

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: P945217

Luminaire Tested: **GALN-SB1B-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945217
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 3987 lumens
Efficiency: N/A
Efficacy: 100.2 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

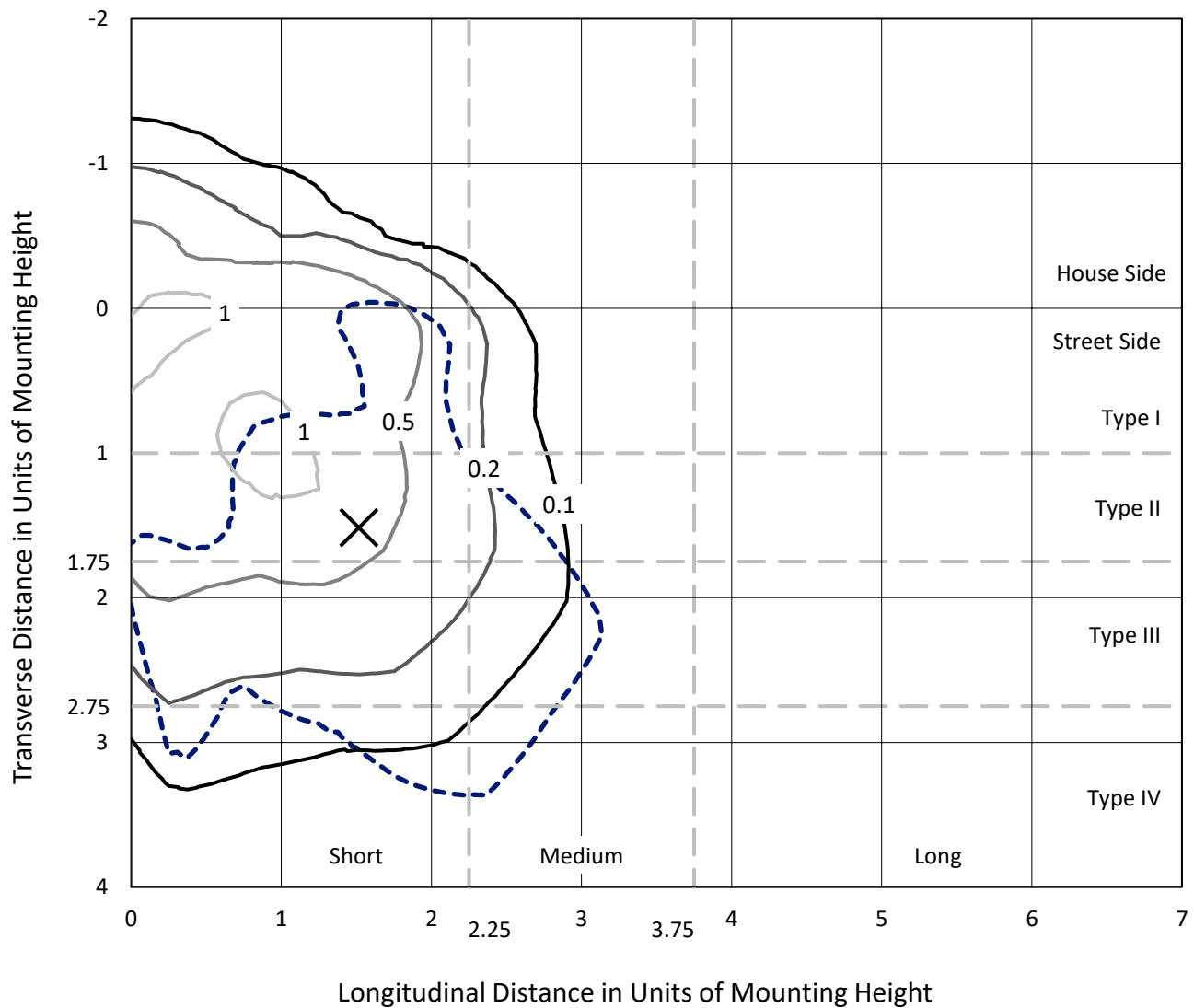


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Iso-Footcandle Lines of Horizontal Illumination

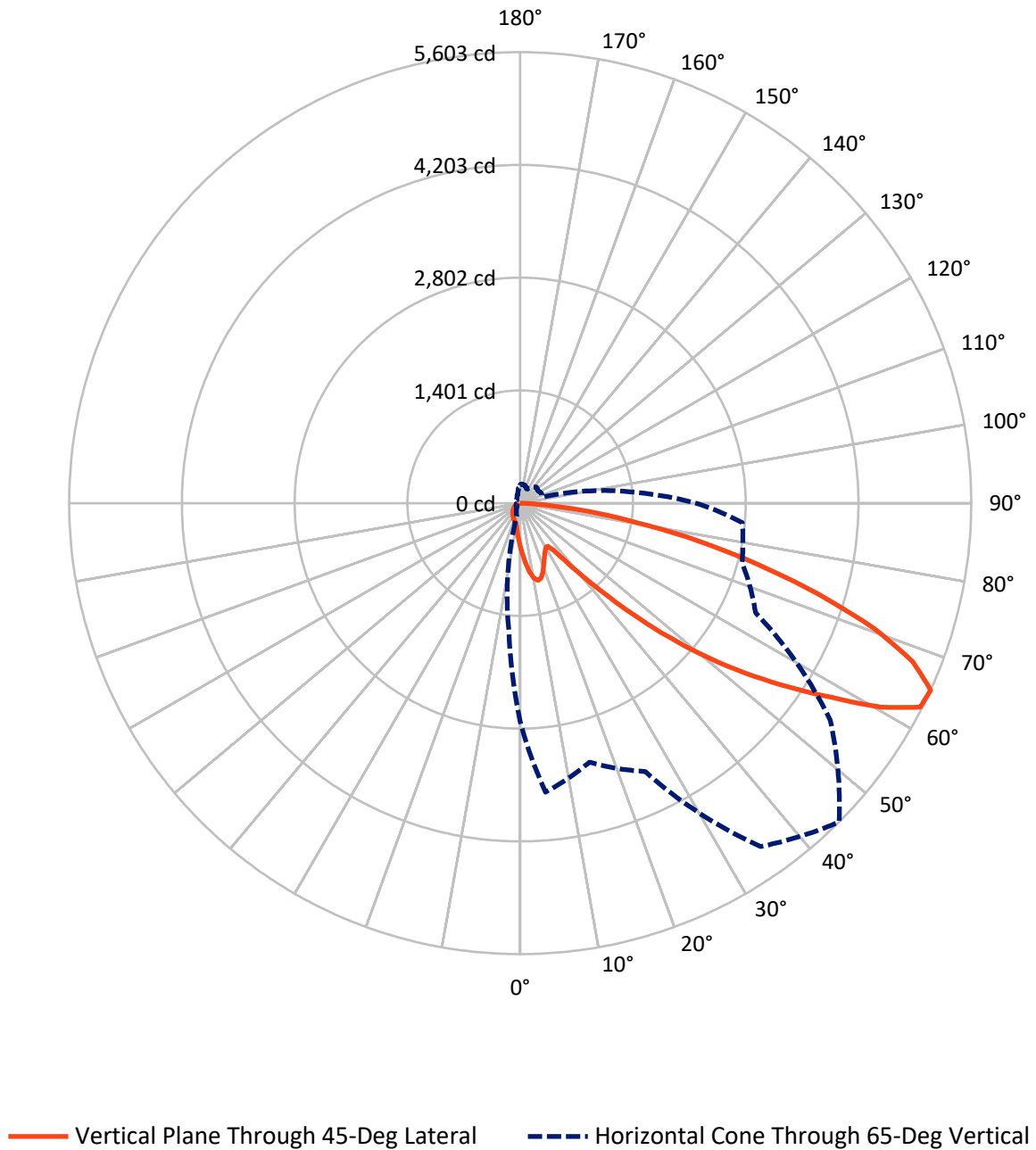
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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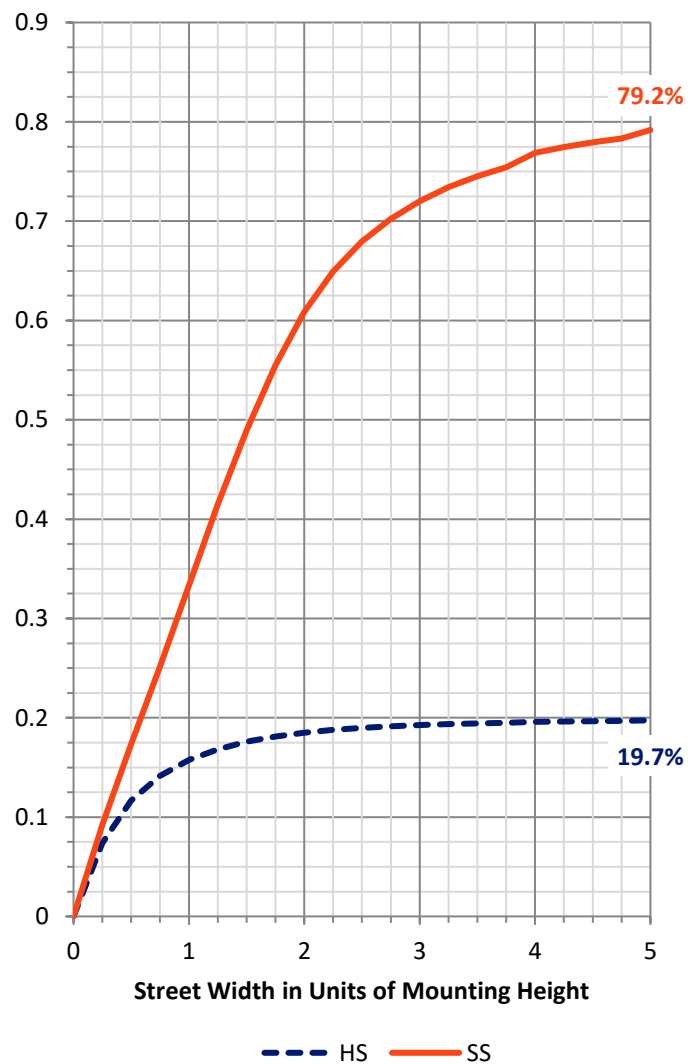
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.5	0.0	792.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3194.5	0.0	3194.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	3987.0	0.0	3987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.4
10°-20°	162.9	4.1
20°-30°	240.0	6.0
30°-40°	308.4	7.7
40°-50°	498.7	12.5
50°-60°	874.6	21.9
60°-70°	1094.4	27.4
70°-80°	639.5	16.0
80°-90°	114.1	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°	3987.0	100.0
0°-180°	3987.0	100.0

Coefficient of Utilization



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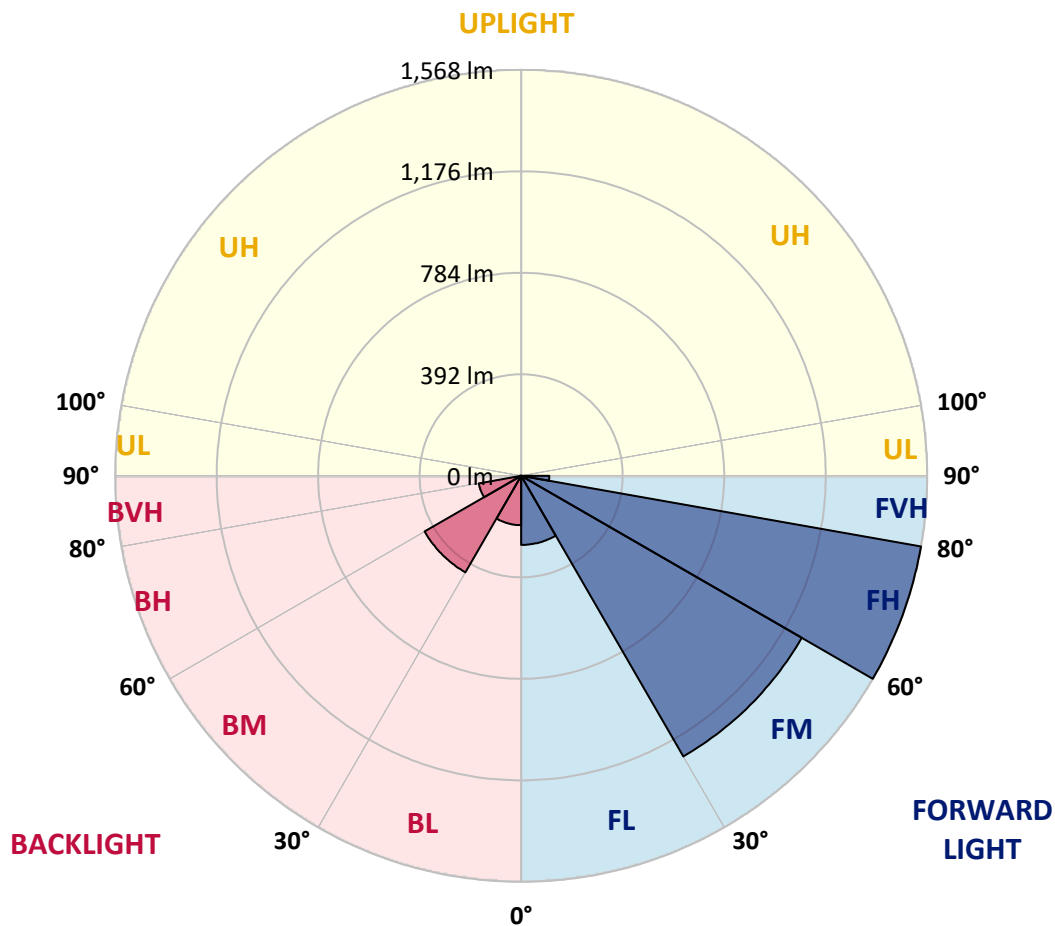
CATALOG NUMBER: GALN-SB1B-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.8	6.7			
FM	(30°-60°)	1251.2	31.4			
FH	(60°-80°)	1567.8	39.3			G1/1800
FVH	(80°-90°)	108.7	2.7			G2/225
BL	(0°-30°)	190.5	4.8	B1/500		
BM	(30°-60°)	430.6	10.8	B1/1000		
BH	(60°-80°)	166.0	4.2	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	618.5	623.2	633.6	639.1	647.7	648.2	648.2	640.8	640.5	625.4	623.8
5°	691.3	702.3	727.0	752.6	758.1	759.4	756.7	741.9	730.9	701.5	695.2
7.5°	763.6	784.7	822.3	856.4	867.4	867.4	860.8	836.6	814.1	771.5	755.6
10°	823.4	850.1	901.2	939.3	952.0	949.2	935.8	905.3	874.3	822.6	801.7
12.5°	863.0	892.9	949.0	979.7	992.6	985.5	970.1	940.4	907.8	853.4	829.8
15°	882.8	914.1	962.7	978.9	975.3	967.9	966.0	951.7	927.0	876.2	850.4
17.5°	891.3	920.4	954.2	944.0	913.8	908.0	927.3	945.4	939.3	895.9	871.8
20°	899.2	923.7	933.9	888.8	836.1	830.9	867.7	919.3	945.7	914.4	892.1
22.5°	910.2	925.3	904.5	830.6	773.7	761.6	802.3	880.0	947.6	937.7	915.5
25°	925.3	929.5	872.1	775.4	718.2	706.2	744.1	836.3	944.3	963.0	944.0
27.5°	943.5	935.0	841.0	729.2	674.0	662.8	700.7	794.3	935.0	988.2	974.8
30°	967.1	942.1	810.3	693.5	642.4	634.2	670.7	758.1	923.4	1020.4	1013.0
32.5°	991.0	945.1	781.7	672.6	635.3	638.3	668.3	738.6	910.8	1051.1	1054.7
35°	1016.8	954.7	767.7	693.2	694.9	721.3	733.6	756.7	908.9	1092.9	1106.9
37.5°	1052.0	976.2	784.4	795.7	852.8	907.5	897.3	845.4	931.1	1155.2	1181.3
40°	1102.5	1013.8	857.5	970.1	1087.4	1176.1	1137.4	1006.6	999.2	1245.0	1284.0
42.5°	1176.1	1073.7	987.1	1183.2	1382.1	1528.2	1424.4	1214.6	1118.4	1373.3	1423.0
45°	1284.9	1170.6	1144.0	1408.2	1745.5	1975.6	1759.8	1436.2	1285.4	1567.5	1606.5
47.5°	1435.7	1313.2	1290.9	1645.2	2187.1	2484.9	2131.7	1641.7	1475.5	1832.3	1841.3
50°	1635.9	1505.2	1430.2	1904.5	2671.4	3004.0	2503.3	1840.0	1693.3	2155.8	2145.4
52.5°	1900.1	1772.9	1592.5	2151.4	3169.3	3512.1	2876.5	2014.1	1963.6	2531.3	2509.9
55°	2260.5	2175.9	1814.4	2387.1	3667.0	4023.3	3235.3	2178.3	2320.6	2977.3	2847.7
57.5°	2707.6	2768.1	2134.4	2660.4	4114.4	4550.1	3595.6	2408.0	2784.3	3476.1	3043.8
60°	2996.0	3555.5	2747.2	3064.4	4622.8	5145.8	4089.5	2844.7	3271.5	3654.9	3006.5
62.5°	2926.3	3806.0	3481.1	3580.2	5090.3	5578.9	4573.4	3283.3	3363.2	3391.5	2718.6
65°	2712.3	3603.8	3331.4	3680.5	5208.7	5603.4	4702.8	3226.7	2852.9	2768.9	2185.2
67.5°	2417.9	3364.1	2975.7	3414.6	4994.7	5261.7	4461.9	2854.3	2204.7	2077.8	1585.4
70°	2100.1	3098.7	2742.2	3116.3	4586.9	4666.2	4052.4	2510.4	1621.6	1403.3	1017.4
72.5°	1798.5	2822.4	2582.4	2810.6	4042.8	3878.5	3519.3	2206.4	1180.8	1012.1	723.2
75°	1490.0	2414.8	2354.7	2447.5	3327.3	3055.1	2924.1	1826.8	926.7	732.3	499.1
77.5°	1149.7	1886.9	2025.4	1960.0	2342.0	2269.3	2266.5	1372.8	677.0	488.6	312.8
80°	786.9	1315.1	1582.3	1382.7	1520.0	1482.9	1707.0	920.9	491.1	294.2	174.1
82.5°	462.5	800.6	1101.4	669.4	840.5	862.7	1016.5	448.0	288.9	67.8	37.9
85°	187.6	316.1	430.7	262.0	405.4	342.0	385.9	125.8	80.5	1.6	0.0
87.5°	47.2	101.1	70.9	29.4	47.0	43.1	34.1	15.4	3.3	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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	613.0	606.7	591.1	575.4	562.8	545.8	534.5	521.0	508.1	496.6	494.4
5°	677.9	657.0	628.4	602.3	575.7	549.9	524.3	497.4	472.7	457.6	448.0
7.5°	730.6	693.8	655.9	622.7	590.5	560.3	526.5	493.8	455.1	434.5	415.8
10°	769.9	721.5	671.8	633.6	601.2	571.8	543.3	510.3	463.6	437.8	409.8
12.5°	795.7	738.3	680.1	636.4	600.1	577.3	564.7	551.8	505.4	475.2	434.5
15°	813.6	750.1	685.8	630.1	585.6	568.8	581.5	596.3	566.6	531.7	478.7
17.5°	833.1	765.5	688.3	613.0	557.3	550.1	582.8	617.2	615.8	581.2	529.3
20°	853.7	778.9	686.7	585.6	523.0	529.3	571.0	610.8	627.6	608.9	562.8
22.5°	874.8	791.9	680.3	549.9	490.8	510.6	552.3	587.2	607.0	601.2	566.1
25°	901.4	810.0	671.0	511.4	464.2	491.6	530.6	558.9	572.7	572.4	548.2
27.5°	933.3	834.2	666.1	480.4	445.2	470.2	504.8	530.1	539.7	539.7	520.5
30°	970.4	862.7	660.6	460.1	434.2	448.0	474.9	499.6	509.2	509.2	493.0
32.5°	1011.6	890.2	647.4	447.7	426.0	426.3	443.3	465.8	477.4	479.0	467.5
35°	1061.0	919.6	618.5	437.8	416.4	405.1	413.4	432.0	445.8	449.3	442.2
37.5°	1125.8	955.6	577.3	423.3	401.6	382.9	384.8	399.1	414.2	419.7	415.0
40°	1212.9	997.8	534.5	402.4	380.7	358.4	357.6	368.0	382.9	388.9	386.5
42.5°	1328.0	1048.7	493.6	382.3	355.4	332.6	331.2	339.5	352.4	358.7	357.6
45°	1475.2	1111.0	458.4	366.7	330.7	308.2	307.6	314.5	325.7	332.3	331.0
47.5°	1679.8	1173.4	434.5	358.4	311.2	288.1	289.2	295.3	305.4	310.1	308.2
50°	1946.5	1192.3	422.4	358.4	300.8	270.3	275.8	280.7	288.4	291.1	288.7
52.5°	2202.5	1129.7	411.4	360.6	302.1	255.2	267.0	270.5	277.1	278.2	274.7
55°	2328.0	971.2	396.3	361.2	310.6	242.3	259.8	266.4	268.9	268.6	262.6
57.5°	2284.9	785.3	370.8	359.0	316.4	234.0	251.0	263.7	265.3	262.9	251.6
60°	2133.6	578.2	351.3	342.8	314.2	231.5	237.6	257.6	260.1	256.8	238.4
62.5°	1879.8	401.3	336.2	307.1	304.6	230.7	216.4	244.4	250.5	245.8	218.9
65°	1479.9	283.5	289.5	269.2	283.7	226.3	194.5	228.5	236.8	229.6	191.7
67.5°	1001.4	204.6	234.6	243.9	249.9	216.4	178.5	210.4	221.4	212.0	160.1
70°	540.8	143.6	154.9	205.4	212.3	199.4	164.2	192.0	204.6	194.5	130.5
72.5°	319.4	103.3	108.5	165.1	176.9	175.5	148.3	170.6	185.9	173.9	106.0
75°	176.1	69.8	77.5	119.8	143.6	135.4	127.4	144.5	160.1	148.3	81.8
77.5°	78.8	41.7	53.8	78.6	112.9	92.8	98.6	112.6	127.2	114.8	54.7
80°	30.5	23.3	35.7	42.8	82.1	51.4	63.4	82.9	93.4	83.5	33.2
82.5°	3.8	10.4	15.4	16.8	47.8	27.2	36.8	52.2	51.4	44.5	16.8
85°	0.0	1.9	2.2	1.1	20.6	9.9	12.1	17.0	15.9	12.1	1.4
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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	480.9	471.0	466.1	462.0	465.8	468.0	468.0	477.4	482.9	485.1	500.4
5°	423.8	405.4	393.0	385.6	388.1	390.8	393.9	405.7	413.6	418.9	442.8
7.5°	378.8	350.7	333.4	324.4	325.7	327.7	330.1	341.7	349.6	356.5	383.2
10°	356.5	317.0	294.2	283.2	281.3	280.2	279.3	286.2	292.2	297.7	324.1
12.5°	357.6	302.4	274.7	261.2	255.4	248.8	243.6	244.7	248.6	255.4	272.2
15°	371.6	297.7	264.5	247.7	238.1	230.4	224.1	222.8	224.1	225.2	235.7
17.5°	390.6	297.2	255.7	234.8	224.9	218.6	212.9	210.9	211.2	212.6	215.3
20°	405.7	295.5	245.8	222.5	213.7	208.2	202.4	200.5	201.1	201.3	204.3
22.5°	413.6	293.1	234.8	210.1	202.7	197.2	192.0	191.7	191.7	193.4	195.6
25°	413.6	287.8	224.9	198.3	191.7	186.8	180.5	181.6	182.1	184.3	187.6
27.5°	403.8	278.0	217.0	188.1	181.3	176.3	170.6	171.9	172.8	175.2	179.4
30°	391.1	266.1	207.9	178.5	170.6	167.0	162.1	162.6	163.7	166.4	171.1
32.5°	377.7	252.1	200.5	168.9	161.0	158.2	152.7	153.5	154.6	157.7	162.9
35°	362.8	235.7	191.7	160.1	152.2	150.0	143.6	144.2	145.8	149.1	154.4
37.5°	347.2	222.2	182.9	151.6	143.4	141.2	134.6	135.1	137.1	140.9	145.8
40°	331.8	209.0	173.6	142.5	134.3	132.4	125.2	125.8	128.0	132.1	137.3
42.5°	315.0	198.9	161.5	133.2	124.4	122.5	115.9	116.7	119.2	123.3	128.5
45°	295.0	192.3	148.0	124.4	114.5	112.6	106.6	108.2	111.0	115.1	120.6
47.5°	274.4	189.5	136.8	115.1	104.4	102.7	97.8	100.5	103.5	106.8	112.9
50°	254.6	185.9	125.2	106.3	95.6	93.9	90.6	94.2	97.2	100.3	106.0
52.5°	232.1	178.3	114.8	98.6	88.2	87.6	86.0	89.3	92.0	94.8	99.7
55°	208.7	165.9	105.7	91.7	81.8	82.4	81.6	84.3	86.5	89.0	93.4
57.5°	188.4	150.2	98.6	84.3	76.4	78.0	76.9	78.3	79.7	82.7	86.2
60°	167.8	131.6	90.6	75.5	70.9	72.8	69.8	69.5	70.0	70.9	77.5
62.5°	140.1	112.1	80.8	67.8	64.8	65.6	59.9	55.5	55.5	56.3	66.2
65°	112.6	93.9	69.8	59.1	56.6	56.0	47.8	41.7	41.2	43.7	52.2
67.5°	92.6	78.0	58.8	49.2	47.5	48.1	42.0	36.0	35.4	38.2	44.5
70°	76.6	62.9	47.0	37.9	39.6	42.0	36.0	30.2	29.4	31.9	37.9
72.5°	61.0	49.2	36.0	28.0	32.7	35.7	29.4	23.9	23.3	25.5	31.3
75°	44.8	35.2	24.4	20.3	25.3	28.0	21.4	17.0	16.2	18.1	23.9
77.5°	27.7	19.8	15.4	12.1	17.3	18.7	11.3	9.9	9.6	11.0	15.1
80°	12.9	8.5	7.4	4.1	6.3	7.4	4.7	5.2	5.5	6.6	9.3
82.5°	3.6	1.4	0.3	0.0	0.0	2.2	1.1	2.2	2.7	4.1	6.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	2.5	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2
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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	512.0	523.0	540.5	558.7	576.5	594.6	612.2	618.5
5°	464.5	489.7	524.6	562.0	600.4	639.4	675.1	691.3
7.5°	411.4	447.7	500.2	558.7	619.9	681.2	737.5	763.6
10°	354.9	400.7	460.6	539.7	627.6	712.2	789.7	823.4
12.5°	301.0	349.1	415.3	510.0	621.6	730.1	823.2	863.0
15°	256.0	298.6	370.0	474.9	602.1	731.2	839.1	882.8
17.5°	222.2	249.9	323.8	435.9	576.5	721.0	844.6	891.3
20°	205.4	213.1	264.0	385.9	552.6	711.4	850.1	899.2
22.5°	195.6	197.5	215.9	321.4	524.1	708.4	859.7	910.2
25°	187.6	188.1	193.1	254.6	480.4	706.4	874.5	925.3
27.5°	179.6	179.6	182.4	205.2	421.1	698.2	893.8	943.5
30°	171.7	171.7	173.6	181.6	351.6	682.0	916.8	967.1
32.5°	163.4	163.4	165.1	170.8	280.7	661.7	938.0	991.0
35°	155.2	154.6	156.8	162.9	223.3	635.8	959.1	1016.8
37.5°	146.4	146.1	148.3	155.2	192.8	605.9	975.1	1052.0
40°	137.1	137.1	139.5	146.9	184.0	568.3	1000.3	1102.5
42.5°	128.5	128.0	130.7	139.8	177.4	532.3	1045.6	1176.1
45°	120.3	119.2	121.7	132.9	165.9	519.7	1130.2	1284.9
47.5°	112.6	109.9	112.1	124.7	155.5	566.9	1268.7	1435.7
50°	106.3	101.1	103.0	116.5	147.5	669.4	1448.3	1635.9
52.5°	99.7	92.8	93.9	106.3	140.4	766.9	1643.0	1900.1
55°	92.8	85.1	85.7	96.1	130.2	781.4	1833.1	2260.5
57.5°	85.1	78.0	78.0	86.8	122.8	677.3	1979.2	2707.6
60°	76.6	72.0	70.6	79.4	129.4	477.9	1996.2	2996.0
62.5°	67.3	64.8	62.9	72.2	134.3	283.2	1859.2	2926.3
65°	56.6	56.0	54.7	79.4	113.2	167.3	1596.1	2712.3
67.5°	47.5	46.7	46.7	83.2	86.0	105.2	1247.0	2417.9
70°	40.9	37.9	37.9	62.9	52.2	72.8	870.7	2100.1
72.5°	34.3	31.0	28.8	50.3	39.0	53.3	544.1	1798.5
75°	27.5	25.0	22.2	33.2	29.1	40.4	316.1	1490.0
77.5°	19.8	18.7	15.7	24.4	21.1	29.1	188.1	1149.7
80°	10.2	10.4	9.9	14.0	14.3	19.8	107.1	786.9
82.5°	6.0	4.7	5.2	6.9	8.2	11.3	40.4	462.5
85°	3.8	2.5	2.5	3.3	4.1	4.4	12.4	187.6
87.5°	1.9	0.8	1.1	1.6	1.4	1.1	0.5	47.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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