

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: P946288

Luminaire Tested: **GALN-SB2A-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946288
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-SB2A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6350 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

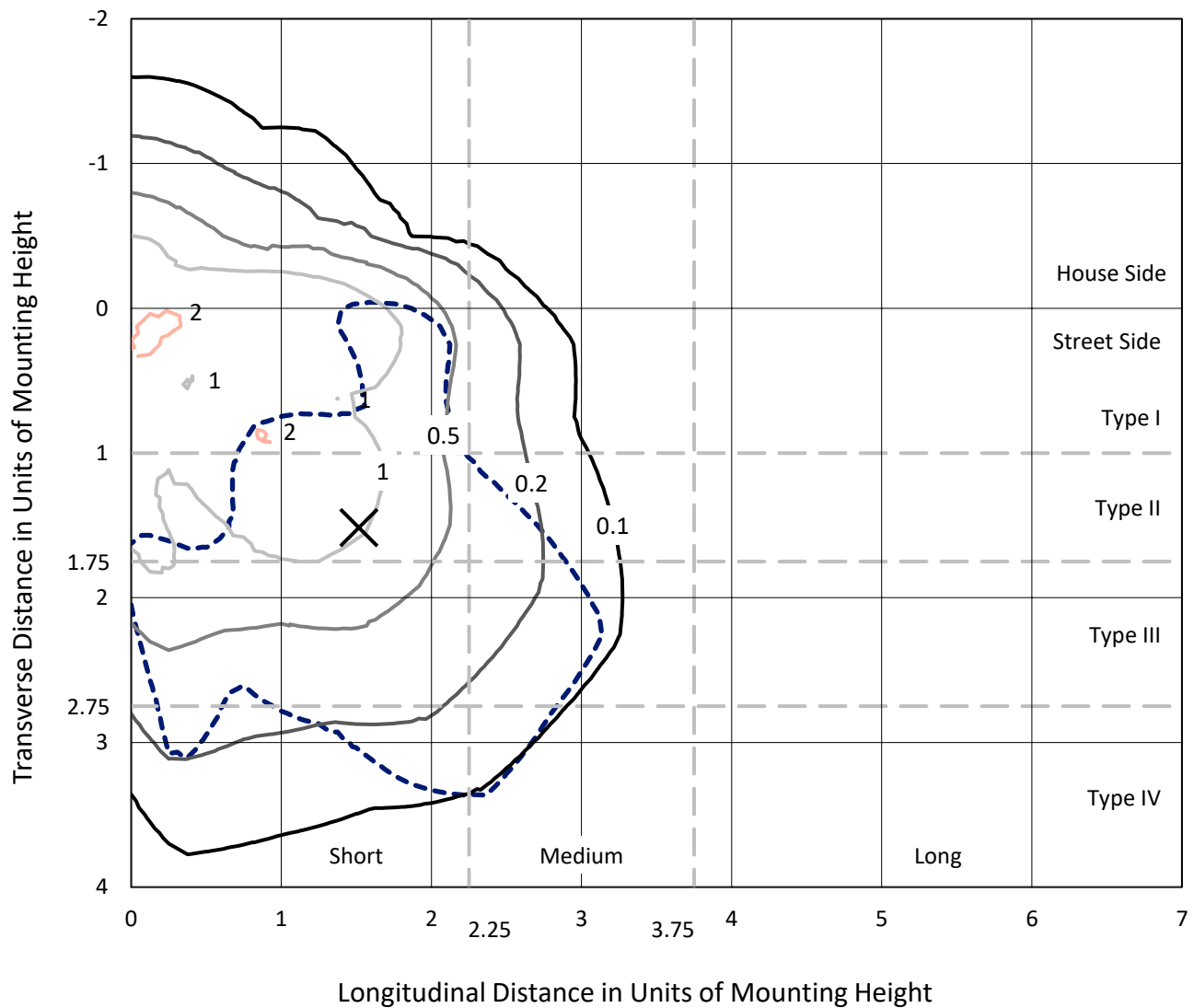


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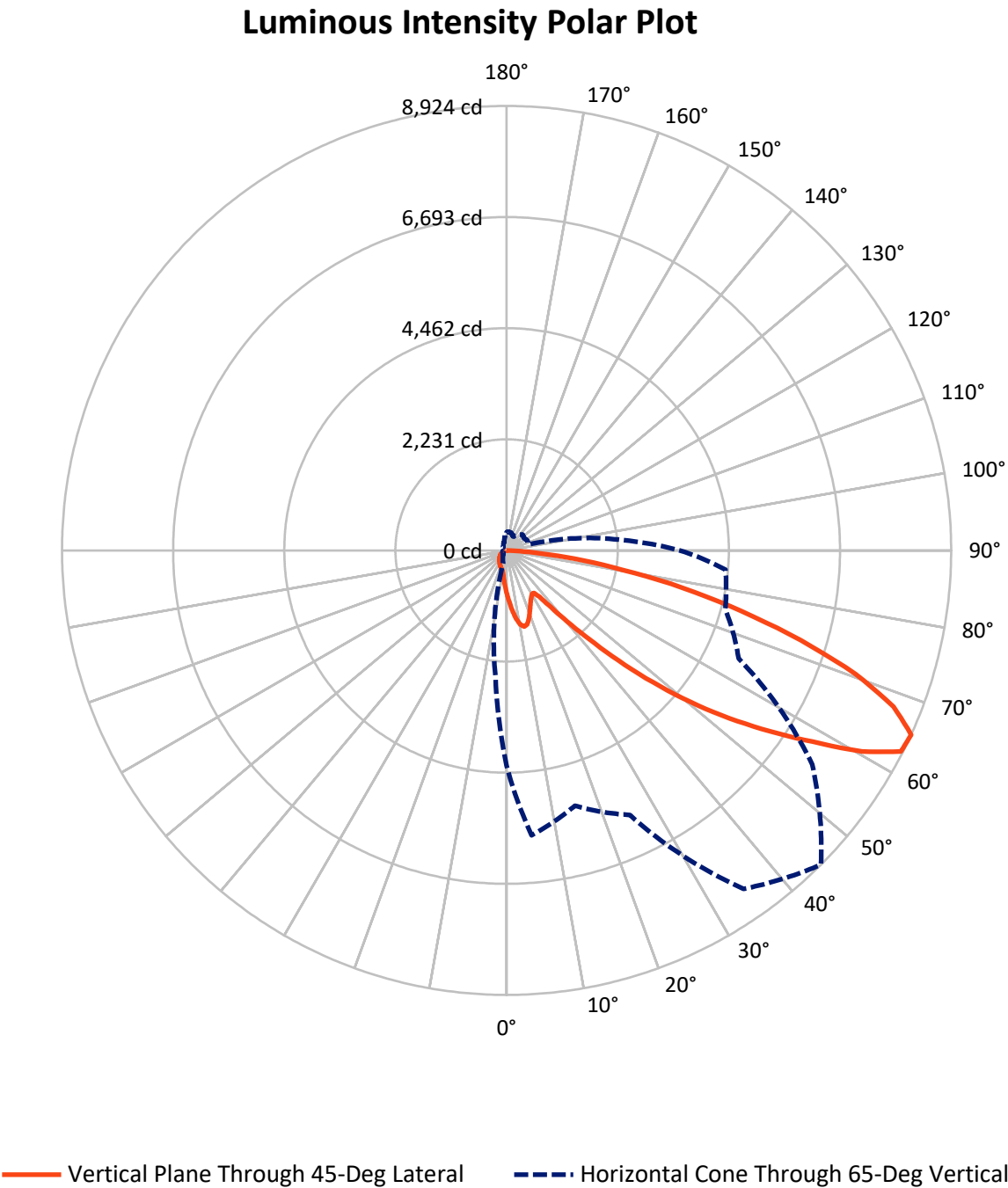
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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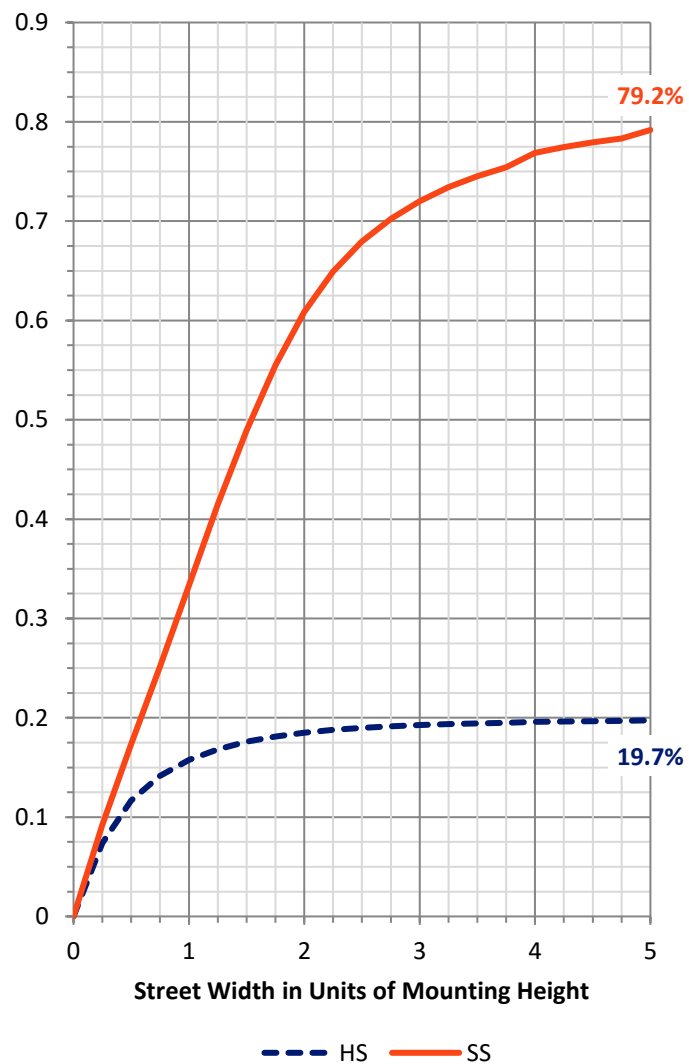
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.2	0.0	1262.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5087.8	0.0	5087.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	6350.0	0.0	6350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.4
10°-20°	259.5	4.1
20°-30°	382.3	6.0
30°-40°	491.2	7.7
40°-50°	794.3	12.5
50°-60°	1392.9	21.9
60°-70°	1743.0	27.4
70°-80°	1018.5	16.0
80°-90°	181.7	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°	6350.0	100.0
0°-180°	6350.0	100.0

Coefficient of Utilization



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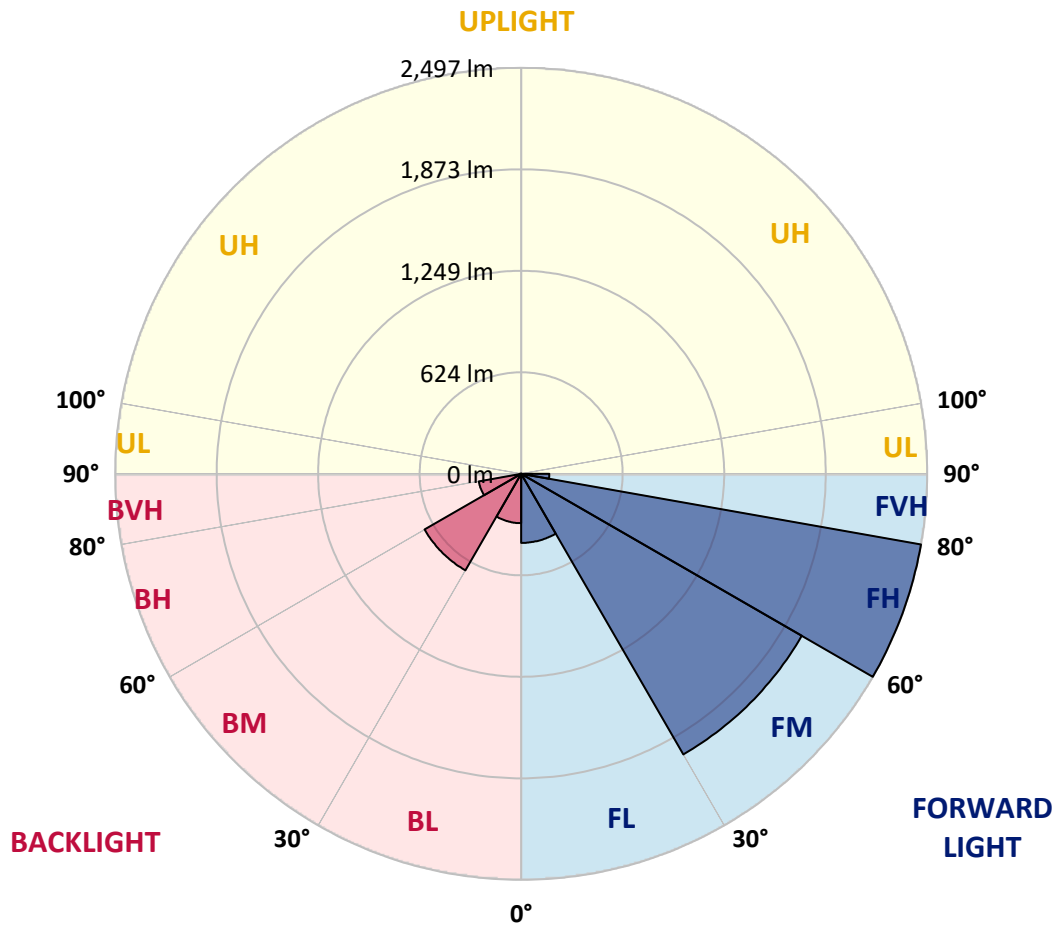
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.9	6.7			
FM	(30°-60°)	1992.7	31.4			
FH	(60°-80°)	2497.0	39.3			G2/5000
FVH	(80°-90°)	173.2	2.7			G2/225
BL	(0°-30°)	303.5	4.8	B1/500		
BM	(30°-60°)	685.7	10.8	B1/1000		
BH	(60°-80°)	264.5	4.2	B1/500		G1/500
BVH	(80°-90°)	8.5	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°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3
2.5°	985.1	992.6	1009.2	1017.9	1031.5	1032.4	1032.4	1020.6	1020.1	996.1	993.4
5°	1101.1	1118.6	1157.9	1198.6	1207.4	1209.5	1205.2	1181.5	1164.1	1117.2	1107.2
7.5°	1216.1	1249.8	1309.7	1364.0	1381.5	1381.5	1371.0	1332.5	1296.6	1228.8	1203.4
10°	1311.5	1353.9	1435.3	1496.1	1516.2	1511.8	1490.4	1441.8	1392.4	1310.2	1276.9
12.5°	1374.5	1422.1	1511.4	1560.4	1580.9	1569.6	1545.1	1497.8	1445.8	1359.2	1321.5
15°	1406.0	1455.8	1533.3	1559.1	1553.4	1541.6	1538.5	1515.8	1476.4	1395.5	1354.3
17.5°	1419.5	1465.9	1519.7	1503.5	1455.4	1446.2	1476.8	1505.7	1496.1	1427.0	1388.5
20°	1432.2	1471.1	1487.3	1415.6	1331.6	1323.3	1381.9	1464.1	1506.1	1456.3	1420.8
22.5°	1449.7	1473.8	1440.5	1322.8	1232.3	1213.0	1277.8	1401.6	1509.2	1493.4	1458.0
25°	1473.8	1480.3	1388.9	1234.9	1143.9	1124.7	1185.0	1332.0	1503.9	1533.7	1503.5
27.5°	1502.6	1489.1	1339.5	1161.4	1073.5	1055.6	1115.9	1265.1	1489.1	1573.9	1552.5
30°	1540.3	1500.4	1290.5	1104.6	1023.2	1010.1	1068.2	1207.4	1470.7	1625.1	1613.3
32.5°	1578.3	1505.3	1245.0	1071.3	1011.8	1016.6	1064.3	1176.3	1450.6	1674.1	1679.8
35°	1619.4	1520.6	1222.7	1104.1	1106.7	1148.7	1168.4	1205.2	1447.5	1740.6	1762.9
37.5°	1675.4	1554.7	1249.4	1267.3	1358.3	1445.3	1429.1	1346.5	1483.0	1839.9	1881.5
40°	1755.9	1614.6	1365.7	1545.1	1731.9	1873.2	1811.5	1603.2	1591.4	1983.0	2045.1
42.5°	1873.2	1710.0	1572.2	1884.5	2201.2	2434.0	2268.6	1934.4	1781.3	2187.2	2266.4
45°	2046.4	1864.4	1822.0	2242.8	2780.0	3146.6	2802.7	2287.4	2047.3	2496.5	2558.6
47.5°	2286.5	2091.4	2056.0	2620.3	3483.4	3957.6	3395.0	2614.6	2350.0	2918.2	2932.7
50°	2605.4	2397.2	2277.8	3033.3	4254.6	4784.4	3986.9	2930.5	2696.9	3433.5	3416.9
52.5°	3026.3	2823.7	2536.3	3426.5	5047.7	5593.7	4581.4	3207.8	3127.3	4031.5	3997.4
55°	3600.2	3465.5	2889.8	3801.9	5840.4	6407.7	5152.7	3469.4	3696.0	4741.9	4535.5
57.5°	4312.4	4408.6	3399.4	4237.1	6553.0	7246.8	5726.6	3835.1	4434.4	5536.4	4847.8
60°	4771.7	5662.8	4375.4	4880.6	7362.7	8195.6	6513.2	4530.7	5210.5	5821.1	4788.3
62.5°	4660.6	6061.7	5544.2	5702.1	8107.2	8885.5	7284.0	5229.3	5356.6	5401.6	4329.9
65°	4319.8	5739.8	5305.8	5861.8	8295.8	8924.4	7490.0	5139.1	4543.8	4409.9	3480.3
67.5°	3850.9	5357.9	4739.3	5438.4	7955.0	8380.2	7106.4	4546.0	3511.4	3309.3	2525.0
70°	3344.7	4935.3	4367.5	4963.3	7305.4	7431.8	6454.1	3998.3	2582.7	2234.9	1620.3
72.5°	2864.4	4495.2	4112.9	4476.4	6438.8	6177.2	5605.0	3514.0	1880.6	1612.0	1151.8
75°	2373.2	3846.0	3750.2	3898.1	5299.3	4865.7	4657.1	2909.5	1476.0	1166.2	794.8
77.5°	1831.2	3005.3	3225.7	3121.6	3730.1	3614.2	3609.8	2186.4	1078.3	778.2	498.3
80°	1253.3	2094.5	2520.1	2202.1	2420.8	2361.8	2718.7	1466.8	782.2	468.5	277.3
82.5°	736.7	1275.2	1754.2	1066.1	1338.6	1374.0	1619.0	713.5	460.2	108.0	60.4
85°	298.8	503.5	685.9	417.3	645.7	544.6	614.6	200.4	128.2	2.6	0.0
87.5°	75.2	161.0	112.9	46.8	74.8	68.7	54.2	24.5	5.2	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°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3
2.5°	976.4	966.3	941.4	916.5	896.3	869.2	851.3	829.8	809.3	790.9	787.4
5°	1079.6	1046.4	1000.9	959.3	916.9	875.8	835.1	792.2	752.8	728.8	713.5
7.5°	1163.6	1105.0	1044.6	991.7	940.5	892.4	838.6	786.5	724.9	692.0	662.3
10°	1226.2	1149.2	1070.0	1009.2	957.6	910.8	865.3	812.8	738.4	697.3	652.7
12.5°	1267.3	1175.9	1083.1	1013.6	955.8	919.5	899.4	878.8	804.9	756.8	692.0
15°	1295.7	1194.7	1092.3	1003.5	932.6	906.0	926.1	949.7	902.5	846.9	762.5
17.5°	1326.8	1219.2	1096.2	976.4	887.6	876.2	928.3	982.9	980.8	925.6	843.0
20°	1359.6	1240.6	1093.6	932.6	832.9	843.0	909.5	972.9	999.6	969.8	896.3
22.5°	1393.3	1261.2	1083.6	875.8	781.7	813.2	879.7	935.3	966.8	957.6	901.6
25°	1435.7	1290.0	1068.7	814.5	739.3	783.0	845.2	890.2	912.1	911.6	873.1
27.5°	1486.5	1328.5	1060.8	765.1	709.1	748.9	804.0	844.3	859.6	859.6	829.0
30°	1545.5	1374.0	1052.1	732.7	691.6	713.5	756.3	795.7	811.0	811.0	785.2
32.5°	1611.1	1417.8	1031.1	713.0	678.5	678.9	706.0	741.9	760.3	762.9	744.5
35°	1689.9	1464.6	985.1	697.3	663.2	645.2	658.4	688.1	710.0	715.7	704.3
37.5°	1793.1	1521.9	919.5	674.1	639.5	609.8	612.9	635.6	659.7	668.4	661.0
40°	1931.8	1589.3	851.3	640.9	606.3	570.9	569.6	586.2	609.8	619.4	615.5
42.5°	2115.1	1670.2	786.1	608.9	566.1	529.8	527.6	540.7	561.2	571.3	569.6
45°	2349.5	1769.5	730.1	584.0	526.7	490.8	489.9	500.9	518.8	529.3	527.1
47.5°	2675.4	1868.8	692.0	570.9	495.6	458.9	460.6	470.3	486.4	493.9	490.8
50°	3100.2	1899.0	672.8	570.9	479.0	430.4	439.2	447.1	459.3	463.7	459.8
52.5°	3507.9	1799.2	655.3	574.4	481.2	406.4	425.2	430.9	441.4	443.1	437.4
55°	3707.8	1546.8	631.2	575.2	494.8	385.8	413.8	424.3	428.3	427.8	418.2
57.5°	3639.1	1250.7	590.6	571.7	503.9	372.7	399.8	420.0	422.6	418.6	400.7
60°	3398.1	920.8	559.5	545.9	500.4	368.8	378.4	410.3	414.3	409.0	379.7
62.5°	2993.9	639.1	535.4	489.1	485.1	367.5	344.7	389.3	399.0	391.5	348.6
65°	2357.0	451.4	461.1	428.7	451.9	360.5	309.7	364.0	377.1	365.7	305.3
67.5°	1594.9	325.9	373.6	388.5	398.1	344.7	284.3	335.1	352.6	337.7	255.0
70°	861.3	228.8	246.7	327.2	338.1	317.6	261.6	305.8	325.9	309.7	207.8
72.5°	508.8	164.5	172.8	262.9	281.7	279.5	236.2	271.7	296.2	276.9	168.9
75°	280.4	111.1	123.4	190.7	228.8	215.7	203.0	230.1	255.0	236.2	130.4
77.5°	125.5	66.5	85.7	125.1	179.8	147.9	157.0	179.4	202.5	182.9	87.1
80°	48.6	37.2	56.9	68.2	130.8	81.8	101.1	132.1	148.7	133.0	52.9
82.5°	6.1	16.6	24.5	26.7	76.1	43.3	58.6	83.1	81.8	70.9	26.7
85°	0.0	3.1	3.5	1.7	32.8	15.7	19.2	27.1	25.4	19.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3
2.5°	766.0	750.2	742.4	735.8	741.9	745.4	745.4	760.3	769.0	772.5	797.0
5°	675.0	645.7	626.0	614.2	618.1	622.5	627.3	646.1	658.8	667.1	705.2
7.5°	603.2	558.6	531.1	516.6	518.8	521.9	525.8	544.2	556.9	567.8	610.2
10°	567.8	504.8	468.5	451.0	447.9	446.2	444.9	455.8	465.4	474.2	516.2
12.5°	569.6	481.6	437.4	416.0	406.8	396.3	388.0	389.8	395.9	406.8	433.5
15°	591.9	474.2	421.3	394.6	379.3	367.0	357.0	354.8	357.0	358.7	375.3
17.5°	622.1	473.3	407.3	374.0	358.3	348.2	339.0	336.0	336.4	338.6	343.0
20°	646.1	470.7	391.5	354.3	340.3	331.6	322.4	319.3	320.2	320.6	325.5
22.5°	658.8	466.8	374.0	334.6	322.8	314.1	305.8	305.3	305.3	308.0	311.5
25°	658.8	458.4	358.3	315.8	305.3	297.5	287.4	289.2	290.0	293.5	298.8
27.5°	643.0	442.7	345.6	299.7	288.7	280.8	271.7	273.8	275.2	279.1	285.7
30°	622.9	423.9	331.1	284.3	271.7	266.0	258.1	259.0	260.7	265.1	272.5
32.5°	601.5	401.6	319.3	269.0	256.3	252.0	243.2	244.5	246.3	251.1	259.4
35°	577.9	375.3	305.3	255.0	242.3	238.8	228.8	229.7	232.3	237.5	245.8
37.5°	552.9	353.9	291.3	241.5	228.3	224.8	214.3	215.2	218.3	224.4	232.3
40°	528.4	332.9	276.5	227.0	213.9	210.9	199.5	200.4	203.9	210.4	218.7
42.5°	501.8	316.7	257.2	212.2	198.2	195.1	184.6	185.9	189.9	196.4	204.7
45°	469.8	306.2	235.8	198.2	182.4	179.4	169.7	172.4	176.7	183.3	192.0
47.5°	437.0	301.8	217.8	183.3	166.2	163.6	155.7	160.1	164.9	170.2	179.8
50°	405.5	296.2	199.5	169.3	152.2	149.6	144.4	150.0	154.9	159.7	168.9
52.5°	369.6	283.9	182.9	157.0	140.4	139.5	136.9	142.2	146.5	150.9	158.8
55°	332.5	264.2	168.4	146.1	130.4	131.2	129.9	134.3	137.8	141.7	148.7
57.5°	300.1	239.3	157.0	134.3	121.6	124.2	122.5	124.7	126.9	131.7	137.4
60°	267.3	209.5	144.4	120.3	112.9	115.9	111.1	110.7	111.5	112.9	123.4
62.5°	223.1	178.5	128.6	108.0	103.2	104.6	95.4	88.4	88.4	89.7	105.4
65°	179.4	149.6	111.1	94.1	90.1	89.2	76.1	66.5	65.6	69.6	83.1
67.5°	147.4	124.2	93.6	78.3	75.7	76.6	66.9	57.3	56.4	60.8	70.9
70°	122.0	100.2	74.8	60.4	63.0	66.9	57.3	48.1	46.8	50.7	60.4
72.5°	97.1	78.3	57.3	44.6	52.1	56.9	46.8	38.1	37.2	40.7	49.9
75°	71.3	56.0	38.9	32.4	40.2	44.6	34.1	27.1	25.8	28.9	38.1
77.5°	44.2	31.5	24.5	19.2	27.6	29.7	17.9	15.7	15.3	17.5	24.1
80°	20.6	13.6	11.8	6.6	10.1	11.8	7.4	8.3	8.7	10.5	14.9
82.5°	5.7	2.2	0.4	0.0	0.0	3.5	1.7	3.5	4.4	6.6	9.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.2	3.9	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5
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°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3
2.5°	815.4	832.9	860.9	889.8	918.2	947.1	975.1	985.1
5°	739.7	780.0	835.5	895.0	956.3	1018.4	1075.2	1101.1
7.5°	655.3	713.0	796.6	889.8	987.3	1084.9	1174.5	1216.1
10°	565.2	638.2	733.6	859.6	999.6	1134.3	1257.7	1311.5
12.5°	479.4	556.0	661.4	812.3	989.9	1162.7	1311.0	1374.5
15°	407.7	475.5	589.2	756.3	958.9	1164.5	1336.4	1406.0
17.5°	353.9	398.1	515.8	694.2	918.2	1148.3	1345.2	1419.5
20°	327.2	339.5	420.4	614.6	880.1	1133.0	1353.9	1432.2
22.5°	311.5	314.5	343.8	511.8	834.7	1128.2	1369.2	1449.7
25°	298.8	299.7	307.5	405.5	765.1	1125.1	1392.8	1473.8
27.5°	286.1	286.1	290.5	326.8	670.6	1112.0	1423.5	1502.6
30°	273.4	273.4	276.5	289.2	559.9	1086.2	1460.2	1540.3
32.5°	260.3	260.3	262.9	272.1	447.1	1053.8	1493.9	1578.3
35°	247.2	246.3	249.8	259.4	355.6	1012.7	1527.6	1619.4
37.5°	233.2	232.7	236.2	247.2	307.1	965.0	1552.9	1675.4
40°	218.3	218.3	222.2	234.0	293.1	905.1	1593.2	1755.9
42.5°	204.7	203.9	208.2	222.7	282.6	847.8	1665.4	1873.2
45°	191.6	189.9	193.8	211.7	264.2	827.7	1800.1	2046.4
47.5°	179.4	175.0	178.5	198.6	247.6	902.9	2020.6	2286.5
50°	169.3	161.0	164.0	185.5	234.9	1066.1	2306.7	2605.4
52.5°	158.8	147.9	149.6	169.3	223.5	1221.4	2616.8	3026.3
55°	147.9	135.6	136.5	153.1	207.4	1244.5	2919.5	3600.2
57.5°	135.6	124.2	124.2	138.2	195.5	1078.7	3152.3	4312.4
60°	122.0	114.6	112.4	126.4	206.0	761.2	3179.4	4771.7
62.5°	107.2	103.2	100.2	115.0	213.9	451.0	2961.1	4660.6
65°	90.1	89.2	87.1	126.4	180.2	266.4	2542.0	4319.8
67.5°	75.7	74.4	74.4	132.5	136.9	167.5	1986.0	3850.9
70°	65.2	60.4	60.4	100.2	83.1	115.9	1386.7	3344.7
72.5°	54.7	49.4	45.9	80.1	62.1	84.9	866.6	2864.4
75°	43.7	39.8	35.4	52.9	46.4	64.3	503.5	2373.2
77.5°	31.5	29.7	24.9	38.9	33.7	46.4	299.7	1831.2
80°	16.2	16.6	15.7	22.3	22.7	31.5	170.6	1253.3
82.5°	9.6	7.4	8.3	10.9	13.1	17.9	64.3	736.7
85°	6.1	3.9	3.9	5.2	6.6	7.0	19.7	298.8
87.5°	3.1	1.3	1.7	2.6	2.2	1.7	0.9	75.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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