

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: P946057

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946057  
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-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

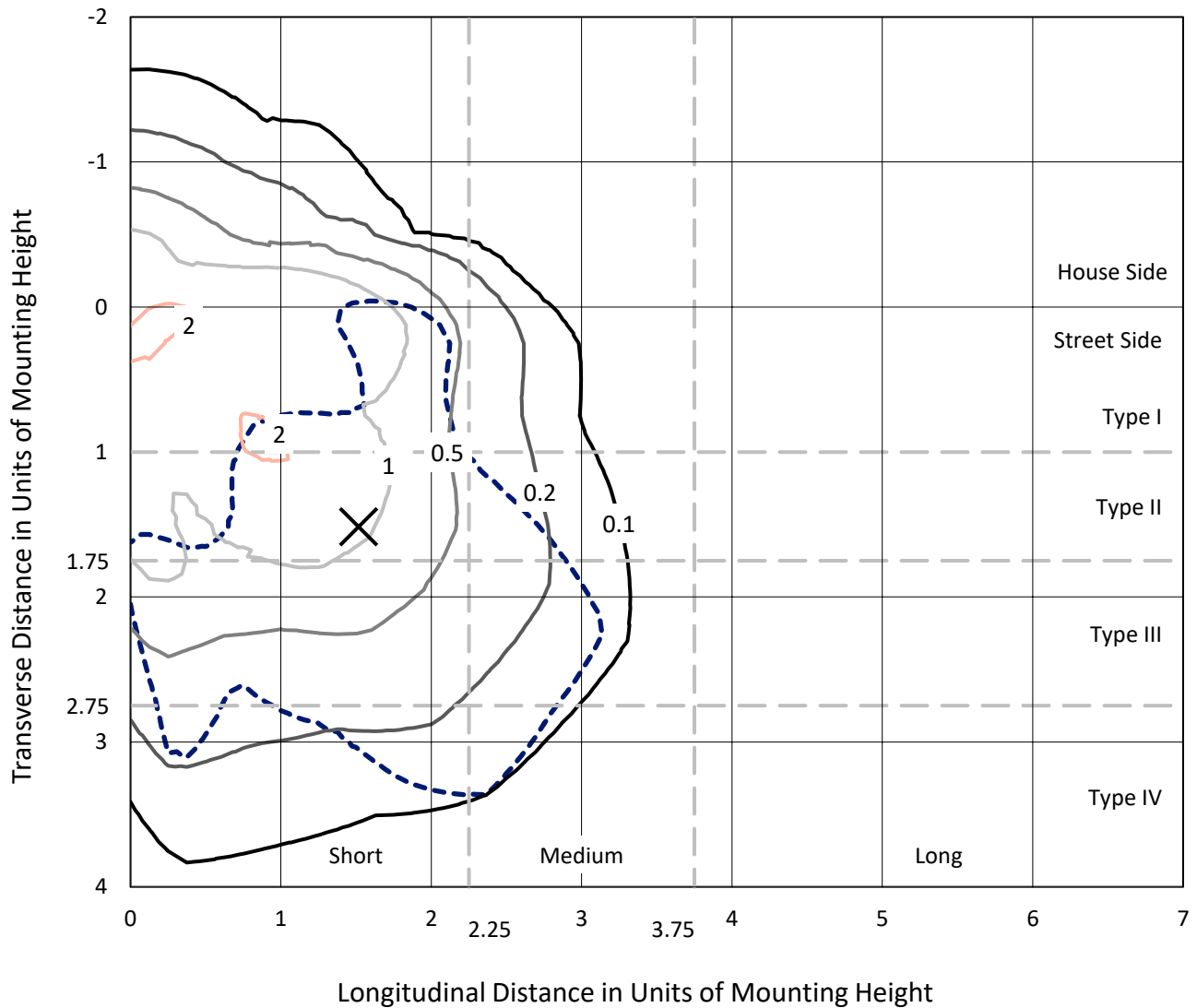
Lumens per Lamp: N/A  
Luminaire Lumens: 6755 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

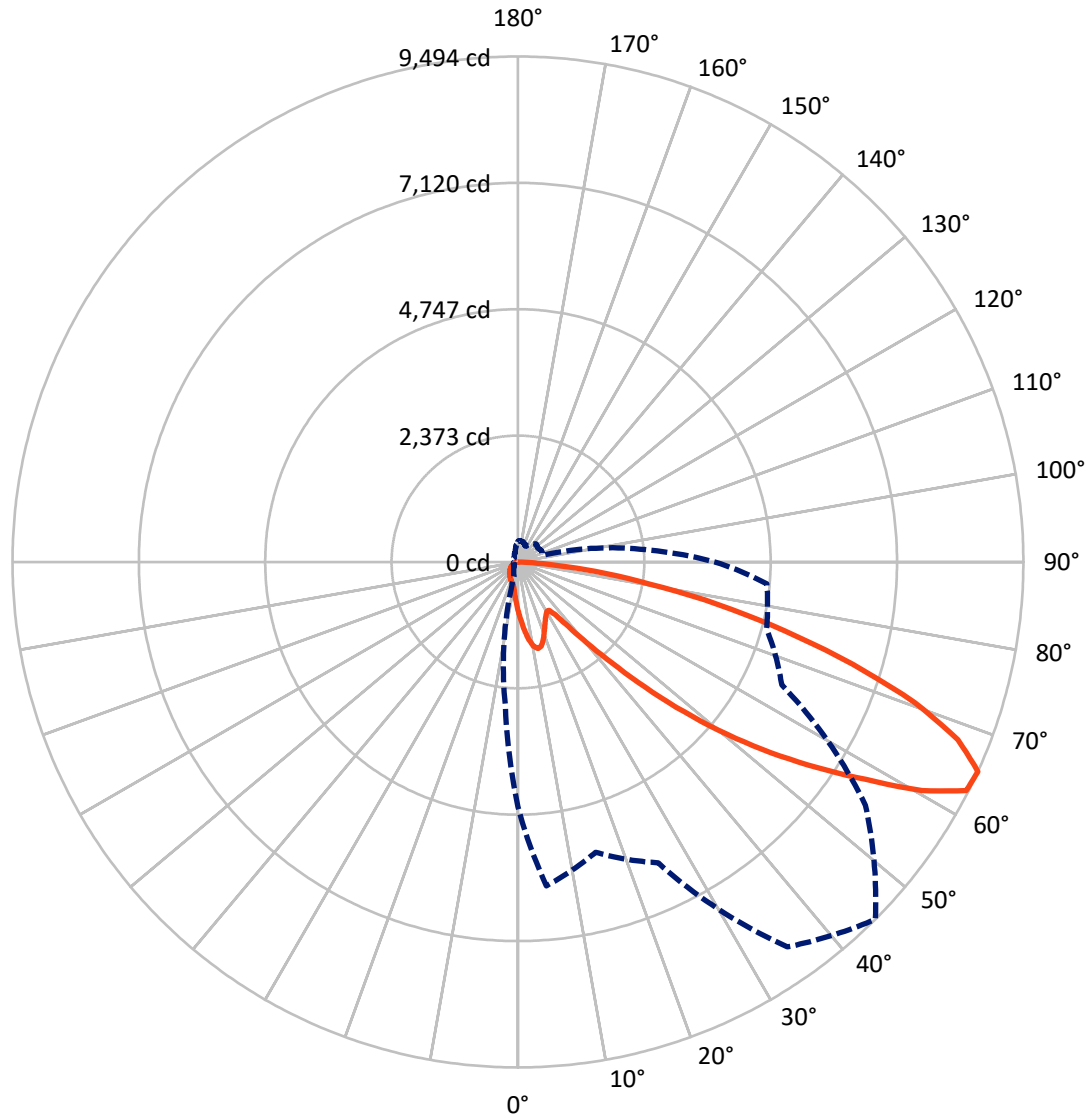
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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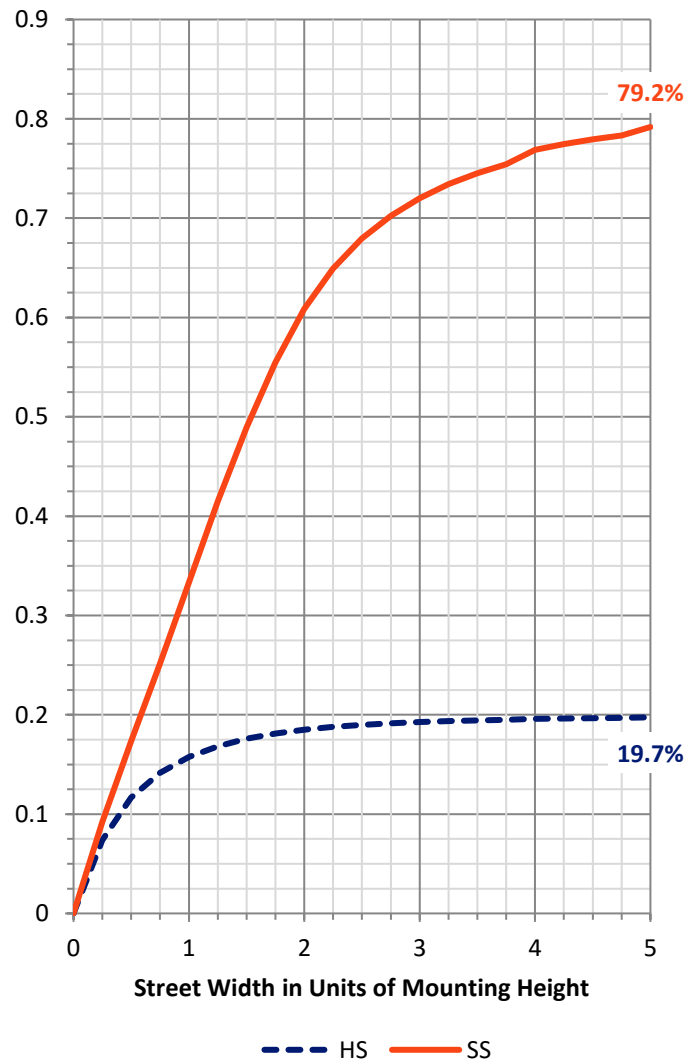
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1342.7	0.0	1342.7
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	5412.3	0.0	5412.3
	% Fixture	80.1	0.0	80.1
<b>Total</b>	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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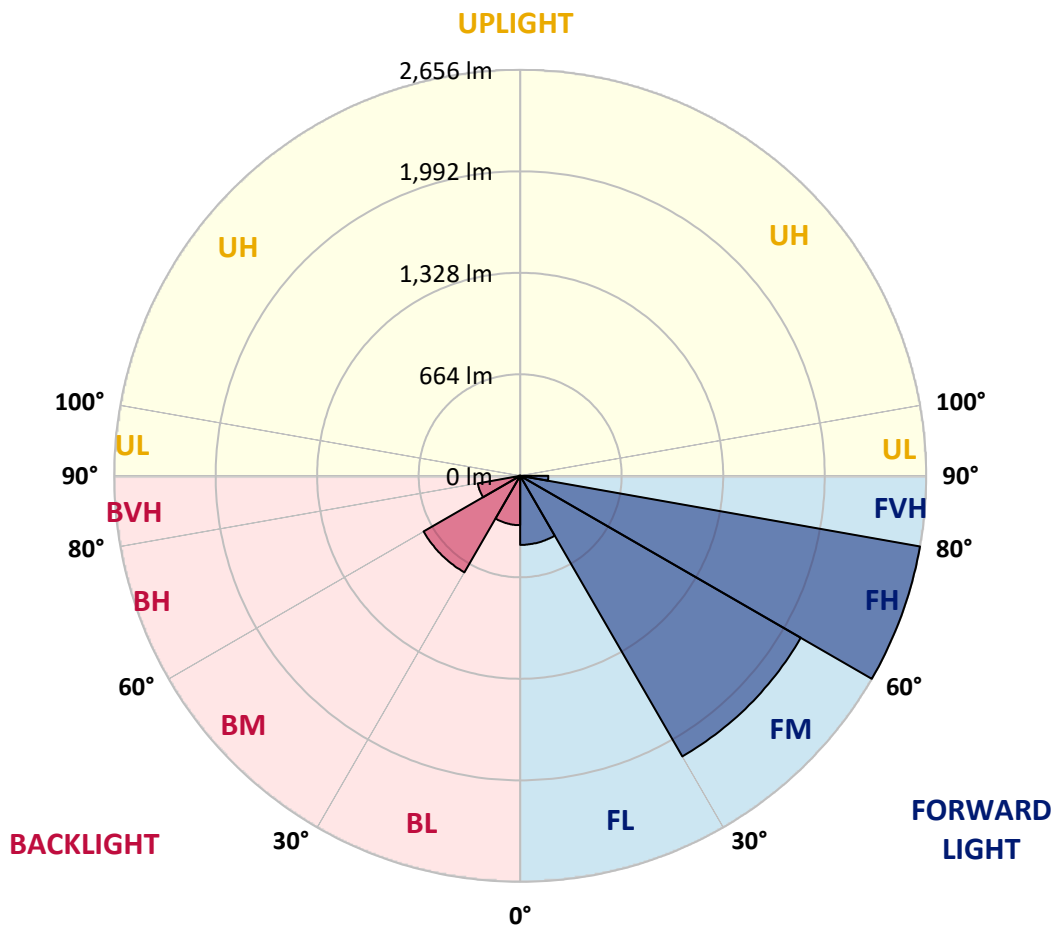
CATALOG NUMBER: GALN-SB1D-827-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.0	6.7			
FM (30°-60°)	2119.8	31.4			
FH (60°-80°)	2656.3	39.3			G2/5000
FVH (80°-90°)	184.2	2.7			G2/225
BL (0°-30°)	322.8	4.8	B1/500		
BM (30°-60°)	729.5	10.8	B1/1000		
BH (60°-80°)	281.3	4.2	B1/500		G1/500
BVH (80°-90°)	9.1	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°	1048.0	1055.9	1073.6	1082.9	1097.3	1098.2	1098.2	1085.7	1085.2	1059.6
5°	1171.3	1189.9	1231.8	1275.1	1284.4	1286.7	1282.0	1256.9	1238.3	1188.5
7.5°	1293.7	1329.5	1393.3	1451.0	1469.6	1469.6	1458.4	1417.5	1379.3	1307.2
10°	1395.1	1440.3	1526.8	1591.5	1612.9	1608.2	1585.4	1533.8	1481.2	1393.7
12.5°	1462.1	1512.8	1607.8	1659.9	1681.8	1669.7	1643.6	1593.4	1538.0	1445.8
15°	1495.6	1548.7	1631.0	1658.5	1652.5	1639.9	1636.6	1612.4	1570.6	1484.5
17.5°	1510.1	1559.4	1616.6	1599.4	1548.2	1538.4	1571.0	1601.7	1591.5	1518.0
20°	1523.6	1565.0	1582.2	1505.9	1416.5	1407.7	1470.0	1557.5	1602.2	1549.1
22.5°	1542.2	1567.8	1532.4	1407.2	1310.9	1290.4	1359.3	1491.0	1605.5	1588.7
25°	1567.8	1574.7	1477.5	1313.7	1216.9	1196.4	1260.6	1417.0	1599.9	1631.5
27.5°	1598.5	1584.0	1424.9	1235.5	1142.0	1122.9	1187.1	1345.8	1584.0	1674.3
30°	1638.5	1596.1	1372.8	1175.0	1088.5	1074.5	1136.4	1284.4	1564.5	1728.8
32.5°	1679.0	1601.3	1324.4	1139.6	1076.4	1081.5	1132.2	1251.3	1543.1	1780.9
35°	1722.7	1617.6	1300.7	1174.5	1177.3	1222.0	1242.9	1282.0	1539.8	1851.6
37.5°	1782.3	1653.9	1329.0	1348.1	1444.9	1537.5	1520.3	1432.3	1577.5	1957.3
40°	1867.9	1717.6	1452.8	1643.6	1842.3	1992.6	1927.0	1705.5	1692.9	2109.4
42.5°	1992.6	1819.0	1672.5	2004.7	2341.6	2589.2	2413.3	2057.8	1894.9	2326.7
45°	2176.9	1983.3	1938.2	2385.8	2957.3	3347.3	2981.5	2433.3	2177.8	2655.7
47.5°	2432.4	2224.8	2187.1	2787.4	3705.6	4210.0	3611.6	2781.4	2499.9	3104.3
50°	2771.6	2550.1	2423.1	3226.7	4526.0	5089.5	4241.2	3117.4	2868.9	3652.5
52.5°	3219.3	3003.8	2698.1	3645.1	5369.7	5950.4	4873.6	3412.4	3326.8	4288.7
55°	3829.8	3686.5	3074.1	4044.3	6212.9	6816.4	5481.3	3690.7	3931.7	5044.4
57.5°	4587.4	4689.8	3616.2	4507.4	6970.9	7709.0	6091.9	4079.7	4717.2	5889.5
60°	5076.0	6023.9	4654.4	5191.9	7832.3	8718.3	6928.6	4819.6	5542.8	6192.4
62.5°	4957.8	6448.3	5897.8	6065.8	8624.3	9452.2	7748.5	5562.8	5698.2	5746.1
65°	4595.3	6105.8	5644.2	6235.7	8824.9	9493.6	7967.7	5466.9	4833.6	4691.2
67.5°	4096.5	5699.6	5041.6	5785.2	8462.4	8914.7	7559.6	4835.9	3735.4	3520.4
70°	3558.1	5250.1	4646.0	5279.8	7771.3	7905.8	6865.8	4253.3	2747.4	2377.5
72.5°	3047.1	4781.9	4375.2	4761.9	6849.5	6571.2	5962.5	3738.1	2000.5	1714.8
75°	2524.5	4091.3	3989.4	4146.7	5637.2	5176.1	4954.1	3095.0	1570.1	1240.6
77.5°	1948.0	3196.9	3431.5	3320.7	3968.0	3844.7	3840.1	2325.8	1147.1	827.9
80°	1333.2	2228.1	2680.9	2342.6	2575.2	2512.4	2892.1	1560.3	832.0	498.4
82.5°	783.6	1356.5	1866.0	1134.1	1424.0	1461.7	1722.3	759.0	489.5	114.9
85°	317.8	535.6	729.7	443.9	686.9	579.4	653.8	213.1	136.3	2.8
87.5°	80.0	171.2	120.1	49.8	79.6	73.1	57.7	26.1	5.6	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):**

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
1056.8	2.5°	1038.7	1028.0	1001.4	974.9	953.5	924.6	905.6	882.8	860.9	841.4
1177.8	5°	1148.5	1113.1	1064.7	1020.5	975.4	931.6	888.4	842.7	800.9	775.3
1280.2	7.5°	1237.8	1175.5	1111.3	1054.9	1000.5	949.3	892.1	836.7	771.1	736.2
1358.4	10°	1304.4	1222.5	1138.2	1073.6	1018.6	968.9	920.5	864.6	785.5	741.8
1405.8	12.5°	1348.1	1250.9	1152.2	1078.2	1016.8	978.2	956.8	934.9	856.2	805.1
1440.7	15°	1378.4	1270.9	1162.0	1067.5	992.1	963.7	985.1	1010.3	960.0	900.9
1477.0	17.5°	1411.4	1296.9	1166.2	1038.7	944.2	932.1	987.5	1045.6	1043.3	984.7
1511.5	20°	1446.3	1319.7	1163.4	992.1	886.0	896.7	967.5	1034.9	1063.3	1031.7
1551.0	22.5°	1482.1	1341.6	1152.7	931.6	831.6	865.1	935.8	994.9	1028.4	1018.6
1599.4	25°	1527.3	1372.3	1136.8	866.5	786.4	833.0	899.1	947.0	970.3	969.8
1651.5	27.5°	1581.3	1413.3	1128.5	813.9	754.3	796.7	855.3	898.1	914.4	914.4
1716.2	30°	1644.1	1461.7	1119.2	779.5	735.7	759.0	804.6	846.5	862.8	862.8
1786.9	32.5°	1713.9	1508.2	1096.8	758.5	721.8	722.2	751.1	789.2	808.8	811.6
1875.4	35°	1797.6	1558.0	1048.0	741.8	705.5	686.4	700.4	732.0	755.3	761.3
2001.5	37.5°	1907.5	1618.9	978.2	717.1	680.3	648.7	652.0	676.2	701.7	711.1
2175.5	40°	2055.0	1690.6	905.6	681.7	645.0	607.3	605.9	623.6	648.7	658.9
2411.0	42.5°	2250.0	1776.7	836.2	647.8	602.2	563.5	561.2	575.2	597.0	607.7
2721.8	45°	2499.4	1882.3	776.7	621.2	560.3	522.1	521.2	532.8	551.9	563.1
3119.7	47.5°	2846.1	1988.0	736.2	607.3	527.2	488.2	490.0	500.3	517.5	525.4
3634.8	50°	3297.9	2020.1	715.7	607.3	509.6	457.9	467.2	475.6	488.6	493.3
4252.4	52.5°	3731.6	1914.0	697.1	611.0	511.9	432.3	452.3	458.4	469.5	471.4
4824.7	55°	3944.3	1645.5	671.5	611.9	526.3	410.4	440.2	451.4	455.6	455.1
5157.0	57.5°	3871.2	1330.4	628.2	608.2	536.1	396.5	425.3	446.7	449.5	445.3
5093.7	60°	3614.8	979.6	595.2	580.8	532.4	392.3	402.5	436.5	440.7	435.1
4606.0	62.5°	3184.8	679.9	569.6	520.3	516.1	390.9	366.7	414.2	424.4	416.5
3702.3	65°	2507.3	480.2	490.5	456.0	480.7	383.4	329.5	387.2	401.1	389.0
2686.0	67.5°	1696.7	346.7	397.4	413.2	423.5	366.7	302.5	356.5	375.1	359.2
1723.7	70°	916.3	243.4	262.5	348.1	359.7	337.8	278.3	325.3	346.7	329.5
1225.3	72.5°	541.2	175.0	183.8	279.7	299.7	297.4	251.3	289.0	315.0	294.6
845.5	75°	298.3	118.2	131.2	202.9	243.4	229.4	215.9	244.8	271.3	251.3
530.0	77.5°	133.6	70.7	91.2	133.1	191.3	157.3	167.1	190.8	215.5	194.5
295.0	80°	51.7	39.6	60.5	72.6	139.1	87.0	107.5	140.5	158.2	141.5
64.2	82.5°	6.5	17.7	26.1	28.4	81.0	46.1	62.4	88.4	87.0	75.4
0.0	85°	0.0	3.3	3.7	1.9	34.9	16.8	20.5	28.9	27.0	20.5
0.0	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

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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
837.6	2.5°	814.8	798.1	789.7	782.7	789.2	793.0	793.0	808.8	818.1	821.8
759.0	5°	718.0	686.9	665.9	653.3	657.5	662.2	667.3	687.3	700.8	709.7
704.5	7.5°	641.7	594.3	564.9	549.6	551.9	555.2	559.3	578.9	592.4	604.0
694.3	10°	604.0	537.0	498.4	479.8	476.5	474.7	473.3	484.9	495.1	504.4
736.2	12.5°	605.9	512.3	465.3	442.5	432.8	421.6	412.8	414.6	421.1	432.8
811.1	15°	629.6	504.4	448.1	419.7	403.5	390.4	379.7	377.4	379.7	381.6
896.7	17.5°	661.7	503.5	433.2	397.9	381.1	370.4	360.6	357.4	357.9	360.2
953.5	20°	687.3	500.7	416.5	376.9	362.0	352.7	343.0	339.7	340.6	341.1
959.1	22.5°	700.8	496.5	397.9	356.0	343.4	334.1	325.3	324.8	324.8	327.6
928.8	25°	700.8	487.7	381.1	336.0	324.8	316.4	305.7	307.6	308.5	312.2
881.8	27.5°	684.1	470.9	367.6	318.8	307.1	298.8	289.0	291.3	292.7	296.9
835.3	30°	662.7	450.9	352.3	302.5	289.0	282.9	274.6	275.5	277.3	282.0
792.0	32.5°	639.9	427.2	339.7	286.2	272.7	268.0	258.7	260.1	262.0	267.1
749.2	35°	614.7	399.3	324.8	271.3	257.8	254.1	243.4	244.3	247.1	252.7
703.1	37.5°	588.2	376.5	309.9	256.9	242.9	239.2	228.0	229.0	232.2	238.7
654.7	40°	562.1	354.1	294.1	241.5	227.6	224.3	212.2	213.1	216.9	223.8
605.9	42.5°	533.8	336.9	273.6	225.7	210.8	207.5	196.4	197.8	202.0	208.9
560.7	45°	499.8	325.7	250.8	210.8	194.1	190.8	180.6	183.3	188.0	195.0
522.1	47.5°	464.9	321.1	231.7	195.0	176.8	174.0	165.7	170.3	175.4	181.0
489.1	50°	431.4	315.0	212.2	180.1	161.9	159.1	153.6	159.6	164.7	169.9
465.3	52.5°	393.2	302.0	194.5	167.1	149.4	148.4	145.7	151.2	155.9	160.5
444.9	55°	353.7	281.1	179.2	155.4	138.7	139.6	138.2	142.9	146.6	150.8
426.3	57.5°	319.2	254.5	167.1	142.9	129.4	132.2	130.3	132.6	135.0	140.1
403.9	60°	284.3	222.9	153.6	128.0	120.1	123.3	118.2	117.7	118.7	120.1
370.9	62.5°	237.3	189.9	136.8	114.9	109.8	111.2	101.4	94.0	94.0	95.4
324.8	65°	190.8	159.1	118.2	100.1	95.9	94.9	81.0	70.7	69.8	74.0
271.3	67.5°	156.8	132.2	99.6	83.3	80.5	81.4	71.2	61.0	60.0	64.7
221.0	70°	129.8	106.6	79.6	64.2	67.0	71.2	61.0	51.2	49.8	54.0
179.6	72.5°	103.3	83.3	61.0	47.5	55.4	60.5	49.8	40.5	39.6	43.3
138.7	75°	75.9	59.6	41.4	34.4	42.8	47.5	36.3	28.9	27.5	30.7
92.6	77.5°	47.0	33.5	26.1	20.5	29.3	31.6	19.1	16.8	16.3	18.6
56.3	80°	21.9	14.4	12.6	7.0	10.7	12.6	7.9	8.8	9.3	11.2
28.4	82.5°	6.0	2.3	0.5	0.0	0.0	3.7	1.9	3.7	4.7	7.0
2.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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°
935.4	0°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	935.4
847.9	2.5°	867.4	886.0	915.8	946.5	976.8	1007.5	1037.3	1048.0
750.1	5°	786.9	829.7	888.8	952.1	1017.3	1083.3	1143.8	1171.3
649.2	7.5°	697.1	758.5	847.4	946.5	1050.3	1154.1	1249.5	1293.7
549.1	10°	601.2	678.9	780.4	914.4	1063.3	1206.6	1337.9	1395.1
461.2	12.5°	510.0	591.5	703.6	864.2	1053.1	1236.9	1394.7	1462.1
399.3	15°	433.7	505.8	626.8	804.6	1020.0	1238.8	1421.6	1495.6
364.8	17.5°	376.5	423.5	548.6	738.5	976.8	1221.5	1430.9	1510.1
346.2	20°	348.1	361.1	447.2	653.8	936.3	1205.3	1440.3	1523.6
331.3	22.5°	331.3	334.6	365.8	544.5	887.9	1200.1	1456.5	1542.2
317.8	25°	317.8	318.8	327.1	431.4	813.9	1196.9	1481.7	1567.8
303.9	27.5°	304.3	304.3	309.0	347.6	713.4	1182.9	1514.2	1598.5
289.9	30°	290.8	290.8	294.1	307.6	595.6	1155.5	1553.3	1638.5
276.0	32.5°	276.9	276.9	279.7	289.4	475.6	1121.0	1589.2	1679.0
261.5	35°	262.9	262.0	265.7	276.0	378.3	1077.3	1625.0	1722.7
247.1	37.5°	248.0	247.6	251.3	262.9	326.7	1026.6	1652.0	1782.3
232.7	40°	232.2	232.2	236.4	249.0	311.8	962.8	1694.8	1867.9
217.8	42.5°	217.8	216.9	221.5	236.9	300.6	901.8	1771.6	1992.6
204.3	45°	203.8	202.0	206.1	225.2	281.1	880.4	1914.9	2176.9
191.3	47.5°	190.8	186.1	189.9	211.3	263.4	960.5	2149.4	2432.4
179.6	50°	180.1	171.2	174.5	197.3	249.9	1134.1	2453.8	2771.6
168.9	52.5°	168.9	157.3	159.1	180.1	237.8	1299.3	2783.7	3219.3
158.2	55°	157.3	144.3	145.2	162.9	220.6	1323.9	3105.7	3829.8
146.1	57.5°	144.3	132.2	132.2	147.1	208.0	1147.6	3353.3	4587.4
131.2	60°	129.8	121.9	119.6	134.5	219.2	809.7	3382.2	5076.0
112.1	62.5°	114.0	109.8	106.6	122.4	227.6	479.8	3149.9	4957.8
88.4	65°	95.9	94.9	92.6	134.5	191.7	283.4	2704.1	4595.3
75.4	67.5°	80.5	79.1	79.1	141.0	145.7	178.2	2112.7	4096.5
64.2	70°	69.3	64.2	64.2	106.6	88.4	123.3	1475.2	3558.1
53.0	72.5°	58.2	52.6	48.9	85.2	66.1	90.3	921.9	3047.1
40.5	75°	46.5	42.3	37.7	56.3	49.3	68.4	535.6	2524.5
25.6	77.5°	33.5	31.6	26.5	41.4	35.8	49.3	318.8	1948.0
15.8	80°	17.2	17.7	16.8	23.7	24.2	33.5	181.5	1333.2
10.2	82.5°	10.2	7.9	8.8	11.6	14.0	19.1	68.4	783.6
7.4	85°	6.5	4.2	4.2	5.6	7.0	7.4	20.9	317.8
3.7	87.5°	3.3	1.4	1.9	2.8	2.3	1.9	0.9	80.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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