

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: P945238

Luminaire Tested: **GALN-SB1B-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945238
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA 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: 4299 lumens
Efficiency: N/A
Efficacy: 108.0 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

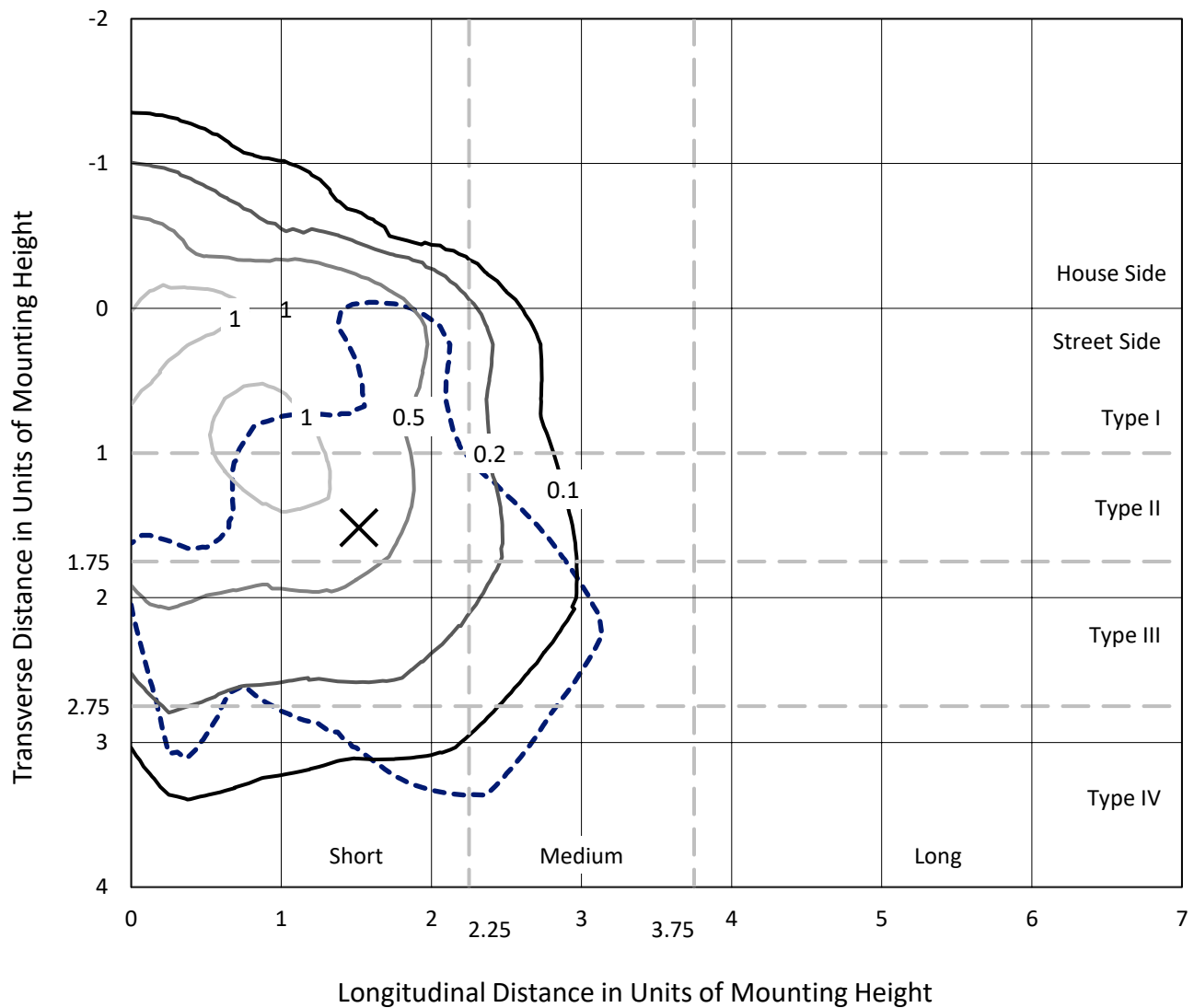


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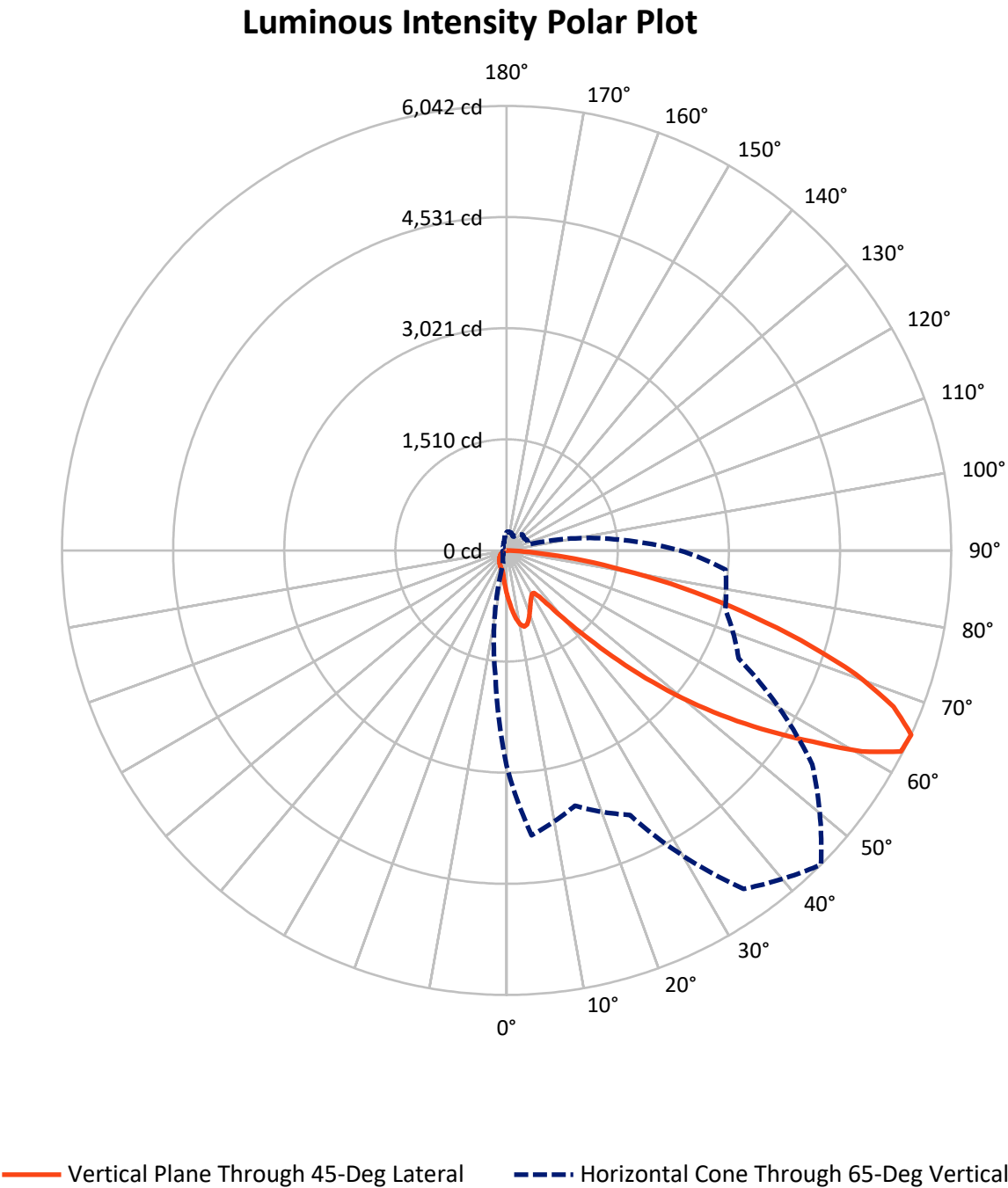
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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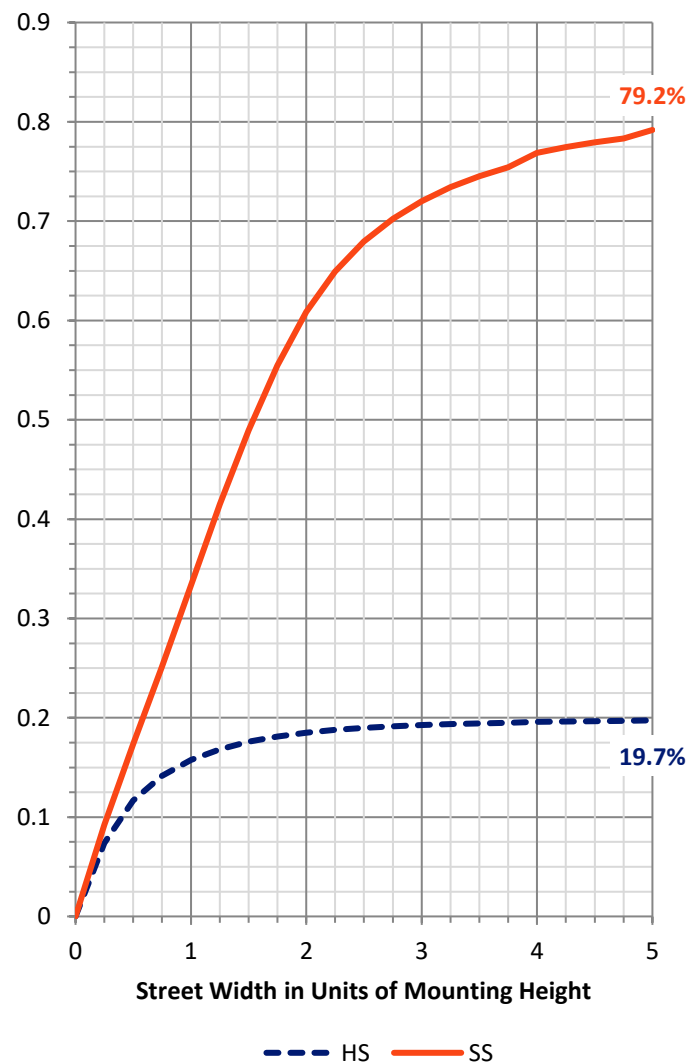
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.5	0.0	854.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3444.5	0.0	3444.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	4299.0	0.0	4299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.4
10°-20°	175.7	4.1
20°-30°	258.8	6.0
30°-40°	332.5	7.7
40°-50°	537.8	12.5
50°-60°	943.0	21.9
60°-70°	1180.0	27.4
70°-80°	689.5	16.0
80°-90°	123.0	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°	4299.0	100.0
0°-180°	4299.0	100.0

Coefficient of Utilization



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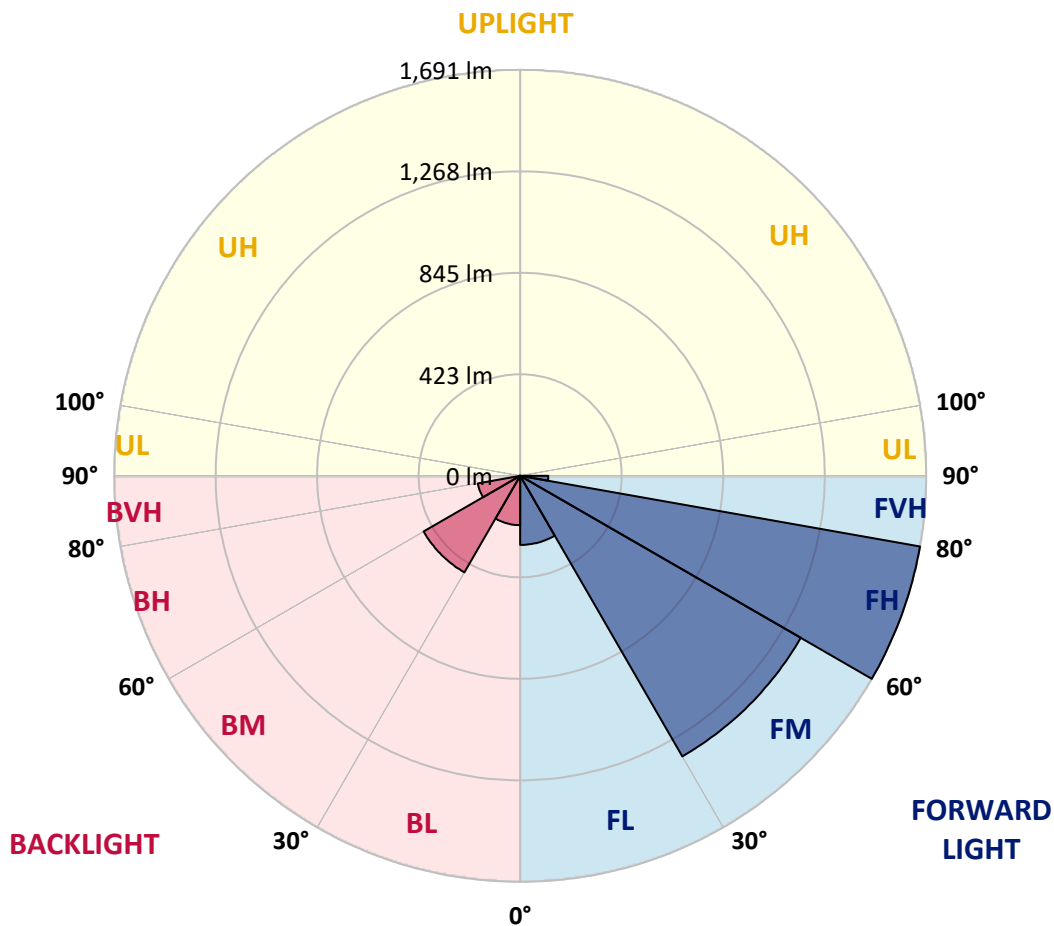
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.7	6.7			
FM	(30°-60°)	1349.1	31.4			
FH	(60°-80°)	1690.5	39.3			G1/1800
FVH	(80°-90°)	117.3	2.7			G2/225
BL	(0°-30°)	205.5	4.8	B1/500		
BM	(30°-60°)	464.2	10.8	B1/1000		
BH	(60°-80°)	179.0	4.2	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	90°
0°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	666.9	672.0	683.2	689.2	698.3	698.9	698.9	690.9	690.6	674.3	672.6
5°	745.4	757.3	783.9	811.5	817.4	818.9	815.9	799.9	788.1	756.4	749.6
7.5°	823.3	846.1	886.7	923.4	935.3	935.3	928.2	902.1	877.8	831.9	814.7
10°	887.9	916.6	971.7	1012.9	1026.5	1023.5	1009.0	976.1	942.7	887.0	864.5
12.5°	930.5	962.8	1023.2	1056.4	1070.3	1062.6	1046.0	1014.0	978.8	920.2	894.7
15°	951.8	985.6	1038.0	1055.5	1051.7	1043.7	1041.6	1026.2	999.5	944.7	916.9
17.5°	961.0	992.4	1028.8	1017.9	985.3	979.1	999.8	1019.4	1012.9	966.1	940.0
20°	969.6	996.0	1006.9	958.4	901.5	895.9	935.6	991.2	1019.7	985.9	961.9
22.5°	981.5	997.8	975.2	895.6	834.3	821.2	865.1	948.9	1021.7	1011.1	987.1
25°	997.8	1002.2	940.3	836.0	774.4	761.4	802.3	901.8	1018.2	1038.3	1017.9
27.5°	1017.3	1008.1	906.8	786.3	726.8	714.6	755.5	856.5	1008.1	1065.6	1051.1
30°	1042.8	1015.8	873.7	747.8	692.7	683.8	723.2	817.4	995.7	1100.2	1092.2
32.5°	1068.5	1019.1	842.9	725.3	685.0	688.3	720.5	796.4	982.1	1133.4	1137.2
35°	1096.4	1029.4	827.8	747.5	749.3	777.7	791.0	815.9	980.0	1178.4	1193.5
37.5°	1134.3	1052.5	845.8	858.0	919.6	978.5	967.5	911.6	1004.0	1245.6	1273.8
40°	1188.8	1093.1	924.6	1046.0	1172.5	1268.1	1226.4	1085.4	1077.4	1342.5	1384.5
42.5°	1268.1	1157.7	1064.4	1275.8	1490.3	1647.8	1535.9	1309.6	1205.9	1480.8	1534.4
45°	1385.4	1262.2	1233.5	1518.4	1882.1	2130.3	1897.5	1548.6	1386.0	1690.2	1732.2
47.5°	1548.0	1415.9	1391.9	1774.0	2358.3	2679.3	2298.5	1770.1	1591.0	1975.7	1985.4
50°	1763.9	1622.9	1542.1	2053.5	2880.4	3239.1	2699.2	1984.0	1825.8	2324.5	2313.3
52.5°	2048.8	1911.7	1717.1	2319.8	3417.3	3786.9	3101.6	2171.7	2117.2	2729.4	2706.3
55°	2437.4	2346.1	1956.4	2573.9	3954.0	4338.1	3488.4	2348.8	2502.2	3210.3	3070.5
57.5°	2919.5	2984.7	2301.4	2868.6	4436.4	4906.1	3877.0	2596.4	3002.1	3748.2	3282.0
60°	3230.5	3833.7	2962.2	3304.2	4984.6	5548.5	4409.5	3067.3	3527.5	3941.0	3241.7
62.5°	3155.2	4103.8	3753.5	3860.4	5488.7	6015.5	4931.3	3540.3	3626.4	3656.9	2931.4
65°	2924.5	3885.9	3592.1	3968.5	5616.3	6041.9	5070.8	3479.2	3076.2	2985.6	2356.2
67.5°	2607.1	3627.3	3208.6	3681.8	5385.6	5673.5	4811.1	3077.7	2377.2	2240.4	1709.4
70°	2264.4	3341.2	2956.8	3360.2	4945.8	5031.4	4369.5	2706.9	1748.5	1513.1	1097.0
72.5°	1939.2	3043.3	2784.5	3030.6	4359.1	4182.0	3794.6	2379.0	1273.2	1091.3	779.8
75°	1606.6	2603.8	2538.9	2639.0	3587.6	3294.1	3152.9	1969.7	999.2	789.6	538.1
77.5°	1239.7	2034.6	2183.9	2113.4	2525.3	2446.8	2443.9	1480.2	730.0	526.9	337.3
80°	848.5	1418.0	1706.2	1490.9	1638.9	1598.9	1840.6	993.0	529.5	317.2	187.8
82.5°	498.7	863.3	1187.6	721.7	906.2	930.2	1096.1	483.0	311.6	73.2	40.9
85°	202.3	340.9	464.4	282.5	437.1	368.7	416.1	135.6	86.8	1.8	0.0
87.5°	50.9	109.0	76.4	31.7	50.6	46.5	36.7	16.6	3.6	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	661.0	654.2	637.3	620.4	606.8	588.5	576.3	561.8	547.9	535.5	533.1
5°	730.9	708.4	677.6	649.5	620.7	592.9	565.4	536.3	509.7	493.4	483.0
7.5°	787.8	748.1	707.2	671.4	636.7	604.2	567.7	532.5	490.7	468.5	448.4
10°	830.1	778.0	724.4	683.2	648.3	616.6	585.8	550.3	499.9	472.1	441.9
12.5°	858.0	796.1	733.3	686.2	647.1	622.5	608.9	595.0	544.9	512.4	468.5
15°	877.2	808.8	739.5	679.4	631.4	613.3	627.0	643.0	611.0	573.4	516.2
17.5°	898.2	825.4	742.2	661.0	600.9	593.2	628.4	665.5	664.0	626.7	570.7
20°	920.5	839.9	740.4	631.4	563.9	570.7	615.7	658.7	676.7	656.6	606.8
22.5°	943.3	853.8	733.6	592.9	529.2	550.6	595.6	633.2	654.5	648.3	610.4
25°	972.0	873.4	723.5	551.4	500.5	530.1	572.2	602.7	617.5	617.2	591.1
27.5°	1006.3	899.4	718.2	518.0	480.1	507.0	544.3	571.6	581.9	581.9	561.2
30°	1046.3	930.2	712.3	496.1	468.2	483.0	512.1	538.7	549.1	549.1	531.6
32.5°	1090.7	959.8	698.0	482.7	459.3	459.6	478.0	502.3	514.7	516.5	504.1
35°	1144.1	991.5	666.9	472.1	449.0	436.8	445.7	465.9	480.7	484.5	476.8
37.5°	1213.9	1030.3	622.5	456.4	433.0	412.8	414.9	430.3	446.6	452.5	447.5
40°	1307.8	1075.9	576.3	433.9	410.5	386.5	385.6	396.8	412.8	419.4	416.7
42.5°	1431.9	1130.7	532.2	412.2	383.2	358.6	357.2	366.0	380.0	386.8	385.6
45°	1590.7	1198.0	494.3	395.4	356.6	332.3	331.7	339.1	351.2	358.3	356.9
47.5°	1811.3	1265.2	468.5	386.5	335.5	310.7	311.9	318.4	329.3	334.4	332.3
50°	2098.9	1285.6	455.5	386.5	324.3	291.4	297.3	302.7	311.0	313.9	311.3
52.5°	2374.9	1218.1	443.6	388.9	325.8	275.1	287.9	291.7	298.8	300.0	296.2
55°	2510.2	1047.2	427.4	389.4	335.0	261.2	280.2	287.3	289.9	289.6	283.1
57.5°	2463.7	846.7	399.8	387.1	341.2	252.3	270.7	284.3	286.1	283.4	271.3
60°	2300.5	623.4	378.8	369.6	338.8	249.7	256.2	277.8	280.5	276.9	257.1
62.5°	2026.9	432.7	362.5	331.1	328.4	248.8	233.4	263.6	270.1	265.1	236.0
65°	1595.7	305.6	312.1	290.2	305.9	244.0	209.7	246.4	255.3	247.6	206.7
67.5°	1079.8	220.6	252.9	263.0	269.5	233.4	192.5	226.9	238.7	228.6	172.7
70°	583.1	154.9	167.0	221.5	228.9	215.0	177.1	207.0	220.6	209.7	140.7
72.5°	344.4	111.4	117.0	178.0	190.7	189.2	159.9	183.9	200.5	187.5	114.3
75°	189.8	75.2	83.5	129.1	154.9	146.0	137.4	155.8	172.7	159.9	88.3
77.5°	85.0	45.0	58.0	84.7	121.7	100.1	106.3	121.4	137.1	123.8	58.9
80°	32.9	25.2	38.5	46.2	88.6	55.4	68.4	89.4	100.7	90.0	35.8
82.5°	4.1	11.3	16.6	18.1	51.5	29.3	39.7	56.3	55.4	48.0	18.1
85°	0.0	2.1	2.4	1.2	22.2	10.7	13.0	18.4	17.2	13.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	518.6	507.9	502.6	498.1	502.3	504.7	504.7	514.7	520.6	523.0	539.6
5°	457.0	437.1	423.8	415.8	418.5	421.4	424.7	437.4	446.0	451.6	477.4
7.5°	408.4	378.2	359.5	349.8	351.2	353.3	356.0	368.4	377.0	384.4	413.1
10°	384.4	341.8	317.2	305.3	303.3	302.1	301.2	308.6	315.1	321.0	349.5
12.5°	385.6	326.1	296.2	281.6	275.4	268.3	262.7	263.9	268.0	275.4	293.5
15°	400.7	321.0	285.2	267.1	256.8	248.5	241.7	240.2	241.7	242.8	254.1
17.5°	421.1	320.4	275.7	253.2	242.6	235.7	229.5	227.4	227.7	229.2	232.2
20°	437.4	318.7	265.1	239.9	230.4	224.5	218.3	216.2	216.8	217.1	220.3
22.5°	446.0	316.0	253.2	226.6	218.6	212.6	207.0	206.7	206.7	208.5	210.9
25°	446.0	310.4	242.6	213.8	206.7	201.4	194.6	195.8	196.4	198.7	202.3
27.5°	435.3	299.7	234.0	202.9	195.5	190.1	183.9	185.4	186.3	188.9	193.4
30°	421.7	287.0	224.2	192.5	183.9	180.1	174.7	175.3	176.5	179.5	184.5
32.5°	407.2	271.9	216.2	182.1	173.5	170.6	164.7	165.6	166.7	170.0	175.6
35°	391.2	254.1	206.7	172.7	164.1	161.7	154.9	155.5	157.3	160.8	166.4
37.5°	374.3	239.6	197.2	163.5	154.6	152.2	145.1	145.7	147.8	151.9	157.3
40°	357.8	225.4	187.2	153.7	144.8	142.7	135.0	135.6	138.0	142.5	148.1
42.5°	339.7	214.4	174.1	143.6	134.2	132.1	125.0	125.9	128.5	133.0	138.6
45°	318.1	207.3	159.6	134.2	123.5	121.4	114.9	116.7	119.6	124.1	130.0
47.5°	295.9	204.3	147.5	124.1	112.5	110.8	105.4	108.4	111.7	115.2	121.7
50°	274.5	200.5	135.0	114.6	103.1	101.3	97.7	101.6	104.8	108.1	114.3
52.5°	250.3	192.2	123.8	106.3	95.1	94.5	92.7	96.3	99.2	102.2	107.5
55°	225.1	178.9	114.0	98.9	88.3	88.8	88.0	90.9	93.3	96.0	100.7
57.5°	203.2	162.0	106.3	90.9	82.3	84.1	82.9	84.4	85.9	89.1	93.0
60°	181.0	141.9	97.7	81.4	76.4	78.5	75.2	74.9	75.5	76.4	83.5
62.5°	151.0	120.8	87.1	73.2	69.9	70.8	64.6	59.8	59.8	60.7	71.4
65°	121.4	101.3	75.2	63.7	61.0	60.4	51.5	45.0	44.4	47.1	56.3
67.5°	99.8	84.1	63.4	53.0	51.2	51.8	45.3	38.8	38.2	41.2	48.0
70°	82.6	67.8	50.6	40.9	42.6	45.3	38.8	32.6	31.7	34.4	40.9
72.5°	65.7	53.0	38.8	30.2	35.2	38.5	31.7	25.8	25.2	27.5	33.8
75°	48.3	37.9	26.4	21.9	27.2	30.2	23.1	18.4	17.5	19.5	25.8
77.5°	29.9	21.3	16.6	13.0	18.7	20.1	12.1	10.7	10.4	11.8	16.3
80°	13.9	9.2	8.0	4.4	6.8	8.0	5.0	5.6	5.9	7.1	10.1
82.5°	3.9	1.5	0.3	0.0	0.0	2.4	1.2	2.4	3.0	4.4	6.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.5	2.7	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	552.0	563.9	582.8	602.4	621.6	641.2	660.1	666.9
5°	500.8	528.0	565.7	605.9	647.4	689.5	728.0	745.4
7.5°	443.6	482.7	539.3	602.4	668.4	734.5	795.2	823.3
10°	382.6	432.1	496.7	581.9	676.7	767.9	851.4	887.9
12.5°	324.6	376.4	447.8	550.0	670.2	787.2	887.6	930.5
15°	276.0	321.9	398.9	512.1	649.2	788.4	904.8	951.8
17.5°	239.6	269.5	349.2	470.0	621.6	777.4	910.7	961.0
20°	221.5	229.8	284.6	416.1	595.9	767.0	916.6	969.6
22.5°	210.9	212.9	232.8	346.5	565.1	763.8	927.0	981.5
25°	202.3	202.9	208.2	274.5	518.0	761.7	943.0	997.8
27.5°	193.7	193.7	196.6	221.2	454.0	752.8	963.7	1017.3
30°	185.1	185.1	187.2	195.8	379.1	735.4	988.6	1042.8
32.5°	176.2	176.2	178.0	184.2	302.7	713.4	1011.4	1068.5
35°	167.3	166.7	169.1	175.6	240.8	685.6	1034.2	1096.4
37.5°	157.9	157.6	159.9	167.3	207.9	653.3	1051.4	1134.3
40°	147.8	147.8	150.4	158.4	198.4	612.7	1078.6	1188.8
42.5°	138.6	138.0	141.0	150.7	191.3	574.0	1127.5	1268.1
45°	129.7	128.5	131.2	143.3	178.9	560.3	1218.7	1385.4
47.5°	121.4	118.5	120.8	134.5	167.6	611.3	1367.9	1548.0
50°	114.6	109.0	111.1	125.6	159.0	721.7	1561.6	1763.9
52.5°	107.5	100.1	101.3	114.6	151.3	826.9	1771.6	2048.8
55°	100.1	91.8	92.4	103.7	140.4	842.6	1976.5	2437.4
57.5°	91.8	84.1	84.1	93.6	132.4	730.3	2134.1	2919.5
60°	82.6	77.6	76.1	85.6	139.5	515.3	2152.5	3230.5
62.5°	72.6	69.9	67.8	77.9	144.8	305.3	2004.7	3155.2
65°	61.0	60.4	58.9	85.6	122.0	180.4	1721.0	2924.5
67.5°	51.2	50.3	50.3	89.7	92.7	113.4	1344.5	2607.1
70°	44.1	40.9	40.9	67.8	56.3	78.5	938.8	2264.4
72.5°	37.0	33.5	31.1	54.2	42.1	57.5	586.7	1939.2
75°	29.6	27.0	24.0	35.8	31.4	43.5	340.9	1606.6
77.5°	21.3	20.1	16.9	26.4	22.8	31.4	202.9	1239.7
80°	11.0	11.3	10.7	15.1	15.4	21.3	115.5	848.5
82.5°	6.5	5.0	5.6	7.4	8.9	12.1	43.5	498.7
85°	4.1	2.7	2.7	3.6	4.4	4.7	13.3	202.3
87.5°	2.1	0.9	1.2	1.8	1.5	1.2	0.6	50.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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