

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: P946435

Luminaire Tested: **GALN-SB2A-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946435
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-SB2A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6152 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

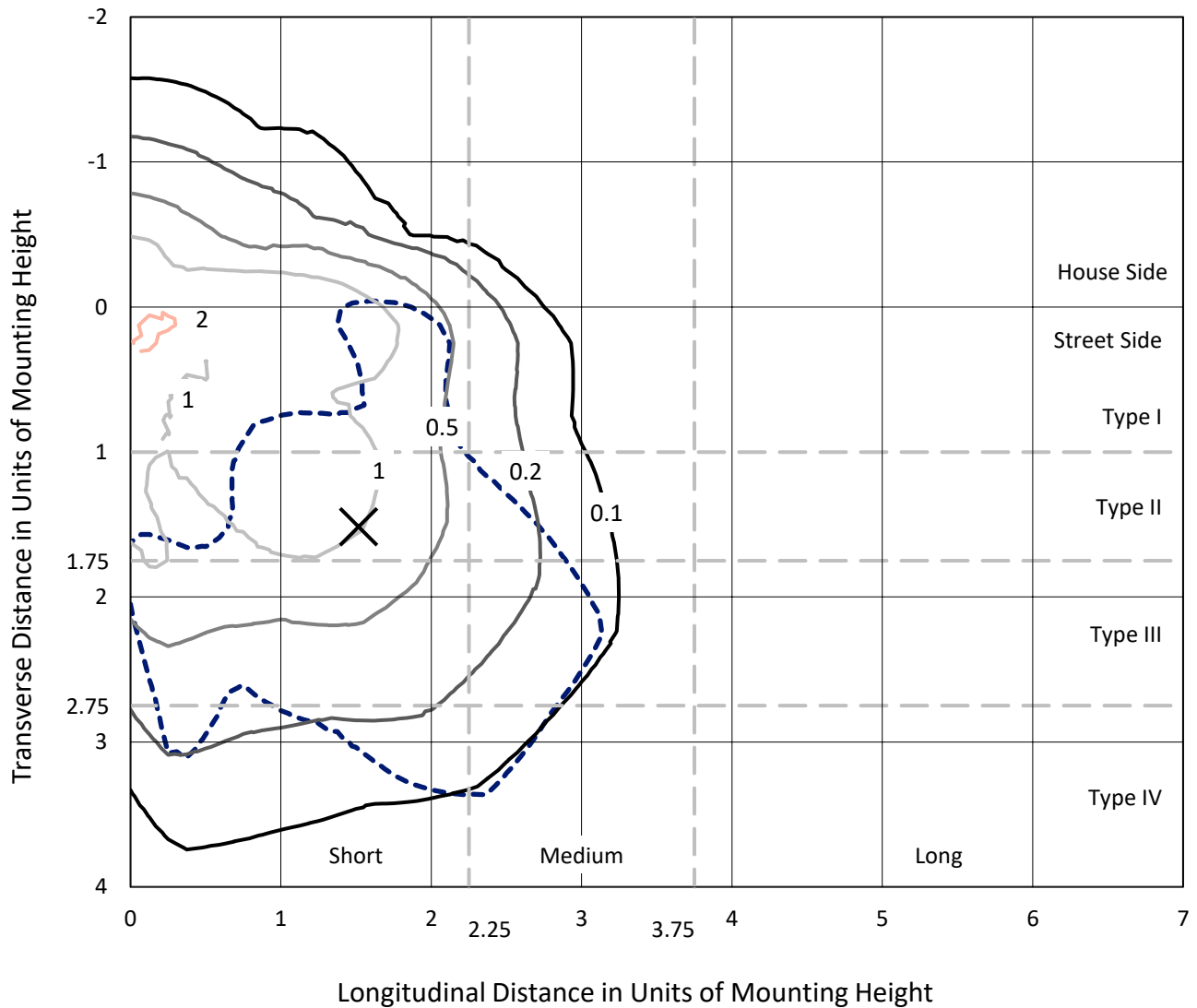
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

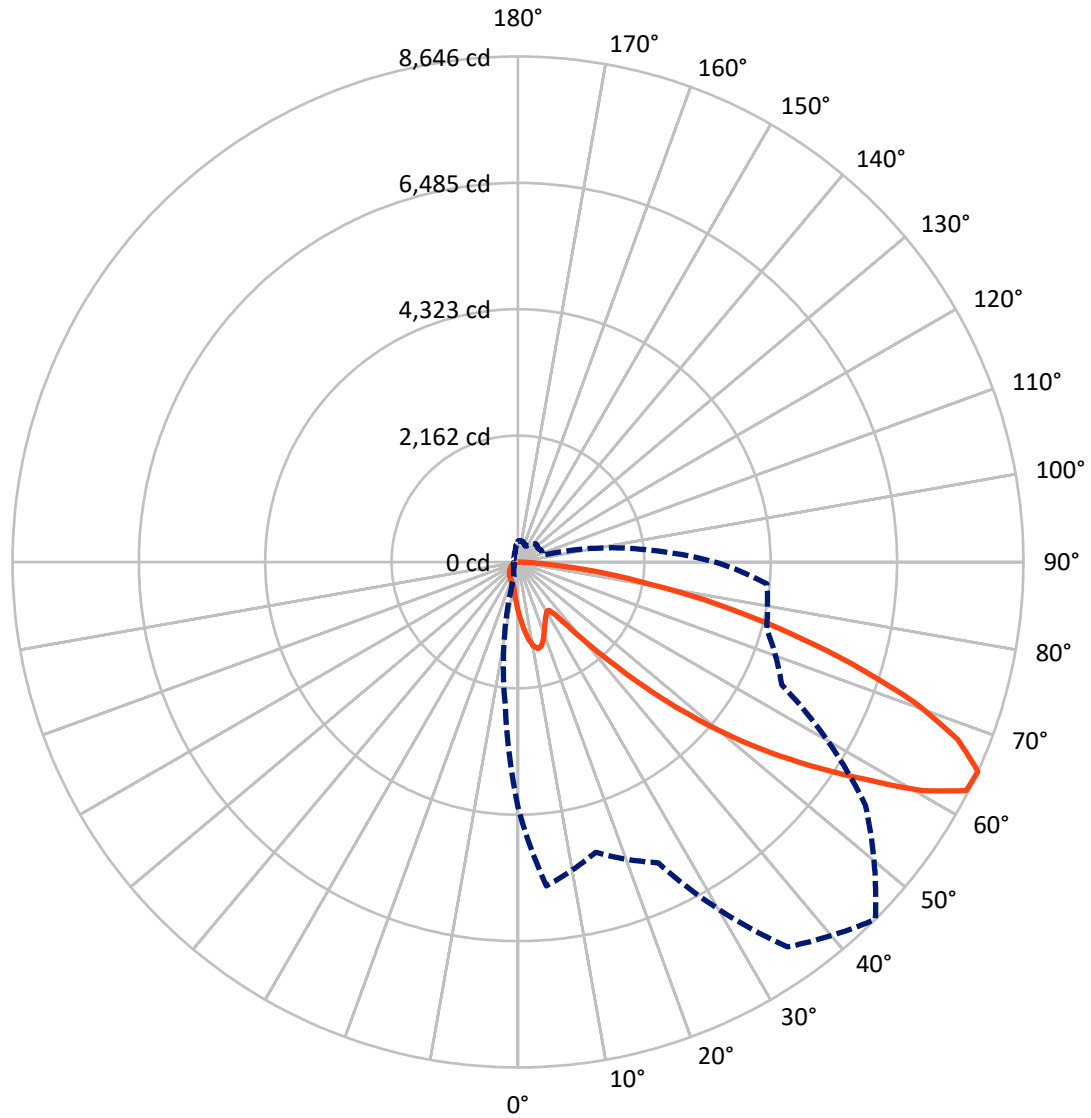
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.8	0.0	1222.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4929.2	0.0	4929.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	6152.0	0.0	6152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.4
10°-20°	251.4	4.1
20°-30°	370.4	6.0
30°-40°	475.8	7.7
40°-50°	769.6	12.5
50°-60°	1349.5	21.9
60°-70°	1688.6	27.4
70°-80°	986.7	16.0
80°-90°	176.1	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°	6152.0	100.0
0°-180°	6152.0	100.0

Coefficient of Utilization



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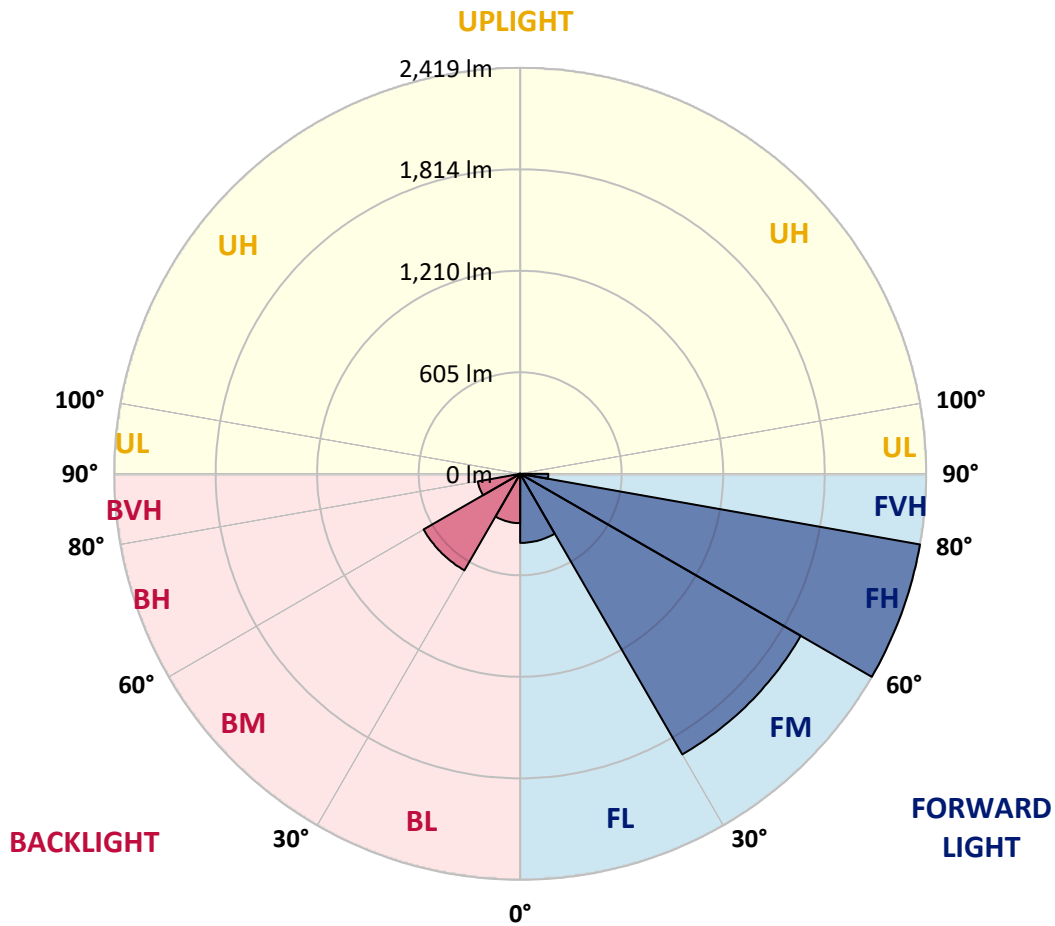
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.6	6.7			
FM (30°-60°)	1930.6	31.4			
FH (60°-80°)	2419.2	39.3			G2/5000
FVH (80°-90°)	167.8	2.7			G2/225
BL (0°-30°)	294.0	4.8	B1/500		
BM (30°-60°)	664.4	10.8	B1/1000		
BH (60°-80°)	256.2	4.2	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
2.5°	954.4	961.6	977.7	986.2	999.3	1000.2	1000.2	988.7	988.3	965.0
5°	1066.7	1083.7	1121.8	1161.2	1169.7	1171.8	1167.6	1144.7	1127.8	1082.4
7.5°	1178.2	1210.8	1268.9	1321.4	1338.4	1338.4	1328.2	1290.9	1256.2	1190.5
10°	1270.6	1311.7	1390.5	1449.4	1468.9	1464.7	1443.9	1396.9	1349.0	1269.3
12.5°	1331.6	1377.8	1464.3	1511.7	1531.6	1520.6	1496.9	1451.1	1400.7	1316.8
15°	1362.1	1410.4	1485.4	1510.5	1504.9	1493.5	1490.5	1468.5	1430.4	1351.9
17.5°	1375.3	1420.2	1472.3	1456.6	1410.0	1401.1	1430.8	1458.7	1449.4	1382.5
20°	1387.5	1425.3	1440.9	1371.4	1290.1	1282.0	1338.8	1418.5	1459.2	1410.9
22.5°	1404.5	1427.8	1395.6	1281.6	1193.9	1175.2	1237.9	1357.9	1462.1	1446.9
25°	1427.8	1434.2	1345.6	1196.4	1108.3	1089.6	1148.1	1290.5	1457.1	1485.9
27.5°	1455.8	1442.6	1297.7	1125.2	1040.0	1022.6	1081.1	1225.7	1442.6	1524.9
30°	1492.2	1453.7	1250.2	1070.1	991.3	978.6	1034.9	1169.7	1424.8	1574.4
32.5°	1529.1	1458.3	1206.2	1037.9	980.3	984.9	1031.1	1139.6	1405.3	1621.9
35°	1568.9	1473.2	1184.5	1069.7	1072.2	1112.9	1132.0	1167.6	1402.4	1686.3
37.5°	1623.2	1506.2	1210.4	1227.8	1315.9	1400.3	1384.6	1304.5	1436.7	1782.5
40°	1701.2	1564.3	1323.1	1496.9	1677.9	1814.7	1755.0	1553.3	1541.8	1921.1
42.5°	1814.7	1656.7	1523.2	1825.8	2132.6	2358.1	2197.9	1874.1	1725.7	2119.0
45°	1982.6	1806.3	1765.2	2172.9	2693.3	3048.5	2715.3	2216.1	1983.4	2418.7
47.5°	2215.2	2026.2	1991.9	2538.6	3374.8	3834.2	3289.2	2533.1	2276.7	2827.2
50°	2524.2	2322.5	2206.8	2938.7	4122.0	4635.2	3862.6	2839.1	2612.8	3326.5
52.5°	2931.9	2735.7	2457.2	3319.7	4890.3	5419.2	4438.5	3107.8	3029.8	3905.8
55°	3487.9	3357.4	2799.7	3683.3	5658.3	6207.9	4992.0	3361.2	3580.8	4594.1
57.5°	4177.9	4271.1	3293.4	4105.0	6348.7	7020.8	5548.1	3715.5	4296.1	5363.7
60°	4622.9	5486.2	4238.9	4728.4	7133.1	7940.1	6310.1	4389.4	5048.0	5639.6
62.5°	4515.3	5872.7	5371.3	5524.3	7854.4	8608.4	7056.8	5066.2	5189.5	5233.2
65°	4185.1	5560.8	5140.4	5679.0	8037.1	8646.1	7256.4	4978.9	4402.1	4272.4
67.5°	3730.8	5190.8	4591.5	5268.8	7707.0	8118.9	6884.8	4404.2	3401.9	3206.1
70°	3240.4	4781.4	4231.3	4808.5	7077.6	7200.1	6252.9	3873.6	2502.2	2165.2
72.5°	2775.1	4355.1	3984.6	4336.8	6238.0	5984.6	5430.3	3404.5	1822.0	1561.7
75°	2299.2	3726.1	3633.3	3776.6	5134.0	4714.0	4511.9	2818.8	1429.9	1129.9
77.5°	1774.1	2911.6	3125.2	3024.3	3613.8	3501.5	3497.3	2118.2	1044.7	754.0
80°	1214.2	2029.2	2441.6	2133.5	2345.4	2288.1	2634.0	1421.0	757.8	453.9
82.5°	713.7	1235.4	1699.5	1032.8	1296.9	1331.2	1568.5	691.2	445.8	104.7
85°	289.5	487.8	664.5	404.3	625.5	527.6	595.5	194.1	124.2	2.5
87.5°	72.9	156.0	109.3	45.3	72.5	66.5	52.6	23.7	5.1	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
851.9	0°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
962.5	2.5°	945.9	936.2	912.0	887.9	868.4	842.1	824.7	804.0	784.0	766.2
1072.7	5°	1046.0	1013.8	969.7	929.4	888.3	848.5	809.1	767.5	729.4	706.1
1165.9	7.5°	1127.3	1070.5	1012.1	960.8	911.2	864.6	812.4	762.0	702.3	670.5
1237.1	10°	1187.9	1113.3	1036.6	977.7	927.7	882.4	838.3	787.4	715.4	675.6
1280.3	12.5°	1227.8	1139.2	1049.3	982.0	926.0	890.8	871.4	851.4	779.8	733.2
1312.1	15°	1255.3	1157.4	1058.2	972.2	903.6	877.7	897.2	920.1	874.3	820.5
1345.2	17.5°	1285.4	1181.2	1062.1	945.9	859.9	848.9	899.3	952.3	950.2	896.8
1376.5	20°	1317.2	1201.9	1059.5	903.6	806.9	816.7	881.1	942.6	968.4	939.6
1412.6	22.5°	1349.8	1221.8	1049.8	848.5	757.3	787.9	852.3	906.1	936.6	927.7
1456.6	25°	1390.9	1249.8	1035.4	789.1	716.2	758.6	818.8	862.5	883.6	883.2
1504.1	27.5°	1440.1	1287.1	1027.7	741.2	687.0	725.6	779.0	818.0	832.8	832.8
1563.0	30°	1497.3	1331.2	1019.3	709.9	670.0	691.2	732.8	770.9	785.7	785.7
1627.4	32.5°	1560.9	1373.6	998.9	690.8	657.3	657.8	684.0	718.8	736.6	739.1
1707.9	35°	1637.2	1418.9	954.4	675.6	642.5	625.1	637.8	666.7	687.8	693.4
1822.8	37.5°	1737.2	1474.4	890.8	653.1	619.6	590.8	593.8	615.8	639.1	647.6
1981.3	40°	1871.5	1539.7	824.7	620.9	587.4	553.1	551.8	567.9	590.8	600.1
2195.8	42.5°	2049.1	1618.1	761.6	589.9	548.4	513.2	511.1	523.8	543.7	553.5
2478.9	45°	2276.3	1714.3	707.3	565.8	510.3	475.5	474.7	485.3	502.6	512.8
2841.2	47.5°	2592.0	1810.5	670.5	553.1	480.2	444.6	446.3	455.6	471.3	478.5
3310.4	50°	3003.5	1839.8	651.8	553.1	464.1	417.0	425.5	433.1	445.0	449.2
3872.8	52.5°	3398.5	1743.1	634.9	556.5	466.2	393.7	411.9	417.5	427.6	429.3
4394.0	55°	3592.2	1498.6	611.6	557.3	479.3	373.8	400.9	411.1	414.9	414.5
4696.6	57.5°	3525.7	1211.7	572.1	553.9	488.2	361.1	387.4	406.9	409.4	405.6
4639.0	60°	3292.1	892.1	542.1	528.9	484.8	357.3	366.6	397.5	401.3	396.3
4194.9	62.5°	2900.5	619.2	518.7	473.8	470.0	356.0	334.0	377.2	386.5	379.3
3371.8	65°	2283.5	437.4	446.7	415.3	437.8	349.2	300.1	352.6	365.3	354.3
2446.2	67.5°	1545.2	315.7	361.9	376.3	385.7	334.0	275.5	324.6	341.6	327.2
1569.8	70°	834.5	221.7	239.0	317.0	327.6	307.7	253.4	296.2	315.7	300.1
1115.9	72.5°	492.9	159.4	167.4	254.7	272.9	270.8	228.9	263.2	286.9	268.3
770.1	75°	271.7	107.6	119.5	184.8	221.7	208.9	196.6	222.9	247.1	228.9
482.7	77.5°	121.6	64.4	83.1	121.2	174.2	143.2	152.1	173.8	196.2	177.2
268.7	80°	47.0	36.0	55.1	66.1	126.7	79.3	97.9	128.0	144.1	128.8
58.5	82.5°	5.9	16.1	23.7	25.9	73.7	42.0	56.8	80.5	79.3	68.7
0.0	85°	0.0	3.0	3.4	1.7	31.8	15.3	18.6	26.3	24.6	18.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°
851.9	0°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
762.9	2.5°	742.1	726.8	719.2	712.8	718.8	722.2	722.2	736.6	745.1	748.4
691.2	5°	653.9	625.5	606.5	595.0	598.8	603.1	607.7	626.0	638.3	646.3
641.6	7.5°	584.4	541.2	514.5	500.5	502.6	505.6	509.4	527.2	539.5	550.1
632.3	10°	550.1	489.1	453.9	436.9	434.0	432.3	431.0	441.6	450.9	459.4
670.5	12.5°	551.8	466.6	423.8	403.0	394.1	384.0	375.9	377.6	383.5	394.1
738.7	15°	573.4	459.4	408.1	382.3	367.4	355.6	345.8	343.7	345.8	347.5
816.7	17.5°	602.7	458.6	394.6	362.4	347.1	337.4	328.5	325.5	325.9	328.0
868.4	20°	626.0	456.0	379.3	343.3	329.7	321.2	312.3	309.4	310.2	310.7
873.5	22.5°	638.3	452.2	362.4	324.2	312.8	304.3	296.2	295.8	295.8	298.4
845.9	25°	638.3	444.2	347.1	306.0	295.8	288.2	278.4	280.1	281.0	284.4
803.1	27.5°	623.0	428.9	334.8	290.3	279.7	272.1	263.2	265.3	266.6	270.4
760.7	30°	603.5	410.7	320.8	275.5	263.2	257.7	250.0	250.9	252.6	256.8
721.3	32.5°	582.7	389.1	309.4	260.6	248.4	244.1	235.6	236.9	238.6	243.3
682.3	35°	559.9	363.6	295.8	247.1	234.8	231.4	221.7	222.5	225.0	230.1
640.4	37.5°	535.7	342.9	282.3	233.9	221.2	217.8	207.7	208.5	211.5	217.4
596.3	40°	512.0	322.5	267.8	220.0	207.2	204.3	193.3	194.1	197.5	203.9
551.8	42.5°	486.1	306.8	249.2	205.5	192.0	189.0	178.8	180.1	183.9	190.3
510.7	45°	455.2	296.7	228.4	192.0	176.7	173.8	164.4	167.0	171.2	177.6
475.5	47.5°	423.4	292.4	211.1	177.6	161.0	158.5	150.9	155.1	159.8	164.9
445.4	50°	392.9	286.9	193.3	164.0	147.5	144.9	139.9	145.4	150.0	154.7
423.8	52.5°	358.1	275.1	177.2	152.1	136.0	135.2	132.7	137.7	142.0	146.2
405.2	55°	322.1	256.0	163.2	141.6	126.3	127.1	125.9	130.1	133.5	137.3
388.2	57.5°	290.7	231.8	152.1	130.1	117.8	120.4	118.7	120.8	122.9	127.6
367.9	60°	258.9	203.0	139.9	116.5	109.3	112.3	107.6	107.2	108.1	109.3
337.8	62.5°	216.1	172.9	124.6	104.7	100.0	101.3	92.4	85.6	85.6	86.9
295.8	65°	173.8	144.9	107.6	91.1	87.3	86.5	73.7	64.4	63.6	67.4
247.1	67.5°	142.8	120.4	90.7	75.9	73.3	74.2	64.8	55.5	54.7	58.9
201.3	70°	118.2	97.1	72.5	58.5	61.0	64.8	55.5	46.6	45.3	49.2
163.6	72.5°	94.1	75.9	55.5	43.2	50.4	55.1	45.3	36.9	36.0	39.4
126.3	75°	69.1	54.2	37.7	31.4	39.0	43.2	33.1	26.3	25.0	28.0
84.3	77.5°	42.8	30.5	23.7	18.6	26.7	28.8	17.4	15.3	14.8	17.0
51.3	80°	19.9	13.1	11.4	6.4	9.7	11.4	7.2	8.1	8.5	10.2
25.9	82.5°	5.5	2.1	0.4	0.0	0.0	3.4	1.7	3.4	4.2	6.4
2.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	3.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°
851.9	0°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
772.2	2.5°	790.0	806.9	834.1	862.0	889.6	917.5	944.7	954.4
683.2	5°	716.7	755.7	809.5	867.1	926.4	986.6	1041.7	1066.7
591.2	7.5°	634.9	690.8	771.8	862.0	956.5	1051.0	1137.9	1178.2
500.1	10°	547.6	618.3	710.7	832.8	968.4	1098.9	1218.4	1270.6
420.0	12.5°	464.5	538.7	640.8	787.0	959.1	1126.5	1270.2	1331.6
363.6	15°	395.0	460.7	570.9	732.8	929.0	1128.2	1294.7	1362.1
332.3	17.5°	342.9	385.7	499.7	672.6	889.6	1112.5	1303.2	1375.3
315.3	20°	317.0	328.9	407.3	595.5	852.7	1097.7	1311.7	1387.5
301.8	22.5°	301.8	304.7	333.1	495.9	808.6	1093.0	1326.5	1404.5
289.5	25°	289.5	290.3	297.9	392.9	741.2	1090.0	1349.4	1427.8
276.7	27.5°	277.2	277.2	281.4	316.6	649.7	1077.3	1379.1	1455.8
264.0	30°	264.9	264.9	267.8	280.1	542.5	1052.3	1414.7	1492.2
251.3	32.5°	252.2	252.2	254.7	263.6	433.1	1021.0	1447.3	1529.1
238.2	35°	239.5	238.6	242.0	251.3	344.6	981.1	1479.9	1568.9
225.0	37.5°	225.9	225.5	228.9	239.5	297.5	934.9	1504.5	1623.2
211.9	40°	211.5	211.5	215.3	226.7	284.0	876.9	1543.5	1701.2
198.3	42.5°	198.3	197.5	201.7	215.7	273.8	821.3	1613.4	1814.7
186.1	45°	185.6	183.9	187.7	205.1	256.0	801.8	1744.0	1982.6
174.2	47.5°	173.8	169.5	172.9	192.4	239.9	874.7	1957.6	2215.2
163.6	50°	164.0	156.0	158.9	179.7	227.6	1032.8	2234.7	2524.2
153.8	52.5°	153.8	143.2	144.9	164.0	216.6	1183.3	2535.2	2931.9
144.1	55°	143.2	131.4	132.2	148.3	200.9	1205.7	2828.5	3487.9
133.1	57.5°	131.4	120.4	120.4	133.9	189.4	1045.1	3054.0	4177.9
119.5	60°	118.2	111.0	108.9	122.5	199.6	737.4	3080.2	4622.9
102.1	62.5°	103.8	100.0	97.1	111.5	207.2	436.9	2868.8	4515.3
80.5	65°	87.3	86.5	84.3	122.5	174.6	258.1	2462.8	4185.1
68.7	67.5°	73.3	72.0	72.0	128.4	132.7	162.3	1924.1	3730.8
58.5	70°	63.1	58.5	58.5	97.1	80.5	112.3	1343.5	3240.4
48.3	72.5°	53.0	47.9	44.5	77.6	60.2	82.2	839.6	2775.1
36.9	75°	42.4	38.6	34.3	51.3	44.9	62.3	487.8	2299.2
23.3	77.5°	30.5	28.8	24.2	37.7	32.6	44.9	290.3	1774.1
14.4	80°	15.7	16.1	15.3	21.6	22.0	30.5	165.3	1214.2
9.3	82.5°	9.3	7.2	8.1	10.6	12.7	17.4	62.3	713.7
6.8	85°	5.9	3.8	3.8	5.1	6.4	6.8	19.1	289.5
3.4	87.5°	3.0	1.3	1.7	2.5	2.1	1.7	0.8	72.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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