

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: P945154

Luminaire Tested: **GALN-SB1A-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945154
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-SB1A-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA 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: 2482 lumens
Efficiency: N/A
Efficacy: 80.3 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

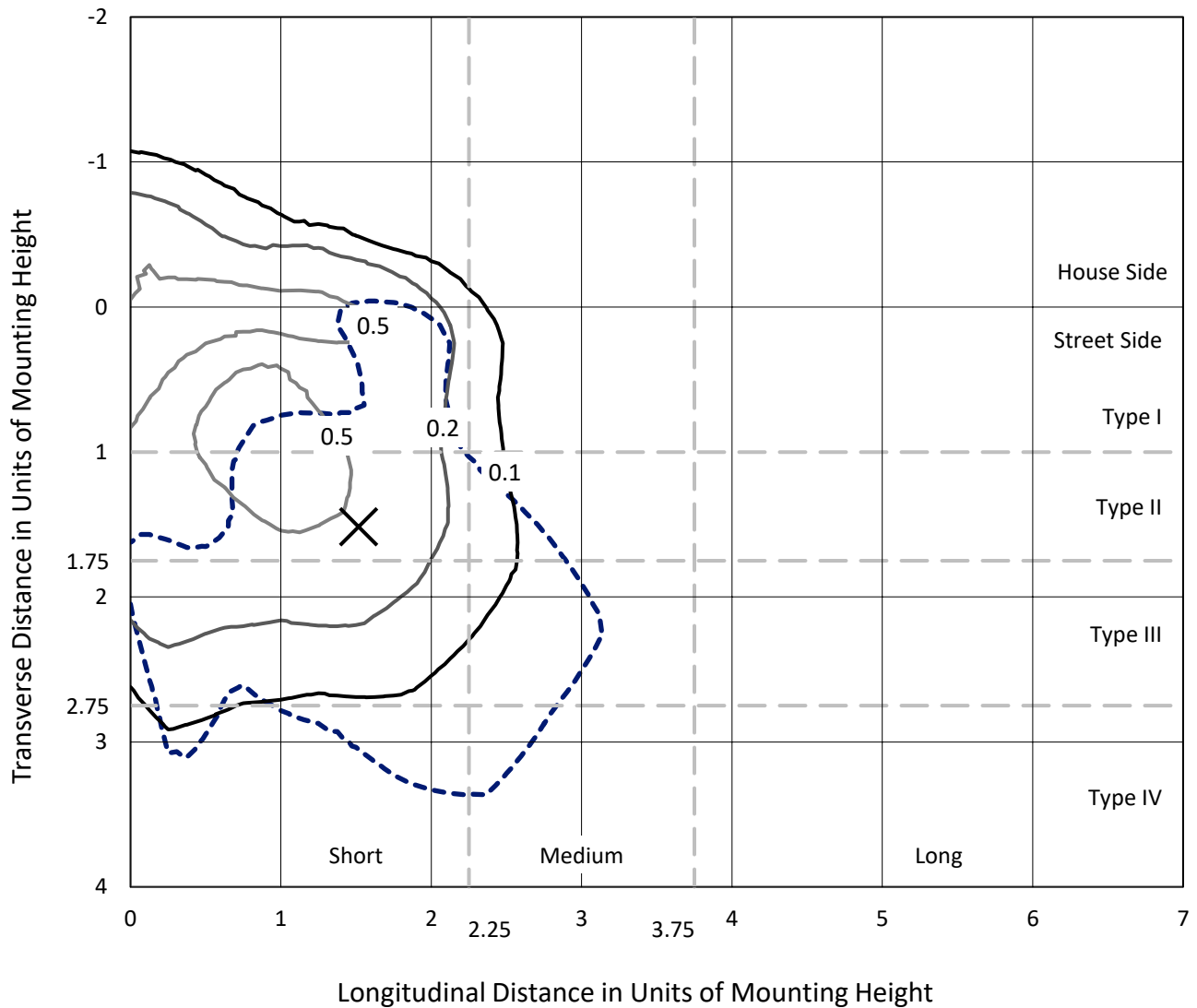
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

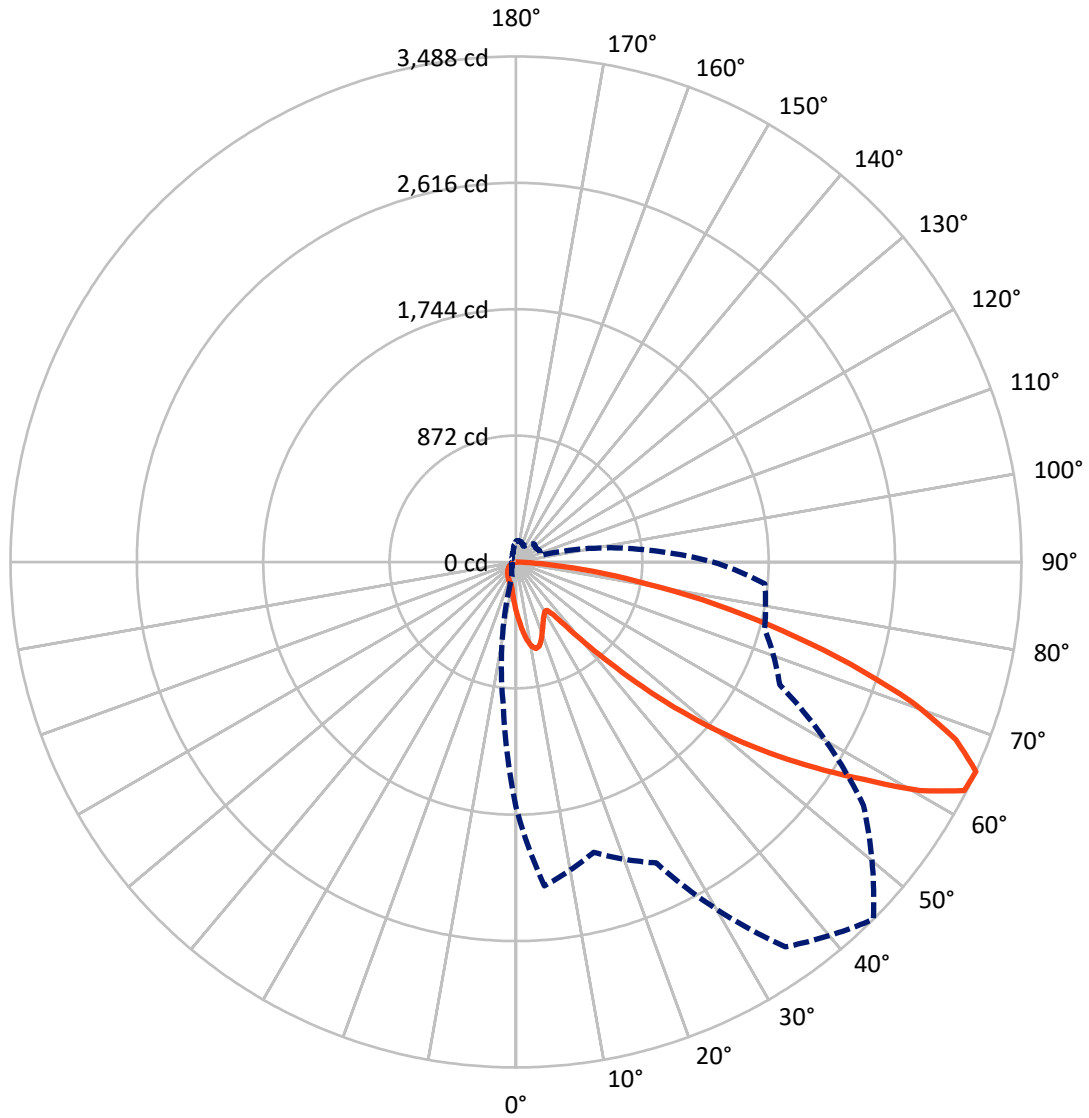
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	493.3	0.0	493.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	1988.7	0.0	1988.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	2482.0	0.0	2482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	1.4
10°-20°	101.4	4.1
20°-30°	149.4	6.0
30°-40°	192.0	7.7
40°-50°	310.5	12.5
50°-60°	544.5	21.9
60°-70°	681.3	27.4
70°-80°	398.1	16.0
80°-90°	71.0	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°	2482.0	100.0
0°-180°	2482.0	100.0

Coefficient of Utilization



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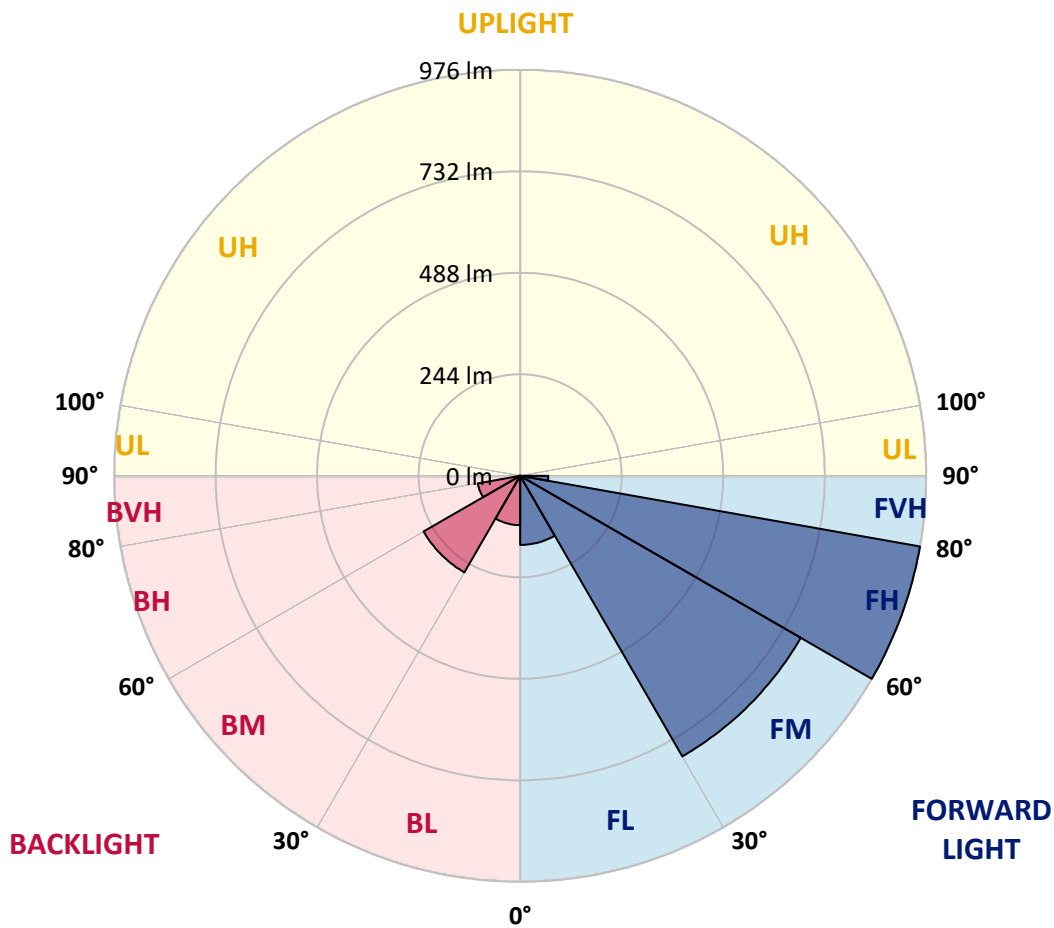
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.1	6.7			
FM (30°-60°)	778.9	31.4			
FH (60°-80°)	976.0	39.3			G1/1800
FVH (80°-90°)	67.7	2.7			G1/100
BL (0°-30°)	118.6	4.8	B1/500		
BM (30°-60°)	268.0	10.8	B1/1000		
BH (60°-80°)	103.4	4.2	B0/110		G0/110
BVH (80°-90°)	3.3	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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	385.1	388.0	394.5	397.9	403.2	403.5	403.5	398.9	398.7	389.3
5°	430.4	437.2	452.6	468.5	471.9	472.8	471.1	461.8	455.0	436.7
7.5°	475.3	488.5	511.9	533.1	540.0	540.0	535.9	520.8	506.8	480.3
10°	512.6	529.2	561.0	584.8	592.6	590.9	582.5	563.6	544.2	512.1
12.5°	537.2	555.9	590.7	609.9	617.9	613.5	603.9	585.4	565.1	531.2
15°	549.5	569.0	599.3	609.4	607.2	602.5	601.4	592.5	577.1	545.4
17.5°	554.8	573.0	594.0	587.7	568.9	565.3	577.2	588.5	584.8	557.7
20°	559.8	575.0	581.3	553.3	520.5	517.2	540.1	572.3	588.7	569.2
22.5°	566.6	576.0	563.0	517.1	481.7	474.1	499.4	547.8	589.9	583.7
25°	576.0	578.6	542.9	482.7	447.1	439.6	463.2	520.6	587.8	599.5
27.5°	587.3	582.0	523.6	454.0	419.6	412.6	436.2	494.5	582.0	615.2
30°	602.0	586.5	504.4	431.7	399.9	394.8	417.5	471.9	574.8	635.2
32.5°	616.9	588.4	486.6	418.7	395.5	397.4	416.0	459.8	567.0	654.4
35°	633.0	594.3	477.9	431.6	432.6	449.0	456.7	471.1	565.8	680.3
37.5°	654.9	607.7	488.3	495.3	530.9	564.9	558.6	526.3	579.6	719.2
40°	686.3	631.1	533.8	603.9	676.9	732.2	708.0	626.7	622.0	775.1
42.5°	732.2	668.4	614.5	736.6	860.4	951.4	886.7	756.1	696.2	854.9
45°	799.9	728.7	712.1	876.6	1086.6	1229.9	1095.5	894.1	800.2	975.8
47.5°	893.7	817.5	803.6	1024.2	1361.5	1546.9	1327.0	1022.0	918.5	1140.6
50°	1018.4	937.0	890.3	1185.6	1663.0	1870.1	1558.3	1145.4	1054.1	1342.1
52.5°	1182.9	1103.7	991.4	1339.3	1973.0	2186.4	1790.7	1253.8	1222.4	1575.8
55°	1407.2	1354.5	1129.5	1486.0	2282.8	2504.6	2014.0	1356.1	1444.6	1853.5
57.5°	1685.6	1723.2	1328.7	1656.1	2561.3	2832.5	2238.3	1499.0	1733.3	2164.0
60°	1865.1	2213.4	1710.2	1907.7	2877.8	3203.4	2545.8	1770.9	2036.6	2275.3
62.5°	1821.7	2369.3	2167.0	2228.8	3168.8	3473.0	2847.1	2043.9	2093.7	2111.3
65°	1688.5	2243.5	2073.9	2291.2	3242.5	3488.2	2927.6	2008.7	1776.0	1723.7
67.5°	1505.2	2094.2	1852.4	2125.7	3109.3	3275.5	2777.6	1776.9	1372.5	1293.5
70°	1307.3	1929.0	1707.1	1940.0	2855.4	2904.8	2522.7	1562.8	1009.5	873.6
72.5°	1119.6	1757.0	1607.6	1749.7	2516.7	2414.5	2190.8	1373.5	735.1	630.1
75°	927.6	1503.3	1465.8	1523.6	2071.3	1901.9	1820.3	1137.2	576.9	455.8
77.5°	715.7	1174.7	1260.8	1220.1	1458.0	1412.7	1411.0	854.6	421.5	304.2
80°	489.9	818.7	985.0	860.7	946.2	923.1	1062.7	573.3	305.7	183.1
82.5°	287.9	498.4	685.6	416.7	523.2	537.1	632.8	278.9	179.9	42.2
85°	116.8	196.8	268.1	163.1	252.4	212.9	240.2	78.3	50.1	1.0
87.5°	29.4	62.9	44.1	18.3	29.2	26.8	21.2	9.6	2.1	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°
343.7	0°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
388.3	2.5°	381.6	377.7	368.0	358.2	350.3	339.7	332.7	324.4	316.3	309.1
432.8	5°	422.0	409.0	391.2	375.0	358.4	342.3	326.4	309.7	294.3	284.9
470.4	7.5°	454.8	431.9	408.3	387.6	367.6	348.8	327.8	307.4	283.3	270.5
499.1	10°	479.3	449.2	418.2	394.5	374.3	356.0	338.2	317.7	288.6	272.5
516.5	12.5°	495.3	459.6	423.4	396.2	373.6	359.4	351.5	343.5	314.6	295.8
529.4	15°	506.5	467.0	426.9	392.2	364.5	354.1	362.0	371.2	352.7	331.0
542.7	17.5°	518.6	476.5	428.5	381.6	346.9	342.5	362.8	384.2	383.3	361.8
555.4	20°	531.4	484.9	427.5	364.5	325.6	329.5	355.5	380.3	390.7	379.1
569.9	22.5°	544.6	492.9	423.5	342.3	305.5	317.9	343.8	365.6	377.9	374.3
587.7	25°	561.2	504.2	417.7	318.4	289.0	306.1	330.3	348.0	356.5	356.3
606.8	27.5°	581.0	519.3	414.6	299.1	277.2	292.7	314.3	330.0	336.0	336.0
630.6	30°	604.1	537.1	411.2	286.4	270.3	278.9	295.6	311.0	317.0	317.0
656.6	32.5°	629.7	554.2	403.0	278.7	265.2	265.4	276.0	290.0	297.2	298.2
689.1	35°	660.5	572.5	385.1	272.5	259.2	252.2	257.3	269.0	277.5	279.7
735.4	37.5°	700.9	594.9	359.4	263.5	250.0	238.4	239.5	248.4	257.8	261.3
799.3	40°	755.1	621.2	332.7	250.5	237.0	223.1	222.6	229.1	238.4	242.1
885.9	42.5°	826.7	652.8	307.3	238.0	221.3	207.1	206.2	211.3	219.4	223.3
1000.1	45°	918.4	691.6	285.4	228.3	205.9	191.8	191.5	195.8	202.8	206.9
1146.3	47.5°	1045.7	730.4	270.5	223.1	193.7	179.4	180.0	183.8	190.1	193.0
1335.6	50°	1211.8	742.2	263.0	223.1	187.2	168.2	171.7	174.7	179.5	181.2
1562.5	52.5°	1371.1	703.3	256.1	224.5	188.1	158.8	166.2	168.4	172.5	173.2
1772.8	55°	1449.3	604.6	246.7	224.8	193.4	150.8	161.8	165.9	167.4	167.2
1894.8	57.5°	1422.4	488.8	230.8	223.5	197.0	145.7	156.3	164.1	165.2	163.6
1871.6	60°	1328.2	359.9	218.7	213.4	195.6	144.1	147.9	160.4	161.9	159.9
1692.4	62.5°	1170.2	249.8	209.3	191.2	189.6	143.6	134.7	152.2	155.9	153.0
1360.3	65°	921.3	176.5	180.2	167.6	176.6	140.9	121.1	142.3	147.4	142.9
986.9	67.5°	623.4	127.4	146.0	151.8	155.6	134.7	111.1	131.0	137.8	132.0
633.3	70°	336.7	89.4	96.4	127.9	132.2	124.1	102.2	119.5	127.4	121.1
450.2	72.5°	198.9	64.3	67.5	102.8	110.1	109.3	92.3	106.2	115.8	108.2
310.7	75°	109.6	43.4	48.2	74.5	89.4	84.3	79.3	89.9	99.7	92.3
194.8	77.5°	49.1	26.0	33.5	48.9	70.3	57.8	61.4	70.1	79.2	71.5
108.4	80°	19.0	14.5	22.2	26.7	51.1	32.0	39.5	51.6	58.1	52.0
23.6	82.5°	2.4	6.5	9.6	10.4	29.8	16.9	22.9	32.5	32.0	27.7
0.0	85°	0.0	1.2	1.4	0.7	12.8	6.2	7.5	10.6	9.9	7.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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°
343.7	0°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
307.8	2.5°	299.4	293.2	290.2	287.6	290.0	291.4	291.4	297.2	300.6	302.0
278.9	5°	263.8	252.4	244.7	240.1	241.6	243.3	245.2	252.5	257.5	260.8
258.9	7.5°	235.8	218.3	207.6	201.9	202.8	204.0	205.5	212.7	217.7	221.9
255.1	10°	221.9	197.3	183.1	176.3	175.1	174.4	173.9	178.2	181.9	185.3
270.5	12.5°	222.6	188.3	171.0	162.6	159.0	154.9	151.7	152.3	154.7	159.0
298.0	15°	231.3	185.3	164.7	154.2	148.2	143.5	139.5	138.7	139.5	140.2
329.5	17.5°	243.1	185.0	159.2	146.2	140.0	136.1	132.5	131.3	131.5	132.3
350.3	20°	252.5	184.0	153.0	138.5	133.0	129.6	126.0	124.8	125.2	125.3
352.4	22.5°	257.5	182.4	146.2	130.8	126.2	122.8	119.5	119.3	119.3	120.4
341.3	25°	257.5	179.2	140.0	123.5	119.3	116.3	112.3	113.0	113.4	114.7
324.0	27.5°	251.3	173.0	135.1	117.1	112.8	109.8	106.2	107.0	107.5	109.1
306.9	30°	243.5	165.7	129.4	111.1	106.2	104.0	100.9	101.2	101.9	103.6
291.0	32.5°	235.1	157.0	124.8	105.2	100.2	98.5	95.1	95.6	96.3	98.1
275.3	35°	225.9	146.7	119.3	99.7	94.7	93.4	89.4	89.8	90.8	92.8
258.4	37.5°	216.1	138.3	113.9	94.4	89.3	87.9	83.8	84.1	85.3	87.7
240.6	40°	206.5	130.1	108.1	88.7	83.6	82.4	78.0	78.3	79.7	82.2
222.6	42.5°	196.1	123.8	100.5	82.9	77.5	76.3	72.2	72.7	74.2	76.8
206.0	45°	183.6	119.7	92.2	77.5	71.3	70.1	66.3	67.4	69.1	71.6
191.8	47.5°	170.8	118.0	85.1	71.6	65.0	63.9	60.9	62.6	64.5	66.5
179.7	50°	158.5	115.8	78.0	66.2	59.5	58.5	56.4	58.6	60.5	62.4
171.0	52.5°	144.5	111.0	71.5	61.4	54.9	54.5	53.5	55.6	57.3	59.0
163.5	55°	129.9	103.3	65.8	57.1	51.0	51.3	50.8	52.5	53.9	55.4
156.6	57.5°	117.3	93.5	61.4	52.5	47.5	48.6	47.9	48.7	49.6	51.5
148.4	60°	104.5	81.9	56.4	47.0	44.1	45.3	43.4	43.3	43.6	44.1
136.3	62.5°	87.2	69.8	50.3	42.2	40.4	40.9	37.3	34.5	34.5	35.1
119.3	65°	70.1	58.5	43.4	36.8	35.2	34.9	29.8	26.0	25.6	27.2
99.7	67.5°	57.6	48.6	36.6	30.6	29.6	29.9	26.2	22.4	22.1	23.8
81.2	70°	47.7	39.2	29.2	23.6	24.6	26.2	22.4	18.8	18.3	19.8
66.0	72.5°	38.0	30.6	22.4	17.4	20.3	22.2	18.3	14.9	14.5	15.9
51.0	75°	27.9	21.9	15.2	12.7	15.7	17.4	13.3	10.6	10.1	11.3
34.0	77.5°	17.3	12.3	9.6	7.5	10.8	11.6	7.0	6.2	6.0	6.8
20.7	80°	8.0	5.3	4.6	2.6	3.9	4.6	2.9	3.2	3.4	4.1
10.4	82.5°	2.2	0.9	0.2	0.0	0.0	1.4	0.7	1.4	1.7	2.6
0.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	1.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°
343.7	0°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
311.5	2.5°	318.7	325.6	336.5	347.8	358.9	370.2	381.1	385.1
275.6	5°	289.1	304.9	326.6	349.8	373.8	398.1	420.3	430.4
238.5	7.5°	256.1	278.7	311.4	347.8	385.9	424.0	459.1	475.3
201.8	10°	220.9	249.5	286.7	336.0	390.7	443.4	491.6	512.6
169.4	12.5°	187.4	217.3	258.5	317.5	386.9	454.5	512.4	537.2
146.7	15°	159.4	185.9	230.3	295.6	374.8	455.2	522.4	549.5
134.1	17.5°	138.3	155.6	201.6	271.4	358.9	448.8	525.8	554.8
127.2	20°	127.9	132.7	164.3	240.2	344.0	442.8	529.2	559.8
121.7	22.5°	121.7	122.9	134.4	200.1	326.2	441.0	535.2	566.6
116.8	25°	116.8	117.1	120.2	158.5	299.1	439.8	544.4	576.0
111.7	27.5°	111.8	111.8	113.5	127.7	262.1	434.6	556.4	587.3
106.5	30°	106.9	106.9	108.1	113.0	218.9	424.6	570.7	602.0
101.4	32.5°	101.7	101.7	102.8	106.4	174.7	411.9	583.9	616.9
96.1	35°	96.6	96.3	97.6	101.4	139.0	395.8	597.1	633.0
90.8	37.5°	91.1	91.0	92.3	96.6	120.0	377.2	607.0	654.9
85.5	40°	85.3	85.3	86.9	91.5	114.6	353.8	622.7	686.3
80.0	42.5°	80.0	79.7	81.4	87.0	110.5	331.4	650.9	732.2
75.1	45°	74.9	74.2	75.7	82.8	103.3	323.5	703.6	799.9
70.3	47.5°	70.1	68.4	69.8	77.6	96.8	352.9	789.8	893.7
66.0	50°	66.2	62.9	64.1	72.5	91.8	416.7	901.6	1018.4
62.1	52.5°	62.1	57.8	58.5	66.2	87.4	477.4	1022.8	1182.9
58.1	55°	57.8	53.0	53.3	59.8	81.0	486.4	1141.1	1407.2
53.7	57.5°	53.0	48.6	48.6	54.0	76.4	421.6	1232.1	1685.6
48.2	60°	47.7	44.8	43.9	49.4	80.5	297.5	1242.7	1865.1
41.2	62.5°	41.9	40.4	39.2	45.0	83.6	176.3	1157.4	1821.7
32.5	65°	35.2	34.9	34.0	49.4	70.4	104.1	993.6	1688.5
27.7	67.5°	29.6	29.1	29.1	51.8	53.5	65.5	776.3	1505.2
23.6	70°	25.5	23.6	23.6	39.2	32.5	45.3	542.0	1307.3
19.5	72.5°	21.4	19.3	18.0	31.3	24.3	33.2	338.7	1119.6
14.9	75°	17.1	15.6	13.8	20.7	18.1	25.1	196.8	927.6
9.4	77.5°	12.3	11.6	9.7	15.2	13.2	18.1	117.1	715.7
5.8	80°	6.3	6.5	6.2	8.7	8.9	12.3	66.7	489.9
3.8	82.5°	3.8	2.9	3.2	4.3	5.1	7.0	25.1	287.9
2.7	85°	2.4	1.5	1.5	2.1	2.6	2.7	7.7	116.8
1.4	87.5°	1.2	0.5	0.7	1.0	0.9	0.7	0.3	29.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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