	9837.4	8028.7	7185.7	8762.6	8980.6
7216.4	47.5°	9197.1	12226.5	13890.9	11916.3	9177.1	8248.2	10242.7	10293.4
7994.9	50°	10646.5	14933.4	16792.8	13993.7	10285.7	9465.8	12051.4	11993.1
8902.3	52.5°	12026.9	17717.1	19633.3	16080.4	11259.2	10976.6	14150.3	14030.6
10142.9	55°	13344.3	20499.3	22490.7	18085.6	12177.3	12972.7	16643.8	15919.1
11931.7	57.5°	14872.0	23000.4	25435.6	20100.1	13460.9	15564.5	19432.2	17015.4
15357.2	60°	17130.6	25842.5	28765.9	22860.7	15902.2	18288.3	20431.7	16806.6
19459.8	62.5°	20014.1	28455.8	31187.3	25566.1	18354.3	18801.1	18959.2	15197.5
18623.0	65°	20574.5	29117.5	31323.9	26289.3	18038.0	15948.3	15478.5	12215.7
16634.6	67.5°	19088.2	27921.4	29413.9	24942.7	15956.0	12324.7	11615.4	8862.4
15329.5	70°	17420.8	25641.4	26085.1	22653.4	14033.7	9065.1	7844.4	5687.2
14435.9	72.5°	15711.9	22599.7	21681.5	19673.2	12334.0	6600.7	5658.0	4042.7
13163.1	75°	13682.0	18600.0	17078.4	16346.0	10212.0	5180.5	4093.4	2789.8
11322.1	77.5°	10956.7	13092.4	12685.6	12670.2	7674.0	3784.8	2731.5	1748.8
8845.5	80°	7729.3	8497.0	8289.7	9542.6	5148.2	2745.3	1644.4	973.5
6157.0	82.5°	3741.8	4698.4	4822.7	5682.6	2504.3	1615.3	379.2	211.9
2407.5	85°	1464.8	2266.3	1911.6	2157.3	703.2	449.9	9.2	0.0
396.1	87.5°	164.3	262.6	241.1	190.4	86.0	18.4	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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