

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: P946059

Luminaire Tested: **GALN-SB1D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946059
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-SB1D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA 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: 6755 lumens
Efficiency: N/A
Efficacy: 84.9 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

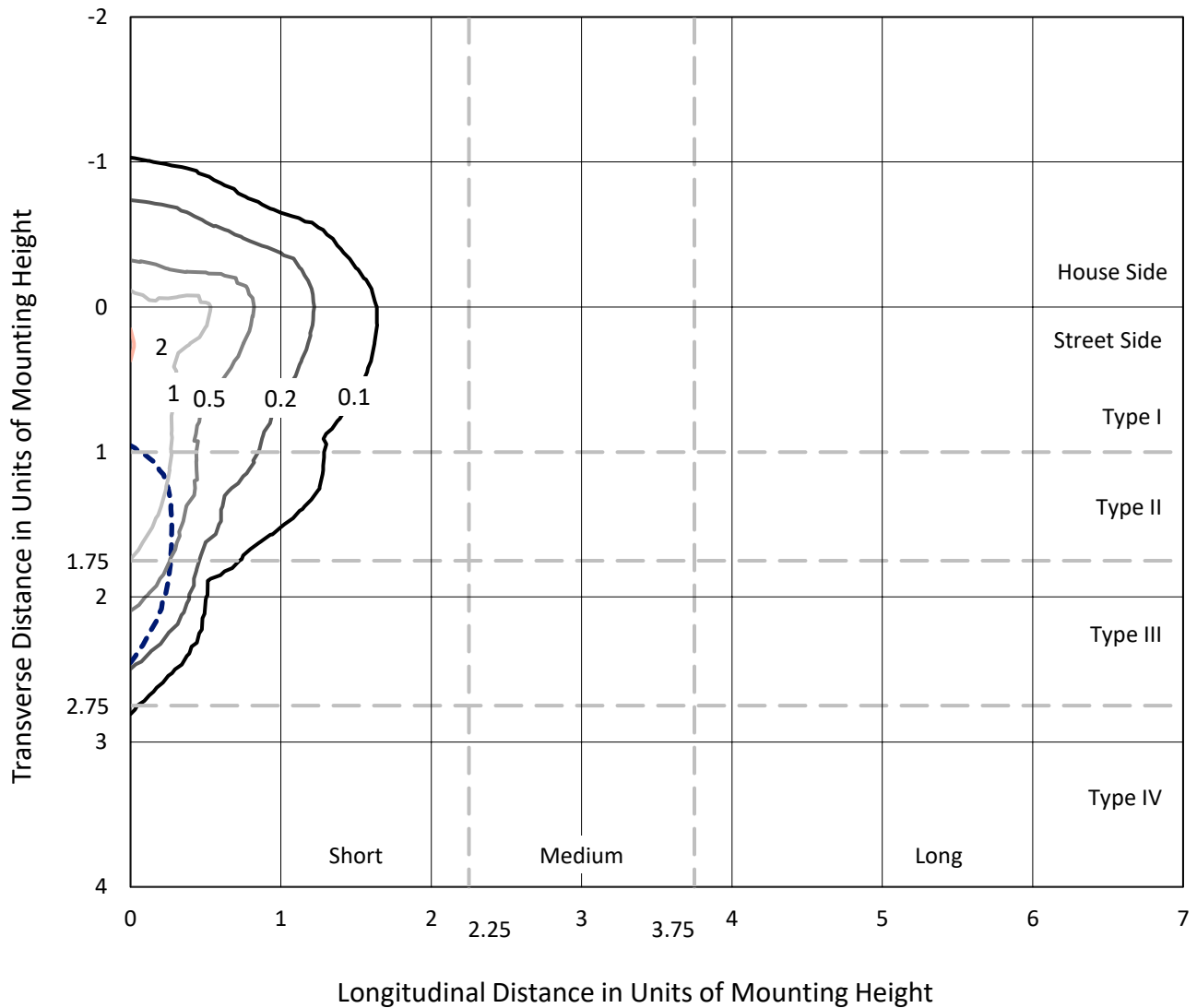
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

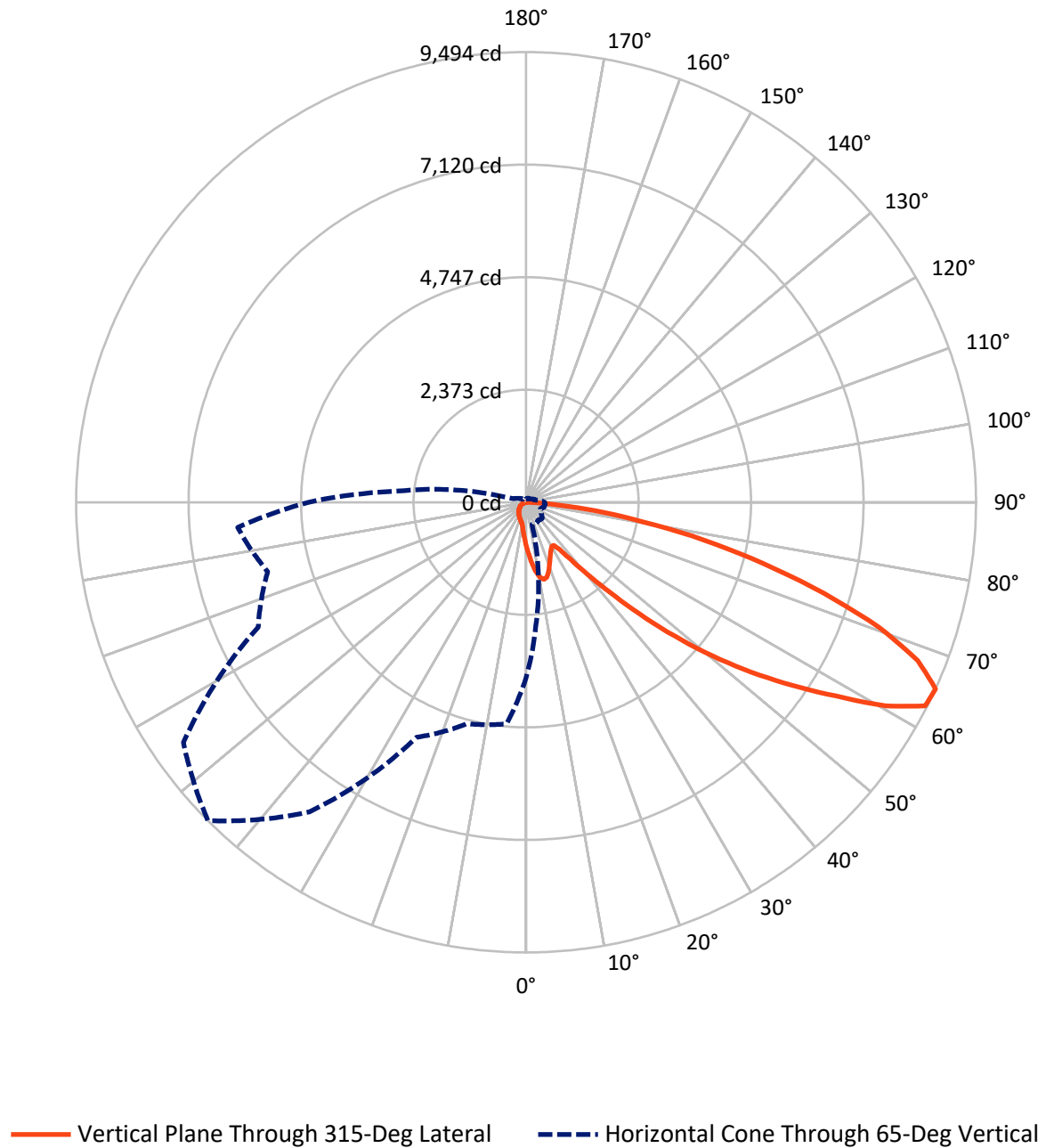
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	946.0	0.0	946.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5809.0	0.0	5809.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	6755.0	0.0	6755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.4
10°-20°	276.1	4.1
20°-30°	406.7	6.0
30°-40°	522.5	7.7
40°-50°	845.0	12.5
50°-60°	1481.8	21.9
60°-70°	1854.1	27.4
70°-80°	1083.5	16.0
80°-90°	193.3	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°	6755.0	100.0
0°-180°	6755.0	100.0

Coefficient of Utilization



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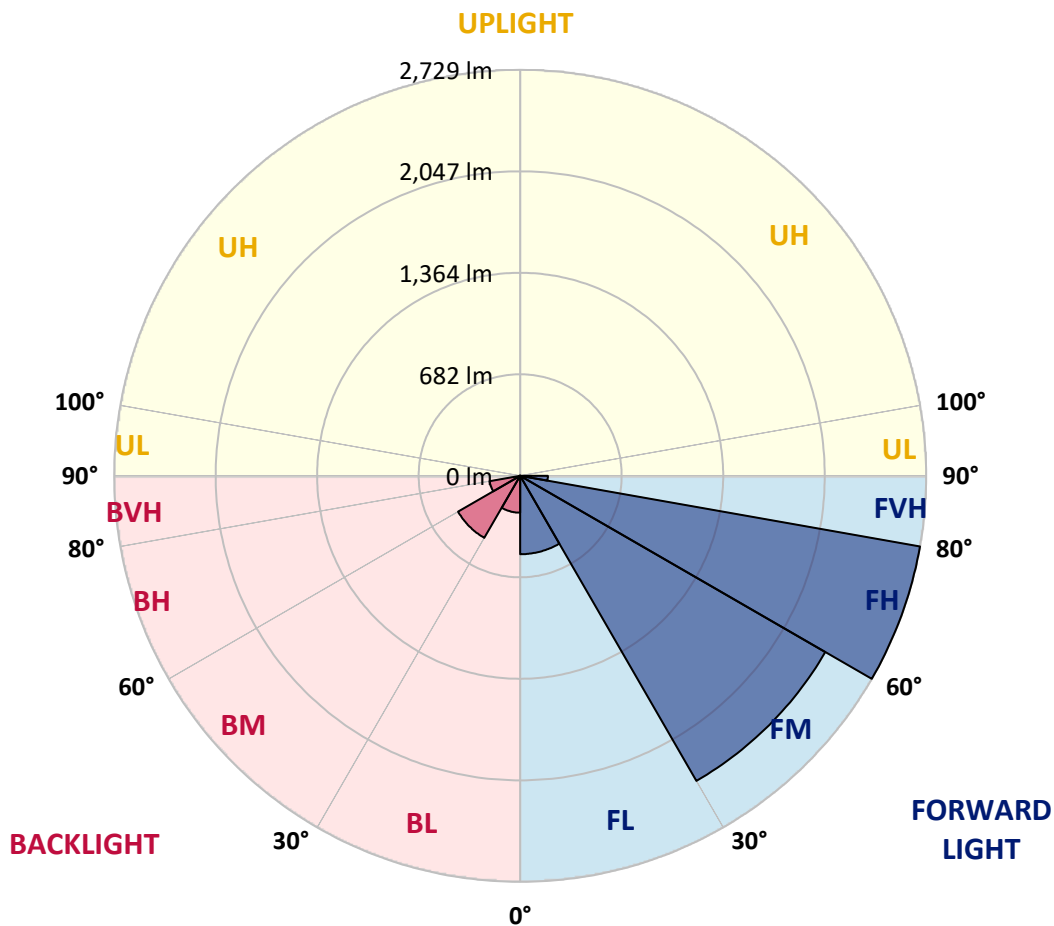
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.9	7.8			
FM (30°-60°)	2367.6	35.0			
FH (60°-80°)	2728.7	40.4			G2/5000
FVH (80°-90°)	185.9	2.8			G2/225
BL (0°-30°)	248.0	3.7	B1/500		
BM (30°-60°)	481.7	7.1	B1/1000		
BH (60°-80°)	208.9	3.1	B1/500		G1/500
BVH (80°-90°)	7.4	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°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4
2.5°	1056.8	1038.7	1028.0	1001.4	974.9	953.5	924.6	905.6	882.8	860.9
5°	1177.8	1148.5	1113.1	1064.7	1020.5	975.4	931.6	888.4	842.7	800.9
7.5°	1280.2	1237.8	1175.5	1111.3	1054.9	1000.5	949.3	892.1	836.7	771.1
10°	1358.4	1304.4	1222.5	1138.2	1073.6	1018.6	968.9	920.5	864.6	785.5
12.5°	1405.8	1348.1	1250.9	1152.2	1078.2	1016.8	978.2	956.8	934.9	856.2
15°	1440.7	1378.4	1270.9	1162.0	1067.5	992.1	963.7	985.1	1010.3	960.0
17.5°	1477.0	1411.4	1296.9	1166.2	1038.7	944.2	932.1	987.5	1045.6	1043.3
20°	1511.5	1446.3	1319.7	1163.4	992.1	886.0	896.7	967.5	1034.9	1063.3
22.5°	1551.0	1482.1	1341.6	1152.7	931.6	831.6	865.1	935.8	994.9	1028.4
25°	1599.4	1527.3	1372.3	1136.8	866.5	786.4	833.0	899.1	947.0	970.3
27.5°	1651.5	1581.3	1413.3	1128.5	813.9	754.3	796.7	855.3	898.1	914.4
30°	1716.2	1644.1	1461.7	1119.2	779.5	735.7	759.0	804.6	846.5	862.8
32.5°	1786.9	1713.9	1508.2	1096.8	758.5	721.8	722.2	751.1	789.2	808.8
35°	1875.4	1797.6	1558.0	1048.0	741.8	705.5	686.4	700.4	732.0	755.3
37.5°	2001.5	1907.5	1618.9	978.2	717.1	680.3	648.7	652.0	676.2	701.7
40°	2175.5	2055.0	1690.6	905.6	681.7	645.0	607.3	605.9	623.6	648.7
42.5°	2411.0	2250.0	1776.7	836.2	647.8	602.2	563.5	561.2	575.2	597.0
45°	2721.8	2499.4	1882.3	776.7	621.2	560.3	522.1	521.2	532.8	551.9
47.5°	3119.7	2846.1	1988.0	736.2	607.3	527.2	488.2	490.0	500.3	517.5
50°	3634.8	3297.9	2020.1	715.7	607.3	509.6	457.9	467.2	475.6	488.6
52.5°	4252.4	3731.6	1914.0	697.1	611.0	511.9	432.3	452.3	458.4	469.5
55°	4824.7	3944.3	1645.5	671.5	611.9	526.3	410.4	440.2	451.4	455.6
57.5°	5157.0	3871.2	1330.4	628.2	608.2	536.1	396.5	425.3	446.7	449.5
60°	5093.7	3614.8	979.6	595.2	580.8	532.4	392.3	402.5	436.5	440.7
62.5°	4606.0	3184.8	679.9	569.6	520.3	516.1	390.9	366.7	414.2	424.4
65°	3702.3	2507.3	480.2	490.5	456.0	480.7	383.4	329.5	387.2	401.1
67.5°	2686.0	1696.7	346.7	397.4	413.2	423.5	366.7	302.5	356.5	375.1
70°	1723.7	916.3	243.4	262.5	348.1	359.7	337.8	278.3	325.3	346.7
72.5°	1225.3	541.2	175.0	183.8	279.7	299.7	297.4	251.3	289.0	315.0
75°	845.5	298.3	118.2	131.2	202.9	243.4	229.4	215.9	244.8	271.3
77.5°	530.0	133.6	70.7	91.2	133.1	191.3	157.3	167.1	190.8	215.5
80°	295.0	51.7	39.6	60.5	72.6	139.1	87.0	107.5	140.5	158.2
82.5°	64.2	6.5	17.7	26.1	28.4	81.0	46.1	62.4	88.4	87.0
85°	0.0	0.0	3.3	3.7	1.9	34.9	16.8	20.5	28.9	27.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°
935.4	0°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4
841.4	2.5°	837.6	814.8	798.1	789.7	782.7	789.2	793.0	793.0	808.8	818.1
775.3	5°	759.0	718.0	686.9	665.9	653.3	657.5	662.2	667.3	687.3	700.8
736.2	7.5°	704.5	641.7	594.3	564.9	549.6	551.9	555.2	559.3	578.9	592.4
741.8	10°	694.3	604.0	537.0	498.4	479.8	476.5	474.7	473.3	484.9	495.1
805.1	12.5°	736.2	605.9	512.3	465.3	442.5	432.8	421.6	412.8	414.6	421.1
900.9	15°	811.1	629.6	504.4	448.1	419.7	403.5	390.4	379.7	377.4	379.7
984.7	17.5°	896.7	661.7	503.5	433.2	397.9	381.1	370.4	360.6	357.4	357.9
1031.7	20°	953.5	687.3	500.7	416.5	376.9	362.0	352.7	343.0	339.7	340.6
1018.6	22.5°	959.1	700.8	496.5	397.9	356.0	343.4	334.1	325.3	324.8	324.8
969.8	25°	928.8	700.8	487.7	381.1	336.0	324.8	316.4	305.7	307.6	308.5
914.4	27.5°	881.8	684.1	470.9	367.6	318.8	307.1	298.8	289.0	291.3	292.7
862.8	30°	835.3	662.7	450.9	352.3	302.5	289.0	282.9	274.6	275.5	277.3
811.6	32.5°	792.0	639.9	427.2	339.7	286.2	272.7	268.0	258.7	260.1	262.0
761.3	35°	749.2	614.7	399.3	324.8	271.3	257.8	254.1	243.4	244.3	247.1
711.1	37.5°	703.1	588.2	376.5	309.9	256.9	242.9	239.2	228.0	229.0	232.2
658.9	40°	654.7	562.1	354.1	294.1	241.5	227.6	224.3	212.2	213.1	216.9
607.7	42.5°	605.9	533.8	336.9	273.6	225.7	210.8	207.5	196.4	197.8	202.0
563.1	45°	560.7	499.8	325.7	250.8	210.8	194.1	190.8	180.6	183.3	188.0
525.4	47.5°	522.1	464.9	321.1	231.7	195.0	176.8	174.0	165.7	170.3	175.4
493.3	50°	489.1	431.4	315.0	212.2	180.1	161.9	159.1	153.6	159.6	164.7
471.4	52.5°	465.3	393.2	302.0	194.5	167.1	149.4	148.4	145.7	151.2	155.9
455.1	55°	444.9	353.7	281.1	179.2	155.4	138.7	139.6	138.2	142.9	146.6
445.3	57.5°	426.3	319.2	254.5	167.1	142.9	129.4	132.2	130.3	132.6	135.0
435.1	60°	403.9	284.3	222.9	153.6	128.0	120.1	123.3	118.2	117.7	118.7
416.5	62.5°	370.9	237.3	189.9	136.8	114.9	109.8	111.2	101.4	94.0	94.0
389.0	65°	324.8	190.8	159.1	118.2	100.1	95.9	94.9	81.0	70.7	69.8
359.2	67.5°	271.3	156.8	132.2	99.6	83.3	80.5	81.4	71.2	61.0	60.0
329.5	70°	221.0	129.8	106.6	79.6	64.2	67.0	71.2	61.0	51.2	49.8
294.6	72.5°	179.6	103.3	83.3	61.0	47.5	55.4	60.5	49.8	40.5	39.6
251.3	75°	138.7	75.9	59.6	41.4	34.4	42.8	47.5	36.3	28.9	27.5
194.5	77.5°	92.6	47.0	33.5	26.1	20.5	29.3	31.6	19.1	16.8	16.3
141.5	80°	56.3	21.9	14.4	12.6	7.0	10.7	12.6	7.9	8.8	9.3
75.4	82.5°	28.4	6.0	2.3	0.5	0.0	0.0	3.7	1.9	3.7	4.7
20.5	85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3
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°
935.4	0°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4
821.8	2.5°	847.9	867.4	886.0	915.8	946.5	976.8	1007.5	1037.3	1048.0	1055.9
709.7	5°	750.1	786.9	829.7	888.8	952.1	1017.3	1083.3	1143.8	1171.3	1189.9
604.0	7.5°	649.2	697.1	758.5	847.4	946.5	1050.3	1154.1	1249.5	1293.7	1329.5
504.4	10°	549.1	601.2	678.9	780.4	914.4	1063.3	1206.6	1337.9	1395.1	1440.3
432.8	12.5°	461.2	510.0	591.5	703.6	864.2	1053.1	1236.9	1394.7	1462.1	1512.8
381.6	15°	399.3	433.7	505.8	626.8	804.6	1020.0	1238.8	1421.6	1495.6	1548.7
360.2	17.5°	364.8	376.5	423.5	548.6	738.5	976.8	1221.5	1430.9	1510.1	1559.4
341.1	20°	346.2	348.1	361.1	447.2	653.8	936.3	1205.3	1440.3	1523.6	1565.0
327.6	22.5°	331.3	331.3	334.6	365.8	544.5	887.9	1200.1	1456.5	1542.2	1567.8
312.2	25°	317.8	317.8	318.8	327.1	431.4	813.9	1196.9	1481.7	1567.8	1574.7
296.9	27.5°	303.9	304.3	304.3	309.0	347.6	713.4	1182.9	1514.2	1598.5	1584.0
282.0	30°	289.9	290.8	290.8	294.1	307.6	595.6	1155.5	1553.3	1638.5	1596.1
267.1	32.5°	276.0	276.9	276.9	279.7	289.4	475.6	1121.0	1589.2	1679.0	1601.3
252.7	35°	261.5	262.9	262.0	265.7	276.0	378.3	1077.3	1625.0	1722.7	1617.6
238.7	37.5°	247.1	248.0	247.6	251.3	262.9	326.7	1026.6	1652.0	1782.3	1653.9
223.8	40°	232.7	232.2	232.2	236.4	249.0	311.8	962.8	1694.8	1867.9	1717.6
208.9	42.5°	217.8	217.8	216.9	221.5	236.9	300.6	901.8	1771.6	1992.6	1819.0
195.0	45°	204.3	203.8	202.0	206.1	225.2	281.1	880.4	1914.9	2176.9	1983.3
181.0	47.5°	191.3	190.8	186.1	189.9	211.3	263.4	960.5	2149.4	2432.4	2224.8
169.9	50°	179.6	180.1	171.2	174.5	197.3	249.9	1134.1	2453.8	2771.6	2550.1
160.5	52.5°	168.9	168.9	157.3	159.1	180.1	237.8	1299.3	2783.7	3219.3	3003.8
150.8	55°	158.2	157.3	144.3	145.2	162.9	220.6	1323.9	3105.7	3829.8	3686.5
140.1	57.5°	146.1	144.3	132.2	132.2	147.1	208.0	1147.6	3353.3	4587.4	4689.8
120.1	60°	131.2	129.8	121.9	119.6	134.5	219.2	809.7	3382.2	5076.0	6023.9
95.4	62.5°	112.1	114.0	109.8	106.6	122.4	227.6	479.8	3149.9	4957.8	6448.3
74.0	65°	88.4	95.9	94.9	92.6	134.5	191.7	283.4	2704.1	4595.3	6105.8
64.7	67.5°	75.4	80.5	79.1	79.1	141.0	145.7	178.2	2112.7	4096.5	5699.6
54.0	70°	64.2	69.3	64.2	64.2	106.6	88.4	123.3	1475.2	3558.1	5250.1
43.3	72.5°	53.0	58.2	52.6	48.9	85.2	66.1	90.3	921.9	3047.1	4781.9
30.7	75°	40.5	46.5	42.3	37.7	56.3	49.3	68.4	535.6	2524.5	4091.3
18.6	77.5°	25.6	33.5	31.6	26.5	41.4	35.8	49.3	318.8	1948.0	3196.9
11.2	80°	15.8	17.2	17.7	16.8	23.7	24.2	33.5	181.5	1333.2	2228.1
7.0	82.5°	10.2	10.2	7.9	8.8	11.6	14.0	19.1	68.4	783.6	1356.5
4.2	85°	7.4	6.5	4.2	4.2	5.6	7.0	7.4	20.9	317.8	535.6
1.9	87.5°	3.7	3.3	1.4	1.9	2.8	2.3	1.9	0.9	80.0	171.2
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°
935.4	0°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4
1073.6	2.5°	1082.9	1097.3	1098.2	1098.2	1085.7	1085.2	1059.6	1056.8
1231.8	5°	1275.1	1284.4	1286.7	1282.0	1256.9	1238.3	1188.5	1177.8
1393.3	7.5°	1451.0	1469.6	1469.6	1458.4	1417.5	1379.3	1307.2	1280.2
1526.8	10°	1591.5	1612.9	1608.2	1585.4	1533.8	1481.2	1393.7	1358.4
1607.8	12.5°	1659.9	1681.8	1669.7	1643.6	1593.4	1538.0	1445.8	1405.8
1631.0	15°	1658.5	1652.5	1639.9	1636.6	1612.4	1570.6	1484.5	1440.7
1616.6	17.5°	1599.4	1548.2	1538.4	1571.0	1601.7	1591.5	1518.0	1477.0
1582.2	20°	1505.9	1416.5	1407.7	1470.0	1557.5	1602.2	1549.1	1511.5
1532.4	22.5°	1407.2	1310.9	1290.4	1359.3	1491.0	1605.5	1588.7	1551.0
1477.5	25°	1313.7	1216.9	1196.4	1260.6	1417.0	1599.9	1631.5	1599.4
1424.9	27.5°	1235.5	1142.0	1122.9	1187.1	1345.8	1584.0	1674.3	1651.5
1372.8	30°	1175.0	1088.5	1074.5	1136.4	1284.4	1564.5	1728.8	1716.2
1324.4	32.5°	1139.6	1076.4	1081.5	1132.2	1251.3	1543.1	1780.9	1786.9
1300.7	35°	1174.5	1177.3	1222.0	1242.9	1282.0	1539.8	1851.6	1875.4
1329.0	37.5°	1348.1	1444.9	1537.5	1520.3	1432.3	1577.5	1957.3	2001.5
1452.8	40°	1643.6	1842.3	1992.6	1927.0	1705.5	1692.9	2109.4	2175.5
1672.5	42.5°	2004.7	2341.6	2589.2	2413.3	2057.8	1894.9	2326.7	2411.0
1938.2	45°	2385.8	2957.3	3347.3	2981.5	2433.3	2177.8	2655.7	2721.8
2187.1	47.5°	2787.4	3705.6	4210.0	3611.6	2781.4	2499.9	3104.3	3119.7
2423.1	50°	3226.7	4526.0	5089.5	4241.2	3117.4	2868.9	3652.5	3634.8
2698.1	52.5°	3645.1	5369.7	5950.4	4873.6	3412.4	3326.8	4288.7	4252.4
3074.1	55°	4044.3	6212.9	6816.4	5481.3	3690.7	3931.7	5044.4	4824.7
3616.2	57.5°	4507.4	6970.9	7709.0	6091.9	4079.7	4717.2	5889.5	5157.0
4654.4	60°	5191.9	7832.3	8718.3	6928.6	4819.6	5542.8	6192.4	5093.7
5897.8	62.5°	6065.8	8624.3	9452.2	7748.5	5562.8	5698.2	5746.1	4606.0
5644.2	65°	6235.7	8824.9	9493.6	7967.7	5466.9	4833.6	4691.2	3702.3
5041.6	67.5°	5785.2	8462.4	8914.7	7559.6	4835.9	3735.4	3520.4	2686.0
4646.0	70°	5279.8	7771.3	7905.8	6865.8	4253.3	2747.4	2377.5	1723.7
4375.2	72.5°	4761.9	6849.5	6571.2	5962.5	3738.1	2000.5	1714.8	1225.3
3989.4	75°	4146.7	5637.2	5176.1	4954.1	3095.0	1570.1	1240.6	845.5
3431.5	77.5°	3320.7	3968.0	3844.7	3840.1	2325.8	1147.1	827.9	530.0
2680.9	80°	2342.6	2575.2	2512.4	2892.1	1560.3	832.0	498.4	295.0
1866.0	82.5°	1134.1	1424.0	1461.7	1722.3	759.0	489.5	114.9	64.2
729.7	85°	443.9	686.9	579.4	653.8	213.1	136.3	2.8	0.0
120.1	87.5°	49.8	79.6	73.1	57.7	26.1	5.6	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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