

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: P946939

Luminaire Tested: **GALN-SB2B-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946939
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-SB2B-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA 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: 6228 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

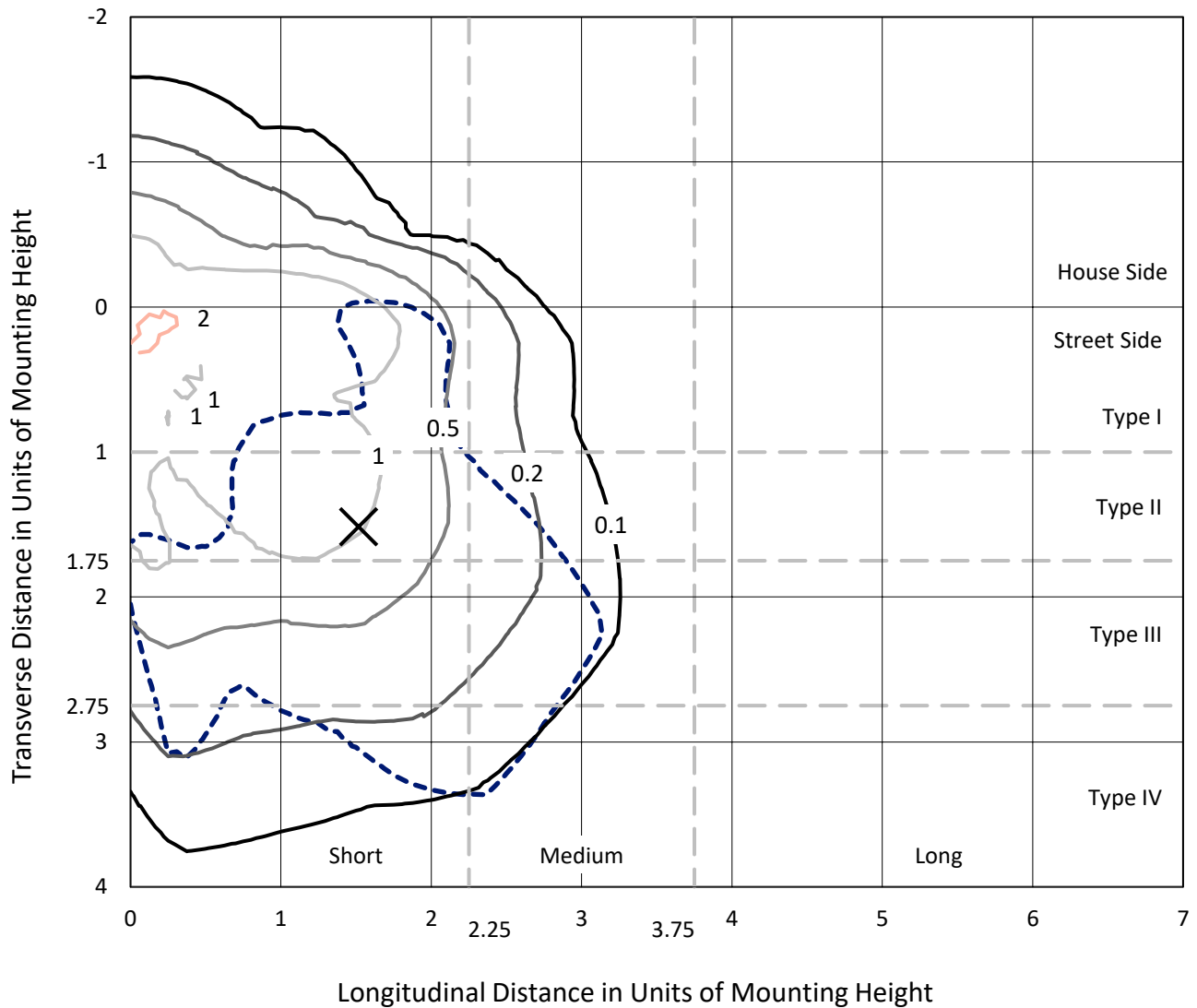
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

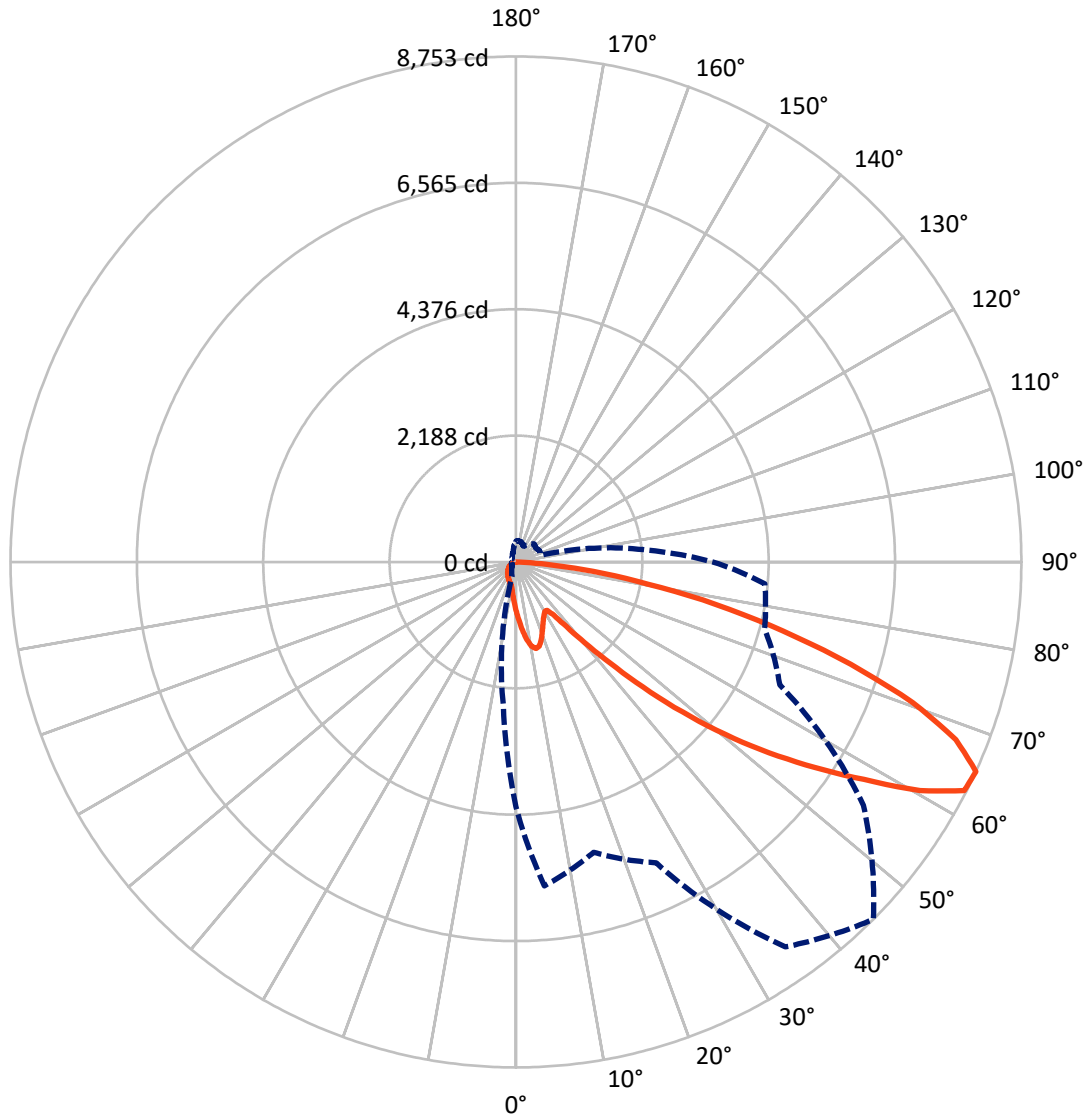
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1237.9	0.0	1237.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4990.1	0.0	4990.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	6228.0	0.0	6228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.4
10°-20°	254.5	4.1
20°-30°	375.0	6.0
30°-40°	481.7	7.7
40°-50°	779.1	12.5
50°-60°	1366.2	21.9
60°-70°	1709.5	27.4
70°-80°	998.9	16.0
80°-90°	178.2	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°	6228.0	100.0
0°-180°	6228.0	100.0

Coefficient of Utilization



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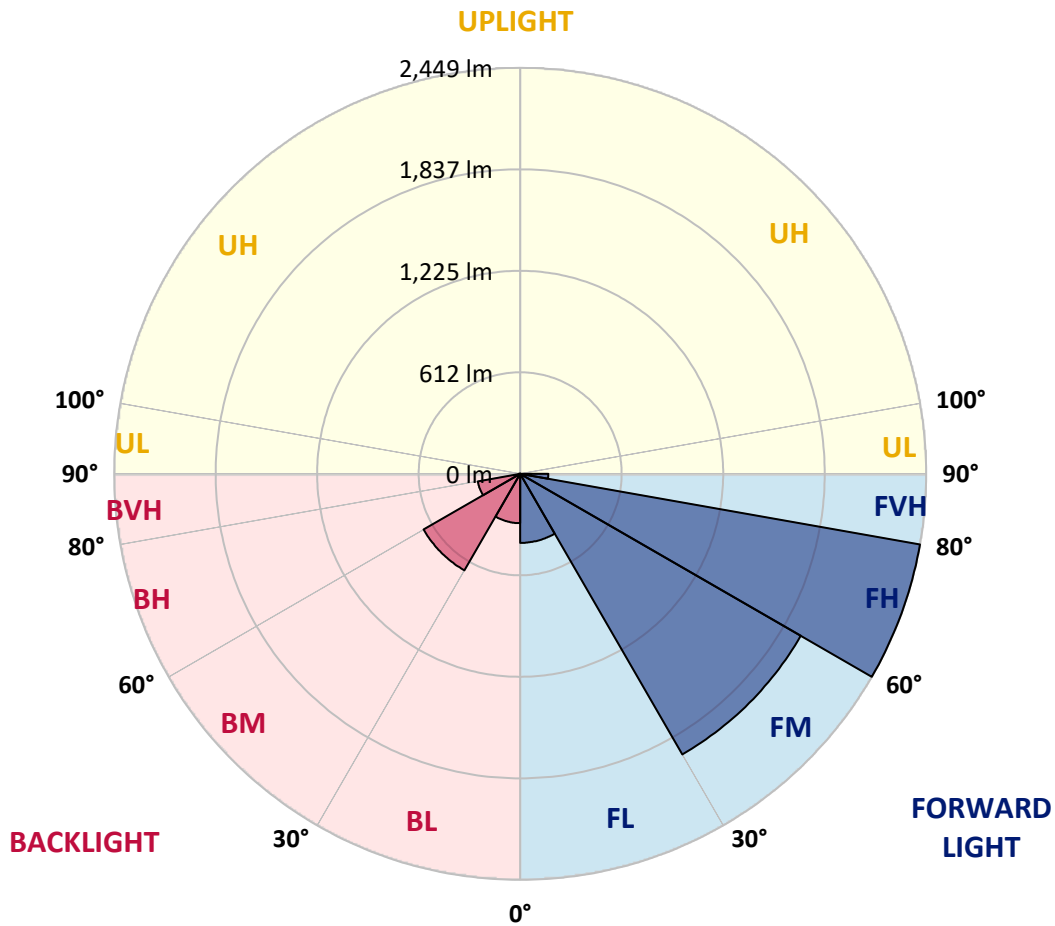
CATALOG NUMBER: GALN-SB2B-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.7	6.7			
FM (30°-60°)	1954.4	31.4			
FH (60°-80°)	2449.0	39.3			G2/5000
FVH (80°-90°)	169.9	2.7			G2/225
BL (0°-30°)	297.7	4.8	B1/500		
BM (30°-60°)	672.6	10.8	B1/1000		
BH (60°-80°)	259.4	4.2	B1/500		G1/500
BVH (80°-90°)	8.4	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°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
2.5°	966.2	973.5	989.8	998.4	1011.7	1012.5	1012.5	1001.0	1000.5	976.9
5°	1079.9	1097.1	1135.7	1175.6	1184.2	1186.3	1182.0	1158.8	1141.7	1095.8
7.5°	1192.7	1225.8	1284.6	1337.8	1354.9	1354.9	1344.6	1306.9	1271.7	1205.2
10°	1286.3	1327.9	1407.7	1467.3	1487.1	1482.8	1461.8	1414.1	1365.6	1285.0
12.5°	1348.1	1394.8	1482.3	1530.4	1550.6	1539.4	1515.4	1469.0	1418.0	1333.0
15°	1378.9	1427.9	1503.8	1529.1	1523.5	1512.0	1508.9	1486.6	1448.0	1368.7
17.5°	1392.2	1437.7	1490.5	1474.6	1427.4	1418.4	1448.5	1476.8	1467.3	1399.5
20°	1404.7	1442.9	1458.8	1388.4	1306.0	1297.9	1355.4	1436.0	1477.2	1428.3
22.5°	1421.9	1445.4	1412.8	1297.4	1208.6	1189.7	1253.2	1374.7	1480.2	1464.8
25°	1445.4	1451.9	1362.2	1211.2	1122.0	1103.1	1162.3	1306.4	1475.1	1504.2
27.5°	1473.8	1460.5	1313.7	1139.1	1052.9	1035.3	1094.5	1240.8	1460.5	1543.7
30°	1510.7	1471.6	1265.7	1083.3	1003.5	990.7	1047.7	1184.2	1442.4	1593.9
32.5°	1548.0	1476.3	1221.1	1050.7	992.4	997.1	1043.9	1153.7	1422.7	1642.0
35°	1588.3	1491.4	1199.2	1082.9	1085.5	1126.7	1146.0	1182.0	1419.7	1707.2
37.5°	1643.2	1524.8	1225.4	1242.9	1332.2	1417.6	1401.7	1320.6	1454.5	1804.6
40°	1722.2	1583.6	1339.5	1515.4	1698.6	1837.2	1776.7	1572.4	1560.9	1944.9
42.5°	1837.2	1677.1	1542.0	1848.3	2159.0	2387.2	2225.0	1897.2	1747.1	2145.2
45°	2007.1	1828.6	1787.0	2199.7	2726.6	3086.1	2748.9	2243.5	2007.9	2448.6
47.5°	2242.6	2051.3	2016.5	2570.0	3416.5	3881.6	3329.8	2564.4	2304.8	2862.2
50°	2555.4	2351.2	2234.0	2975.0	4172.9	4692.5	3910.3	2874.2	2645.1	3367.6
52.5°	2968.1	2769.5	2487.6	3360.7	4950.7	5486.2	4493.4	3146.2	3067.2	3954.1
55°	3531.0	3398.9	2834.3	3728.8	5728.2	6284.6	5053.7	3402.7	3625.0	4650.8
57.5°	4229.5	4323.9	3334.1	4155.7	6427.1	7107.5	5616.6	3761.4	4349.2	5430.0
60°	4680.0	5554.0	4291.3	4786.8	7221.2	8038.1	6388.0	4443.6	5110.3	5709.3
62.5°	4571.0	5945.3	5437.7	5592.6	7951.5	8714.7	7144.0	5128.8	5253.6	5297.8
65°	4236.8	5629.5	5203.9	5749.2	8136.4	8752.9	7346.1	5040.4	4456.5	4325.2
67.5°	3776.9	5254.9	4648.3	5333.9	7802.2	8219.2	6969.8	4458.6	3443.9	3245.7
70°	3280.5	4840.5	4283.6	4867.9	7165.0	7289.0	6330.1	3921.5	2533.1	2192.0
72.5°	2809.4	4408.9	4033.9	4390.4	6315.1	6058.5	5497.3	3446.5	1844.5	1581.0
75°	2327.6	3772.2	3678.2	3823.2	5197.4	4772.3	4567.6	2853.6	1447.6	1143.8
77.5°	1796.0	2947.5	3163.8	3061.7	3658.5	3544.8	3540.5	2144.4	1057.6	763.3
80°	1229.2	2054.3	2471.7	2159.8	2374.3	2316.4	2666.5	1438.6	767.1	459.5
82.5°	722.5	1250.7	1720.5	1045.6	1312.9	1347.6	1587.9	699.8	451.4	106.0
85°	293.0	493.8	672.7	409.3	633.3	534.2	602.8	196.5	125.7	2.6
87.5°	73.8	157.9	110.7	45.9	73.4	67.4	53.2	24.0	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°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
974.4	2.5°	957.6	947.8	923.3	898.8	879.1	852.5	834.9	813.9	793.7	775.7
1085.9	5°	1058.9	1026.3	981.7	940.9	899.3	858.9	819.0	777.0	738.4	714.8
1180.3	7.5°	1141.3	1083.8	1024.6	972.6	922.4	875.3	822.5	771.4	710.9	678.7
1252.4	10°	1202.6	1127.1	1049.4	989.8	939.2	893.3	848.6	797.2	724.2	683.9
1296.1	12.5°	1242.9	1153.3	1062.3	994.1	937.5	901.9	882.1	861.9	789.4	742.2
1328.3	15°	1270.8	1171.7	1071.3	984.2	914.7	888.6	908.3	931.5	885.1	830.6
1361.8	17.5°	1301.3	1195.7	1075.2	957.6	870.5	859.4	910.4	964.1	961.9	907.9
1393.5	20°	1333.5	1216.8	1072.6	914.7	816.9	826.8	892.0	954.2	980.4	951.2
1430.0	22.5°	1366.5	1236.9	1062.7	858.9	766.7	797.6	862.8	917.3	948.2	939.2
1474.6	25°	1408.1	1265.3	1048.2	798.9	725.1	768.0	828.9	873.1	894.6	894.1
1522.7	27.5°	1457.9	1303.0	1040.4	750.4	695.5	734.5	788.6	828.1	843.1	843.1
1582.3	30°	1515.8	1347.6	1031.9	718.6	678.3	699.8	741.8	780.4	795.4	795.4
1647.5	32.5°	1580.2	1390.5	1011.3	699.3	665.4	665.9	692.5	727.7	745.7	748.3
1729.0	35°	1657.4	1436.4	966.2	683.9	650.4	632.8	645.7	674.9	696.3	701.9
1845.3	37.5°	1758.7	1492.6	901.9	661.2	627.3	598.1	601.1	623.4	647.0	655.6
2005.8	40°	1894.7	1558.7	834.9	628.5	594.7	559.9	558.6	574.9	598.1	607.5
2222.9	42.5°	2074.4	1638.1	771.0	597.2	555.2	519.6	517.4	530.3	550.5	560.3
2509.5	45°	2304.4	1735.5	716.1	572.8	516.6	481.4	480.5	491.3	508.8	519.1
2876.3	47.5°	2624.0	1832.9	678.7	559.9	486.1	450.1	451.8	461.2	477.1	484.4
3351.3	50°	3040.6	1862.5	659.9	559.9	469.8	422.2	430.8	438.5	450.5	454.8
3920.6	52.5°	3440.5	1764.7	642.7	563.3	471.9	398.6	417.0	422.6	432.9	434.6
4448.3	55°	3636.6	1517.1	619.1	564.2	485.2	378.4	405.9	416.2	420.0	419.6
4754.7	57.5°	3569.2	1226.6	579.2	560.8	494.3	365.5	392.1	411.9	414.5	410.6
4696.3	60°	3332.8	903.1	548.7	535.4	490.8	361.7	371.1	402.4	406.3	401.2
4246.7	62.5°	2936.4	626.8	525.2	479.7	475.8	360.4	338.1	381.8	391.3	384.0
3413.5	65°	2311.7	442.8	452.2	420.5	443.2	353.5	303.8	357.0	369.8	358.7
2476.4	67.5°	1564.3	319.6	366.4	381.0	390.4	338.1	278.9	328.6	345.8	331.2
1589.2	70°	844.8	224.4	242.0	320.9	331.7	311.5	256.6	299.9	319.6	303.8
1129.7	72.5°	499.0	161.3	169.5	257.9	276.3	274.2	231.7	266.4	290.5	271.6
779.6	75°	275.0	109.0	121.0	187.1	224.4	211.5	199.1	225.7	250.1	231.7
488.7	77.5°	123.1	65.2	84.1	122.7	176.3	145.0	154.0	175.9	198.6	179.3
272.0	80°	47.6	36.5	55.8	66.9	128.3	80.2	99.1	129.6	145.9	130.4
59.2	82.5°	6.0	16.3	24.0	26.2	74.7	42.5	57.5	81.5	80.2	69.5
0.0	85°	0.0	3.0	3.4	1.7	32.2	15.4	18.9	26.6	24.9	18.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
772.3	2.5°	751.3	735.8	728.1	721.7	727.7	731.1	731.1	745.7	754.3	757.7
699.8	5°	662.0	633.3	614.0	602.4	606.2	610.5	615.2	633.7	646.1	654.3
649.6	7.5°	591.7	547.9	520.9	506.7	508.8	511.8	515.7	533.7	546.2	556.9
640.1	10°	556.9	495.1	459.5	442.3	439.3	437.6	436.3	447.1	456.5	465.1
678.7	12.5°	558.6	472.4	429.0	408.0	399.0	388.7	380.6	382.3	388.3	399.0
747.8	15°	580.5	465.1	413.2	387.0	372.0	360.0	350.1	348.0	350.1	351.8
826.8	17.5°	610.1	464.2	399.4	366.8	351.4	341.5	332.5	329.5	329.9	332.1
879.1	20°	633.7	461.7	384.0	347.5	333.8	325.2	316.2	313.2	314.1	314.5
884.3	22.5°	646.1	457.8	366.8	328.2	316.6	308.1	299.9	299.5	299.5	302.0
856.4	25°	646.1	449.6	351.4	309.8	299.5	291.8	281.9	283.6	284.5	287.9
813.0	27.5°	630.7	434.2	338.9	293.9	283.2	275.4	266.4	268.6	269.9	273.7
770.1	30°	611.0	415.7	324.8	278.9	266.4	260.9	253.1	254.0	255.7	260.0
730.2	32.5°	589.9	393.9	313.2	263.9	251.4	247.1	238.5	239.8	241.6	246.3
690.8	35°	566.8	368.1	299.5	250.1	237.7	234.3	224.4	225.2	227.8	233.0
648.3	37.5°	542.3	347.1	285.7	236.8	224.0	220.5	210.2	211.1	214.1	220.1
603.7	40°	518.3	326.5	271.2	222.7	209.8	206.8	195.6	196.5	199.9	206.4
558.6	42.5°	492.1	310.6	252.3	208.1	194.4	191.4	181.1	182.3	186.2	192.6
517.0	45°	460.8	300.3	231.3	194.4	178.9	175.9	166.5	169.0	173.3	179.8
481.4	47.5°	428.6	296.0	213.7	179.8	163.0	160.5	152.7	157.0	161.7	166.9
450.9	50°	397.7	290.5	195.6	166.0	149.3	146.7	141.6	147.2	151.9	156.6
429.0	52.5°	362.5	278.4	179.3	154.0	137.7	136.9	134.3	139.4	143.7	148.0
410.2	55°	326.1	259.1	165.2	143.3	127.9	128.7	127.4	131.7	135.1	139.0
393.0	57.5°	294.3	234.7	154.0	131.7	119.3	121.8	120.1	122.3	124.4	129.1
372.4	60°	262.1	205.5	141.6	118.0	110.7	113.7	109.0	108.5	109.4	110.7
341.9	62.5°	218.8	175.1	126.1	106.0	101.3	102.5	93.5	86.7	86.7	88.0
299.5	65°	175.9	146.7	109.0	92.2	88.4	87.5	74.7	65.2	64.4	68.2
250.1	67.5°	144.6	121.8	91.8	76.8	74.2	75.1	65.6	56.2	55.3	59.6
203.8	70°	119.7	98.3	73.4	59.2	61.8	65.6	56.2	47.2	45.9	49.8
165.6	72.5°	95.2	76.8	56.2	43.8	51.1	55.8	45.9	37.3	36.5	39.9
127.9	75°	69.9	54.9	38.2	31.7	39.5	43.8	33.5	26.6	25.3	28.3
85.4	77.5°	43.3	30.9	24.0	18.9	27.0	29.2	17.6	15.4	15.0	17.2
51.9	80°	20.2	13.3	11.6	6.4	9.9	11.6	7.3	8.2	8.6	10.3
26.2	82.5°	5.6	2.1	0.4	0.0	0.0	3.4	1.7	3.4	4.3	6.4
2.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	3.9
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°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
781.7	2.5°	799.7	816.9	844.4	872.7	900.6	928.9	956.3	966.2
691.6	5°	725.5	765.0	819.5	877.8	937.9	998.8	1054.6	1079.9
598.5	7.5°	642.7	699.3	781.3	872.7	968.4	1064.0	1152.0	1192.7
506.3	10°	554.3	626.0	719.5	843.1	980.4	1112.5	1233.5	1286.3
425.2	12.5°	470.2	545.3	648.7	796.7	970.9	1140.4	1285.8	1348.1
368.1	15°	399.9	466.4	577.9	741.8	940.5	1142.1	1310.7	1378.9
336.4	17.5°	347.1	390.4	505.8	680.9	900.6	1126.2	1319.3	1392.2
319.2	20°	320.9	332.9	412.3	602.8	863.2	1111.2	1327.9	1404.7
305.5	22.5°	305.5	308.5	337.2	502.0	818.6	1106.5	1342.9	1421.9
293.0	25°	293.0	293.9	301.6	397.7	750.4	1103.5	1366.1	1445.4
280.2	27.5°	280.6	280.6	284.9	320.5	657.7	1090.6	1396.1	1473.8
267.3	30°	268.2	268.2	271.2	283.6	549.2	1065.3	1432.1	1510.7
254.4	32.5°	255.3	255.3	257.9	266.9	438.5	1033.6	1465.2	1548.0
241.1	35°	242.4	241.6	245.0	254.4	348.8	993.2	1498.2	1588.3
227.8	37.5°	228.7	228.3	231.7	242.4	301.2	946.5	1523.1	1643.2
214.5	40°	214.1	214.1	218.0	229.5	287.5	887.7	1562.6	1722.2
200.8	42.5°	200.8	199.9	204.2	218.4	277.2	831.5	1633.4	1837.2
188.4	45°	187.9	186.2	190.1	207.7	259.1	811.8	1765.5	2007.1
176.3	47.5°	175.9	171.6	175.1	194.8	242.8	885.5	1981.8	2242.6
165.6	50°	166.0	157.9	160.9	181.9	230.4	1045.6	2262.3	2555.4
155.7	52.5°	155.7	145.0	146.7	166.0	219.2	1197.9	2566.5	2968.1
145.9	55°	145.0	133.0	133.9	150.2	203.4	1220.6	2863.4	3531.0
134.7	57.5°	133.0	121.8	121.8	135.6	191.8	1058.0	3091.7	4229.5
121.0	60°	119.7	112.4	110.3	124.0	202.1	746.5	3118.3	4680.0
103.4	62.5°	105.1	101.3	98.3	112.8	209.8	442.3	2904.2	4571.0
81.5	65°	88.4	87.5	85.4	124.0	176.8	261.3	2493.2	4236.8
69.5	67.5°	74.2	72.9	72.9	130.0	134.3	164.3	1947.9	3776.9
59.2	70°	63.9	59.2	59.2	98.3	81.5	113.7	1360.1	3280.5
48.9	72.5°	53.6	48.5	45.0	78.5	60.9	83.2	849.9	2809.4
37.3	75°	42.9	39.0	34.8	51.9	45.5	63.1	493.8	2327.6
23.6	77.5°	30.9	29.2	24.5	38.2	33.0	45.5	293.9	1796.0
14.6	80°	15.9	16.3	15.4	21.9	22.3	30.9	167.3	1229.2
9.4	82.5°	9.4	7.3	8.2	10.7	12.9	17.6	63.1	722.5
6.9	85°	6.0	3.9	3.9	5.1	6.4	6.9	19.3	293.0
3.4	87.5°	3.0	1.3	1.7	2.6	2.1	1.7	0.9	73.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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