

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: P947298

Luminaire Tested: **GALN-SB2C-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947298
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-SB2C-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA 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: 8283 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

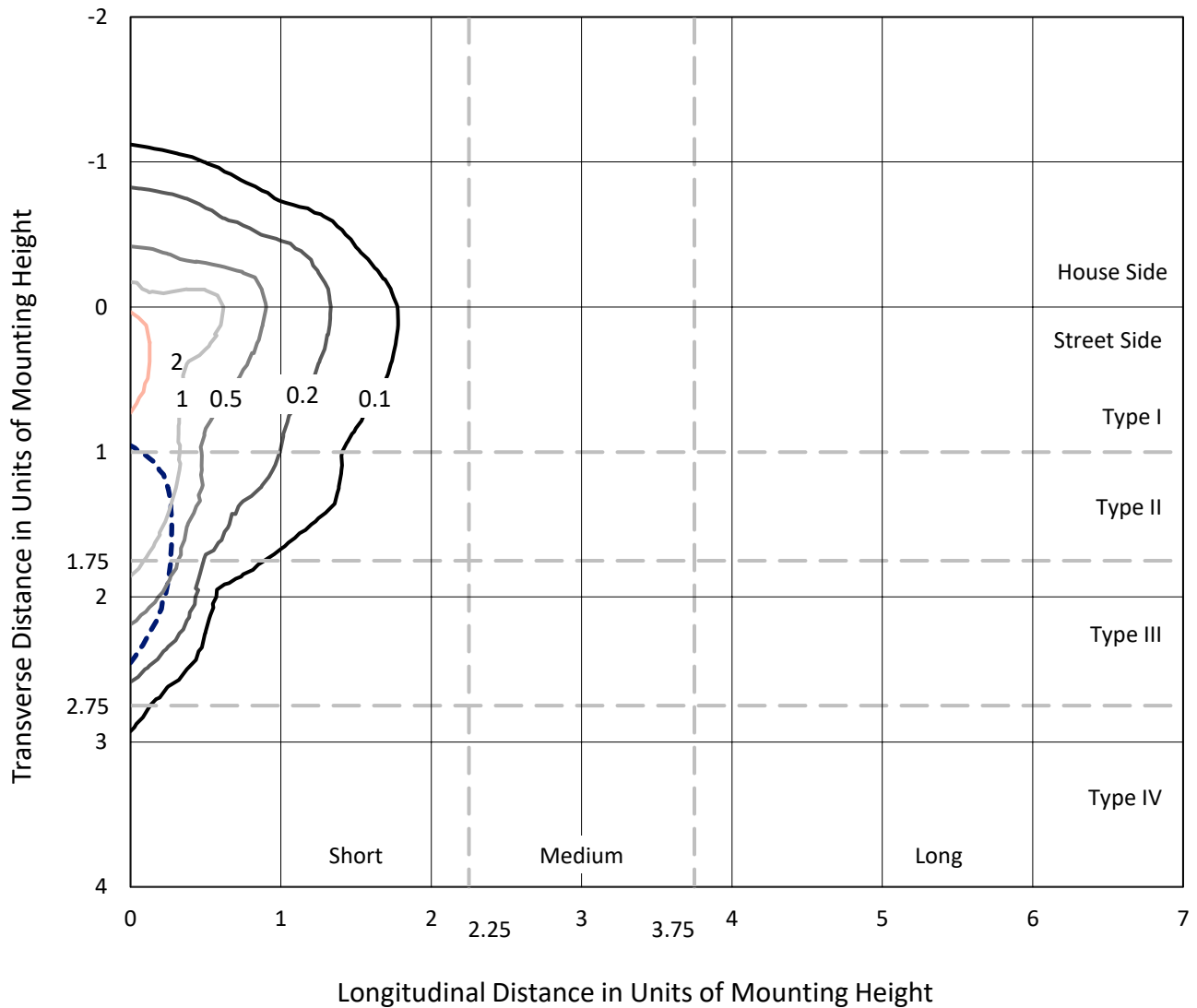
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

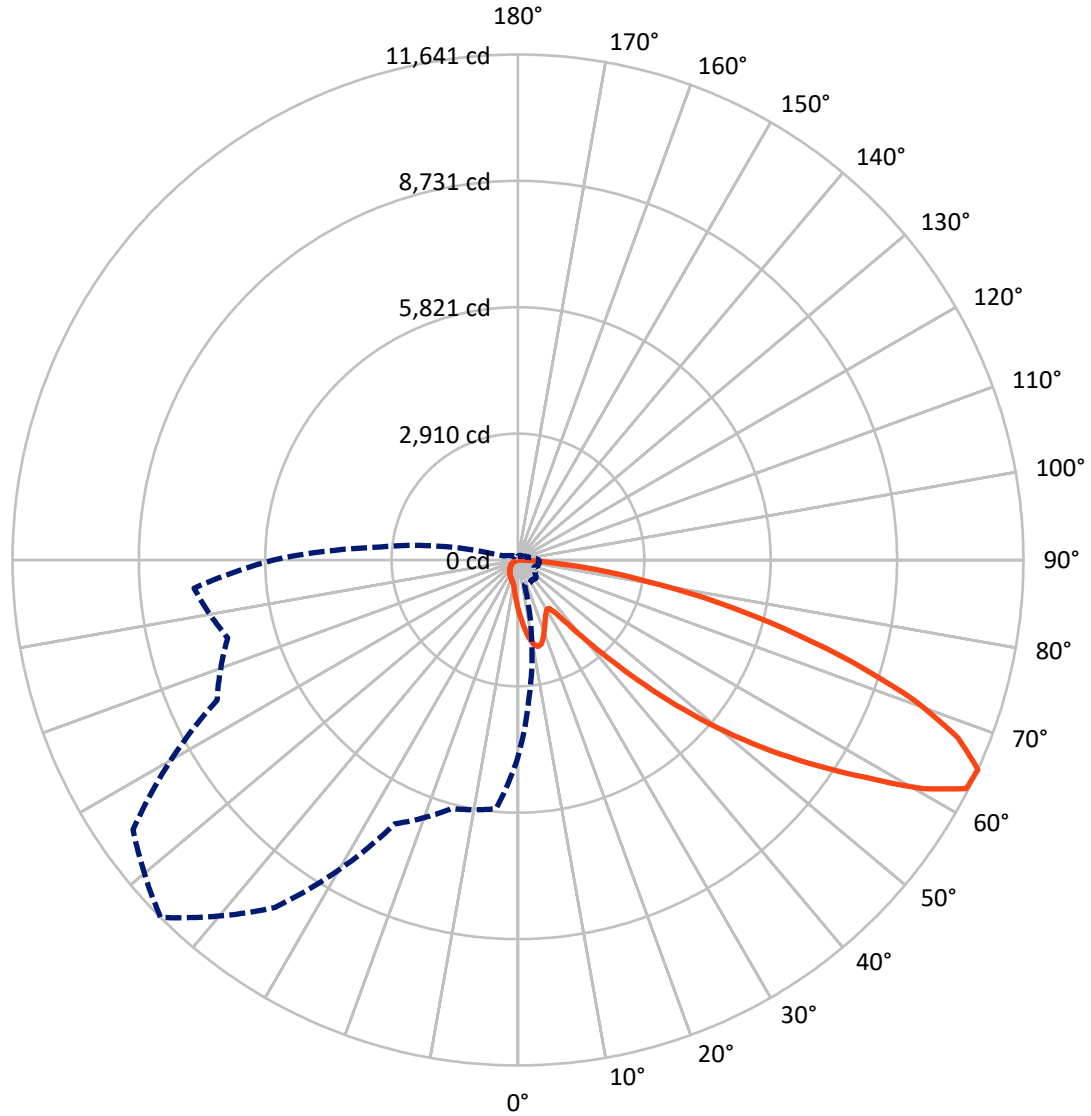
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.0	0.0	1160.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7123.0	0.0	7123.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	8283.0	0.0	8283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.4
10°-20°	338.5	4.1
20°-30°	498.7	6.0
30°-40°	640.7	7.7
40°-50°	1036.1	12.5
50°-60°	1817.0	21.9
60°-70°	2273.5	27.4
70°-80°	1328.5	16.0
80°-90°	237.0	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°	8283.0	100.0
0°-180°	8283.0	100.0

Coefficient of Utilization



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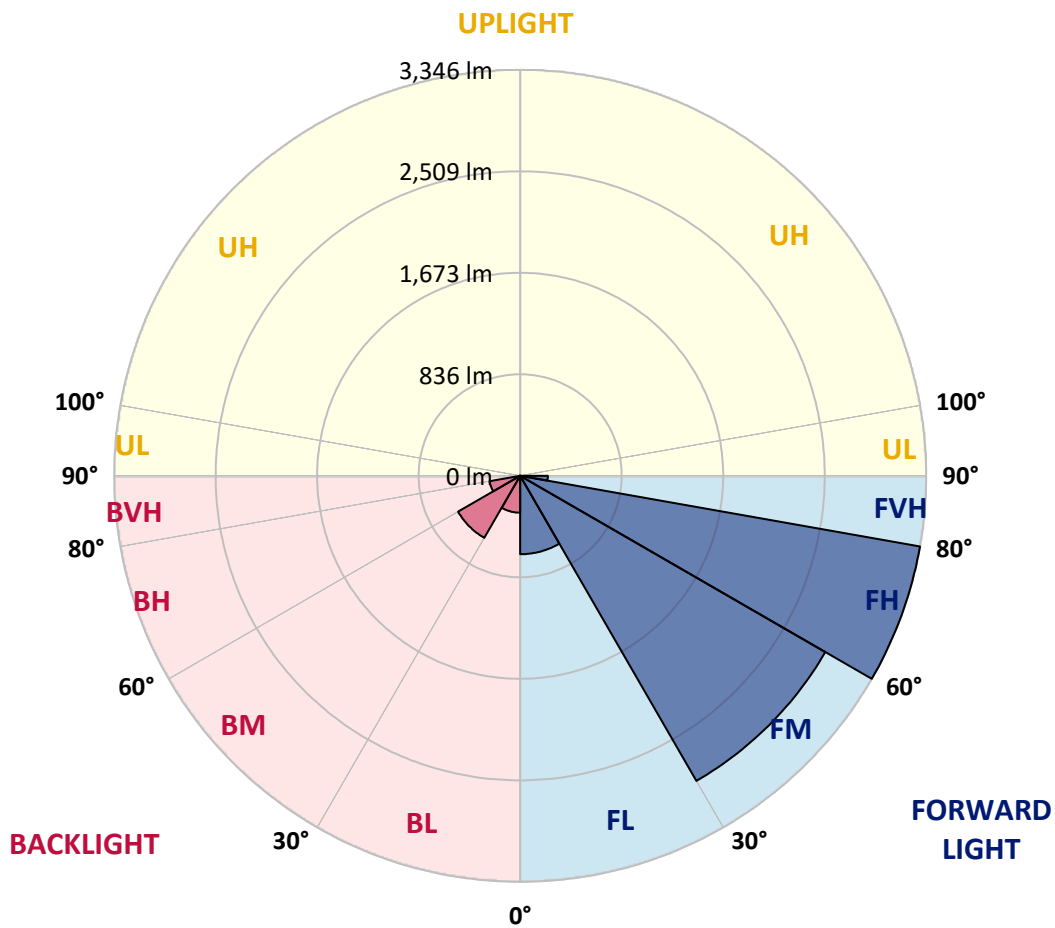
CATALOG NUMBER: GALN-SB2C-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.0	7.8			
FM (30°-60°)	2903.1	35.0			
FH (60°-80°)	3346.0	40.4			G2/5000
FVH (80°-90°)	227.9	2.8			G3/500
BL (0°-30°)	304.0	3.7	B1/500		
BM (30°-60°)	590.7	7.1	B1/1000		
BH (60°-80°)	256.1	3.1	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
2.5°	1295.9	1273.6	1260.5	1228.0	1195.4	1169.2	1133.8	1110.4	1082.5	1055.6
5°	1444.2	1408.3	1364.9	1305.6	1251.4	1196.0	1142.4	1089.3	1033.4	982.0
7.5°	1569.8	1517.8	1441.4	1362.6	1293.6	1226.8	1164.0	1093.9	1026.0	945.5
10°	1665.6	1599.4	1499.0	1395.7	1316.4	1249.1	1188.0	1128.7	1060.2	963.2
12.5°	1723.8	1653.1	1533.8	1412.8	1322.1	1246.8	1199.4	1173.2	1146.4	1049.9
15°	1766.6	1690.2	1558.3	1424.8	1309.0	1216.5	1181.7	1208.0	1238.8	1177.2
17.5°	1811.1	1730.7	1590.3	1430.0	1273.6	1157.8	1142.9	1210.8	1282.2	1279.3
20°	1853.3	1773.5	1618.3	1426.5	1216.5	1086.4	1099.6	1186.3	1269.0	1303.8
22.5°	1901.9	1817.4	1645.1	1413.4	1142.4	1019.7	1060.8	1147.5	1220.0	1261.1
25°	1961.2	1872.7	1682.7	1394.0	1062.5	964.3	1021.4	1102.4	1161.2	1189.7
27.5°	2025.1	1938.9	1732.9	1383.7	998.0	925.0	976.9	1048.8	1101.3	1121.3
30°	2104.4	2016.0	1792.3	1372.3	955.8	902.1	930.7	986.6	1037.9	1057.9
32.5°	2191.2	2101.6	1849.4	1344.9	930.1	885.0	885.6	921.0	967.8	991.7
35°	2299.6	2204.3	1910.4	1285.0	909.6	865.0	841.7	858.8	897.6	926.1
37.5°	2454.2	2338.9	1985.2	1199.4	879.3	834.2	795.4	799.4	829.1	860.5
40°	2667.6	2519.8	2073.0	1110.4	835.9	790.9	744.6	742.9	764.6	795.4
42.5°	2956.3	2758.9	2178.6	1025.4	794.3	738.4	691.0	688.2	705.3	732.1
45°	3337.5	3064.8	2308.1	952.4	761.8	687.0	640.2	639.1	653.4	676.7
47.5°	3825.4	3489.9	2437.7	902.7	744.6	646.5	598.6	600.9	613.4	634.5
50°	4457.1	4043.9	2477.0	877.6	744.6	624.8	561.5	572.9	583.2	599.1
52.5°	5214.3	4575.7	2346.9	854.8	749.2	627.7	530.1	554.6	562.1	575.7
55°	5916.1	4836.5	2017.7	823.4	750.4	645.4	503.3	539.8	553.5	558.6
57.5°	6323.5	4746.9	1631.4	770.3	745.8	657.3	486.2	521.5	547.8	551.2
60°	6245.9	4432.5	1201.1	729.8	712.1	652.8	481.0	493.6	535.2	540.4
62.5°	5647.9	3905.3	833.7	698.4	637.9	632.8	479.3	449.6	507.8	520.4
65°	4539.8	3074.5	588.9	601.4	559.2	589.4	470.2	404.0	474.7	491.9
67.5°	3293.6	2080.5	425.1	487.3	506.7	519.3	449.6	370.9	437.1	459.9
70°	2113.5	1123.5	298.4	321.8	426.8	441.1	414.3	341.2	398.9	425.1
72.5°	1502.4	663.6	214.6	225.4	342.9	367.5	364.6	308.1	354.4	386.3
75°	1036.8	365.8	144.9	160.9	248.8	298.4	281.3	264.8	300.1	332.7
77.5°	649.9	163.8	86.7	111.8	163.2	234.5	192.9	204.8	234.0	264.2
80°	361.8	63.3	48.5	74.2	89.0	170.6	106.7	131.8	172.3	194.0
82.5°	78.7	8.0	21.7	32.0	34.8	99.3	56.5	76.5	108.4	106.7
85°	0.0	0.0	4.0	4.6	2.3	42.8	20.5	25.1	35.4	33.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°
1146.9	0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
1031.7	2.5°	1027.1	999.1	978.6	968.3	959.8	967.8	972.3	972.3	991.7	1003.1
950.6	5°	930.7	880.5	842.2	816.5	801.1	806.3	812.0	818.3	842.8	859.3
902.7	7.5°	863.9	786.9	728.7	692.7	673.9	676.7	680.7	685.9	709.8	726.4
909.6	10°	851.4	740.7	658.5	611.1	588.3	584.3	582.0	580.3	594.6	607.1
987.2	12.5°	902.7	742.9	628.2	570.6	542.7	530.7	517.0	506.1	508.4	516.4
1104.7	15°	994.6	772.0	618.5	549.5	514.7	494.7	478.7	465.6	462.8	465.6
1207.4	17.5°	1099.6	811.4	617.4	531.2	487.9	467.3	454.2	442.2	438.2	438.8
1265.0	20°	1169.2	842.8	614.0	510.7	462.2	443.9	432.5	420.5	416.5	417.7
1249.1	22.5°	1176.0	859.3	608.8	487.9	436.5	421.1	409.7	398.9	398.3	398.3
1189.2	25°	1138.9	859.3	598.0	467.3	412.0	398.3	388.0	374.9	377.2	378.3
1121.3	27.5°	1081.3	838.8	577.5	450.8	390.9	376.6	366.3	354.4	357.2	358.9
1057.9	30°	1024.2	812.6	552.9	432.0	370.9	354.4	346.9	336.7	337.8	340.1
995.1	32.5°	971.2	784.6	523.8	416.5	350.9	334.4	328.7	317.3	319.0	321.3
933.5	35°	918.7	753.8	489.6	398.3	332.7	316.1	311.6	298.4	299.6	303.0
871.9	37.5°	862.2	721.3	461.6	380.0	315.0	297.9	293.3	279.6	280.7	284.7
808.0	40°	802.9	689.3	434.2	360.6	296.1	279.0	275.0	260.2	261.3	265.9
745.2	42.5°	742.9	654.5	413.1	335.5	276.7	258.5	254.5	240.8	242.5	247.6
690.4	45°	687.6	612.8	399.4	307.6	258.5	237.9	234.0	221.4	224.8	230.5
644.2	47.5°	640.2	570.0	393.7	284.2	239.1	216.8	213.4	203.1	208.8	215.1
604.8	50°	599.7	529.0	386.3	260.2	220.8	198.6	195.1	188.3	195.7	202.0
578.0	52.5°	570.6	482.2	370.3	238.5	204.8	183.2	182.0	178.6	185.4	191.2
558.1	55°	545.5	433.7	344.6	219.7	190.6	170.0	171.2	169.5	175.2	179.7
546.1	57.5°	522.7	391.4	312.1	204.8	175.2	158.6	162.1	159.8	162.6	165.5
533.5	60°	495.3	348.6	273.3	188.3	156.9	147.2	151.2	144.9	144.4	145.5
510.7	62.5°	454.8	291.0	232.8	167.8	140.9	134.7	136.4	124.4	115.3	115.3
477.0	65°	398.3	234.0	195.1	144.9	122.7	117.5	116.4	99.3	86.7	85.6
440.5	67.5°	332.7	192.3	162.1	122.1	102.1	98.7	99.9	87.3	74.8	73.6
404.0	70°	271.0	159.2	130.7	97.6	78.7	82.2	87.3	74.8	62.8	61.1
361.2	72.5°	220.3	126.7	102.1	74.8	58.2	67.9	74.2	61.1	49.6	48.5
308.1	75°	170.0	93.0	73.0	50.8	42.2	52.5	58.2	44.5	35.4	33.7
238.5	77.5°	113.6	57.6	41.1	32.0	25.1	35.9	38.8	23.4	20.5	20.0
173.5	80°	69.0	26.8	17.7	15.4	8.6	13.1	15.4	9.7	10.8	11.4
92.4	82.5°	34.8	7.4	2.9	0.6	0.0	0.0	4.6	2.3	4.6	5.7
25.1	85°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°
1146.9	0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
1007.7	2.5°	1039.7	1063.6	1086.4	1123.0	1160.6	1197.7	1235.4	1271.9	1285.0	1294.7
870.2	5°	919.8	964.9	1017.4	1089.9	1167.5	1247.4	1328.4	1402.6	1436.2	1459.1
740.7	7.5°	796.0	854.8	930.1	1039.1	1160.6	1287.9	1415.1	1532.1	1586.3	1630.2
618.5	10°	673.3	737.2	832.5	956.9	1121.3	1303.8	1479.6	1640.5	1710.7	1766.0
530.7	12.5°	565.5	625.4	725.2	862.8	1059.6	1291.3	1516.7	1710.1	1792.9	1855.1
467.9	15°	489.6	531.8	620.3	768.6	986.6	1250.8	1519.0	1743.2	1833.9	1899.0
441.7	17.5°	447.4	461.6	519.3	672.8	905.6	1197.7	1497.9	1754.6	1851.6	1912.1
418.3	20°	424.5	426.8	442.8	548.4	801.7	1148.1	1477.9	1766.0	1868.2	1919.0
401.7	22.5°	406.3	406.3	410.3	448.5	667.6	1088.7	1471.6	1786.0	1891.0	1922.4
382.9	25°	389.7	389.7	390.9	401.1	529.0	998.0	1467.6	1816.8	1922.4	1931.0
364.1	27.5°	372.6	373.2	373.2	378.9	426.2	874.7	1450.5	1856.8	1960.1	1942.4
345.8	30°	355.5	356.6	356.6	360.6	377.2	730.4	1416.8	1904.7	2009.1	1957.2
327.5	32.5°	338.4	339.5	339.5	342.9	354.9	583.2	1374.6	1948.6	2058.8	1963.5
309.8	35°	320.7	322.4	321.3	325.8	338.4	463.9	1321.0	1992.6	2112.4	1983.4
292.7	37.5°	303.0	304.1	303.6	308.1	322.4	400.6	1258.8	2025.7	2185.4	2028.0
274.5	40°	285.3	284.7	284.7	289.9	305.3	382.3	1180.6	2078.2	2290.4	2106.1
256.2	42.5°	267.0	267.0	265.9	271.6	290.4	368.6	1105.8	2172.3	2443.4	2230.5
239.1	45°	250.5	249.9	247.6	252.8	276.2	344.6	1079.6	2348.1	2669.3	2431.9
222.0	47.5°	234.5	234.0	228.2	232.8	259.1	323.0	1177.7	2635.7	2982.6	2728.1
208.3	50°	220.3	220.8	210.0	214.0	241.9	306.4	1390.6	3008.8	3398.6	3127.0
196.9	52.5°	207.1	207.1	192.9	195.1	220.8	291.6	1593.1	3413.4	3947.5	3683.3
184.9	55°	194.0	192.9	176.9	178.0	199.7	270.5	1623.4	3808.3	4696.1	4520.4
171.8	57.5°	179.2	176.9	162.1	162.1	180.3	255.1	1407.1	4111.8	5625.1	5750.6
147.2	60°	160.9	159.2	149.5	146.6	164.9	268.8	992.9	4147.2	6224.2	7386.6
117.0	62.5°	137.5	139.8	134.7	130.7	150.1	279.0	588.3	3862.5	6079.3	7907.0
90.7	65°	108.4	117.5	116.4	113.6	164.9	235.1	347.5	3315.8	5634.8	7487.0
79.3	67.5°	92.4	98.7	97.0	97.0	172.9	178.6	218.5	2590.6	5023.1	6988.9
66.2	70°	78.7	85.0	78.7	78.7	130.7	108.4	151.2	1808.8	4362.9	6437.6
53.1	72.5°	65.0	71.3	64.5	59.9	104.4	81.0	110.7	1130.4	3736.4	5863.6
37.7	75°	49.6	57.1	51.9	46.2	69.0	60.5	83.9	656.8	3095.6	5016.8
22.8	77.5°	31.4	41.1	38.8	32.5	50.8	43.9	60.5	390.9	2388.6	3920.1
13.7	80°	19.4	21.1	21.7	20.5	29.1	29.7	41.1	222.5	1634.8	2732.1
8.6	82.5°	12.6	12.6	9.7	10.8	14.3	17.1	23.4	83.9	960.9	1663.3
5.1	85°	9.1	8.0	5.1	5.1	6.8	8.6	9.1	25.7	389.7	656.8
2.3	87.5°	4.6	4.0	1.7	2.3	3.4	2.9	2.3	1.1	98.1	210.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1146.9	0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
1316.4	2.5°	1327.8	1345.5	1346.6	1346.6	1331.2	1330.7	1299.3	1295.9
1510.4	5°	1563.5	1574.9	1577.7	1572.0	1541.2	1518.4	1457.3	1444.2
1708.4	7.5°	1779.2	1802.0	1802.0	1788.3	1738.1	1691.3	1602.8	1569.8
1872.2	10°	1951.5	1977.7	1972.0	1944.1	1880.7	1816.3	1709.0	1665.6
1971.5	12.5°	2035.4	2062.2	2047.4	2015.4	1953.8	1885.9	1772.9	1723.8
2000.0	15°	2033.7	2026.2	2010.8	2006.8	1977.2	1925.8	1820.3	1766.6
1982.3	17.5°	1961.2	1898.4	1886.4	1926.4	1964.0	1951.5	1861.3	1811.1
1940.1	20°	1846.5	1736.9	1726.1	1802.6	1909.8	1964.6	1899.6	1853.3
1879.0	22.5°	1725.5	1607.4	1582.3	1666.8	1828.2	1968.6	1948.1	1901.9
1811.7	25°	1610.8	1492.2	1467.0	1545.8	1737.5	1961.8	2000.6	1961.2
1747.2	27.5°	1515.0	1400.3	1376.9	1455.6	1650.2	1942.4	2053.1	2025.1
1683.3	30°	1440.8	1334.7	1317.5	1393.4	1574.9	1918.4	2119.8	2104.4
1624.0	32.5°	1397.4	1319.8	1326.1	1388.3	1534.4	1892.1	2183.7	2191.2
1594.9	35°	1440.2	1443.6	1498.4	1524.1	1572.0	1888.2	2270.5	2299.6
1629.7	37.5°	1653.1	1771.8	1885.3	1864.2	1756.3	1934.4	2400.0	2454.2
1781.5	40°	2015.4	2259.1	2443.4	2362.9	2091.3	2075.9	2586.6	2667.6
2050.8	42.5°	2458.2	2871.3	3174.9	2959.2	2523.2	2323.5	2853.1	2956.3
2376.6	45°	2925.5	3626.2	4104.4	3655.9	2983.7	2670.5	3256.5	3337.5
2681.9	47.5°	3418.0	4543.8	5162.3	4428.5	3410.5	3065.3	3806.6	3825.4
2971.2	50°	3956.6	5549.8	6240.8	5200.6	3822.5	3517.8	4478.7	4457.1
3308.4	52.5°	4469.6	6584.3	7296.4	5976.0	4184.3	4079.3	5258.8	5214.3
3769.5	55°	4959.2	7618.2	8358.3	6721.2	4525.5	4821.1	6185.4	5916.1
4434.2	57.5°	5526.9	8547.8	9452.8	7469.9	5002.6	5784.3	7221.7	6323.5
5707.3	60°	6366.3	9604.0	10690.4	8495.8	5909.8	6796.6	7593.1	6245.9
7231.9	62.5°	7437.9	10575.2	11590.3	9501.3	6821.1	6987.1	7045.9	5647.9
6921.0	65°	7646.2	10821.1	11641.1	9770.0	6703.6	5926.9	5752.3	4539.8
6182.0	67.5°	7093.9	10376.6	10931.2	9269.6	5929.8	4580.3	4316.7	3293.6
5697.0	70°	6474.2	9529.2	9694.1	8418.8	5215.4	3368.9	2915.3	2113.5
5364.9	72.5°	5839.1	8398.8	8057.6	7311.3	4583.7	2453.1	2102.7	1502.4
4891.9	75°	5084.7	6912.4	6346.9	6074.7	3795.1	1925.2	1521.3	1036.8
4207.7	77.5°	4071.9	4865.6	4714.4	4708.7	2851.9	1406.6	1015.1	649.9
3287.3	80°	2872.5	3157.8	3080.7	3546.4	1913.3	1020.3	611.1	361.8
2288.2	82.5°	1390.6	1746.1	1792.3	2111.8	930.7	600.3	140.9	78.7
894.7	85°	544.4	842.2	710.4	801.7	261.3	167.2	3.4	0.0
147.2	87.5°	61.1	97.6	89.6	70.8	32.0	6.8	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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