

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: P945511

Luminaire Tested: **GALN-SB1B-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945511
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-SB1B-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA 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: 3115 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

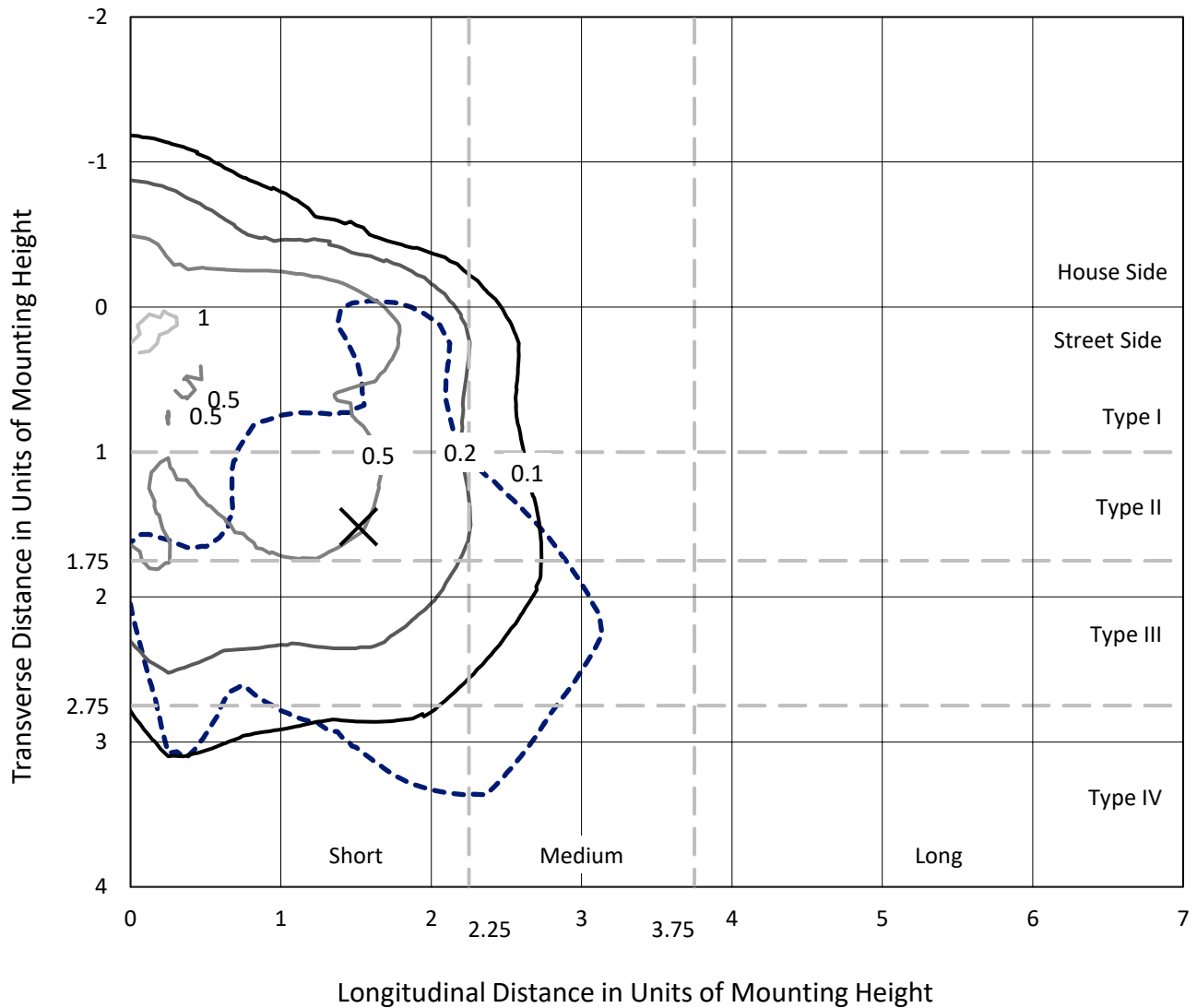
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

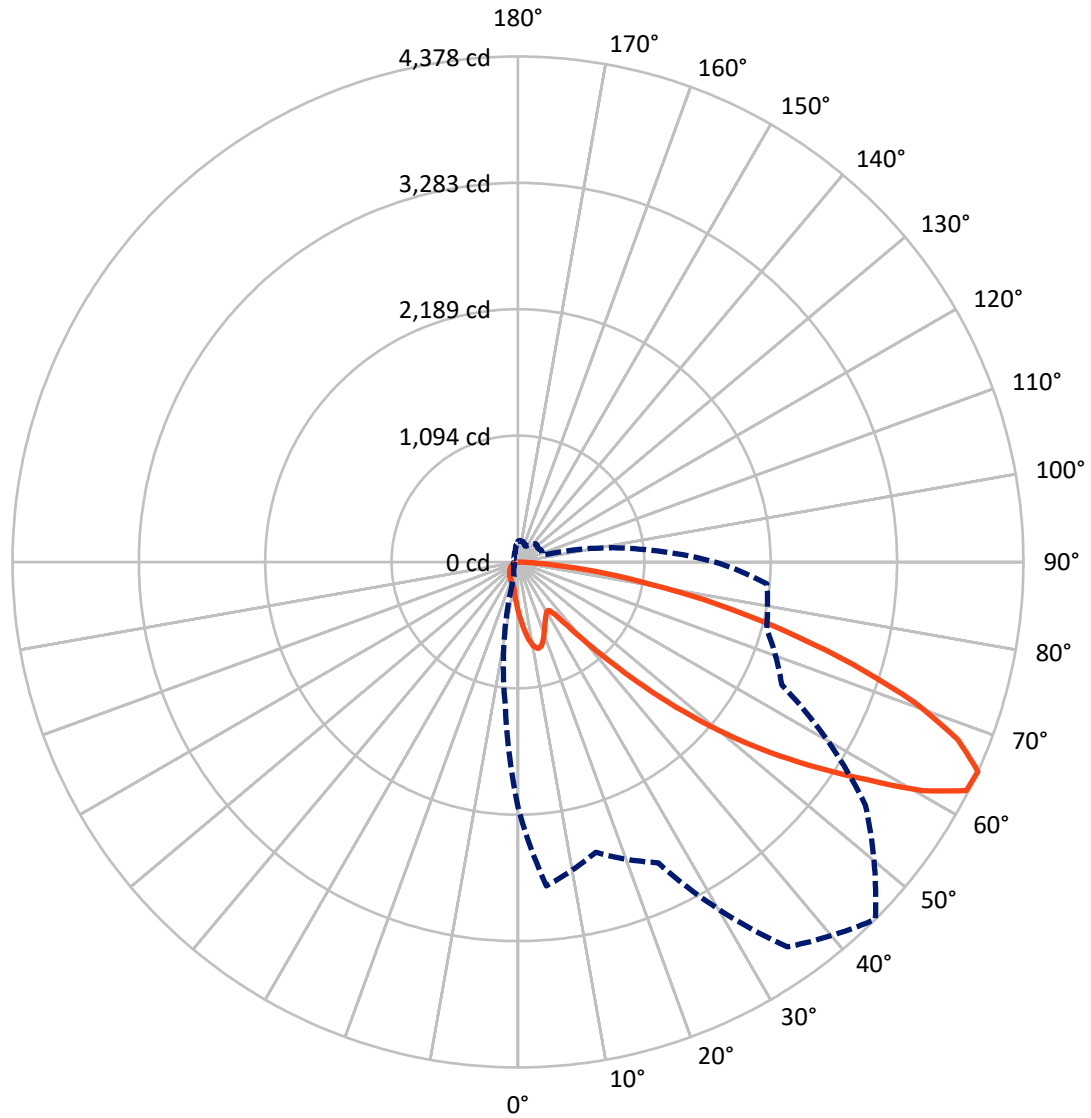
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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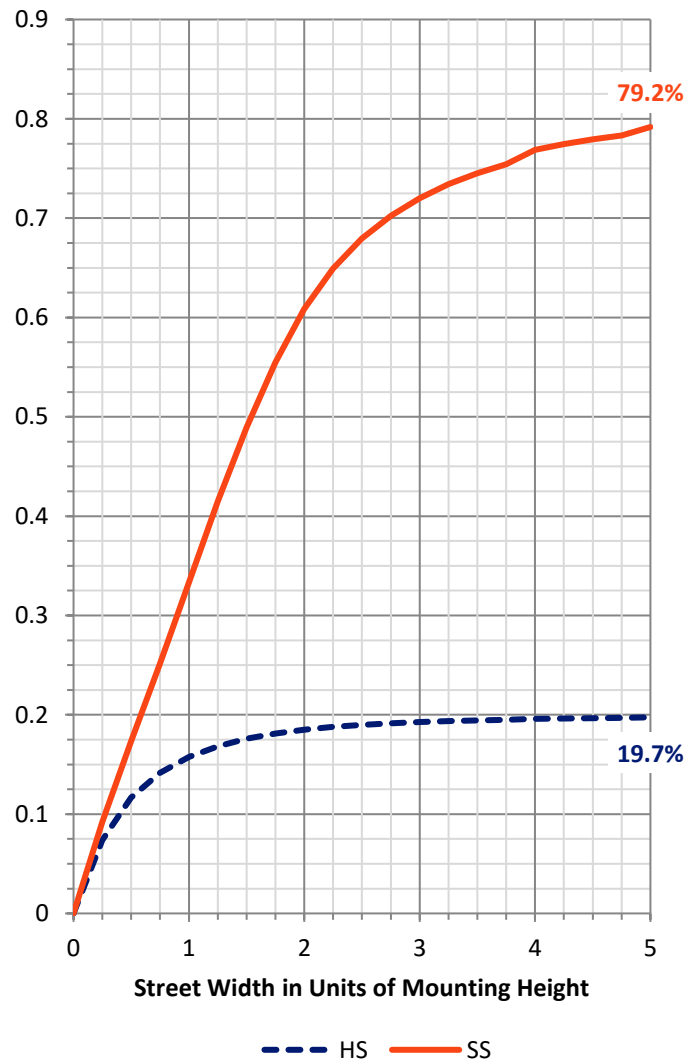
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	619.2	0.0	619.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2495.8	0.0	2495.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	3115.0	0.0	3115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.4
10°-20°	127.3	4.1
20°-30°	187.5	6.0
30°-40°	240.9	7.7
40°-50°	389.7	12.5
50°-60°	683.3	21.9
60°-70°	855.0	27.4
70°-80°	499.6	16.0
80°-90°	89.1	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°	3115.0	100.0
0°-180°	3115.0	100.0

Coefficient of Utilization



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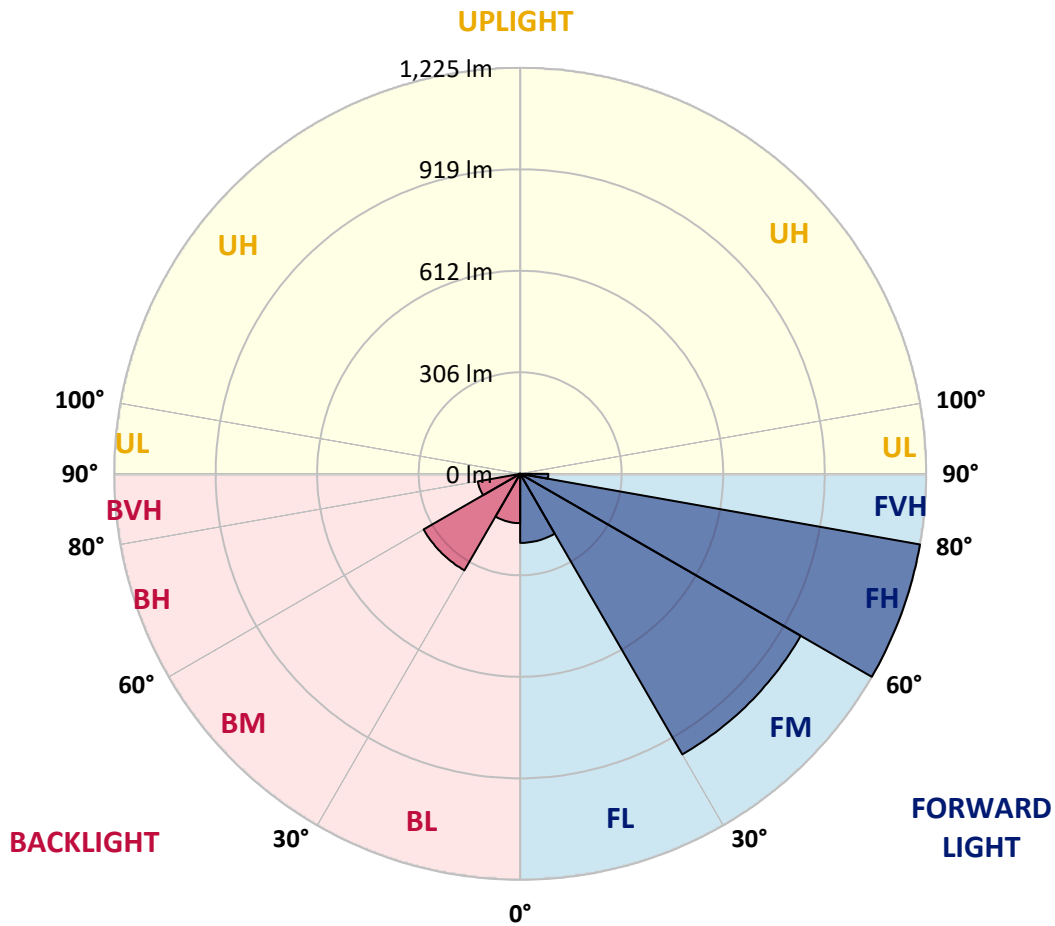
CATALOG NUMBER: GALN-SB1B-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.4	6.7			
FM (30°-60°)	977.5	31.4			
FH (60°-80°)	1224.9	39.3			G1/1800
FVH (80°-90°)	85.0	2.7			G1/100
BL (0°-30°)	148.9	4.8	B1/500		
BM (30°-60°)	336.4	10.8	B1/1000		
BH (60°-80°)	129.7	4.2	B1/500		G1/500
BVH (80°-90°)	4.2	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
2.5°	483.3	486.9	495.1	499.4	506.0	506.4	506.4	500.6	500.4	488.6
5°	540.1	548.7	568.0	588.0	592.3	593.3	591.2	579.6	571.0	548.1
7.5°	596.6	613.1	642.5	669.1	677.7	677.7	672.5	653.6	636.0	602.8
10°	643.3	664.2	704.1	733.9	743.8	741.6	731.1	707.3	683.0	642.7
12.5°	674.2	697.6	741.4	765.4	775.5	770.0	757.9	734.8	709.2	666.7
15°	689.7	714.2	752.1	764.8	762.0	756.2	754.7	743.6	724.2	684.5
17.5°	696.3	719.1	745.5	737.5	713.9	709.4	724.5	738.6	733.9	700.0
20°	702.6	721.7	729.6	694.4	653.2	649.1	677.9	718.2	738.8	714.4
22.5°	711.2	723.0	706.6	648.9	604.5	595.1	626.8	687.5	740.3	732.6
25°	723.0	726.2	681.3	605.8	561.2	551.7	581.3	653.4	737.8	752.4
27.5°	737.1	730.5	657.1	569.7	526.6	517.8	547.4	620.6	730.5	772.1
30°	755.6	736.0	633.0	541.8	501.9	495.5	524.0	592.3	721.5	797.2
32.5°	774.2	738.4	610.7	525.5	496.3	498.7	522.1	577.0	711.6	821.2
35°	794.4	745.9	599.8	541.6	542.9	563.5	573.2	591.2	710.1	853.9
37.5°	821.9	762.7	612.9	621.7	666.3	709.0	701.1	660.5	727.5	902.6
40°	861.4	792.1	670.0	757.9	849.6	918.9	888.6	786.5	780.7	972.7
42.5°	918.9	838.8	771.2	924.5	1079.8	1194.0	1112.9	948.9	873.8	1073.0
45°	1003.9	914.6	893.8	1100.2	1363.7	1543.6	1374.9	1122.1	1004.3	1224.7
47.5°	1121.7	1026.0	1008.6	1285.4	1708.8	1941.4	1665.4	1282.6	1152.8	1431.5
50°	1278.1	1176.0	1117.4	1488.0	2087.1	2347.0	1955.8	1437.5	1323.0	1684.3
52.5°	1484.5	1385.2	1244.2	1680.9	2476.2	2744.0	2247.4	1573.6	1534.1	1977.7
55°	1766.1	1700.0	1417.6	1865.0	2865.0	3143.3	2527.7	1701.9	1813.1	2326.2
57.5°	2115.4	2162.6	1667.6	2078.5	3214.6	3554.9	2809.2	1881.3	2175.3	2715.9
60°	2340.8	2777.9	2146.3	2394.2	3611.8	4020.4	3195.0	2222.5	2556.0	2855.6
62.5°	2286.3	2973.6	2719.7	2797.2	3977.0	4358.8	3573.2	2565.2	2627.7	2649.8
65°	2119.1	2815.6	2602.8	2875.5	4069.5	4377.9	3674.2	2521.0	2229.0	2163.3
67.5°	1889.0	2628.3	2324.9	2667.8	3902.3	4110.9	3486.0	2230.0	1722.5	1623.4
70°	1640.8	2421.0	2142.5	2434.7	3583.7	3645.7	3166.1	1961.4	1266.9	1096.3
72.5°	1405.1	2205.1	2017.6	2195.9	3158.6	3030.2	2749.6	1723.8	922.5	790.8
75°	1164.2	1886.7	1839.7	1912.2	2599.6	2386.9	2284.5	1427.2	724.0	572.1
77.5°	898.3	1474.2	1582.4	1531.3	1829.8	1773.0	1770.8	1072.5	529.0	381.8
80°	614.8	1027.5	1236.3	1080.3	1187.5	1158.6	1333.7	719.5	383.7	229.8
82.5°	361.4	625.5	860.5	523.0	656.6	674.0	794.2	350.0	225.7	53.0
85°	146.6	247.0	336.5	204.7	316.7	267.2	301.5	98.3	62.9	1.3
87.5°	36.9	79.0	55.4	23.0	36.7	33.7	26.6	12.0	2.6	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
431.3	0°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
487.3	2.5°	479.0	474.0	461.8	449.6	439.7	426.4	417.6	407.1	397.0	388.0
543.1	5°	529.6	513.3	491.0	470.6	449.8	429.6	409.7	388.6	369.3	357.5
590.3	7.5°	570.8	542.1	512.4	486.5	461.4	437.8	411.4	385.8	355.6	339.5
626.4	10°	601.5	563.7	524.9	495.1	469.7	446.8	424.5	398.7	362.2	342.1
648.3	12.5°	621.7	576.8	531.3	497.2	468.9	451.1	441.2	431.1	394.8	371.2
664.4	15°	635.6	586.0	535.8	492.3	457.5	444.4	454.3	465.9	442.7	415.4
681.1	17.5°	650.9	598.1	537.8	479.0	435.4	429.8	455.4	482.2	481.1	454.1
697.0	20°	666.9	608.6	536.5	457.5	408.6	413.5	446.1	477.3	490.3	475.7
715.2	22.5°	683.5	618.7	531.5	429.6	383.5	398.9	431.5	458.8	474.2	469.7
737.5	25°	704.3	632.8	524.2	399.6	362.7	384.1	414.6	436.7	447.4	447.2
761.6	27.5°	729.2	651.7	520.4	375.3	347.9	367.4	394.4	414.2	421.7	421.7
791.4	30°	758.1	674.0	516.1	359.4	339.3	350.0	371.0	390.3	397.9	397.9
824.0	32.5°	790.3	695.5	505.8	349.8	332.8	333.0	346.3	363.9	373.0	374.2
864.8	35°	829.0	718.5	483.3	342.1	325.3	316.5	323.0	337.6	348.3	351.1
923.0	37.5°	879.6	746.6	451.1	330.7	313.7	299.1	300.6	311.8	323.6	327.9
1003.2	40°	947.6	779.6	417.6	314.4	297.4	280.0	279.4	287.6	299.1	303.9
1111.8	42.5°	1037.5	819.3	385.6	298.7	277.7	259.9	258.8	265.2	275.3	280.3
1255.1	45°	1152.6	868.0	358.2	286.5	258.4	240.8	240.3	245.7	254.5	259.7
1438.6	47.5°	1312.4	916.7	339.5	280.0	243.1	225.1	226.0	230.7	238.6	242.3
1676.2	50°	1520.8	931.5	330.0	280.0	235.0	211.2	215.4	219.3	225.3	227.5
1960.9	52.5°	1720.8	882.6	321.5	281.8	236.1	199.4	208.6	211.4	216.5	217.4
2224.9	55°	1818.9	758.8	309.7	282.2	242.7	189.3	203.0	208.2	210.1	209.9
2378.1	57.5°	1785.2	613.5	289.7	280.5	247.2	182.8	196.1	206.0	207.3	205.4
2348.9	60°	1666.9	451.7	274.5	267.8	245.5	180.9	185.6	201.3	203.2	200.6
2124.0	62.5°	1468.7	313.5	262.7	239.9	238.0	180.3	169.1	191.0	195.7	192.1
1707.3	65°	1156.2	221.5	226.2	210.3	221.7	176.8	151.9	178.5	185.0	179.4
1238.6	67.5°	782.4	159.9	183.3	190.6	195.3	169.1	139.5	164.4	173.0	165.7
794.8	70°	422.5	112.2	121.0	160.5	165.9	155.8	128.3	150.0	159.9	151.9
565.0	72.5°	249.6	80.7	84.8	129.0	138.2	137.1	115.9	133.3	145.3	135.8
389.9	75°	137.6	54.5	60.5	93.6	112.2	105.8	99.6	112.9	125.1	115.9
244.4	77.5°	61.6	32.6	42.1	61.4	88.2	72.5	77.0	88.0	99.4	89.7
136.1	80°	23.8	18.2	27.9	33.5	64.2	40.1	49.6	64.8	73.0	65.2
29.6	82.5°	3.0	8.2	12.0	13.1	37.3	21.2	28.8	40.8	40.1	34.8
0.0	85°	0.0	1.5	1.7	0.9	16.1	7.7	9.4	13.3	12.4	9.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°
431.3	0°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
386.3	2.5°	375.7	368.0	364.2	360.9	363.9	365.7	365.7	373.0	377.3	379.0
350.0	5°	331.1	316.7	307.1	301.3	303.2	305.4	307.7	317.0	323.2	327.3
324.9	7.5°	295.9	274.0	260.5	253.4	254.5	256.0	257.9	267.0	273.2	278.5
320.2	10°	278.5	247.6	229.8	221.2	219.7	218.9	218.2	223.6	228.3	232.6
339.5	12.5°	279.4	236.3	214.6	204.1	199.6	194.4	190.3	191.2	194.2	199.6
374.0	15°	290.3	232.6	206.7	193.6	186.1	180.0	175.1	174.0	175.1	176.0
413.5	17.5°	305.1	232.2	199.8	183.5	175.7	170.8	166.3	164.8	165.0	166.1
439.7	20°	317.0	230.9	192.1	173.8	167.0	162.7	158.2	156.7	157.1	157.3
442.3	22.5°	323.2	229.0	183.5	164.2	158.4	154.1	150.0	149.8	149.8	151.1
428.3	25°	323.2	224.9	175.7	154.9	149.8	145.9	141.0	141.8	142.3	144.0
406.6	27.5°	315.4	217.2	169.5	147.0	141.6	137.8	133.3	134.3	135.0	136.9
385.2	30°	305.6	207.9	162.4	139.5	133.3	130.5	126.6	127.0	127.9	130.0
365.2	32.5°	295.1	197.0	156.7	132.0	125.8	123.6	119.3	120.0	120.8	123.2
345.5	35°	283.5	184.1	149.8	125.1	118.9	117.2	112.2	112.7	113.9	116.5
324.2	37.5°	271.2	173.6	142.9	118.5	112.0	110.3	105.1	105.6	107.1	110.1
301.9	40°	259.2	163.3	135.6	111.4	104.9	103.4	97.9	98.3	100.0	103.2
279.4	42.5°	246.1	155.4	126.2	104.1	97.2	95.7	90.6	91.2	93.1	96.4
258.6	45°	230.5	150.2	115.7	97.2	89.5	88.0	83.3	84.5	86.7	89.9
240.8	47.5°	214.4	148.1	106.9	89.9	81.5	80.3	76.4	78.5	80.9	83.5
225.5	50°	198.9	145.3	97.9	83.0	74.7	73.4	70.8	73.6	76.0	78.3
214.6	52.5°	181.3	139.3	89.7	77.0	68.9	68.5	67.2	69.7	71.9	74.0
205.1	55°	163.1	129.6	82.6	71.7	63.9	64.4	63.7	65.9	67.6	69.5
196.6	57.5°	147.2	117.4	77.0	65.9	59.7	60.9	60.1	61.2	62.2	64.6
186.3	60°	131.1	102.8	70.8	59.0	55.4	56.9	54.5	54.3	54.7	55.4
171.0	62.5°	109.4	87.6	63.1	53.0	50.6	51.3	46.8	43.3	43.3	44.0
149.8	65°	88.0	73.4	54.5	46.1	44.2	43.8	37.3	32.6	32.2	34.1
125.1	67.5°	72.3	60.9	45.9	38.4	37.1	37.6	32.8	28.1	27.7	29.8
101.9	70°	59.9	49.1	36.7	29.6	30.9	32.8	28.1	23.6	23.0	24.9
82.8	72.5°	47.6	38.4	28.1	21.9	25.5	27.9	23.0	18.7	18.2	20.0
63.9	75°	35.0	27.5	19.1	15.9	19.7	21.9	16.7	13.3	12.7	14.2
42.7	77.5°	21.7	15.5	12.0	9.4	13.5	14.6	8.8	7.7	7.5	8.6
26.0	80°	10.1	6.7	5.8	3.2	4.9	5.8	3.6	4.1	4.3	5.2
13.1	82.5°	2.8	1.1	0.2	0.0	0.0	1.7	0.9	1.7	2.1	3.2
1.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°
431.3	0°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
391.0	2.5°	400.0	408.6	422.3	436.5	450.4	464.6	478.3	483.3
345.9	5°	362.9	382.6	409.9	439.1	469.1	499.6	527.5	540.1
299.4	7.5°	321.5	349.8	390.8	436.5	484.3	532.2	576.2	596.6
253.2	10°	277.3	313.1	359.9	421.7	490.3	556.4	616.9	643.3
212.7	12.5°	235.2	272.7	324.5	398.5	485.6	570.4	643.1	674.2
184.1	15°	200.0	233.3	289.1	371.0	470.4	571.2	655.6	689.7
168.2	17.5°	173.6	195.3	253.0	340.6	450.4	563.3	659.9	696.3
159.7	20°	160.5	166.5	206.2	301.5	431.8	555.8	664.2	702.6
152.8	22.5°	152.8	154.3	168.7	251.1	409.4	553.4	671.7	711.2
146.6	25°	146.6	147.0	150.9	198.9	375.3	551.9	683.3	723.0
140.1	27.5°	140.3	140.3	142.5	160.3	329.0	545.5	698.3	737.1
133.7	30°	134.1	134.1	135.6	141.8	274.7	532.8	716.3	755.6
127.3	32.5°	127.7	127.7	129.0	133.5	219.3	516.9	732.8	774.2
120.6	35°	121.2	120.8	122.5	127.3	174.5	496.8	749.4	794.4
113.9	37.5°	114.4	114.2	115.9	121.2	150.6	473.4	761.8	821.9
107.3	40°	107.1	107.1	109.0	114.8	143.8	444.0	781.5	861.4
100.4	42.5°	100.4	100.0	102.1	109.2	138.6	415.9	816.9	918.9
94.2	45°	94.0	93.1	95.1	103.9	129.6	406.0	883.0	1003.9
88.2	47.5°	88.0	85.8	87.6	97.4	121.5	442.9	991.2	1121.7
82.8	50°	83.0	79.0	80.5	91.0	115.2	523.0	1131.5	1278.1
77.9	52.5°	77.9	72.5	73.4	83.0	109.7	599.1	1283.7	1484.5
73.0	55°	72.5	66.5	67.0	75.1	101.7	610.5	1432.2	1766.1
67.4	57.5°	66.5	60.9	60.9	67.8	95.9	529.2	1546.3	2115.4
60.5	60°	59.9	56.2	55.1	62.0	101.1	373.4	1559.6	2340.8
51.7	62.5°	52.6	50.6	49.1	56.4	104.9	221.2	1452.6	2286.3
40.8	65°	44.2	43.8	42.7	62.0	88.4	130.7	1247.0	2119.1
34.8	67.5°	37.1	36.5	36.5	65.0	67.2	82.2	974.2	1889.0
29.6	70°	32.0	29.6	29.6	49.1	40.8	56.9	680.3	1640.8
24.5	72.5°	26.8	24.2	22.5	39.3	30.5	41.6	425.1	1405.1
18.7	75°	21.5	19.5	17.4	26.0	22.7	31.5	247.0	1164.2
11.8	77.5°	15.5	14.6	12.2	19.1	16.5	22.7	147.0	898.3
7.3	80°	7.9	8.2	7.7	10.9	11.2	15.5	83.7	614.8
4.7	82.5°	4.7	3.6	4.1	5.4	6.4	8.8	31.5	361.4
3.4	85°	3.0	1.9	1.9	2.6	3.2	3.4	9.7	146.6
1.7	87.5°	1.5	0.6	0.9	1.3	1.1	0.9	0.4	36.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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