

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: P946225

Luminaire Tested: **GALN-SB1D-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946225
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-SB1D-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5630 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

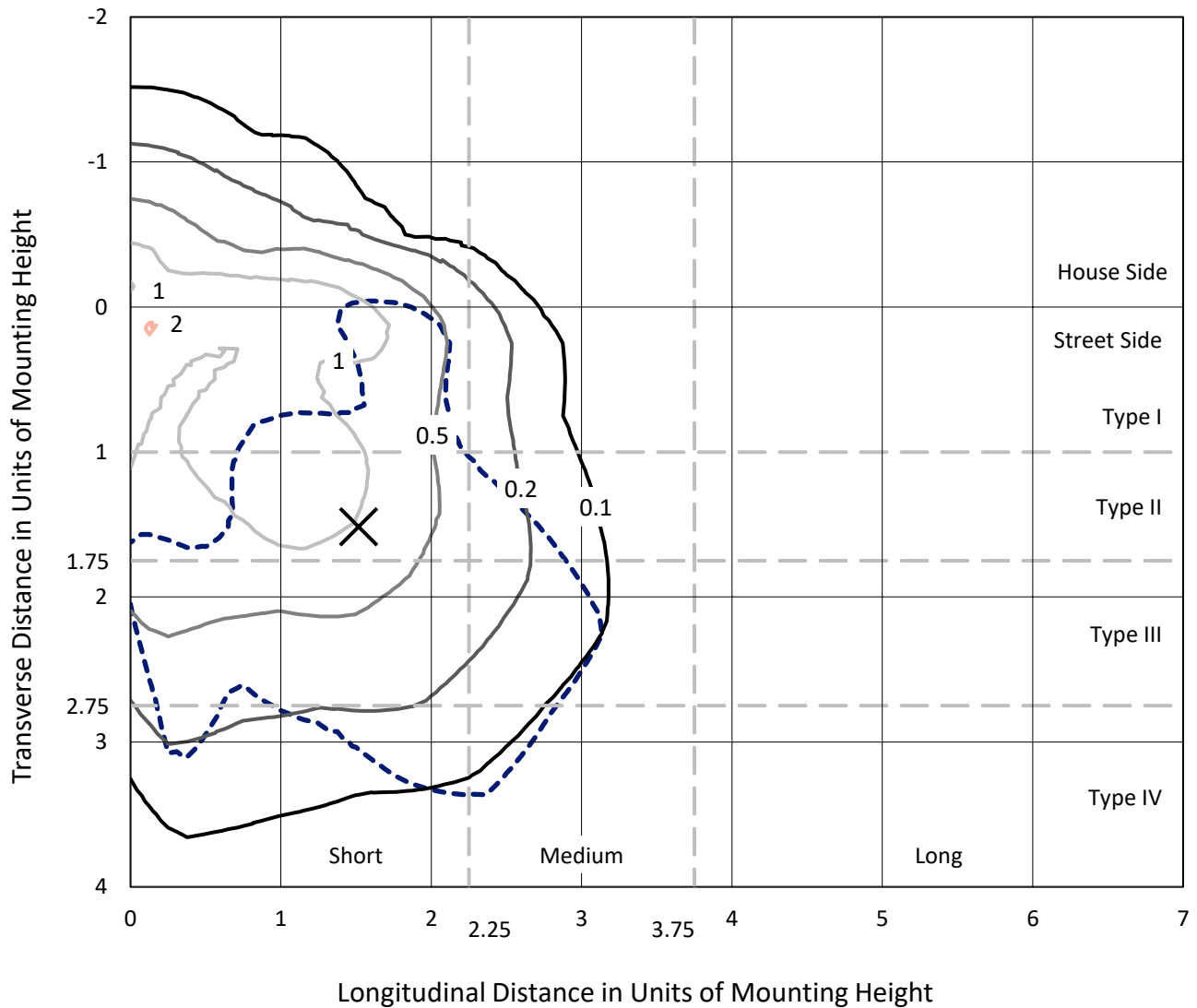
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

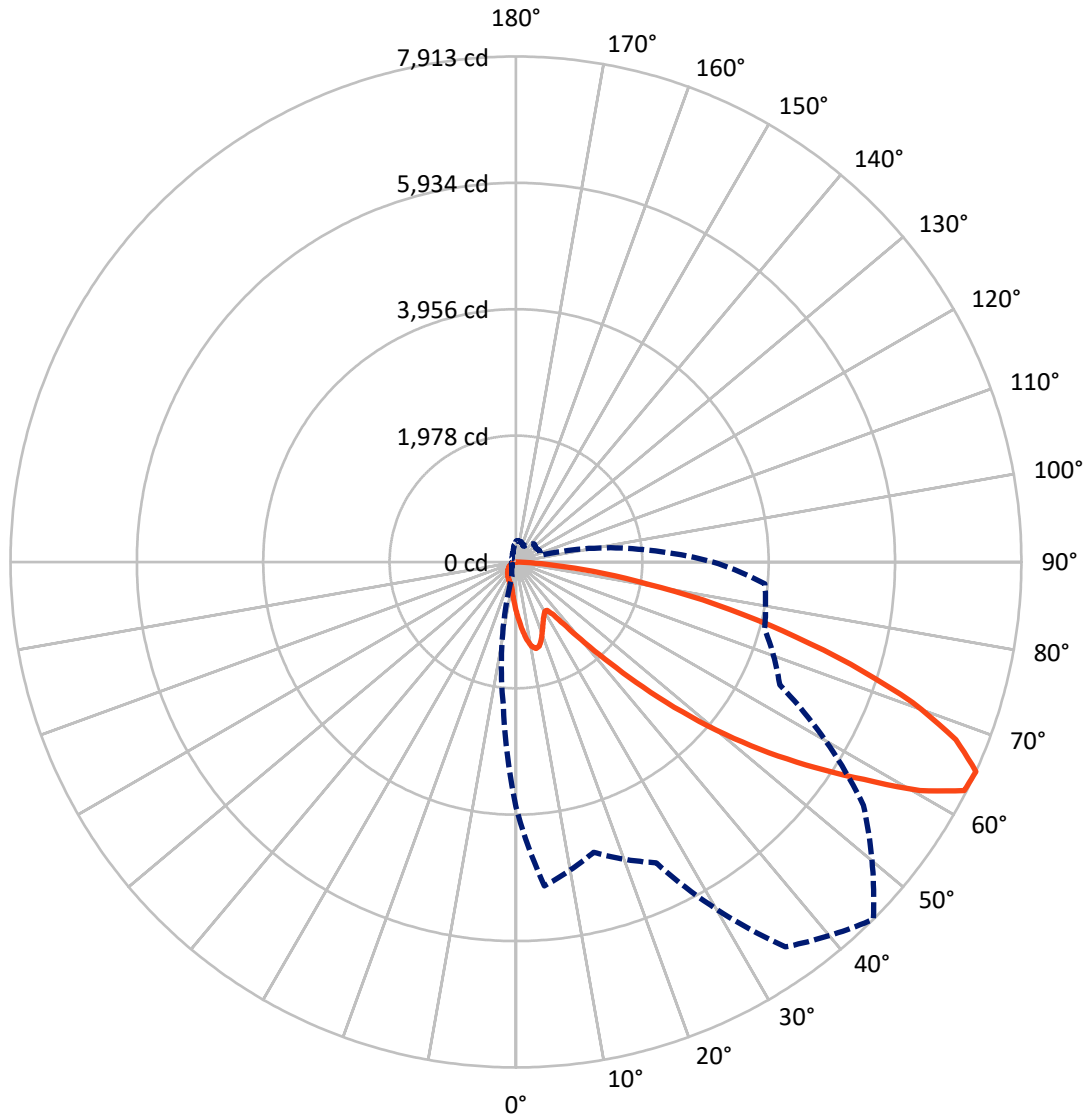
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1119.1	0.0	1119.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4510.9	0.0	4510.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	5630.0	0.0	5630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.4
10°-20°	230.1	4.1
20°-30°	339.0	6.0
30°-40°	435.5	7.7
40°-50°	704.3	12.5
50°-60°	1235.0	21.9
60°-70°	1545.3	27.4
70°-80°	903.0	16.0
80°-90°	161.1	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°	5630.0	100.0
0°-180°	5630.0	100.0

Coefficient of Utilization



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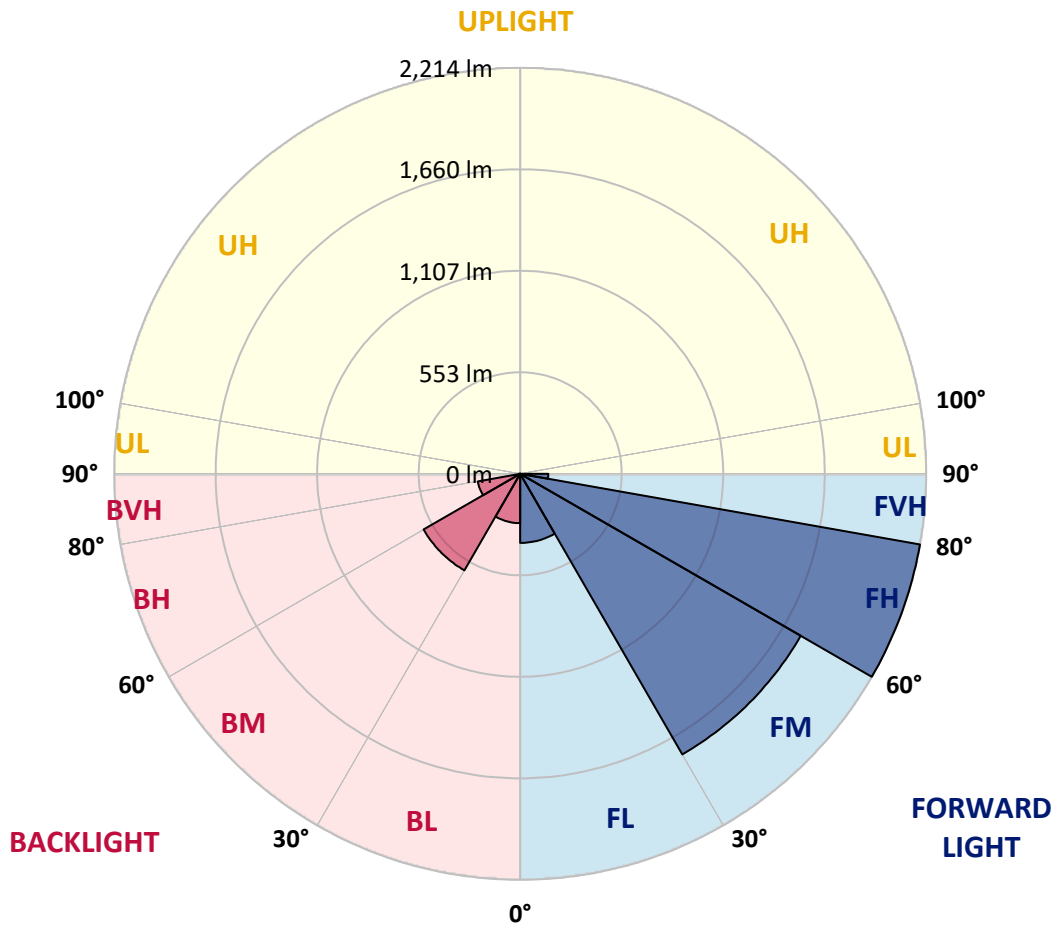
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.7	6.7			
FM (30°-60°)	1766.8	31.4			
FH (60°-80°)	2213.9	39.3			G2/5000
FVH (80°-90°)	153.6	2.7			G2/225
BL (0°-30°)	269.1	4.8	B1/500		
BM (30°-60°)	608.0	10.8	B1/1000		
BH (60°-80°)	234.5	4.2	B1/500		G1/500
BVH (80°-90°)	7.6	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°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
2.5°	873.4	880.0	894.8	902.5	914.5	915.3	915.3	904.8	904.5	883.1
5°	976.2	991.7	1026.6	1062.7	1070.5	1072.4	1068.5	1047.6	1032.1	990.6
7.5°	1078.2	1108.1	1161.2	1209.3	1224.8	1224.8	1215.5	1181.4	1149.6	1089.5
10°	1162.8	1200.4	1272.5	1326.4	1344.3	1340.4	1321.4	1278.3	1234.5	1161.6
12.5°	1218.6	1260.9	1340.0	1383.5	1401.7	1391.6	1369.9	1328.0	1281.8	1205.0
15°	1246.5	1290.8	1359.4	1382.3	1377.2	1366.8	1364.1	1343.9	1309.0	1237.2
17.5°	1258.6	1299.7	1347.4	1333.0	1290.4	1282.2	1309.4	1335.0	1326.4	1265.2
20°	1269.8	1304.3	1318.7	1255.1	1180.6	1173.2	1225.2	1298.1	1335.4	1291.1
22.5°	1285.3	1306.7	1277.2	1172.9	1092.6	1075.5	1132.9	1242.7	1338.1	1324.1
25°	1306.7	1312.5	1231.4	1094.9	1014.2	997.2	1050.7	1181.0	1333.4	1359.8
27.5°	1332.3	1320.2	1187.6	1029.7	951.8	935.9	989.4	1121.7	1320.2	1395.5
30°	1365.6	1330.3	1144.2	979.3	907.2	895.5	947.1	1070.5	1303.9	1440.9
32.5°	1399.4	1334.6	1103.8	949.8	897.1	901.4	943.6	1042.9	1286.1	1484.3
35°	1435.8	1348.2	1084.0	978.9	981.3	1018.5	1035.9	1068.5	1283.4	1543.2
37.5°	1485.5	1378.4	1107.7	1123.6	1204.3	1281.5	1267.1	1193.8	1314.8	1631.3
40°	1556.8	1431.5	1210.9	1369.9	1535.5	1660.8	1606.1	1421.5	1411.0	1758.1
42.5°	1660.8	1516.1	1393.9	1670.8	1951.7	2158.0	2011.4	1715.1	1579.3	1939.2
45°	1814.4	1653.0	1615.4	1988.5	2464.8	2789.8	2484.9	2028.1	1815.1	2213.4
47.5°	2027.3	1854.3	1822.9	2323.2	3088.4	3508.9	3010.1	2318.2	2083.5	2587.3
50°	2310.0	2125.4	2019.5	2689.3	3772.2	4241.9	3534.8	2598.2	2391.1	3044.2
52.5°	2683.1	2503.6	2248.7	3038.0	4475.4	4959.4	4061.9	2844.1	2772.7	3574.4
55°	3192.0	3072.5	2562.1	3370.8	5178.2	5681.2	4568.5	3076.0	3276.9	4204.3
57.5°	3823.4	3908.7	3014.0	3756.7	5810.0	6425.1	5077.3	3400.3	3931.6	4908.6
60°	4230.6	5020.7	3879.3	4327.2	6527.9	7266.3	5774.7	4016.9	4619.7	5161.1
62.5°	4132.1	5374.4	4915.6	5055.6	7188.0	7878.0	6458.1	4636.3	4749.2	4789.1
65°	3830.0	5089.0	4704.2	5197.2	7355.2	7912.5	6640.7	4556.4	4028.6	3909.9
67.5°	3414.2	4750.4	4201.9	4821.7	7053.0	7430.0	6300.6	4030.5	3113.3	2934.1
70°	2965.5	4375.7	3872.3	4400.5	6477.1	6589.2	5722.3	3544.9	2289.9	1981.5
72.5°	2539.6	3985.5	3646.5	3968.9	5708.7	5476.8	4969.5	3115.6	1667.4	1429.2
75°	2104.1	3410.0	3325.0	3456.1	4698.4	4314.0	4129.0	2579.6	1308.6	1034.0
77.5°	1623.5	2664.5	2860.0	2767.7	3307.2	3204.4	3200.5	1938.5	956.0	690.0
80°	1111.2	1857.0	2234.4	1952.4	2146.4	2094.0	2410.5	1300.5	693.5	415.4
82.5°	653.1	1130.6	1555.3	945.2	1186.8	1218.2	1435.4	632.6	408.0	95.8
85°	264.9	446.4	608.1	370.0	572.5	482.9	544.9	177.6	113.6	2.3
87.5°	66.7	142.7	100.1	41.5	66.3	60.9	48.1	21.7	4.7	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
880.8	2.5°	865.7	856.8	834.6	812.5	794.7	770.7	754.8	735.7	717.5	701.2
981.6	5°	957.2	927.7	887.4	850.6	812.9	776.5	740.4	702.4	667.5	646.2
1067.0	7.5°	1031.7	979.7	926.2	879.3	833.9	791.2	743.5	697.4	642.7	613.6
1132.1	10°	1087.1	1018.9	948.7	894.8	849.0	807.5	767.2	720.6	654.7	618.2
1171.7	12.5°	1123.6	1042.5	960.3	898.6	847.4	815.3	797.4	779.2	713.6	671.0
1200.8	15°	1148.8	1059.2	968.5	889.7	826.9	803.2	821.1	842.0	800.1	750.9
1231.0	17.5°	1176.3	1080.9	971.9	865.7	786.9	776.9	823.0	871.5	869.6	820.7
1259.7	20°	1205.4	1099.9	969.6	826.9	738.5	747.4	806.3	862.6	886.2	859.9
1292.7	22.5°	1235.3	1118.2	960.7	776.5	693.1	721.0	780.0	829.2	857.1	849.0
1333.0	25°	1272.9	1143.8	947.5	722.2	655.5	694.2	749.3	789.3	808.7	808.3
1376.5	27.5°	1317.9	1177.9	940.5	678.3	628.7	664.0	712.9	748.5	762.1	762.1
1430.4	30°	1370.3	1218.2	932.8	649.6	613.2	632.6	670.6	705.5	719.1	719.1
1489.3	32.5°	1428.4	1257.0	914.2	632.2	601.6	601.9	626.0	657.8	674.1	676.4
1563.0	35°	1498.3	1298.5	873.4	618.2	588.0	572.1	583.7	610.1	629.5	634.5
1668.1	37.5°	1589.8	1349.3	815.3	597.7	567.0	540.7	543.4	563.5	584.9	592.6
1813.2	40°	1712.7	1409.1	754.8	568.2	537.6	506.1	505.0	519.7	540.7	549.2
2009.4	42.5°	1875.2	1480.8	697.0	539.9	501.9	469.7	467.7	479.4	497.6	506.5
2268.5	45°	2083.1	1568.8	647.3	517.8	467.0	435.2	434.4	444.1	460.0	469.3
2600.1	47.5°	2372.1	1656.9	613.6	506.1	439.4	406.9	408.4	416.9	431.3	437.9
3029.5	50°	2748.7	1683.6	596.5	506.1	424.7	381.6	389.4	396.4	407.2	411.1
3544.2	52.5°	3110.2	1595.2	581.0	509.2	426.6	360.3	377.0	382.0	391.3	392.9
4021.2	55°	3287.4	1371.4	559.7	510.0	438.7	342.1	366.9	376.2	379.7	379.3
4298.1	57.5°	3226.5	1108.9	523.6	506.9	446.8	330.4	354.5	372.3	374.7	371.2
4245.4	60°	3012.8	816.4	496.1	484.0	443.7	327.0	335.5	363.8	367.3	362.6
3838.9	62.5°	2654.4	566.6	474.7	433.6	430.1	325.8	305.6	345.2	353.7	347.1
3085.7	65°	2089.7	400.3	408.8	380.1	400.6	319.6	274.6	322.7	334.3	324.2
2238.7	67.5°	1414.1	288.9	331.2	344.4	352.9	305.6	252.1	297.1	312.6	299.4
1436.6	70°	763.7	202.8	218.7	290.1	299.8	281.6	231.9	271.1	288.9	274.6
1021.2	72.5°	451.1	145.8	153.2	233.1	249.8	247.8	209.4	240.9	262.6	245.5
704.7	75°	248.6	98.5	109.4	169.1	202.8	191.2	180.0	204.0	226.1	209.4
441.8	77.5°	111.3	59.0	76.0	110.9	159.4	131.1	139.2	159.0	179.6	162.1
245.9	80°	43.1	33.0	50.4	60.5	116.0	72.5	89.6	117.1	131.9	117.9
53.5	82.5°	5.4	14.7	21.7	23.7	67.5	38.4	52.0	73.7	72.5	62.8
0.0	85°	0.0	2.7	3.1	1.6	29.1	14.0	17.1	24.0	22.5	17.1
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°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
698.1	2.5°	679.1	665.2	658.2	652.4	657.8	660.9	660.9	674.1	681.8	684.9
632.6	5°	598.4	572.5	555.0	544.5	548.0	551.9	556.2	572.9	584.1	591.5
587.2	7.5°	534.8	495.3	470.8	458.0	460.0	462.7	466.2	482.5	493.7	503.4
578.7	10°	503.4	447.6	415.4	399.9	397.2	395.6	394.4	404.1	412.7	420.4
613.6	12.5°	505.0	427.0	387.8	368.8	360.7	351.4	344.0	345.6	351.0	360.7
676.0	15°	524.8	420.4	373.5	349.8	336.3	325.4	316.5	314.5	316.5	318.0
747.4	17.5°	551.5	419.7	361.1	331.6	317.6	308.7	300.6	297.9	298.3	300.2
794.7	20°	572.9	417.3	347.1	314.2	301.7	294.0	285.8	283.1	283.9	284.3
799.4	22.5°	584.1	413.8	331.6	296.7	286.2	278.5	271.1	270.7	270.7	273.0
774.1	25°	584.1	406.5	317.6	280.0	270.7	263.7	254.8	256.4	257.1	260.2
735.0	27.5°	570.1	392.5	306.4	265.7	256.0	249.0	240.9	242.8	244.0	247.4
696.2	30°	552.3	375.8	293.6	252.1	240.9	235.8	228.8	229.6	231.2	235.0
660.1	32.5°	533.3	356.0	283.1	238.5	227.3	223.4	215.6	216.8	218.4	222.6
624.4	35°	512.3	332.8	270.7	226.1	214.9	211.8	202.8	203.6	205.9	210.6
586.0	37.5°	490.2	313.8	258.3	214.1	202.5	199.4	190.0	190.8	193.5	199.0
545.7	40°	468.5	295.2	245.1	201.3	189.7	186.9	176.9	177.6	180.7	186.6
505.0	42.5°	444.9	280.8	228.1	188.1	175.7	173.0	163.7	164.8	168.3	174.1
467.4	45°	416.5	271.5	209.1	175.7	161.7	159.0	150.5	152.8	156.7	162.5
435.2	47.5°	387.5	267.6	193.1	162.5	147.4	145.1	138.1	142.0	146.2	150.9
407.6	50°	359.5	262.6	176.9	150.1	135.0	132.6	128.0	133.0	137.3	141.6
387.8	52.5°	327.7	251.7	162.1	139.2	124.5	123.7	121.4	126.1	129.9	133.8
370.8	55°	294.8	234.3	149.3	129.5	115.6	116.4	115.2	119.1	122.2	125.7
355.3	57.5°	266.1	212.2	139.2	119.1	107.8	110.1	108.6	110.5	112.5	116.7
336.7	60°	237.0	185.8	128.0	106.7	100.1	102.8	98.5	98.1	98.9	100.1
309.1	62.5°	197.8	158.2	114.0	95.8	91.5	92.7	84.6	78.3	78.3	79.5
270.7	65°	159.0	132.6	98.5	83.4	79.9	79.1	67.5	59.0	58.2	61.7
226.1	67.5°	130.7	110.1	83.0	69.4	67.1	67.9	59.3	50.8	50.0	53.9
184.2	70°	108.2	88.8	66.3	53.5	55.9	59.3	50.8	42.7	41.5	45.0
149.7	72.5°	86.1	69.4	50.8	39.6	46.2	50.4	41.5	33.7	33.0	36.1
115.6	75°	63.2	49.6	34.5	28.7	35.7	39.6	30.3	24.0	22.9	25.6
77.2	77.5°	39.2	27.9	21.7	17.1	24.4	26.4	15.9	14.0	13.6	15.5
46.9	80°	18.2	12.0	10.5	5.8	8.9	10.5	6.6	7.4	7.8	9.3
23.7	82.5°	5.0	1.9	0.4	0.0	0.0	3.1	1.6	3.1	3.9	5.8
1.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9	3.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
706.7	2.5°	722.9	738.5	763.3	788.9	814.1	839.7	864.5	873.4
625.2	5°	655.9	691.5	740.8	793.5	847.8	902.9	953.3	976.2
541.0	7.5°	581.0	632.2	706.3	788.9	875.4	961.9	1041.4	1078.2
457.7	10°	501.1	565.9	650.4	762.1	886.2	1005.7	1115.1	1162.8
384.4	12.5°	425.1	493.0	586.4	720.2	877.7	1030.9	1162.4	1218.6
332.8	15°	361.5	421.6	522.4	670.6	850.2	1032.5	1184.9	1246.5
304.1	17.5°	313.8	352.9	457.3	615.5	814.1	1018.1	1192.6	1258.6
288.6	20°	290.1	301.0	372.7	544.9	780.4	1004.5	1200.4	1269.8
276.1	22.5°	276.1	278.9	304.8	453.8	740.0	1000.3	1214.0	1285.3
264.9	25°	264.9	265.7	272.7	359.5	678.3	997.5	1234.9	1306.7
253.3	27.5°	253.7	253.7	257.5	289.7	594.6	985.9	1262.1	1332.3
241.6	30°	242.4	242.4	245.1	256.4	496.4	963.0	1294.6	1365.6
230.0	32.5°	230.8	230.8	233.1	241.2	396.4	934.3	1324.5	1399.4
218.0	35°	219.1	218.4	221.5	230.0	315.3	897.9	1354.4	1435.8
205.9	37.5°	206.7	206.3	209.4	219.1	272.3	855.6	1376.9	1485.5
193.9	40°	193.5	193.5	197.0	207.5	259.9	802.5	1412.5	1556.8
181.5	42.5°	181.5	180.7	184.6	197.4	250.5	751.6	1476.5	1660.8
170.3	45°	169.9	168.3	171.8	187.7	234.3	733.8	1596.0	1814.4
159.4	47.5°	159.0	155.1	158.2	176.1	219.5	800.5	1791.5	2027.3
149.7	50°	150.1	142.7	145.4	164.4	208.3	945.2	2045.1	2310.0
140.8	52.5°	140.8	131.1	132.6	150.1	198.2	1082.9	2320.1	2683.1
131.9	55°	131.1	120.2	121.0	135.7	183.8	1103.4	2588.5	3192.0
121.8	57.5°	120.2	110.1	110.1	122.6	173.4	956.4	2794.8	3823.4
109.4	60°	108.2	101.6	99.7	112.1	182.7	674.9	2818.9	4230.6
93.5	62.5°	95.0	91.5	88.8	102.0	189.7	399.9	2625.3	4132.1
73.7	65°	79.9	79.1	77.2	112.1	159.8	236.2	2253.8	3830.0
62.8	67.5°	67.1	65.9	65.9	117.5	121.4	148.5	1760.8	3414.2
53.5	70°	57.8	53.5	53.5	88.8	73.7	102.8	1229.5	2965.5
44.2	72.5°	48.5	43.8	40.7	71.0	55.1	75.2	768.3	2539.6
33.7	75°	38.8	35.3	31.4	46.9	41.1	57.0	446.4	2104.1
21.3	77.5°	27.9	26.4	22.1	34.5	29.9	41.1	265.7	1623.5
13.2	80°	14.4	14.7	14.0	19.8	20.2	27.9	151.3	1111.2
8.5	82.5°	8.5	6.6	7.4	9.7	11.6	15.9	57.0	653.1
6.2	85°	5.4	3.5	3.5	4.7	5.8	6.2	17.5	264.9
3.1	87.5°	2.7	1.2	1.6	2.3	1.9	1.6	0.8	66.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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