

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: P945366

Luminaire Tested: **GALN-SB1B-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945366
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA 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: 3863 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

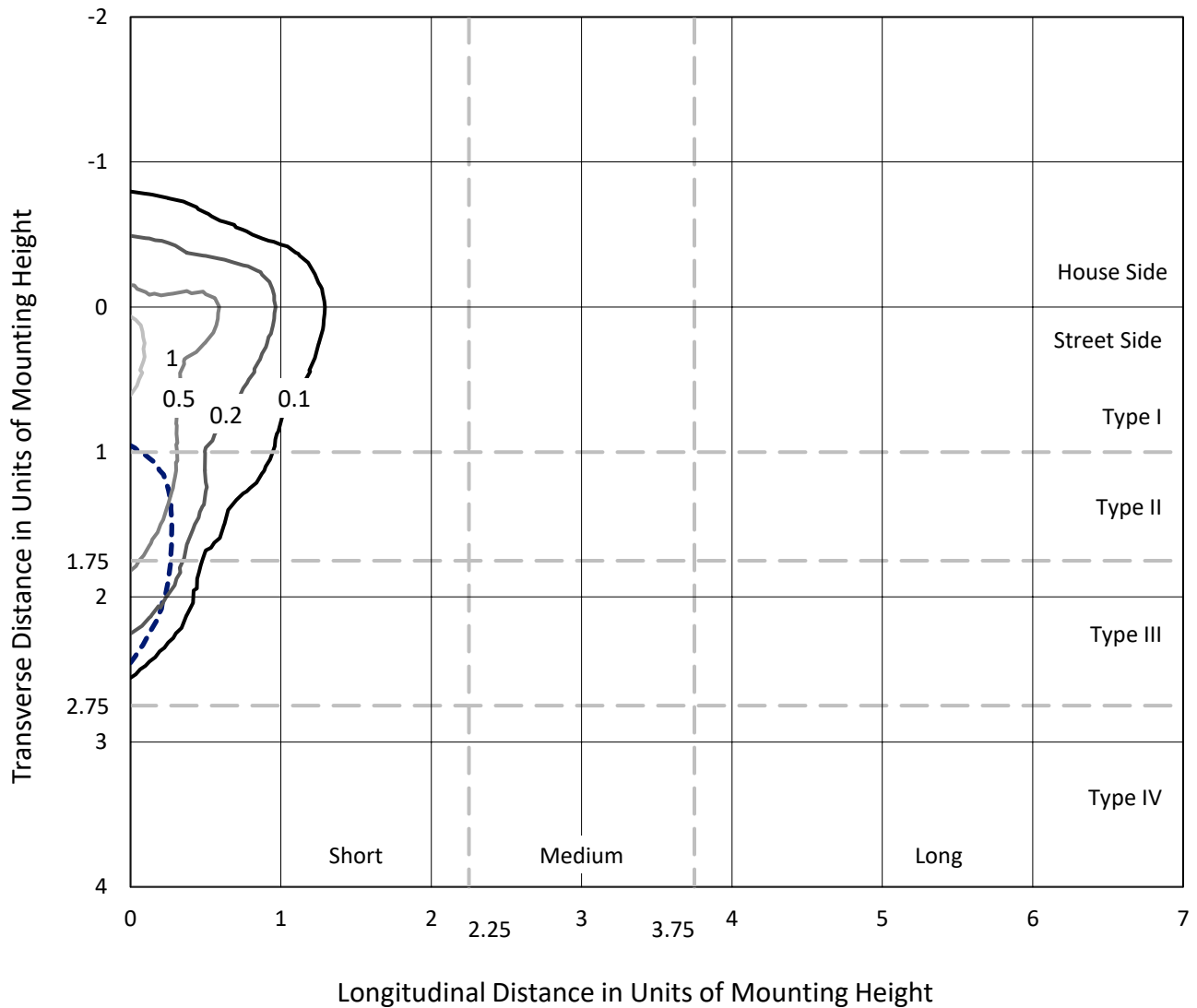
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

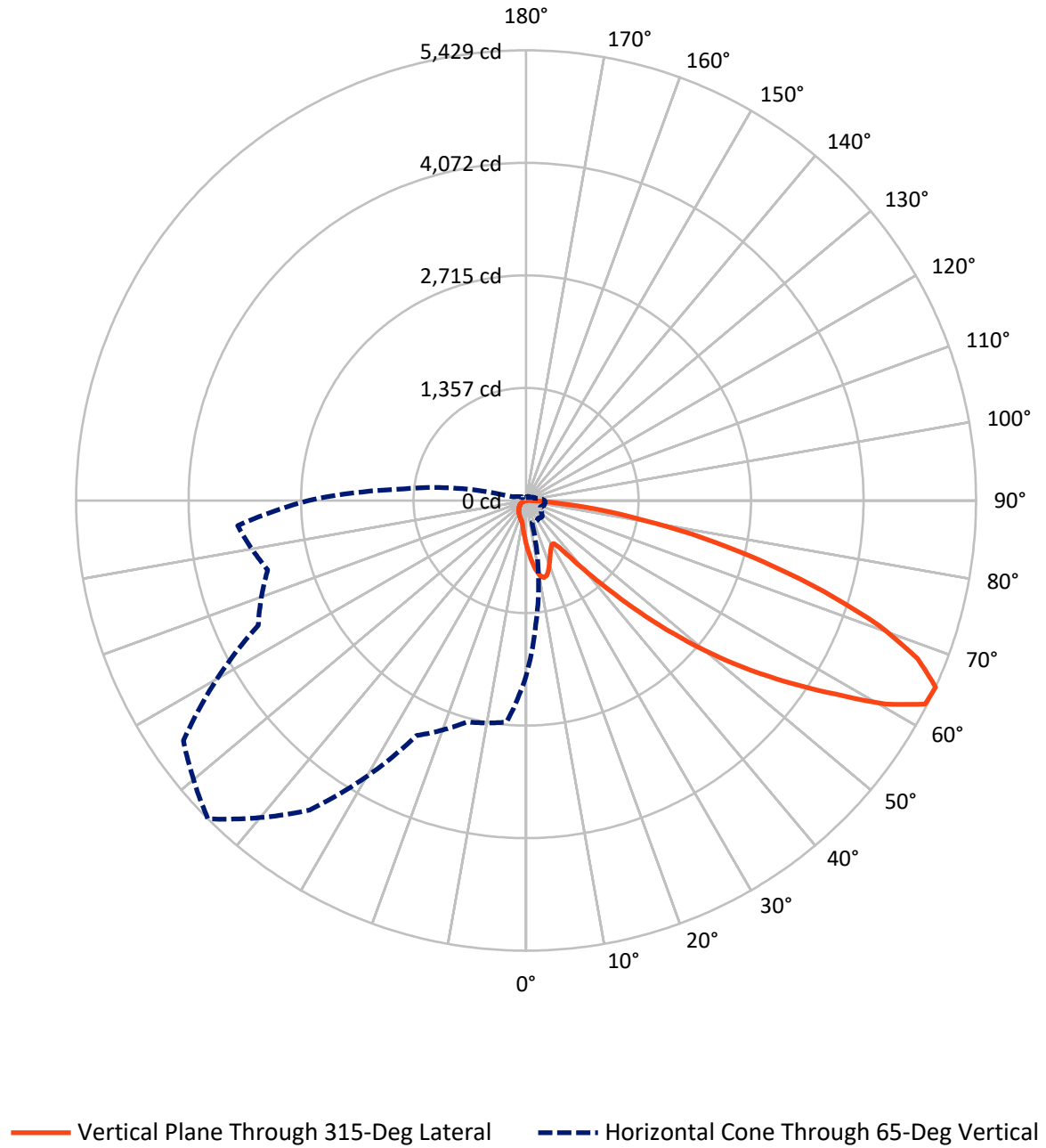
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.0	0.0	541.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3322.0	0.0	3322.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	3863.0	0.0	3863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.4
10°-20°	157.9	4.1
20°-30°	232.6	6.0
30°-40°	298.8	7.7
40°-50°	483.2	12.5
50°-60°	847.4	21.9
60°-70°	1060.3	27.4
70°-80°	619.6	16.0
80°-90°	110.5	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°	3863.0	100.0
0°-180°	3863.0	100.0

Coefficient of Utilization



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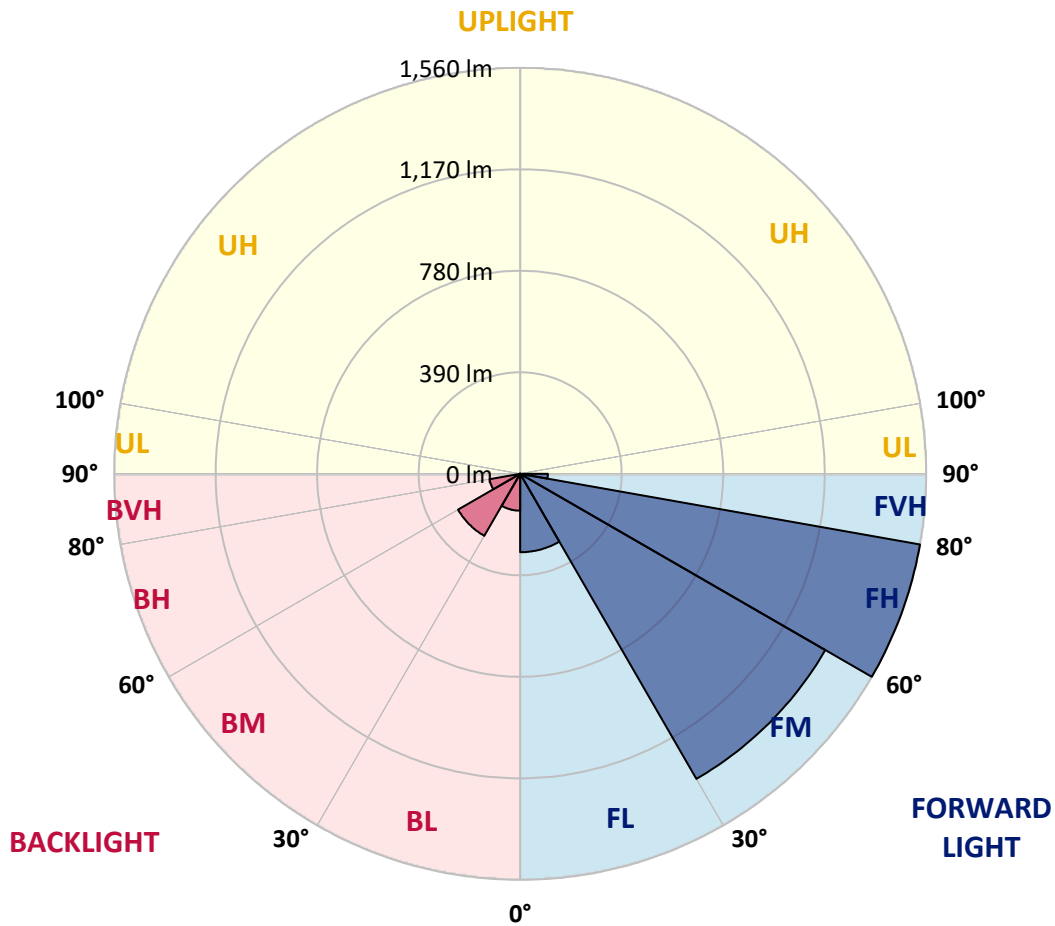
CATALOG NUMBER: GALN-SB1B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.3	7.8			
FM (30°-60°)	1353.9	35.0			
FH (60°-80°)	1560.5	40.4			G1/1800
FVH (80°-90°)	106.3	2.8			G2/225
BL (0°-30°)	141.8	3.7	B1/500		
BM (30°-60°)	275.5	7.1	B1/1000		
BH (60°-80°)	119.5	3.1	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	604.4	594.0	587.9	572.7	557.5	545.3	528.8	517.9	504.8	492.3
5°	673.6	656.8	636.6	608.9	583.6	557.8	532.8	508.0	481.9	458.0
7.5°	732.1	707.9	672.2	635.5	603.3	572.2	542.9	510.2	478.5	441.0
10°	776.8	745.9	699.1	650.9	613.9	582.5	554.1	526.4	494.5	449.2
12.5°	803.9	771.0	715.3	658.9	616.6	581.5	559.4	547.1	534.6	489.7
15°	823.9	788.2	726.8	664.5	610.5	567.4	551.1	563.4	577.7	549.0
17.5°	844.7	807.1	741.7	666.9	594.0	540.0	533.0	564.7	598.0	596.6
20°	864.4	827.1	754.7	665.3	567.4	506.7	512.8	553.3	591.9	608.1
22.5°	887.0	847.6	767.2	659.2	532.8	475.6	494.7	535.2	569.0	588.1
25°	914.7	873.4	784.8	650.1	495.5	449.7	476.4	514.1	541.6	554.9
27.5°	944.5	904.3	808.2	645.3	465.4	431.4	455.6	489.1	513.6	522.9
30°	981.5	940.2	835.9	640.0	445.8	420.7	434.0	460.1	484.1	493.4
32.5°	1021.9	980.1	862.5	627.2	433.8	412.8	413.0	429.5	451.3	462.5
35°	1072.5	1028.0	891.0	599.3	424.2	403.4	392.5	400.5	418.6	431.9
37.5°	1144.6	1090.8	925.8	559.4	410.1	389.1	371.0	372.8	386.7	401.3
40°	1244.1	1175.2	966.8	517.9	389.9	368.8	347.3	346.5	356.6	371.0
42.5°	1378.8	1286.7	1016.0	478.2	370.4	344.4	322.3	320.9	328.9	341.4
45°	1556.5	1429.3	1076.5	444.2	355.3	320.4	298.6	298.1	304.7	315.6
47.5°	1784.1	1627.6	1136.9	421.0	347.3	301.5	279.2	280.2	286.1	295.9
50°	2078.7	1886.0	1155.2	409.3	347.3	291.4	261.9	267.2	272.0	279.4
52.5°	2431.8	2134.0	1094.6	398.6	349.4	292.7	247.2	258.7	262.1	268.5
55°	2759.1	2255.6	941.0	384.0	349.9	301.0	234.7	251.7	258.1	260.5
57.5°	2949.1	2213.9	760.8	359.3	347.8	306.6	226.7	243.2	255.5	257.1
60°	2913.0	2067.2	560.2	340.4	332.1	304.4	224.3	230.2	249.6	252.0
62.5°	2634.1	1821.3	388.8	325.7	297.5	295.1	223.5	209.7	236.8	242.7
65°	2117.3	1433.9	274.6	280.5	260.8	274.9	219.3	188.4	221.4	229.4
67.5°	1536.0	970.3	198.3	227.3	236.3	242.2	209.7	173.0	203.8	214.5
70°	985.7	524.0	139.2	150.1	199.1	205.7	193.2	159.1	186.0	198.3
72.5°	700.7	309.5	100.1	105.1	159.9	171.4	170.1	143.7	165.3	180.2
75°	483.5	170.6	67.6	75.0	116.0	139.2	131.2	123.5	140.0	155.1
77.5°	303.1	76.4	40.5	52.2	76.1	109.4	89.9	95.5	109.1	123.2
80°	168.7	29.5	22.6	34.6	41.5	79.6	49.8	61.5	80.4	90.5
82.5°	36.7	3.7	10.1	14.9	16.2	46.3	26.3	35.7	50.6	49.8
85°	0.0	0.0	1.9	2.1	1.1	20.0	9.6	11.7	16.5	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
481.1	2.5°	479.0	466.0	456.4	451.6	447.6	451.3	453.5	453.5	462.5	467.8
443.4	5°	434.0	410.6	392.8	380.8	373.6	376.0	378.7	381.6	393.1	400.8
421.0	7.5°	402.9	367.0	339.8	323.1	314.3	315.6	317.5	319.9	331.1	338.8
424.2	10°	397.1	345.4	307.1	285.0	274.4	272.5	271.4	270.6	277.3	283.2
460.4	12.5°	421.0	346.5	293.0	266.1	253.1	247.5	241.1	236.0	237.1	240.8
515.2	15°	463.8	360.1	288.5	256.3	240.0	230.7	223.3	217.2	215.8	217.2
563.1	17.5°	512.8	378.4	287.9	247.8	227.5	218.0	211.8	206.2	204.4	204.6
590.0	20°	545.3	393.1	286.3	238.2	215.6	207.0	201.7	196.1	194.3	194.8
582.5	22.5°	548.5	400.8	284.0	227.5	203.6	196.4	191.1	186.0	185.8	185.8
554.6	25°	531.2	400.8	278.9	218.0	192.1	185.8	181.0	174.8	175.9	176.4
522.9	27.5°	504.3	391.2	269.3	210.2	182.3	175.6	170.8	165.3	166.6	167.4
493.4	30°	477.7	379.0	257.9	201.5	173.0	165.3	161.8	157.0	157.5	158.6
464.1	32.5°	452.9	365.9	244.3	194.3	163.7	155.9	153.3	148.0	148.8	149.8
435.4	35°	428.5	351.5	228.3	185.8	155.1	147.4	145.3	139.2	139.7	141.3
406.6	37.5°	402.1	336.4	215.3	177.2	146.9	138.9	136.8	130.4	130.9	132.8
376.8	40°	374.4	321.5	202.5	168.2	138.1	130.1	128.3	121.4	121.9	124.0
347.6	42.5°	346.5	305.2	192.7	156.5	129.1	120.6	118.7	112.3	113.1	115.5
322.0	45°	320.7	285.8	186.3	143.4	120.6	111.0	109.1	103.3	104.9	107.5
300.4	47.5°	298.6	265.9	183.6	132.5	111.5	101.1	99.5	94.7	97.4	100.3
282.1	50°	279.7	246.7	180.2	121.4	103.0	92.6	91.0	87.8	91.3	94.2
269.6	52.5°	266.1	224.9	172.7	111.2	95.5	85.4	84.9	83.3	86.5	89.2
260.3	55°	254.4	202.3	160.7	102.5	88.9	79.3	79.8	79.0	81.7	83.8
254.7	57.5°	243.8	182.6	145.6	95.5	81.7	74.0	75.6	74.5	75.8	77.2
248.8	60°	231.0	162.6	127.5	87.8	73.2	68.7	70.5	67.6	67.3	67.9
238.2	62.5°	212.1	135.7	108.6	78.2	65.7	62.8	63.6	58.0	53.8	53.8
222.5	65°	185.8	109.1	91.0	67.6	57.2	54.8	54.3	46.3	40.5	39.9
205.4	67.5°	155.1	89.7	75.6	56.9	47.6	46.0	46.6	40.7	34.9	34.3
188.4	70°	126.4	74.2	60.9	45.5	36.7	38.3	40.7	34.9	29.3	28.5
168.5	72.5°	102.7	59.1	47.6	34.9	27.1	31.7	34.6	28.5	23.2	22.6
143.7	75°	79.3	43.4	34.1	23.7	19.7	24.5	27.1	20.8	16.5	15.7
111.2	77.5°	53.0	26.9	19.2	14.9	11.7	16.8	18.1	10.9	9.6	9.3
80.9	80°	32.2	12.5	8.2	7.2	4.0	6.1	7.2	4.5	5.1	5.3
43.1	82.5°	16.2	3.5	1.3	0.3	0.0	0.0	2.1	1.1	2.1	2.7
11.7	85°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3
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°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
470.0	2.5°	484.9	496.0	506.7	523.7	541.3	558.6	576.2	593.2	599.3	603.8
405.8	5°	429.0	450.0	474.5	508.3	544.5	581.7	619.5	654.1	669.8	680.5
345.4	7.5°	371.2	398.6	433.8	484.6	541.3	600.6	660.0	714.5	739.8	760.3
288.5	10°	314.0	343.8	388.3	446.3	522.9	608.1	690.1	765.1	797.8	823.6
247.5	12.5°	263.7	291.7	338.2	402.4	494.2	602.2	707.3	797.6	836.2	865.2
218.2	15°	228.3	248.0	289.3	358.5	460.1	583.3	708.4	813.0	855.3	885.6
206.0	17.5°	208.6	215.3	242.2	313.8	422.3	558.6	698.6	818.3	863.6	891.8
195.1	20°	198.0	199.1	206.5	255.7	373.9	535.4	689.3	823.6	871.3	895.0
187.3	22.5°	189.5	189.5	191.3	209.2	311.4	507.8	686.3	833.0	881.9	896.6
178.6	25°	181.8	181.8	182.3	187.1	246.7	465.4	684.5	847.3	896.6	900.6
169.8	27.5°	173.8	174.0	174.0	176.7	198.8	408.0	676.5	866.0	914.1	905.9
161.3	30°	165.8	166.3	166.3	168.2	175.9	340.6	660.8	888.3	937.0	912.8
152.8	32.5°	157.8	158.3	158.3	159.9	165.5	272.0	641.1	908.8	960.2	915.7
144.5	35°	149.6	150.4	149.8	152.0	157.8	216.4	616.1	929.3	985.2	925.0
136.5	37.5°	141.3	141.8	141.6	143.7	150.4	186.8	587.1	944.7	1019.2	945.8
128.0	40°	133.1	132.8	132.8	135.2	142.4	178.3	550.6	969.2	1068.2	982.3
119.5	42.5°	124.5	124.5	124.0	126.7	135.5	171.9	515.7	1013.1	1139.5	1040.3
111.5	45°	116.8	116.6	115.5	117.9	128.8	160.7	503.5	1095.1	1244.9	1134.2
103.5	47.5°	109.4	109.1	106.4	108.6	120.8	150.6	549.3	1229.2	1391.0	1272.3
97.1	50°	102.7	103.0	97.9	99.8	112.8	142.9	648.5	1403.3	1585.0	1458.3
91.8	52.5°	96.6	96.6	89.9	91.0	103.0	136.0	743.0	1591.9	1841.0	1717.8
86.2	55°	90.5	89.9	82.5	83.0	93.1	126.1	757.1	1776.1	2190.2	2108.2
80.1	57.5°	83.6	82.5	75.6	75.6	84.1	119.0	656.3	1917.7	2623.4	2682.0
68.7	60°	75.0	74.2	69.7	68.4	76.9	125.3	463.0	1934.2	2902.8	3444.9
54.6	62.5°	64.1	65.2	62.8	60.9	70.0	130.1	274.4	1801.4	2835.2	3687.6
42.3	65°	50.6	54.8	54.3	53.0	76.9	109.6	162.1	1546.4	2627.9	3491.8
37.0	67.5°	43.1	46.0	45.2	45.2	80.6	83.3	101.9	1208.2	2342.7	3259.4
30.9	70°	36.7	39.7	36.7	36.7	60.9	50.6	70.5	843.6	2034.8	3002.4
24.7	72.5°	30.3	33.3	30.1	27.9	48.7	37.8	51.6	527.2	1742.6	2734.7
17.6	75°	23.2	26.6	24.2	21.6	32.2	28.2	39.1	306.3	1443.7	2339.7
10.6	77.5°	14.6	19.2	18.1	15.2	23.7	20.5	28.2	182.3	1114.0	1828.2
6.4	80°	9.0	9.8	10.1	9.6	13.6	13.8	19.2	103.8	762.4	1274.2
4.0	82.5°	5.9	5.9	4.5	5.1	6.7	8.0	10.9	39.1	448.1	775.7
2.4	85°	4.3	3.7	2.4	2.4	3.2	4.0	4.3	12.0	181.8	306.3
1.1	87.5°	2.1	1.9	0.8	1.1	1.6	1.3	1.1	0.5	45.8	97.9
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°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
613.9	2.5°	619.3	627.5	628.0	628.0	620.9	620.6	606.0	604.4
704.4	5°	729.2	734.5	735.8	733.2	718.8	708.1	679.7	673.6
796.8	7.5°	829.8	840.4	840.4	834.0	810.6	788.8	747.5	732.1
873.1	10°	910.1	922.4	919.7	906.7	877.1	847.1	797.0	776.8
919.4	12.5°	949.3	961.8	954.8	939.9	911.2	879.5	826.8	803.9
932.8	15°	948.5	945.0	937.8	935.9	922.1	898.2	848.9	823.9
924.5	17.5°	914.7	885.4	879.8	898.4	916.0	910.1	868.1	844.7
904.8	20°	861.2	810.1	805.0	840.7	890.7	916.3	885.9	864.4
876.3	22.5°	804.7	749.7	738.0	777.3	852.6	918.1	908.5	887.0
844.9	25°	751.3	695.9	684.2	720.9	810.3	914.9	933.0	914.7
814.9	27.5°	706.5	653.1	642.1	678.9	769.6	905.9	957.5	944.5
785.1	30°	672.0	622.5	614.5	649.9	734.5	894.7	988.6	981.5
757.4	32.5°	651.7	615.5	618.5	647.5	715.6	882.5	1018.4	1021.9
743.8	35°	671.7	673.3	698.8	710.8	733.2	880.6	1058.9	1072.5
760.0	37.5°	771.0	826.3	879.3	869.4	819.1	902.1	1119.3	1144.6
830.8	40°	939.9	1053.6	1139.5	1102.0	975.3	968.1	1206.3	1244.1
956.4	42.5°	1146.4	1339.1	1480.7	1380.1	1176.8	1083.6	1330.6	1378.8
1108.4	45°	1364.4	1691.2	1914.2	1705.0	1391.5	1245.4	1518.7	1556.5
1250.8	47.5°	1594.1	2119.1	2407.6	2065.4	1590.6	1429.6	1775.3	1784.1
1385.7	50°	1845.3	2588.3	2910.6	2425.4	1782.7	1640.6	2088.8	2078.7
1543.0	52.5°	2084.5	3070.8	3402.9	2787.1	1951.5	1902.5	2452.6	2431.8
1758.0	55°	2312.9	3553.0	3898.1	3134.6	2110.6	2248.5	2884.7	2759.1
2068.0	57.5°	2577.6	3986.5	4408.5	3483.8	2333.1	2697.7	3368.0	2949.1
2661.7	60°	2969.1	4479.1	4985.8	3962.3	2756.2	3169.8	3541.3	2913.0
3372.8	62.5°	3468.9	4932.0	5405.4	4431.2	3181.2	3258.6	3286.1	2634.1
3227.8	65°	3566.0	5046.7	5429.1	4556.5	3126.4	2764.2	2682.8	2117.3
2883.1	67.5°	3308.4	4839.4	5098.1	4323.1	2765.5	2136.1	2013.2	1536.0
2656.9	70°	3019.4	4444.2	4521.1	3926.3	2432.3	1571.2	1359.6	985.7
2502.1	72.5°	2723.2	3917.0	3757.9	3409.8	2137.7	1144.1	980.7	700.7
2281.4	75°	2371.4	3223.8	2960.1	2833.1	1770.0	897.9	709.5	483.5
1962.4	77.5°	1899.0	2269.2	2198.7	2196.0	1330.1	656.0	473.4	303.1
1533.1	80°	1339.6	1472.7	1436.8	1653.9	892.3	475.8	285.0	168.7
1067.1	82.5°	648.5	814.3	835.9	984.9	434.0	280.0	65.7	36.7
417.3	85°	253.9	392.8	331.3	373.9	121.9	78.0	1.6	0.0
68.7	87.5°	28.5	45.5	41.8	33.0	14.9	3.2	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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