

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: P944902

Luminaire Tested: **GALN-SB1A-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944902
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 3425 lumens
Efficiency: N/A
Efficacy: 110.8 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

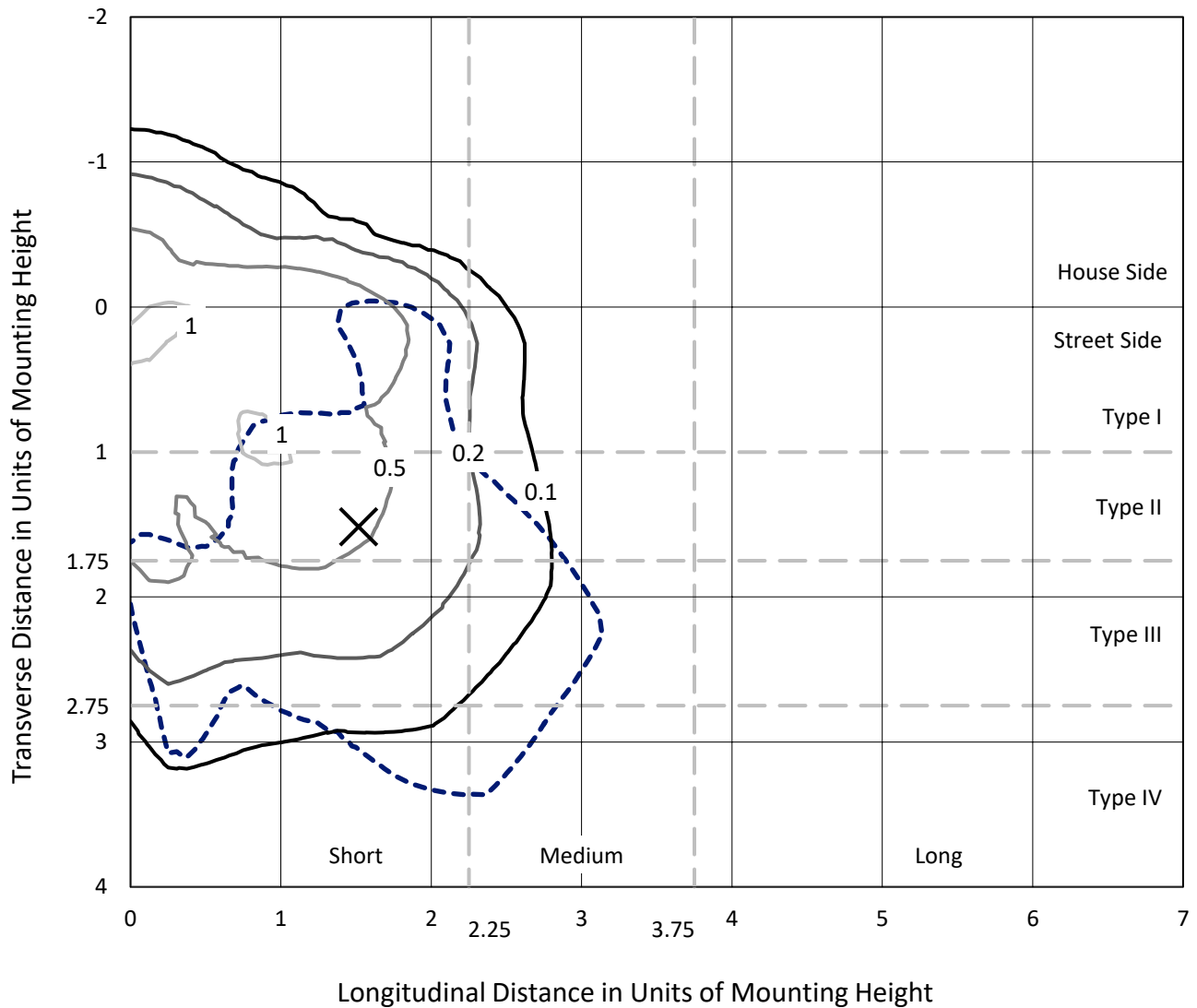
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

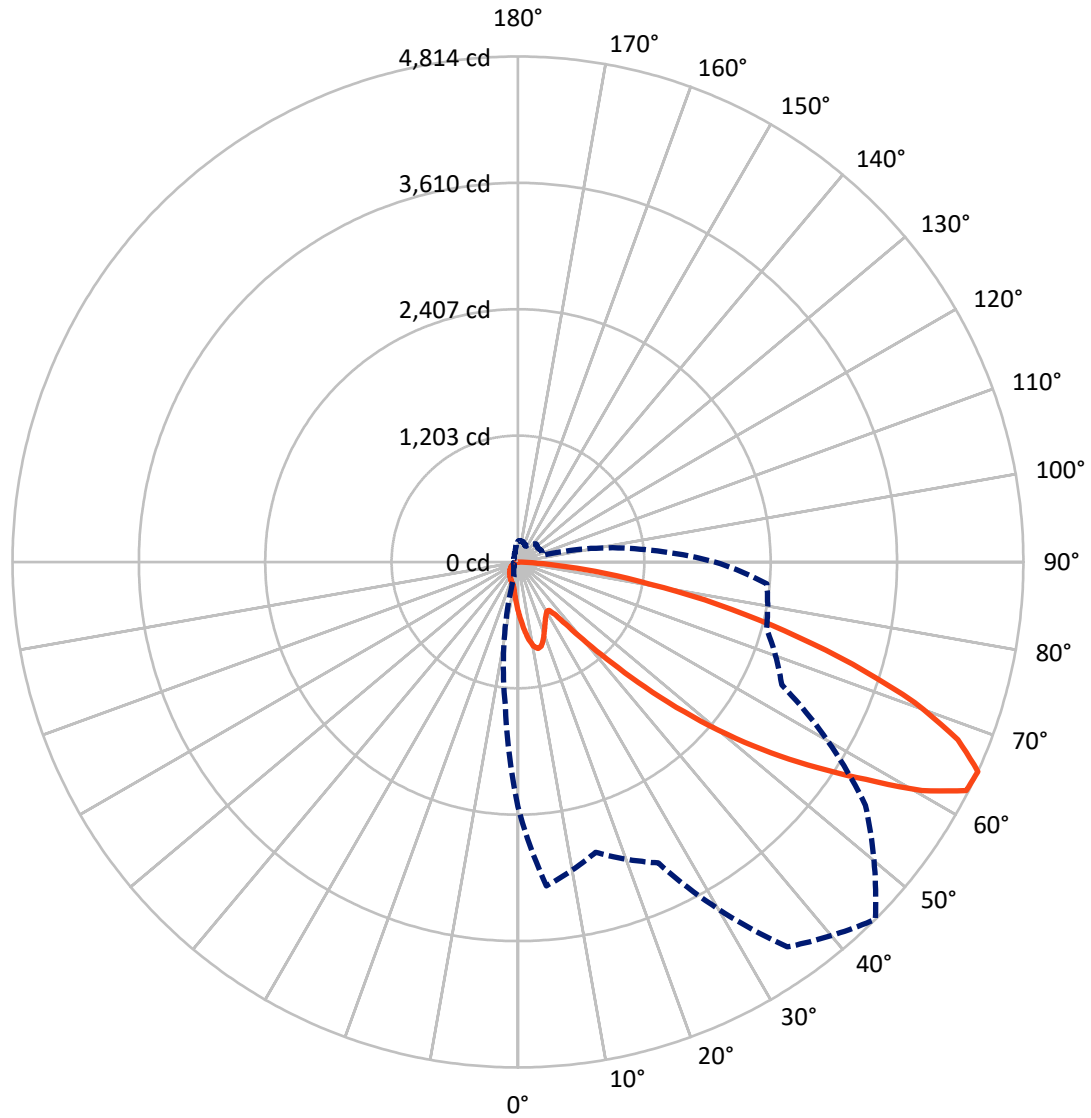
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	680.8	0.0	680.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2744.2	0.0	2744.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	3425.0	0.0	3425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.4
10°-20°	140.0	4.1
20°-30°	206.2	6.0
30°-40°	264.9	7.7
40°-50°	428.4	12.5
50°-60°	751.3	21.9
60°-70°	940.1	27.4
70°-80°	549.4	16.0
80°-90°	98.0	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°	3425.0	100.0
0°-180°	3425.0	100.0

Coefficient of Utilization



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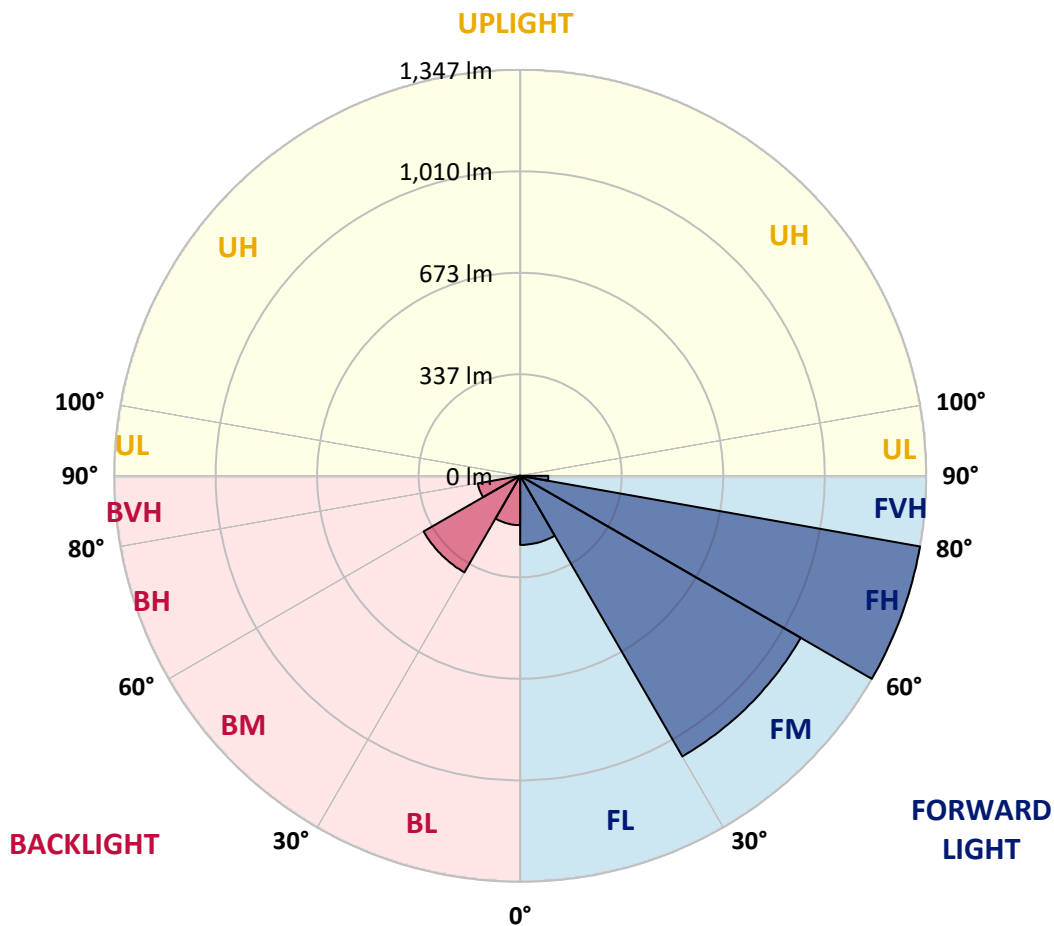
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.2	6.7			
FM	(30°-60°)	1074.8	31.4			
FH	(60°-80°)	1346.8	39.3			G1/1800
FVH	(80°-90°)	93.4	2.7			G1/100
BL	(0°-30°)	163.7	4.8	B1/500		
BM	(30°-60°)	369.9	10.8	B1/1000		
BH	(60°-80°)	142.6	4.2	B1/500		G1/500
BVH	(80°-90°)	4.6	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3
2.5°	531.4	535.4	544.3	549.0	556.4	556.8	556.8	550.5	550.2	537.3
5°	593.9	603.3	624.6	646.5	651.2	652.4	650.0	637.3	627.9	602.6
7.5°	655.9	674.1	706.4	735.7	745.1	745.1	739.5	718.7	699.3	662.8
10°	707.4	730.3	774.1	806.9	817.8	815.4	803.9	777.7	751.0	706.7
12.5°	741.3	767.1	815.2	841.6	852.7	846.6	833.4	807.9	779.8	733.1
15°	758.3	785.2	827.0	840.9	837.8	831.5	829.8	817.6	796.3	752.7
17.5°	765.6	790.7	819.7	810.9	785.0	780.0	796.6	812.1	806.9	769.7
20°	772.5	793.5	802.2	763.5	718.2	713.7	745.4	789.7	812.4	785.5
22.5°	781.9	794.9	777.0	713.5	664.7	654.3	689.2	756.0	814.0	805.5
25°	794.9	798.4	749.1	666.1	617.0	606.6	639.2	718.5	811.2	827.2
27.5°	810.5	803.2	722.5	626.4	579.0	569.3	601.9	682.4	803.2	848.9
30°	830.8	809.3	696.0	595.8	551.9	544.8	576.2	651.2	793.3	876.5
32.5°	851.3	811.9	671.5	577.8	545.7	548.3	574.1	634.5	782.4	903.0
35°	873.5	820.2	659.5	595.5	596.9	619.6	630.2	650.0	780.7	938.8
37.5°	903.7	838.6	673.9	683.5	732.6	779.6	770.8	726.2	799.9	992.4
40°	947.1	870.9	736.6	833.4	934.1	1010.3	977.1	864.7	858.4	1069.5
42.5°	1010.3	922.3	848.0	1016.5	1187.3	1312.8	1223.6	1043.4	960.8	1179.7
45°	1103.8	1005.6	982.7	1209.7	1499.4	1697.2	1511.7	1233.8	1104.2	1346.5
47.5°	1233.3	1128.1	1108.9	1413.3	1878.8	2134.6	1831.2	1410.3	1267.5	1574.0
50°	1405.3	1293.0	1228.6	1636.1	2294.8	2580.5	2150.4	1580.6	1454.6	1851.9
52.5°	1632.3	1523.0	1368.0	1848.2	2722.6	3017.1	2471.1	1730.2	1686.8	2174.5
55°	1941.8	1869.2	1558.7	2050.6	3150.1	3456.1	2779.2	1871.3	1993.5	2557.7
57.5°	2326.0	2377.9	1833.5	2285.4	3534.5	3908.7	3088.8	2068.5	2391.8	2986.1
60°	2573.7	3054.3	2359.9	2632.5	3971.2	4420.5	3513.0	2443.7	2810.4	3139.7
62.5°	2513.8	3269.5	2990.4	3075.6	4372.8	4792.5	3928.7	2820.5	2889.2	2913.5
65°	2330.0	3095.9	2861.8	3161.7	4474.5	4813.5	4039.9	2771.9	2450.8	2378.6
67.5°	2077.0	2889.9	2556.2	2933.3	4290.7	4520.0	3833.0	2452.0	1893.9	1784.9
70°	1804.0	2662.0	2355.7	2677.1	3940.3	4008.5	3481.2	2156.6	1393.0	1205.5
72.5°	1545.0	2424.6	2218.4	2414.4	3472.9	3331.8	3023.2	1895.4	1014.3	869.5
75°	1280.0	2074.4	2022.8	2102.5	2858.3	2624.4	2511.9	1569.3	796.1	629.0
77.5°	987.7	1621.0	1739.9	1683.7	2011.9	1949.4	1947.0	1179.3	581.6	419.7
80°	676.0	1129.7	1359.3	1187.8	1305.7	1273.9	1466.4	791.1	421.9	252.7
82.5°	397.3	687.8	946.1	575.0	722.0	741.1	873.2	384.8	248.2	58.3
85°	161.2	271.6	370.0	225.1	348.3	293.8	331.5	108.1	69.1	1.4
87.5°	40.6	86.8	60.9	25.2	40.3	37.0	29.3	13.2	2.8	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°
474.3	0°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3
535.8	2.5°	526.6	521.2	507.8	494.3	483.5	468.8	459.2	447.6	436.5	426.6
597.2	5°	582.3	564.4	539.8	517.4	494.5	472.4	450.4	427.3	406.1	393.1
649.1	7.5°	627.6	596.0	563.4	534.9	507.3	481.3	452.3	424.2	391.0	373.3
688.7	10°	661.4	619.8	577.1	544.3	516.5	491.2	466.7	438.4	398.3	376.1
712.8	12.5°	683.5	634.2	584.2	546.7	515.5	496.0	485.1	474.0	434.1	408.2
730.5	15°	698.9	644.4	589.2	541.3	503.0	488.6	499.5	512.2	486.8	456.8
748.9	17.5°	715.6	657.6	591.3	526.6	478.7	472.6	500.7	530.2	529.0	499.3
766.4	20°	733.3	669.1	589.9	503.0	449.2	454.7	490.5	524.7	539.1	523.1
786.4	22.5°	751.5	680.2	584.4	472.4	421.6	438.6	474.5	504.5	521.4	516.5
810.9	25°	774.4	695.8	576.4	439.3	398.7	422.3	455.8	480.2	491.9	491.7
837.4	27.5°	801.7	716.6	572.2	412.7	382.5	403.9	433.7	455.4	463.6	463.6
870.2	30°	833.6	741.1	567.5	395.2	373.0	384.8	408.0	429.2	437.4	437.4
906.0	32.5°	869.0	764.7	556.1	384.6	366.0	366.2	380.8	400.2	410.1	411.5
950.9	35°	911.5	789.9	531.4	376.1	357.7	348.0	355.1	371.1	382.9	386.0
1014.8	37.5°	967.1	820.9	496.0	363.6	345.0	328.9	330.6	342.8	355.8	360.5
1103.1	40°	1041.9	857.2	459.2	345.7	327.0	307.9	307.2	316.2	328.9	334.1
1222.4	42.5°	1140.8	900.8	424.0	328.4	305.3	285.7	284.6	291.6	302.7	308.1
1380.1	45°	1267.3	954.4	393.8	315.0	284.1	264.7	264.3	270.2	279.8	285.5
1581.8	47.5°	1443.1	1008.0	373.3	307.9	267.3	247.5	248.5	253.6	262.4	266.4
1843.0	50°	1672.2	1024.2	362.9	307.9	258.4	232.2	236.9	241.1	247.7	250.1
2156.1	52.5°	1892.1	970.4	353.4	309.8	259.5	219.2	229.3	232.4	238.1	239.0
2446.3	55°	1999.9	834.3	340.5	310.3	266.9	208.1	223.2	228.9	231.0	230.8
2614.8	57.5°	1962.8	674.6	318.5	308.4	271.8	201.0	215.7	226.5	227.9	225.8
2582.7	60°	1832.8	496.7	301.8	294.5	269.9	198.9	204.1	221.3	223.4	220.6
2335.4	62.5°	1614.8	344.7	288.8	263.8	261.7	198.2	185.9	210.0	215.2	211.2
1877.2	65°	1271.3	243.5	248.7	231.2	243.7	194.4	167.1	196.3	203.4	197.3
1361.9	67.5°	860.3	175.8	201.5	209.5	214.7	185.9	153.4	180.7	190.2	182.2
873.9	70°	464.6	123.4	133.1	176.5	182.4	171.3	141.1	164.9	175.8	167.1
621.2	72.5°	274.4	88.7	93.2	141.8	151.9	150.8	127.4	146.5	159.7	149.4
428.7	75°	151.2	59.9	66.5	102.9	123.4	116.3	109.5	124.1	137.6	127.4
268.7	77.5°	67.7	35.9	46.2	67.5	97.0	79.7	84.7	96.7	109.2	98.6
149.6	80°	26.2	20.1	30.7	36.8	70.5	44.1	54.5	71.3	80.2	71.7
32.6	82.5°	3.3	9.0	13.2	14.4	41.1	23.4	31.6	44.8	44.1	38.2
0.0	85°	0.0	1.7	1.9	0.9	17.7	8.5	10.4	14.6	13.7	10.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°
474.3	0°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3
424.7	2.5°	413.1	404.6	400.4	396.9	400.2	402.1	402.1	410.1	414.8	416.7
384.8	5°	364.1	348.3	337.6	331.3	333.4	335.8	338.3	348.5	355.3	359.8
357.2	7.5°	325.4	301.3	286.4	278.7	279.8	281.5	283.6	293.5	300.4	306.3
352.0	10°	306.3	272.3	252.7	243.3	241.6	240.7	240.0	245.9	251.0	255.8
373.3	12.5°	307.2	259.8	235.9	224.4	219.4	213.8	209.3	210.2	213.5	219.4
411.3	15°	319.2	255.8	227.2	212.8	204.6	198.0	192.5	191.4	192.5	193.5
454.7	17.5°	335.5	255.3	219.7	201.7	193.2	187.8	182.9	181.2	181.4	182.6
483.5	20°	348.5	253.9	211.2	191.1	183.6	178.8	173.9	172.2	172.7	172.9
486.3	22.5°	355.3	251.8	201.7	180.5	174.1	169.4	164.9	164.7	164.7	166.1
470.9	25°	355.3	247.3	193.2	170.4	164.7	160.4	155.0	156.0	156.4	158.3
447.1	27.5°	346.8	238.8	186.4	161.6	155.7	151.5	146.5	147.7	148.4	150.5
423.5	30°	336.0	228.6	178.6	153.4	146.5	143.5	139.2	139.7	140.6	143.0
401.6	32.5°	324.4	216.6	172.2	145.1	138.3	135.9	131.2	131.9	132.8	135.4
379.9	35°	311.7	202.4	164.7	137.6	130.7	128.8	123.4	123.9	125.3	128.1
356.5	37.5°	298.2	190.9	157.1	130.2	123.2	121.3	115.6	116.1	117.7	121.0
332.0	40°	285.0	179.6	149.1	122.5	115.4	113.7	107.6	108.1	110.0	113.5
307.2	42.5°	270.6	170.8	138.7	114.4	106.9	105.2	99.6	100.3	102.4	105.9
284.3	45°	253.4	165.2	127.2	106.9	98.4	96.7	91.5	93.0	95.3	98.9
264.7	47.5°	235.7	162.8	117.5	98.9	89.7	88.2	84.0	86.4	89.0	91.8
248.0	50°	218.7	159.7	107.6	91.3	82.1	80.7	77.9	80.9	83.5	86.1
235.9	52.5°	199.4	153.1	98.6	84.7	75.7	75.3	73.9	76.7	79.0	81.4
225.6	55°	179.3	142.5	90.8	78.8	70.3	70.8	70.1	72.4	74.3	76.4
216.1	57.5°	161.9	129.1	84.7	72.4	65.6	67.0	66.1	67.2	68.4	71.0
204.8	60°	144.2	113.0	77.9	64.9	60.9	62.5	59.9	59.7	60.2	60.9
188.0	62.5°	120.3	96.3	69.4	58.3	55.7	56.4	51.4	47.7	47.7	48.4
164.7	65°	96.7	80.7	59.9	50.7	48.6	48.1	41.1	35.9	35.4	37.5
137.6	67.5°	79.5	67.0	50.5	42.2	40.8	41.3	36.1	30.9	30.4	32.8
112.1	70°	65.8	54.0	40.3	32.6	34.0	36.1	30.9	26.0	25.2	27.4
91.1	72.5°	52.4	42.2	30.9	24.1	28.1	30.7	25.2	20.5	20.1	21.9
70.3	75°	38.5	30.2	21.0	17.5	21.7	24.1	18.4	14.6	13.9	15.6
47.0	77.5°	23.8	17.0	13.2	10.4	14.9	16.0	9.7	8.5	8.3	9.4
28.5	80°	11.1	7.3	6.4	3.5	5.4	6.4	4.0	4.5	4.7	5.7
14.4	82.5°	3.1	1.2	0.2	0.0	0.0	1.9	0.9	1.9	2.4	3.5
1.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	2.1
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°
474.3	0°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3
429.9	2.5°	439.8	449.2	464.3	479.9	495.3	510.8	525.9	531.4
380.3	5°	399.0	420.7	450.7	482.7	515.8	549.3	580.0	593.9
329.1	7.5°	353.4	384.6	429.7	479.9	532.5	585.1	633.5	655.9
278.4	10°	304.8	344.2	395.7	463.6	539.1	611.8	678.3	707.4
233.8	12.5°	258.6	299.9	356.8	438.2	533.9	627.1	707.1	741.3
202.4	15°	219.9	256.5	317.8	408.0	517.2	628.1	720.8	758.3
185.0	17.5°	190.9	214.7	278.2	374.4	495.3	619.4	725.5	765.6
175.5	20°	176.5	183.1	226.7	331.5	474.7	611.1	730.3	772.5
168.0	22.5°	168.0	169.6	185.5	276.1	450.2	608.5	738.5	781.9
161.2	25°	161.2	161.6	165.9	218.7	412.7	606.9	751.3	794.9
154.1	27.5°	154.3	154.3	156.7	176.3	361.7	599.8	767.8	810.5
147.0	30°	147.5	147.5	149.1	156.0	302.0	585.9	787.6	830.8
139.9	32.5°	140.4	140.4	141.8	146.8	241.1	568.4	805.8	851.3
132.6	35°	133.3	132.8	134.7	139.9	191.8	546.2	823.9	873.5
125.3	37.5°	125.8	125.5	127.4	133.3	165.6	520.5	837.6	903.7
118.0	40°	117.7	117.7	119.9	126.2	158.1	488.2	859.3	947.1
110.4	42.5°	110.4	110.0	112.3	120.1	152.4	457.3	898.2	1010.3
103.6	45°	103.3	102.4	104.5	114.2	142.5	446.4	970.9	1103.8
97.0	47.5°	96.7	94.4	96.3	107.1	133.5	487.0	1089.8	1233.3
91.1	50°	91.3	86.8	88.5	100.0	126.7	575.0	1244.1	1405.3
85.6	52.5°	85.6	79.7	80.7	91.3	120.6	658.8	1411.4	1632.3
80.2	55°	79.7	73.1	73.6	82.6	111.8	671.3	1574.7	1941.8
74.1	57.5°	73.1	67.0	67.0	74.6	105.5	581.8	1700.2	2326.0
66.5	60°	65.8	61.8	60.6	68.2	111.1	410.5	1714.9	2573.7
56.9	62.5°	57.8	55.7	54.0	62.1	115.4	243.3	1597.1	2513.8
44.8	65°	48.6	48.1	47.0	68.2	97.2	143.7	1371.1	2330.0
38.2	67.5°	40.8	40.1	40.1	71.5	73.9	90.4	1071.2	2077.0
32.6	70°	35.2	32.6	32.6	54.0	44.8	62.5	748.0	1804.0
26.9	72.5°	29.5	26.7	24.8	43.2	33.5	45.8	467.4	1545.0
20.5	75°	23.6	21.5	19.1	28.5	25.0	34.7	271.6	1280.0
13.0	77.5°	17.0	16.0	13.4	21.0	18.2	25.0	161.6	987.7
8.0	80°	8.7	9.0	8.5	12.0	12.3	17.0	92.0	676.0
5.2	82.5°	5.2	4.0	4.5	5.9	7.1	9.7	34.7	397.3
3.8	85°	3.3	2.1	2.1	2.8	3.5	3.8	10.6	161.2
1.9	87.5°	1.7	0.7	0.9	1.4	1.2	0.9	0.5	40.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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