

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: P945156

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945156
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT 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: B0 - U0 - G1

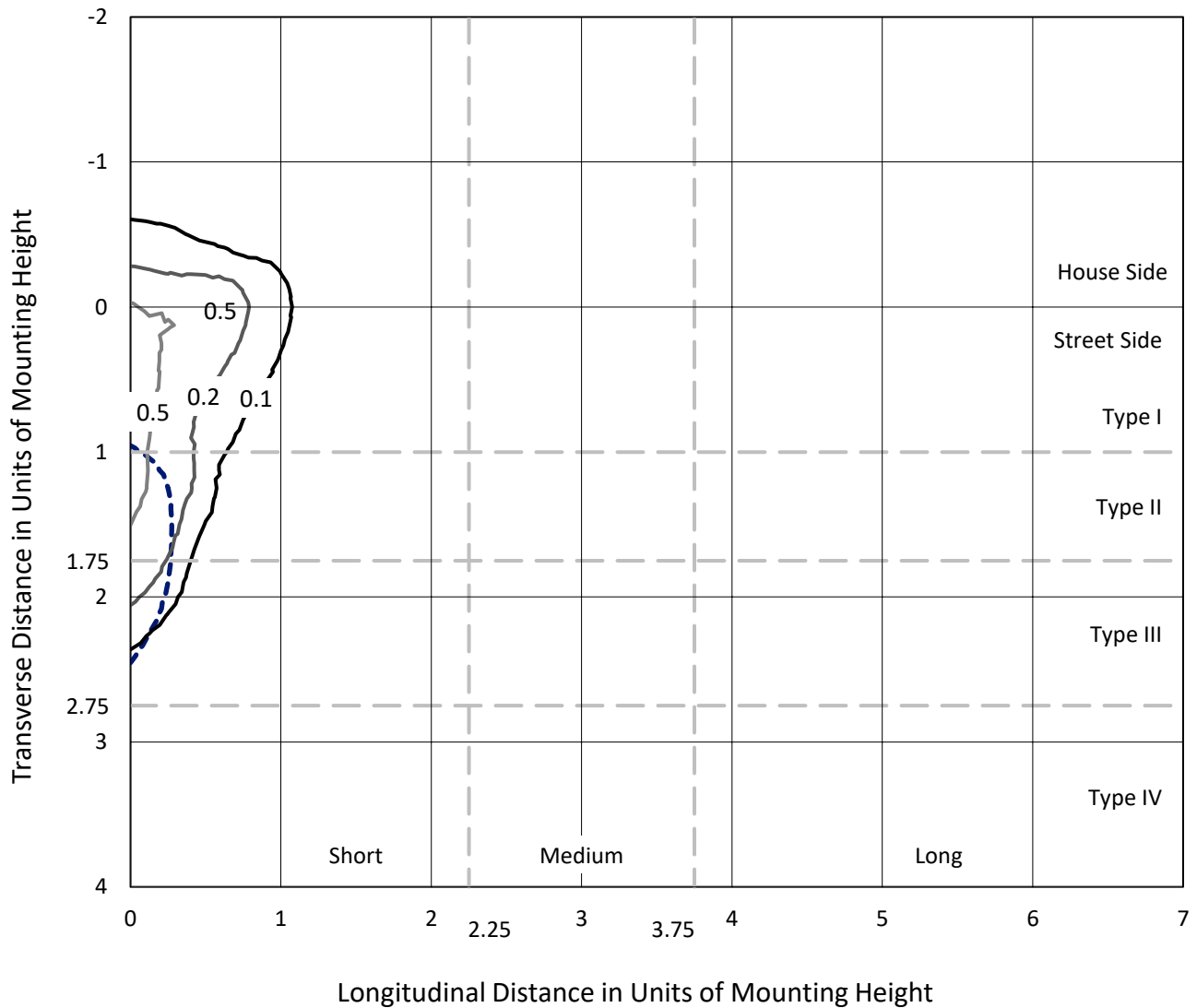
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

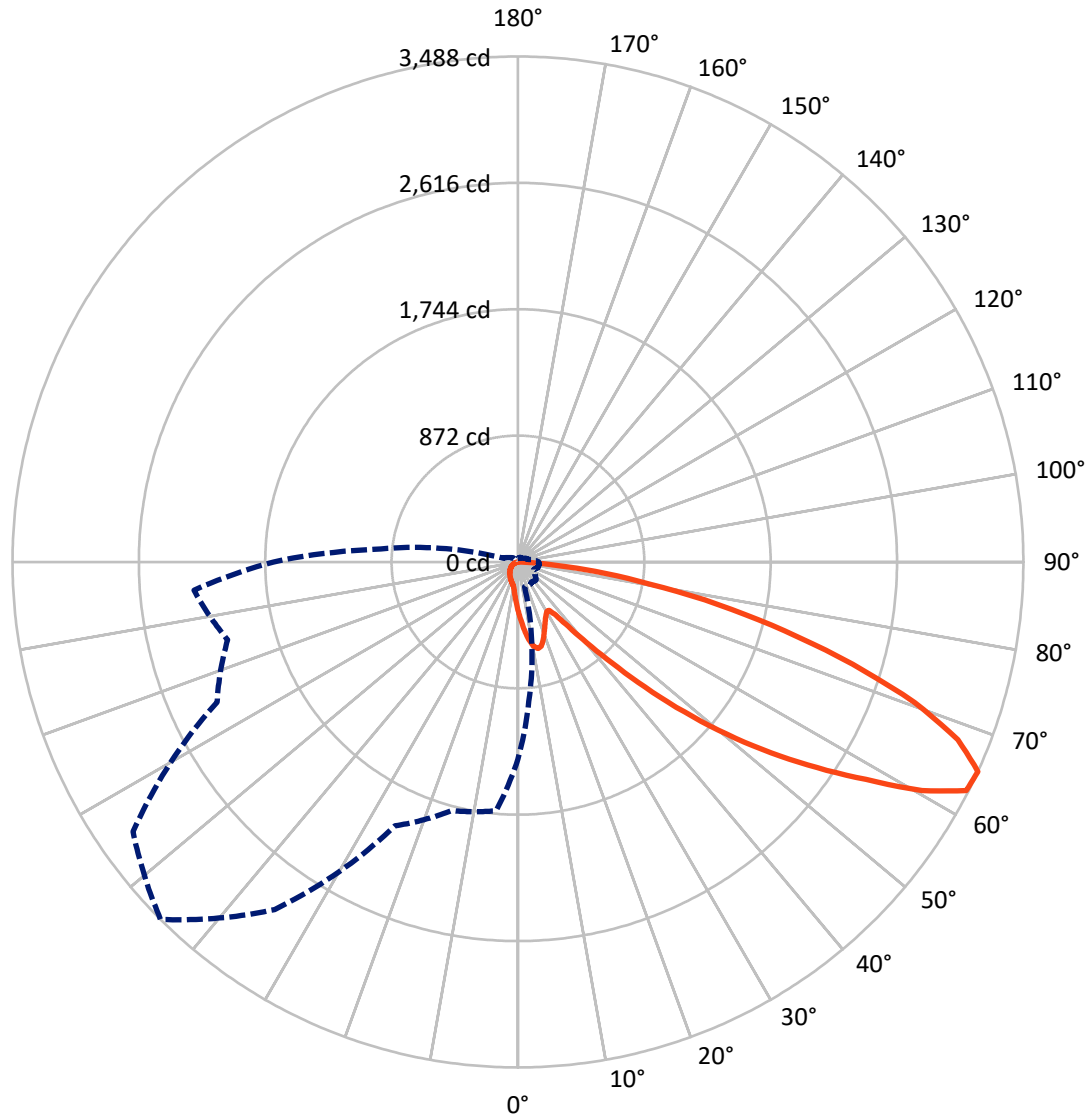
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.6	0.0	347.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2134.4	0.0	2134.4
	% Fixture	86.0	0.0	86.0
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



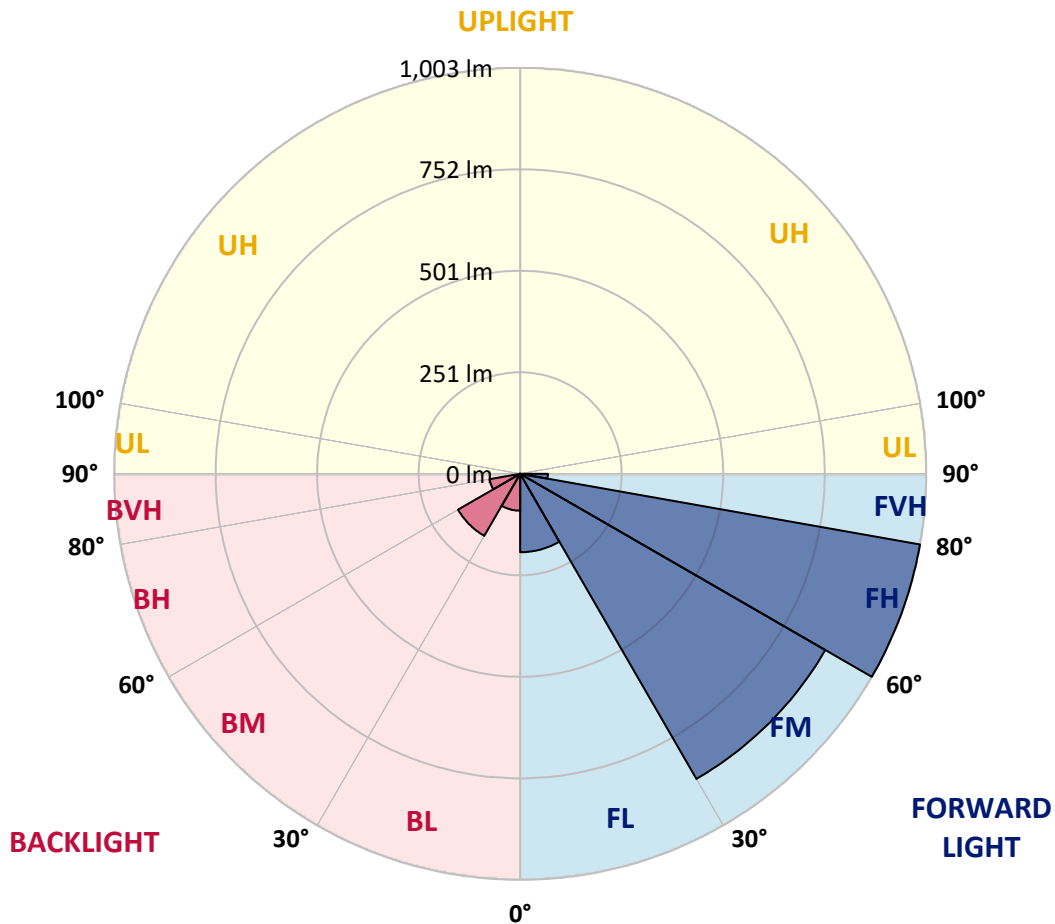
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.6	7.8			
FM (30°-60°)	869.9	35.0			
FH (60°-80°)	1002.6	40.4			G1/1800
FVH (80°-90°)	68.3	2.8			G1/100
BL (0°-30°)	91.1	3.7	B0/110		
BM (30°-60°)	177.0	7.1	B0/220		
BH (60°-80°)	76.8	3.1	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

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