

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: P949377

Luminaire Tested: **GALN-SB4A-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949377
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-SB4A-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8352 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

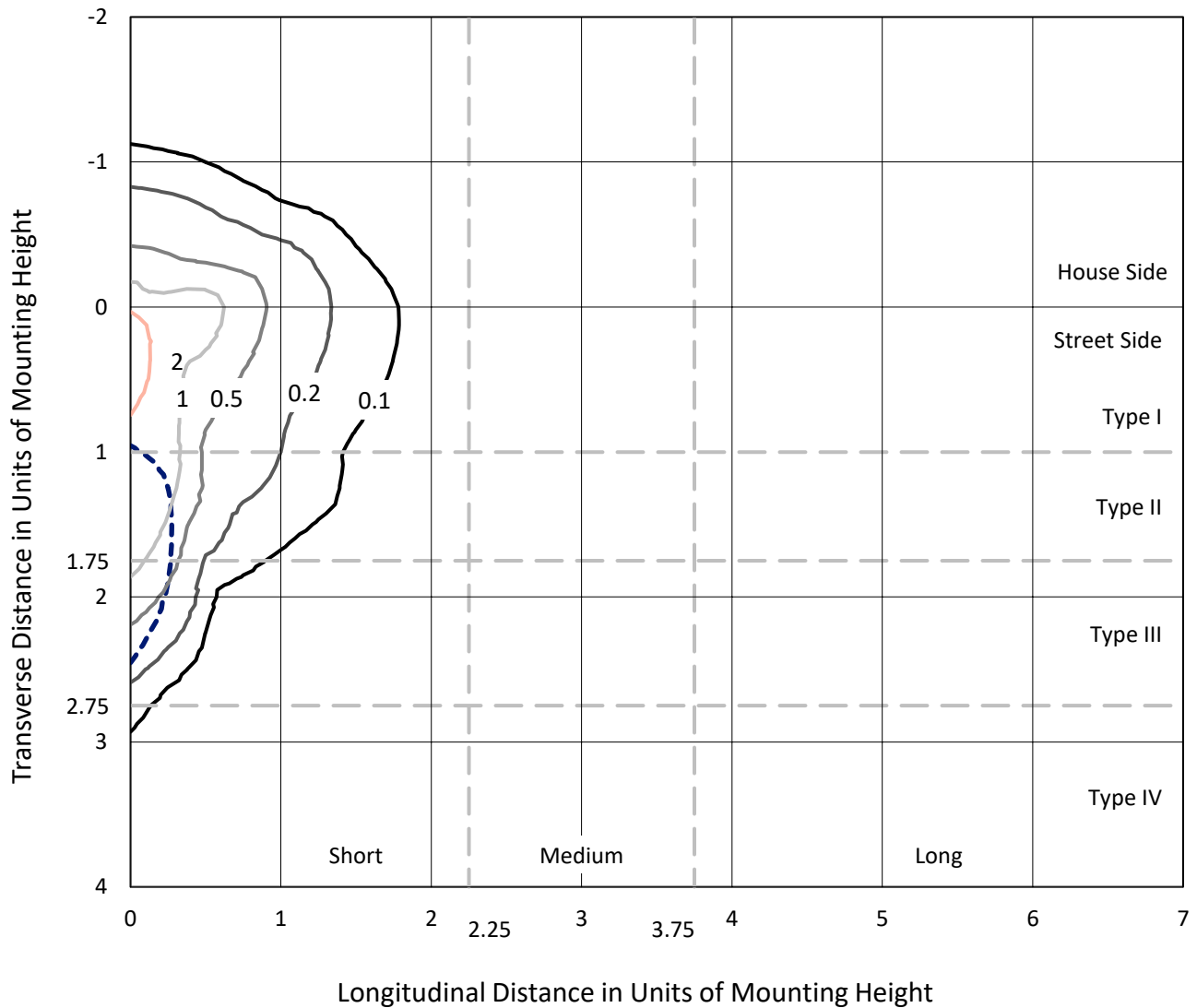
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

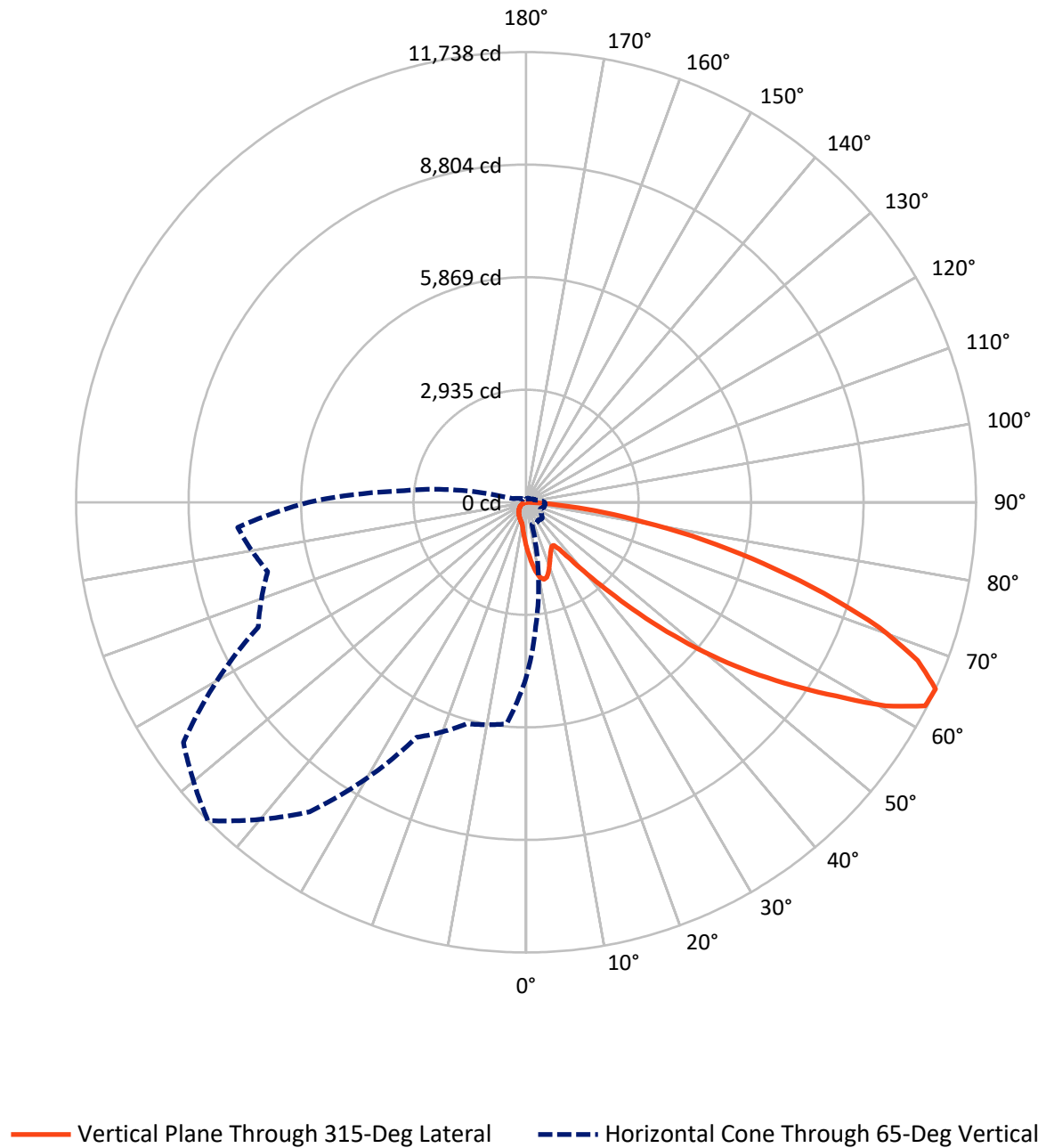
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1169.6	0.0	1169.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7182.4	0.0	7182.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	8352.0	0.0	8352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	1.4
10°-20°	341.3	4.1
20°-30°	502.8	6.0
30°-40°	646.0	7.7
40°-50°	1044.8	12.5
50°-60°	1832.1	21.9
60°-70°	2292.5	27.4
70°-80°	1339.6	16.0
80°-90°	239.0	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°	8352.0	100.0
0°-180°	8352.0	100.0

Coefficient of Utilization



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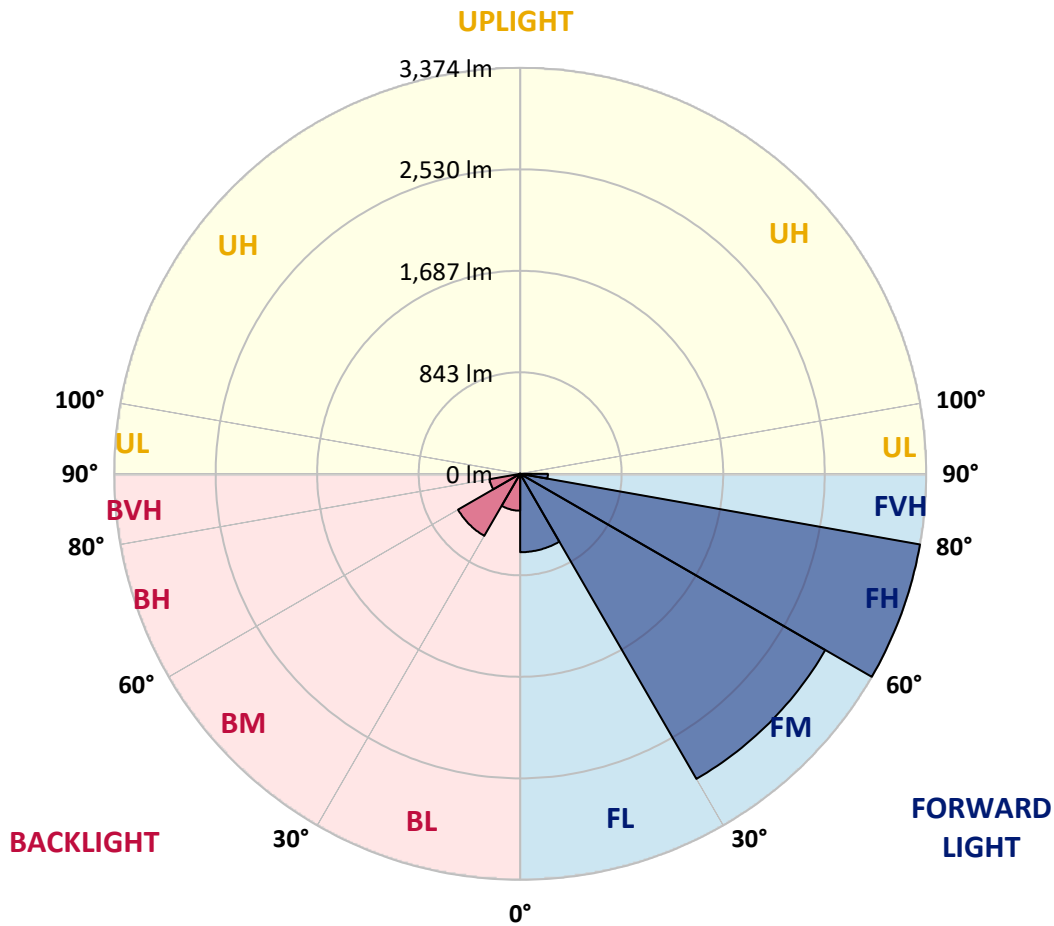
CATALOG NUMBER: GALN-SB4A-927-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.4	7.8			
FM (30°-60°)	2927.3	35.0			
FH (60°-80°)	3373.8	40.4			G2/5000
FVH (80°-90°)	229.8	2.8			G3/500
BL (0°-30°)	306.6	3.7	B1/500		
BM (30°-60°)	595.6	7.1	B1/1000		
BH (60°-80°)	258.3	3.1	B1/500		G1/500
BVH (80°-90°)	9.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
2.5°	1306.7	1284.2	1271.0	1238.2	1205.4	1178.9	1143.3	1119.7	1091.5	1064.4
5°	1456.3	1420.0	1376.3	1316.4	1261.8	1206.0	1151.9	1098.4	1042.0	990.2
7.5°	1582.8	1530.5	1453.4	1374.0	1304.4	1237.0	1173.7	1103.0	1034.5	953.4
10°	1679.5	1612.7	1511.5	1407.3	1327.4	1259.5	1197.9	1138.1	1069.0	971.2
12.5°	1738.2	1666.8	1546.6	1424.6	1333.1	1257.2	1209.4	1183.0	1155.9	1058.7
15°	1781.3	1704.2	1571.3	1436.7	1319.9	1226.7	1191.6	1218.0	1249.1	1187.0
17.5°	1826.2	1745.1	1603.5	1441.9	1284.2	1167.4	1152.5	1220.9	1292.8	1290.0
20°	1868.8	1788.2	1631.7	1438.4	1226.7	1095.5	1108.7	1196.2	1279.6	1314.7
22.5°	1917.7	1832.5	1658.8	1425.2	1151.9	1028.2	1069.6	1157.1	1230.1	1271.6
25°	1977.5	1888.3	1696.8	1405.6	1071.3	972.4	1029.9	1111.6	1170.9	1199.6
27.5°	2042.0	1955.1	1747.4	1395.3	1006.3	932.7	985.0	1057.5	1110.5	1130.6
30°	2121.9	2032.8	1807.2	1383.8	963.7	909.7	938.4	994.8	1046.6	1066.7
32.5°	2209.4	2119.1	1864.8	1356.1	937.8	892.4	893.0	928.6	975.8	1000.0
35°	2318.7	2222.6	1926.3	1295.7	917.1	872.3	848.7	865.9	905.1	933.8
37.5°	2474.6	2358.4	2001.7	1209.4	886.6	841.2	802.1	806.1	836.0	867.7
40°	2689.8	2540.8	2090.3	1119.7	842.9	797.5	750.9	749.1	771.0	802.1
42.5°	2981.0	2781.9	2196.7	1033.9	800.9	744.5	696.8	693.9	711.2	738.2
45°	3365.3	3090.3	2327.4	960.3	768.1	692.7	645.6	644.4	658.8	682.4
47.5°	3857.3	3518.9	2458.0	910.2	750.9	651.9	603.6	605.9	618.5	639.8
50°	4494.2	4077.6	2497.7	884.9	750.9	630.0	566.2	577.7	588.0	604.1
52.5°	5257.7	4613.9	2366.5	861.9	755.5	632.9	534.5	559.3	566.7	580.5
55°	5965.4	4876.8	2034.5	830.3	756.6	650.7	507.5	544.3	558.1	563.3
57.5°	6376.2	4786.5	1645.0	776.7	752.0	662.8	490.2	525.9	552.4	555.8
60°	6298.0	4469.4	1211.1	735.9	718.1	658.2	485.0	497.7	539.7	544.9
62.5°	5695.0	3937.8	840.6	704.2	643.3	638.1	483.3	453.4	512.1	524.7
65°	4577.6	3100.1	593.8	606.4	563.9	594.4	474.1	407.4	478.7	496.0
67.5°	3321.0	2097.8	428.6	491.4	510.9	523.6	453.4	374.0	440.7	463.7
70°	2131.2	1132.9	300.9	324.5	430.4	444.8	417.7	344.1	402.2	428.6
72.5°	1514.9	669.2	216.3	227.3	345.8	370.5	367.7	310.7	357.3	389.5
75°	1045.4	368.8	146.1	162.3	250.9	300.9	283.7	267.0	302.6	335.4
77.5°	655.3	165.1	87.5	112.8	164.6	236.5	194.5	206.6	235.9	266.4
80°	364.8	63.9	48.9	74.8	89.8	172.0	107.6	132.9	173.8	195.6
82.5°	79.4	8.1	21.9	32.2	35.1	100.1	57.0	77.1	109.3	107.6
85°	0.0	0.0	4.0	4.6	2.3	43.2	20.7	25.3	35.7	33.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°
1156.5	0°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
1040.3	2.5°	1035.7	1007.5	986.8	976.4	967.8	975.8	980.4	980.4	1000.0	1011.5
958.6	5°	938.4	887.8	849.2	823.3	807.8	813.0	818.7	825.1	849.8	866.5
910.2	7.5°	871.1	793.4	734.7	698.5	679.5	682.4	686.4	691.6	715.8	732.4
917.1	10°	858.4	746.8	664.0	616.2	593.2	589.2	586.9	585.1	599.5	612.2
995.4	12.5°	910.2	749.1	633.5	575.4	547.2	535.1	521.3	510.3	512.7	520.7
1113.9	15°	1002.9	778.5	623.7	554.1	519.0	498.8	482.7	469.5	466.6	469.5
1217.5	17.5°	1108.7	818.2	622.5	535.7	491.9	471.2	458.0	445.9	441.9	442.5
1275.6	20°	1178.9	849.8	619.1	515.0	466.0	447.6	436.1	424.0	420.0	421.2
1259.5	22.5°	1185.8	866.5	613.9	491.9	440.2	424.6	413.1	402.2	401.6	401.6
1199.1	25°	1148.4	866.5	603.0	471.2	415.4	401.6	391.2	378.0	380.3	381.5
1130.6	27.5°	1090.3	845.8	582.3	454.5	394.1	379.7	369.4	357.3	360.2	361.9
1066.7	30°	1032.8	819.3	557.5	435.6	374.0	357.3	349.8	339.5	340.6	342.9
1003.4	32.5°	979.3	791.1	528.2	420.0	353.8	337.2	331.4	319.9	321.6	323.9
941.3	35°	926.3	760.1	493.7	401.6	335.4	318.8	314.1	300.9	302.1	305.5
879.2	37.5°	869.4	727.3	465.5	383.2	317.6	300.3	295.7	281.9	283.1	287.1
814.7	40°	809.5	695.0	437.9	363.6	298.6	281.4	277.3	262.4	263.5	268.1
751.4	42.5°	749.1	659.9	416.6	338.3	279.1	260.6	256.6	242.8	244.5	249.7
696.2	45°	693.3	617.9	402.8	310.1	260.6	239.9	235.9	223.2	226.7	232.4
649.6	47.5°	645.6	574.8	397.0	286.5	241.1	218.6	215.2	204.8	210.6	216.9
609.9	50°	604.7	533.4	389.5	262.4	222.7	200.2	196.8	189.9	197.4	203.7
582.8	52.5°	575.4	486.2	373.4	240.5	206.6	184.7	183.5	180.1	187.0	192.7
562.7	55°	550.0	437.3	347.5	221.5	192.2	171.5	172.6	170.9	176.6	181.2
550.6	57.5°	527.0	394.7	314.7	206.6	176.6	160.0	163.4	161.1	164.0	166.9
538.0	60°	499.4	351.5	275.6	189.9	158.2	148.4	152.5	146.1	145.6	146.7
515.0	62.5°	458.6	293.4	234.7	169.2	142.1	135.8	137.5	125.4	116.2	116.2
481.0	65°	401.6	235.9	196.8	146.1	123.7	118.5	117.4	100.1	87.5	86.3
444.2	67.5°	335.4	193.9	163.4	123.1	103.0	99.5	100.7	88.0	75.4	74.2
407.4	70°	273.3	160.5	131.8	98.4	79.4	82.9	88.0	75.4	63.3	61.6
364.2	72.5°	222.1	127.7	103.0	75.4	58.7	68.5	74.8	61.6	50.1	48.9
310.7	75°	171.5	93.8	73.6	51.2	42.6	52.9	58.7	44.9	35.7	33.9
240.5	77.5°	114.5	58.1	41.4	32.2	25.3	36.2	39.1	23.6	20.7	20.1
174.9	80°	69.6	27.0	17.8	15.5	8.6	13.2	15.5	9.8	10.9	11.5
93.2	82.5°	35.1	7.5	2.9	0.6	0.0	0.0	4.6	2.3	4.6	5.8
25.3	85°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.9
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°
1156.5	0°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
1016.1	2.5°	1048.3	1072.5	1095.5	1132.3	1170.3	1207.7	1245.7	1282.5	1295.7	1305.5
877.4	5°	927.5	972.9	1025.9	1098.9	1177.2	1257.7	1339.5	1414.2	1448.2	1471.2
746.8	7.5°	802.6	861.9	937.8	1047.7	1170.3	1298.6	1426.9	1544.9	1599.5	1643.8
623.7	10°	678.9	743.4	839.5	964.9	1130.6	1314.7	1491.9	1654.2	1724.9	1780.8
535.1	12.5°	570.2	630.6	731.3	870.0	1068.5	1302.1	1529.3	1724.4	1807.8	1870.5
471.8	15°	493.7	536.2	625.4	775.0	994.8	1261.2	1531.6	1757.7	1849.2	1914.8
445.3	17.5°	451.1	465.5	523.6	678.4	913.1	1207.7	1510.3	1769.2	1867.1	1928.0
421.7	20°	428.1	430.4	446.5	552.9	808.4	1157.6	1490.2	1780.8	1883.7	1935.0
405.1	22.5°	409.7	409.7	413.7	452.2	673.2	1097.8	1483.9	1800.9	1906.8	1938.4
386.1	25°	393.0	393.0	394.1	404.5	533.4	1006.3	1479.8	1832.0	1938.4	1947.0
367.1	27.5°	375.7	376.3	376.3	382.0	429.8	882.0	1462.6	1872.2	1976.4	1958.5
348.7	30°	358.5	359.6	359.6	363.6	380.3	736.5	1428.6	1920.6	2025.9	1973.5
330.3	32.5°	341.2	342.3	342.3	345.8	357.9	588.0	1386.1	1964.9	2075.9	1979.8
312.4	35°	323.4	325.1	323.9	328.5	341.2	467.8	1332.0	2009.2	2130.0	2000.0
295.2	37.5°	305.5	306.7	306.1	310.7	325.1	403.9	1269.3	2042.5	2203.7	2044.8
276.8	40°	287.7	287.1	287.1	292.3	307.8	385.5	1190.4	2095.5	2309.5	2123.7
258.3	42.5°	269.3	269.3	268.1	273.9	292.9	371.7	1115.1	2190.4	2463.7	2249.1
241.1	45°	252.6	252.0	249.7	254.9	278.5	347.5	1088.6	2367.6	2691.6	2452.2
223.8	47.5°	236.5	235.9	230.1	234.7	261.2	325.7	1187.6	2657.6	3007.4	2750.8
210.0	50°	222.1	222.7	211.7	215.8	244.0	309.0	1402.2	3033.9	3426.9	3153.0
198.5	52.5°	208.9	208.9	194.5	196.8	222.7	294.0	1606.4	3441.8	3980.4	3714.0
186.4	55°	195.6	194.5	178.4	179.5	201.4	272.7	1636.9	3840.0	4735.3	4558.0
173.2	57.5°	180.7	178.4	163.4	163.4	181.8	257.2	1418.9	4146.1	5672.0	5798.5
148.4	60°	162.3	160.5	150.7	147.9	166.3	271.0	1001.1	4181.8	6276.1	7448.1
117.9	62.5°	138.7	141.0	135.8	131.8	151.3	281.4	593.2	3894.6	6129.9	7972.8
91.5	65°	109.3	118.5	117.4	114.5	166.3	237.1	350.4	3343.4	5681.7	7549.4
80.0	67.5°	93.2	99.5	97.8	97.8	174.3	180.1	220.4	2612.2	5064.9	7047.1
66.7	70°	79.4	85.7	79.4	79.4	131.8	109.3	152.5	1823.9	4399.2	6491.3
53.5	72.5°	65.6	71.9	65.0	60.4	105.3	81.7	111.6	1139.8	3767.5	5912.5
38.0	75°	50.1	57.5	52.4	46.6	69.6	61.0	84.6	662.2	3121.4	5058.6
23.0	77.5°	31.6	41.4	39.1	32.8	51.2	44.3	61.0	394.1	2408.5	3952.8
13.8	80°	19.6	21.3	21.9	20.7	29.3	29.9	41.4	224.4	1648.4	2754.9
8.6	82.5°	12.7	12.7	9.8	10.9	14.4	17.3	23.6	84.6	968.9	1677.2
5.2	85°	9.2	8.1	5.2	5.2	6.9	8.6	9.2	25.9	393.0	662.2
2.3	87.5°	4.6	4.0	1.7	2.3	3.5	2.9	2.3	1.2	99.0	211.7
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°
1156.5	0°	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5	1156.5
1327.4	2.5°	1338.9	1356.7	1357.9	1357.9	1342.3	1341.8	1310.1	1306.7
1523.0	5°	1576.5	1588.0	1590.9	1585.1	1554.1	1531.0	1469.5	1456.3
1722.6	7.5°	1794.0	1817.0	1817.0	1803.2	1752.6	1705.4	1616.2	1582.8
1887.8	10°	1967.8	1994.2	1988.5	1960.3	1896.4	1831.4	1723.2	1679.5
1987.9	12.5°	2052.3	2079.4	2064.4	2032.2	1970.1	1901.6	1787.7	1738.2
2016.7	15°	2050.6	2043.1	2027.6	2023.6	1993.6	1941.9	1835.4	1781.3
1998.8	17.5°	1977.5	1914.2	1902.2	1942.4	1980.4	1967.8	1876.8	1826.2
1956.2	20°	1861.9	1751.4	1740.5	1817.6	1925.7	1981.0	1915.4	1868.8
1894.7	22.5°	1739.9	1620.8	1595.5	1680.6	1843.5	1985.0	1964.3	1917.7
1826.8	25°	1624.3	1504.6	1479.3	1558.7	1752.0	1978.1	2017.2	1977.5
1761.8	27.5°	1527.6	1411.9	1388.4	1467.8	1664.0	1958.5	2070.2	2042.0
1697.3	30°	1452.8	1345.8	1328.5	1405.0	1588.0	1934.4	2137.5	2121.9
1637.5	32.5°	1409.1	1330.8	1337.1	1399.9	1547.2	1907.9	2201.9	2209.4
1608.1	35°	1452.2	1455.7	1510.9	1536.8	1585.1	1903.9	2289.4	2318.7
1643.2	37.5°	1666.8	1786.5	1901.0	1879.7	1771.0	1950.5	2420.0	2474.6
1796.3	40°	2032.2	2277.9	2463.7	2382.6	2108.7	2093.2	2608.1	2689.8
2067.9	42.5°	2478.7	2895.2	3201.3	2983.8	2544.3	2342.9	2876.8	2981.0
2396.4	45°	2949.9	3656.4	4138.6	3686.4	3008.6	2692.7	3283.6	3365.3
2704.2	47.5°	3446.4	4581.6	5205.3	4465.4	3439.0	3090.9	3838.3	3857.3
2995.9	50°	3989.6	5596.0	6292.8	5243.9	3854.4	3547.1	4516.0	4494.2
3336.0	52.5°	4506.8	6639.1	7357.2	6025.8	4219.2	4113.3	5302.6	5257.7
3800.9	55°	5000.5	7681.7	8428.0	6777.2	4563.2	4861.3	6237.0	5965.4
4471.2	57.5°	5573.0	8619.0	9531.5	7532.1	5044.2	5832.5	7281.8	6376.2
5754.8	60°	6419.4	9684.0	10779.5	8566.6	5959.1	6853.2	7656.4	6298.0
7292.2	62.5°	7499.9	10663.2	11686.8	9580.4	6877.9	7045.4	7104.6	5695.0
6978.6	65°	7709.9	10911.2	11738.0	9851.4	6759.4	5976.3	5800.3	4577.6
6233.5	67.5°	7152.9	10463.0	11022.3	9346.8	5979.2	4618.5	4352.6	3321.0
5744.4	70°	6528.1	9608.6	9774.9	8488.9	5258.8	3397.0	2939.5	2131.2
5409.6	72.5°	5887.7	8468.8	8124.7	7372.2	4621.9	2473.5	2120.2	1514.9
4932.6	75°	5127.1	6970.0	6399.8	6125.3	3826.8	1941.3	1533.9	1045.4
4242.7	77.5°	4105.8	4906.1	4753.7	4747.9	2875.7	1418.3	1023.6	655.3
3314.7	80°	2896.4	3184.1	3106.4	3575.9	1929.2	1028.8	616.2	364.8
2307.2	82.5°	1402.2	1760.6	1807.2	2129.4	938.4	605.3	142.1	79.4
902.2	85°	548.9	849.2	716.3	808.4	263.5	168.6	3.5	0.0
148.4	87.5°	61.6	98.4	90.3	71.3	32.2	6.9	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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