

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: P944986

Luminaire Tested: **GALN-SB1A-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944986
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 2978 lumens
Efficiency: N/A
Efficacy: 96.4 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

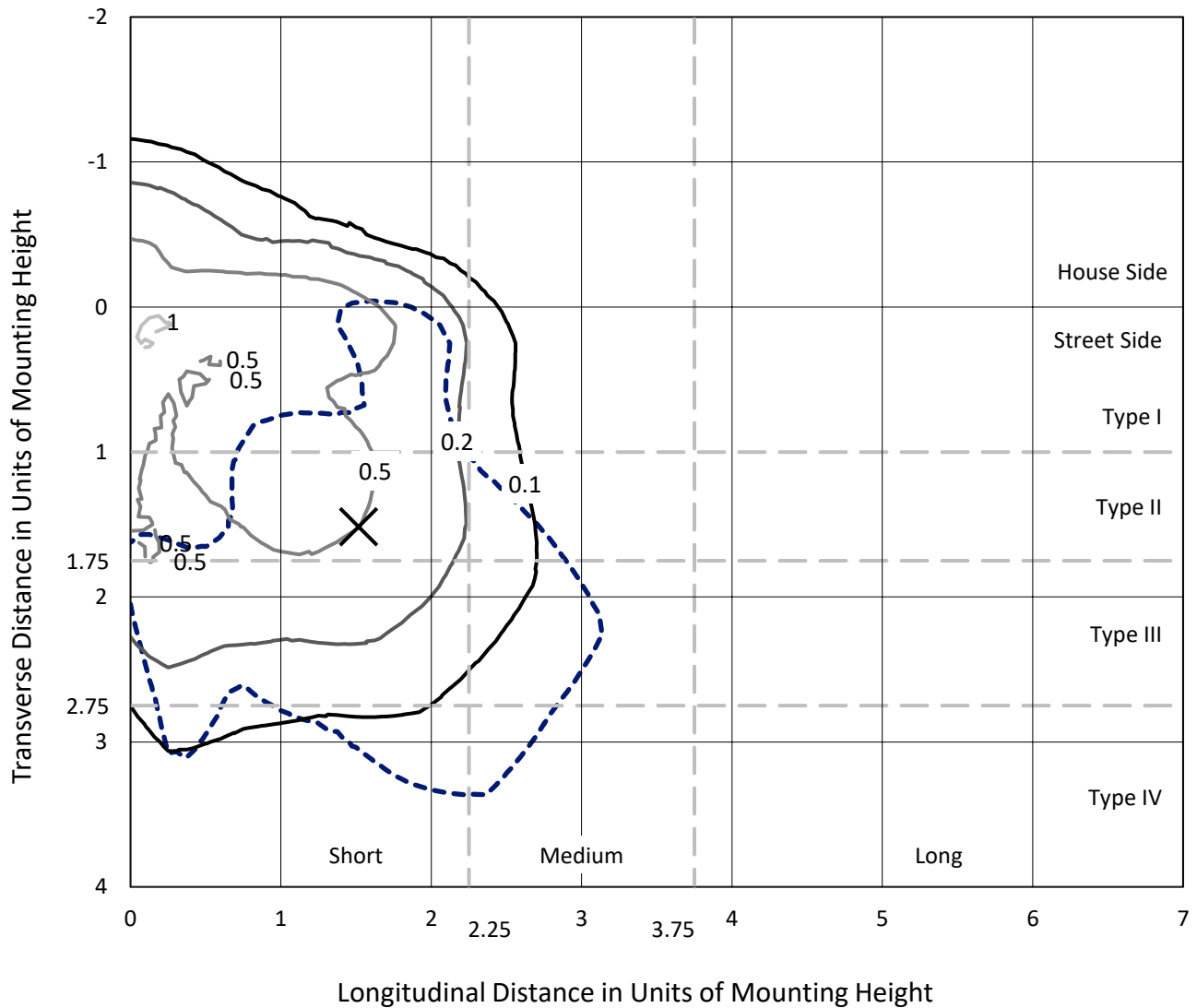
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

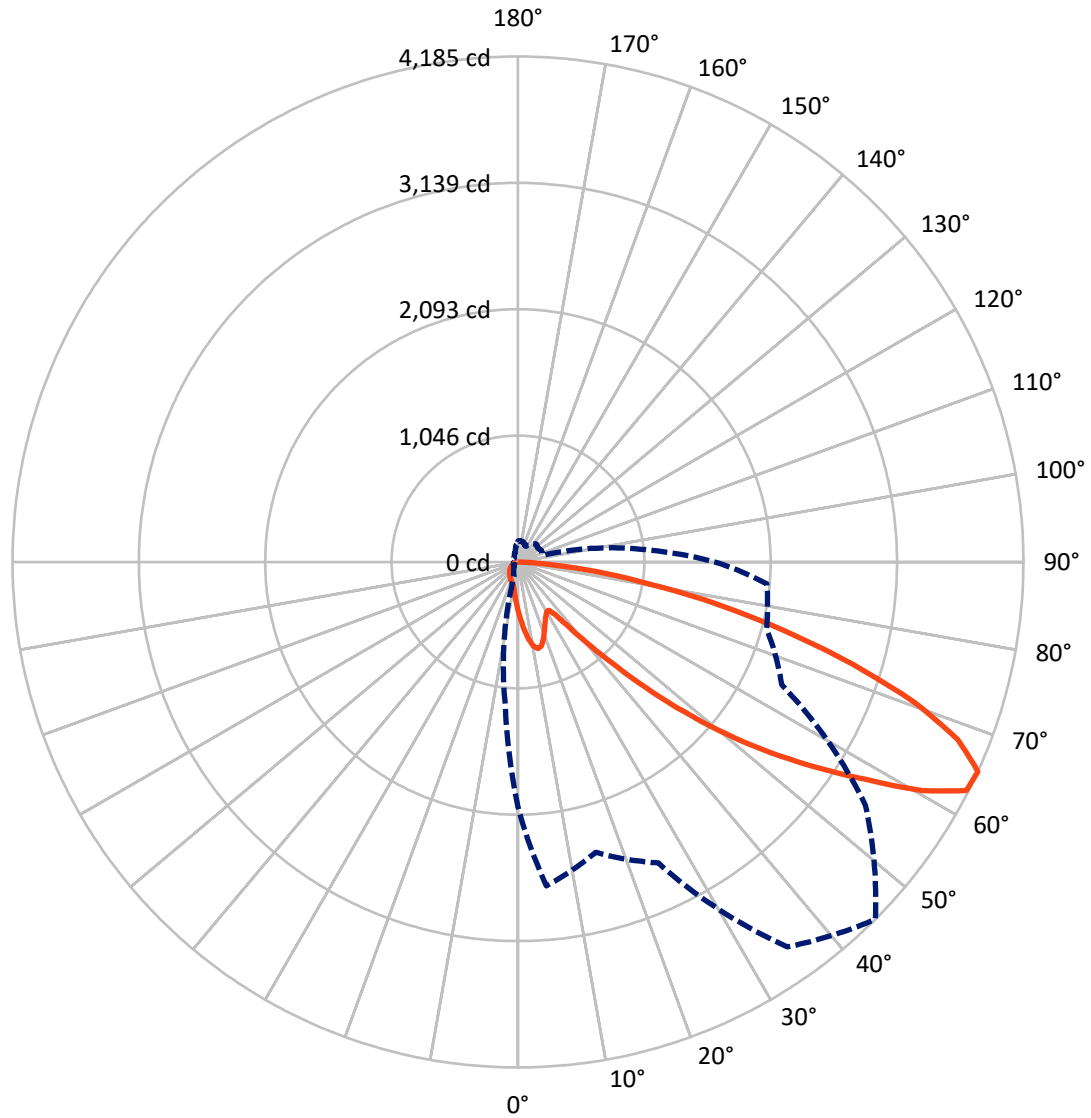
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	591.9	0.0	591.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2386.1	0.0	2386.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	2978.0	0.0	2978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.4
10°-20°	121.7	4.1
20°-30°	179.3	6.0
30°-40°	230.3	7.7
40°-50°	372.5	12.5
50°-60°	653.3	21.9
60°-70°	817.4	27.4
70°-80°	477.7	16.0
80°-90°	85.2	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°	2978.0	100.0
0°-180°	2978.0	100.0

Coefficient of Utilization



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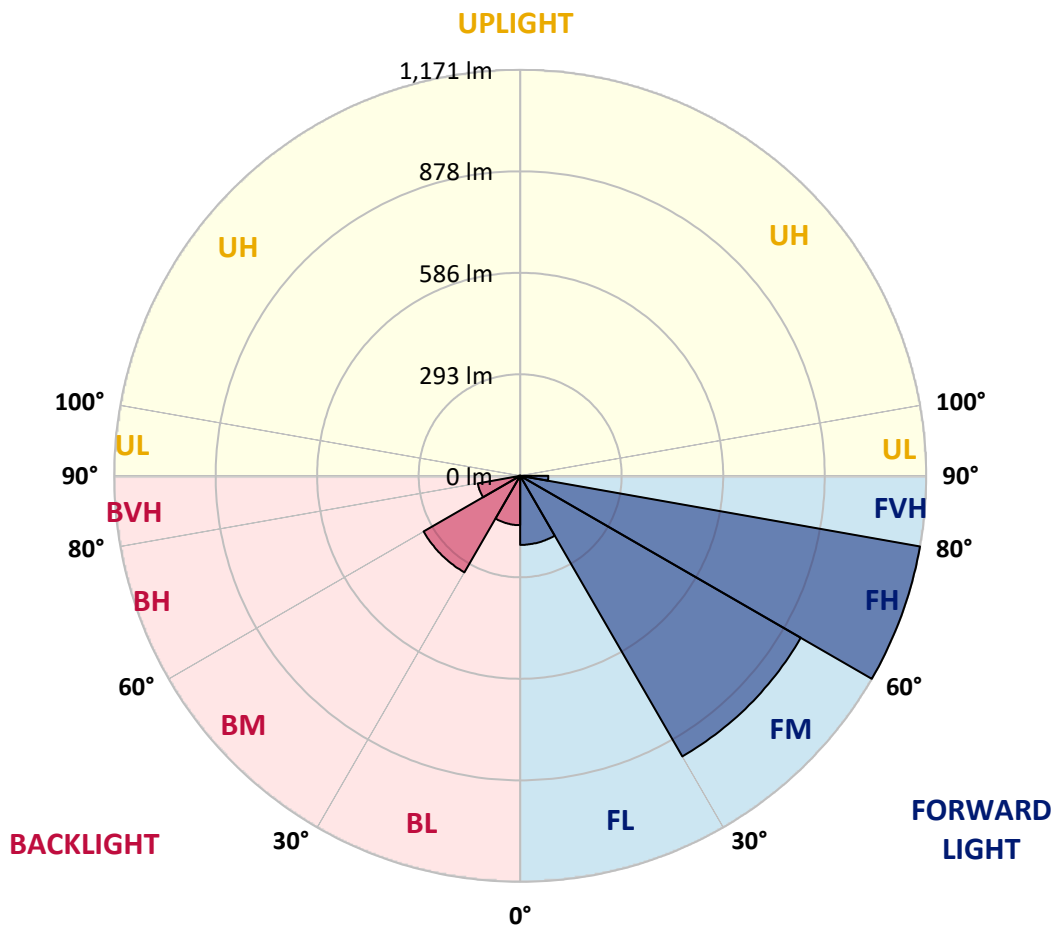
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.3	6.7			
FM (30°-60°)	934.5	31.4			
FH (60°-80°)	1171.0	39.3			G1/1800
FVH (80°-90°)	81.2	2.7			G1/100
BL (0°-30°)	142.3	4.8	B1/500		
BM (30°-60°)	321.6	10.8	B1/1000		
BH (60°-80°)	124.0	4.2	B1/500		G1/500
BVH (80°-90°)	4.0	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°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	462.0	465.5	473.3	477.4	483.8	484.2	484.2	478.6	478.4	467.1
5°	516.4	524.6	543.0	562.1	566.2	567.2	565.2	554.1	545.9	524.0
7.5°	570.3	586.1	614.2	639.7	647.9	647.9	642.9	624.9	608.1	576.3
10°	615.0	634.9	673.1	701.6	711.1	709.0	699.0	676.2	653.0	614.4
12.5°	644.6	667.0	708.8	731.8	741.4	736.1	724.6	702.4	678.0	637.4
15°	659.4	682.7	719.1	731.2	728.5	723.0	721.5	710.9	692.4	654.4
17.5°	665.7	687.5	712.7	705.1	682.5	678.2	692.6	706.1	701.6	669.2
20°	671.7	689.9	697.5	663.9	624.5	620.6	648.1	686.6	706.3	683.0
22.5°	679.9	691.2	675.6	620.4	577.9	568.9	599.3	657.3	707.8	700.4
25°	691.2	694.2	651.4	579.1	536.5	527.4	555.8	624.7	705.3	719.3
27.5°	704.7	698.3	628.2	544.7	503.4	495.0	523.3	593.3	698.3	738.1
30°	722.3	703.7	605.2	518.0	479.9	473.7	501.0	566.2	689.7	762.1
32.5°	740.2	705.9	583.9	502.4	474.5	476.8	499.1	551.7	680.3	785.1
35°	759.5	713.1	573.4	517.8	519.0	538.7	548.0	565.2	678.9	816.3
37.5°	785.7	729.1	585.9	594.3	637.0	677.8	670.2	631.5	695.5	862.9
40°	823.5	757.2	640.5	724.6	812.2	878.5	849.5	751.9	746.3	930.0
42.5°	878.5	801.9	737.3	883.8	1032.3	1141.5	1063.9	907.2	835.4	1025.8
45°	959.7	874.4	854.5	1051.8	1303.7	1475.7	1314.4	1072.7	960.1	1170.8
47.5°	1072.3	980.8	964.2	1228.9	1633.6	1856.0	1592.2	1226.2	1102.1	1368.6
50°	1221.9	1124.2	1068.2	1422.5	1995.3	2243.8	1869.8	1374.3	1264.8	1610.2
52.5°	1419.2	1324.3	1189.5	1607.0	2367.3	2623.3	2148.6	1504.4	1466.6	1890.7
55°	1688.4	1625.2	1355.2	1783.0	2739.0	3005.1	2416.5	1627.1	1733.3	2223.9
57.5°	2022.4	2067.5	1594.2	1987.1	3073.2	3398.6	2685.7	1798.6	2079.6	2596.4
60°	2237.8	2655.7	2051.9	2288.9	3452.9	3843.5	3054.5	2124.8	2443.6	2730.0
62.5°	2185.7	2842.8	2600.1	2674.2	3802.1	4167.1	3416.0	2452.4	2512.1	2533.2
65°	2025.9	2691.8	2488.3	2749.1	3890.5	4185.3	3512.6	2410.1	2130.9	2068.1
67.5°	1806.0	2512.7	2222.6	2550.5	3730.7	3930.1	3332.7	2132.0	1646.8	1552.0
70°	1568.6	2314.5	2048.2	2327.7	3426.1	3485.3	3026.8	1875.1	1211.2	1048.1
72.5°	1343.3	2108.2	1928.8	2099.3	3019.6	2897.0	2628.6	1648.0	882.0	756.0
75°	1113.0	1803.7	1758.8	1828.1	2485.2	2281.9	2184.1	1364.5	692.2	546.9
77.5°	858.8	1409.4	1512.8	1464.0	1749.3	1695.0	1692.9	1025.4	505.7	365.0
80°	587.8	982.3	1181.9	1032.7	1135.3	1107.6	1275.0	687.9	366.8	219.7
82.5°	345.5	598.0	822.7	500.0	627.8	644.4	759.3	334.6	215.8	50.7
85°	140.1	236.1	321.7	195.7	302.8	255.4	288.2	94.0	60.1	1.2
87.5°	35.3	75.5	52.9	22.0	35.1	32.2	25.4	11.5	2.5	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°
412.4	0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
465.9	2.5°	457.9	453.2	441.5	429.8	420.4	407.6	399.2	389.2	379.5	370.9
519.2	5°	506.3	490.7	469.4	449.9	430.0	410.7	391.6	371.5	353.1	341.8
564.4	7.5°	545.7	518.2	489.9	465.1	441.1	418.5	393.3	368.9	339.9	324.6
598.8	10°	575.0	538.9	501.8	473.3	449.1	427.1	405.8	381.2	346.3	327.0
619.8	12.5°	594.3	551.5	508.0	475.3	448.3	431.2	421.8	412.2	377.5	354.9
635.2	15°	607.7	560.3	512.3	470.6	437.4	424.9	434.3	445.4	423.2	397.2
651.2	17.5°	622.2	571.8	514.1	457.9	416.3	410.9	435.3	461.0	460.0	434.1
666.3	20°	637.6	581.8	512.9	437.4	390.6	395.3	426.5	456.3	468.8	454.8
683.8	22.5°	653.4	591.5	508.2	410.7	366.6	381.4	412.6	438.6	453.4	449.1
705.1	25°	673.3	605.0	501.2	382.0	346.7	367.2	396.4	417.5	427.7	427.5
728.1	27.5°	697.1	623.0	497.5	358.8	332.6	351.2	377.1	395.9	403.1	403.1
756.6	30°	724.8	644.4	493.4	343.6	324.3	334.6	354.7	373.2	380.4	380.4
787.8	32.5°	755.6	664.9	483.5	334.4	318.2	318.4	331.1	347.9	356.6	357.8
826.8	35°	792.5	686.9	462.0	327.0	311.0	302.6	308.8	322.7	333.0	335.6
882.4	37.5°	840.9	713.7	431.2	316.1	299.9	286.0	287.4	298.1	309.4	313.5
959.1	40°	906.0	745.3	399.2	300.5	284.3	267.7	267.1	274.9	286.0	290.5
1062.9	42.5°	991.9	783.3	368.7	285.6	265.5	248.4	247.4	253.6	263.2	267.9
1199.9	45°	1101.9	829.8	342.4	273.9	247.0	230.2	229.8	234.9	243.3	248.2
1375.3	47.5°	1254.7	876.4	324.6	267.7	232.4	215.2	216.0	220.5	228.1	231.6
1602.5	50°	1453.9	890.6	315.5	267.7	224.6	201.9	206.0	209.7	215.4	217.5
1874.7	52.5°	1645.1	843.8	307.3	269.4	225.7	190.6	199.4	202.1	207.0	207.8
2127.0	55°	1738.9	725.4	296.0	269.8	232.0	180.9	194.1	199.0	200.8	200.6
2273.5	57.5°	1706.7	586.5	277.0	268.1	236.3	174.8	187.5	196.9	198.2	196.3
2245.6	60°	1593.6	431.8	262.4	256.0	234.7	172.9	177.5	192.4	194.3	191.8
2030.6	62.5°	1404.1	299.7	251.1	229.4	227.5	172.3	161.7	182.6	187.1	183.6
1632.2	65°	1105.4	211.7	216.2	201.1	211.9	169.0	145.2	170.7	176.8	171.5
1184.1	67.5°	748.0	152.8	175.2	182.2	186.7	161.7	133.3	157.1	165.4	158.4
759.9	70°	403.9	107.3	115.7	153.5	158.6	148.9	122.7	143.4	152.8	145.2
540.2	72.5°	238.6	77.1	81.0	123.3	132.1	131.1	110.8	127.4	138.9	129.9
372.8	75°	131.5	52.1	57.9	89.4	107.3	101.1	95.2	107.9	119.6	110.8
233.7	77.5°	58.9	31.2	40.2	58.7	84.3	69.3	73.6	84.1	95.0	85.8
130.1	80°	22.8	17.4	26.7	32.0	61.3	38.4	47.4	62.0	69.8	62.4
28.3	82.5°	2.9	7.8	11.5	12.5	35.7	20.3	27.5	39.0	38.4	33.2
0.0	85°	0.0	1.4	1.6	0.8	15.4	7.4	9.0	12.7	11.9	9.0
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°
412.4	0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
369.3	2.5°	359.2	351.8	348.1	345.1	347.9	349.6	349.6	356.6	360.7	362.3
334.6	5°	316.6	302.8	293.6	288.0	289.9	291.9	294.2	303.0	309.0	312.9
310.6	7.5°	282.9	262.0	249.1	242.3	243.3	244.7	246.6	255.2	261.2	266.3
306.1	10°	266.3	236.7	219.7	211.5	210.1	209.3	208.6	213.8	218.3	222.4
324.6	12.5°	267.1	225.9	205.2	195.1	190.8	185.9	182.0	182.8	185.7	190.8
357.6	15°	277.6	222.4	197.6	185.0	177.9	172.1	167.4	166.4	167.4	168.2
395.3	17.5°	291.7	222.0	191.0	175.4	168.0	163.3	159.0	157.6	157.8	158.8
420.4	20°	303.0	220.7	183.6	166.2	159.6	155.5	151.2	149.8	150.2	150.4
422.8	22.5°	309.0	218.9	175.4	156.9	151.4	147.3	143.4	143.2	143.2	144.4
409.5	25°	309.0	215.0	168.0	148.1	143.2	139.5	134.8	135.6	136.0	137.7
388.8	27.5°	301.6	207.6	162.1	140.5	135.4	131.7	127.4	128.4	129.0	130.9
368.2	30°	292.1	198.8	155.3	133.3	127.4	124.7	121.0	121.5	122.3	124.3
349.2	32.5°	282.1	188.3	149.8	126.2	120.2	118.2	114.1	114.7	115.5	117.8
330.3	35°	271.0	176.0	143.2	119.6	113.7	112.0	107.3	107.7	108.9	111.4
310.0	37.5°	259.3	166.0	136.6	113.2	107.1	105.4	100.5	100.9	102.4	105.2
288.7	40°	247.8	156.1	129.7	106.5	100.3	98.9	93.5	94.0	95.6	98.7
267.1	42.5°	235.3	148.5	120.6	99.5	92.9	91.5	86.6	87.2	89.0	92.1
247.2	45°	220.3	143.6	110.6	92.9	85.5	84.1	79.6	80.8	82.9	86.0
230.2	47.5°	204.9	141.6	102.2	86.0	78.0	76.7	73.0	75.1	77.3	79.8
215.6	50°	190.2	138.9	93.5	79.4	71.4	70.2	67.7	70.4	72.6	74.9
205.2	52.5°	173.4	133.1	85.8	73.6	65.9	65.4	64.2	66.7	68.7	70.8
196.1	55°	155.9	123.9	79.0	68.5	61.1	61.5	60.9	63.0	64.6	66.5
187.9	57.5°	140.7	112.2	73.6	63.0	57.0	58.3	57.4	58.5	59.5	61.8
178.1	60°	125.3	98.3	67.7	56.4	52.9	54.4	52.1	51.9	52.3	52.9
163.5	62.5°	104.6	83.7	60.3	50.7	48.4	49.0	44.7	41.4	41.4	42.1
143.2	65°	84.1	70.2	52.1	44.1	42.3	41.9	35.7	31.2	30.8	32.6
119.6	67.5°	69.1	58.3	43.9	36.7	35.5	35.9	31.4	26.9	26.5	28.5
97.4	70°	57.2	47.0	35.1	28.3	29.5	31.4	26.9	22.6	22.0	23.8
79.2	72.5°	45.5	36.7	26.9	20.9	24.4	26.7	22.0	17.8	17.4	19.1
61.1	75°	33.4	26.3	18.3	15.2	18.9	20.9	16.0	12.7	12.1	13.5
40.8	77.5°	20.7	14.8	11.5	9.0	12.9	14.0	8.4	7.4	7.2	8.2
24.8	80°	9.6	6.4	5.5	3.1	4.7	5.5	3.5	3.9	4.1	4.9
12.5	82.5°	2.7	1.0	0.2	0.0	0.0	1.6	0.8	1.6	2.1	3.1
1.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	1.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
412.4	0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
373.8	2.5°	382.4	390.6	403.7	417.3	430.6	444.2	457.3	462.0
330.7	5°	346.9	365.8	391.8	419.7	448.5	477.6	504.3	516.4
286.2	7.5°	307.3	334.4	373.6	417.3	463.0	508.8	550.8	570.3
242.1	10°	265.1	299.3	344.0	403.1	468.8	532.0	589.8	615.0
203.3	12.5°	224.8	260.7	310.2	381.0	464.3	545.3	614.8	644.6
176.0	15°	191.2	223.0	276.3	354.7	449.7	546.1	626.7	659.4
160.8	17.5°	166.0	186.7	241.9	325.6	430.6	538.5	630.8	665.7
152.6	20°	153.5	159.2	197.2	288.2	412.8	531.3	634.9	671.7
146.1	22.5°	146.1	147.5	161.3	240.0	391.4	529.1	642.1	679.9
140.1	25°	140.1	140.5	144.2	190.2	358.8	527.7	653.2	691.2
134.0	27.5°	134.2	134.2	136.2	153.2	314.5	521.5	667.6	704.7
127.8	30°	128.2	128.2	129.7	135.6	262.6	509.4	684.8	722.3
121.7	32.5°	122.1	122.1	123.3	127.6	209.7	494.2	700.6	740.2
115.3	35°	115.9	115.5	117.1	121.7	166.8	474.9	716.4	759.5
108.9	37.5°	109.3	109.1	110.8	115.9	144.0	452.6	728.3	785.7
102.6	40°	102.4	102.4	104.2	109.8	137.5	424.5	747.2	823.5
96.0	42.5°	96.0	95.6	97.7	104.4	132.5	397.6	781.0	878.5
90.1	45°	89.9	89.0	90.9	99.3	123.9	388.1	844.2	959.7
84.3	47.5°	84.1	82.1	83.7	93.1	116.1	423.4	947.6	1072.3
79.2	50°	79.4	75.5	76.9	87.0	110.2	500.0	1081.8	1221.9
74.5	52.5°	74.5	69.3	70.2	79.4	104.8	572.8	1227.2	1419.2
69.8	55°	69.3	63.6	64.0	71.8	97.2	583.7	1369.2	1688.4
64.4	57.5°	63.6	58.3	58.3	64.8	91.7	505.9	1478.3	2022.4
57.9	60°	57.2	53.8	52.7	59.3	96.6	357.0	1491.1	2237.8
49.4	62.5°	50.3	48.4	47.0	54.0	100.3	211.5	1388.7	2185.7
39.0	65°	42.3	41.9	40.8	59.3	84.5	124.9	1192.1	2025.9
33.2	67.5°	35.5	34.9	34.9	62.2	64.2	78.6	931.4	1806.0
28.3	70°	30.6	28.3	28.3	47.0	39.0	54.4	650.3	1568.6
23.4	72.5°	25.6	23.2	21.5	37.5	29.1	39.8	406.4	1343.3
17.8	75°	20.5	18.7	16.6	24.8	21.7	30.2	236.1	1113.0
11.3	77.5°	14.8	14.0	11.7	18.3	15.8	21.7	140.5	858.8
7.0	80°	7.6	7.8	7.4	10.5	10.7	14.8	80.0	587.8
4.5	82.5°	4.5	3.5	3.9	5.1	6.2	8.4	30.2	345.5
3.3	85°	2.9	1.8	1.8	2.5	3.1	3.3	9.2	140.1
1.6	87.5°	1.4	0.6	0.8	1.2	1.0	0.8	0.4	35.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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