

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: P947655

Luminaire Tested: **GALN-SB2D-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947655
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-SB2D-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA 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: 11254 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

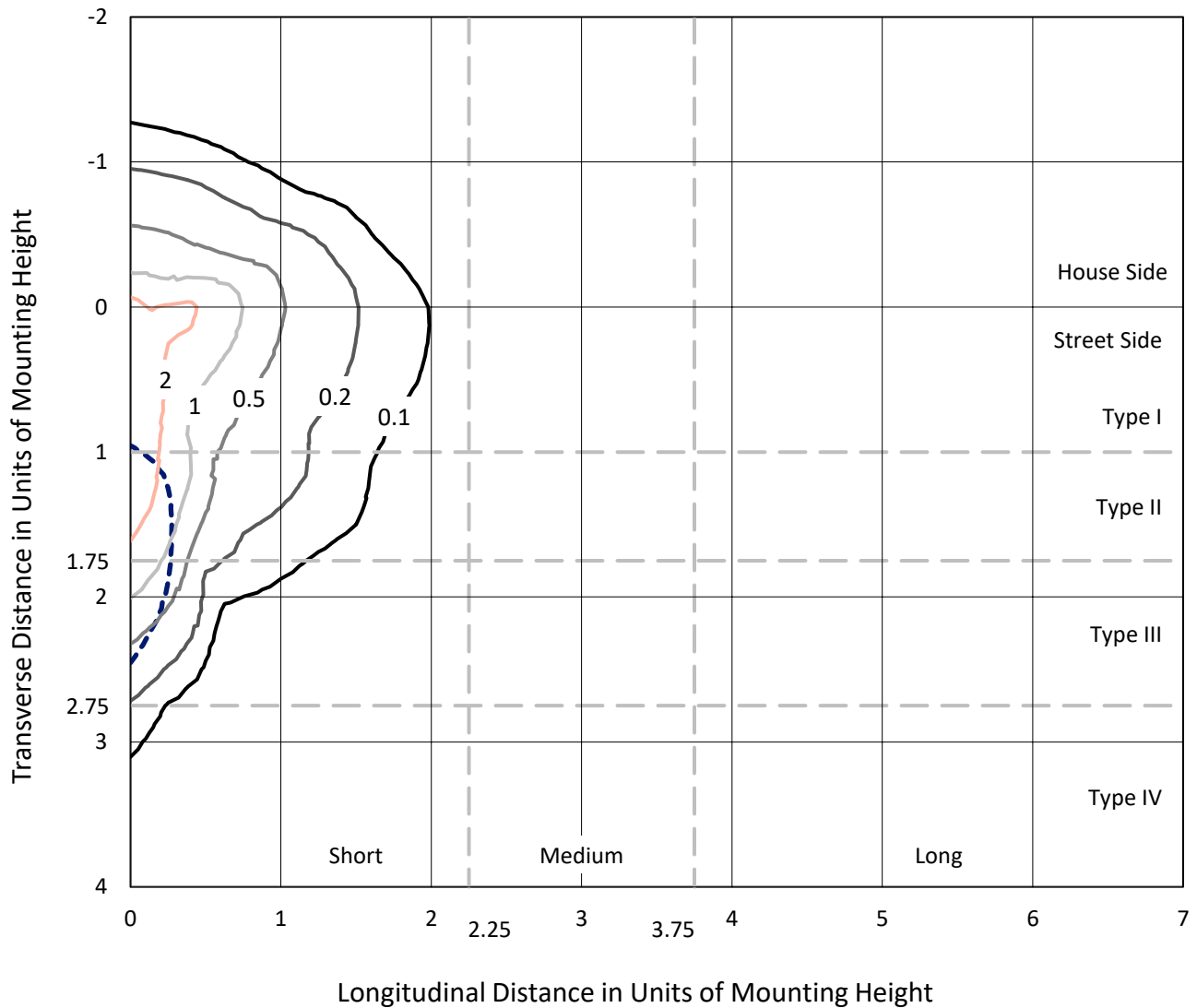
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

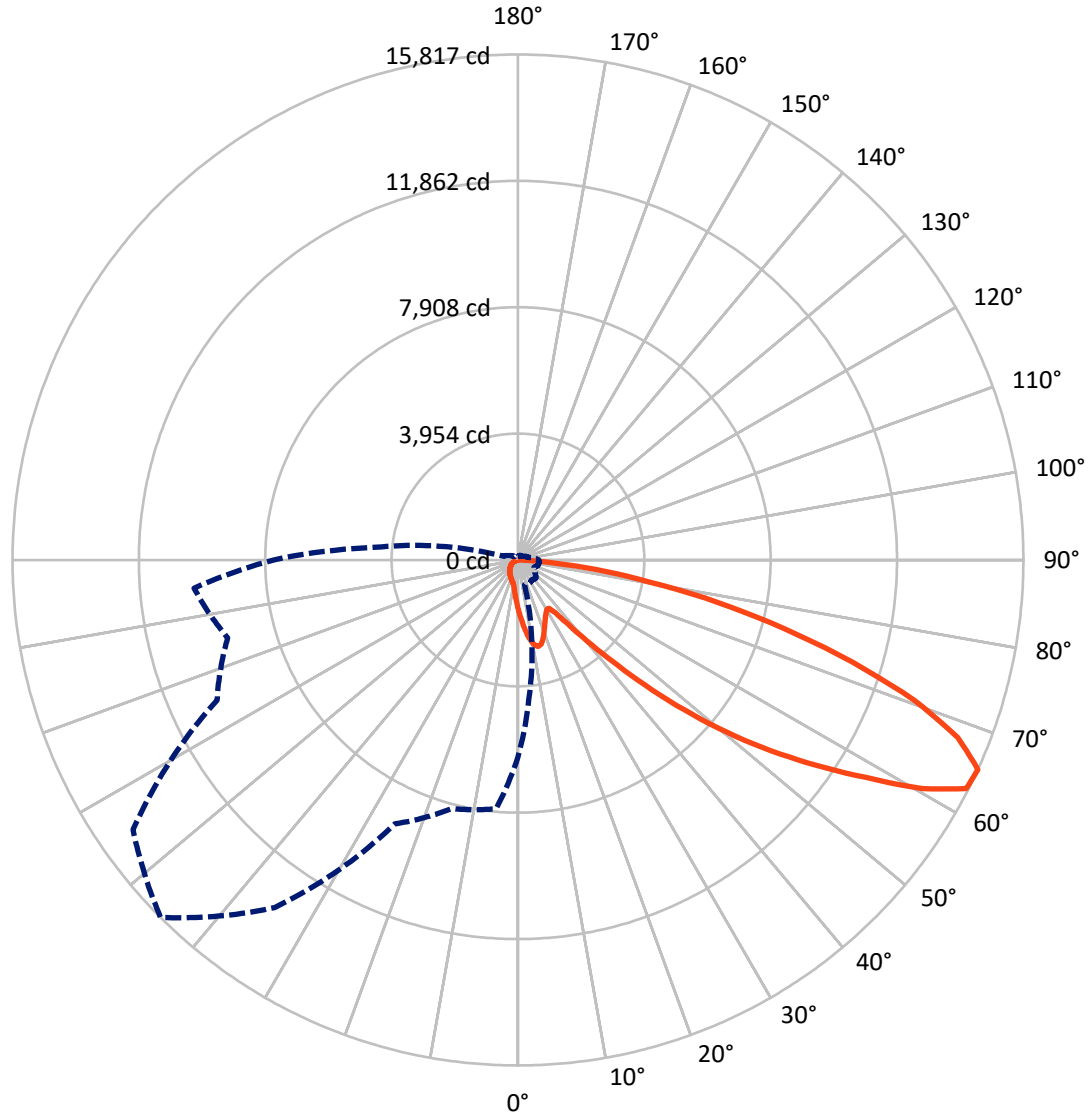
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1576.0	0.0	1576.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9678.0	0.0	9678.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	11254.0	0.0	11254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.4
10°-20°	459.9	4.1
20°-30°	677.5	6.0
30°-40°	870.5	7.7
40°-50°	1407.8	12.5
50°-60°	2468.7	21.9
60°-70°	3089.0	27.4
70°-80°	1805.1	16.0
80°-90°	322.1	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°	11254.0	100.0
0°-180°	11254.0	100.0

Coefficient of Utilization



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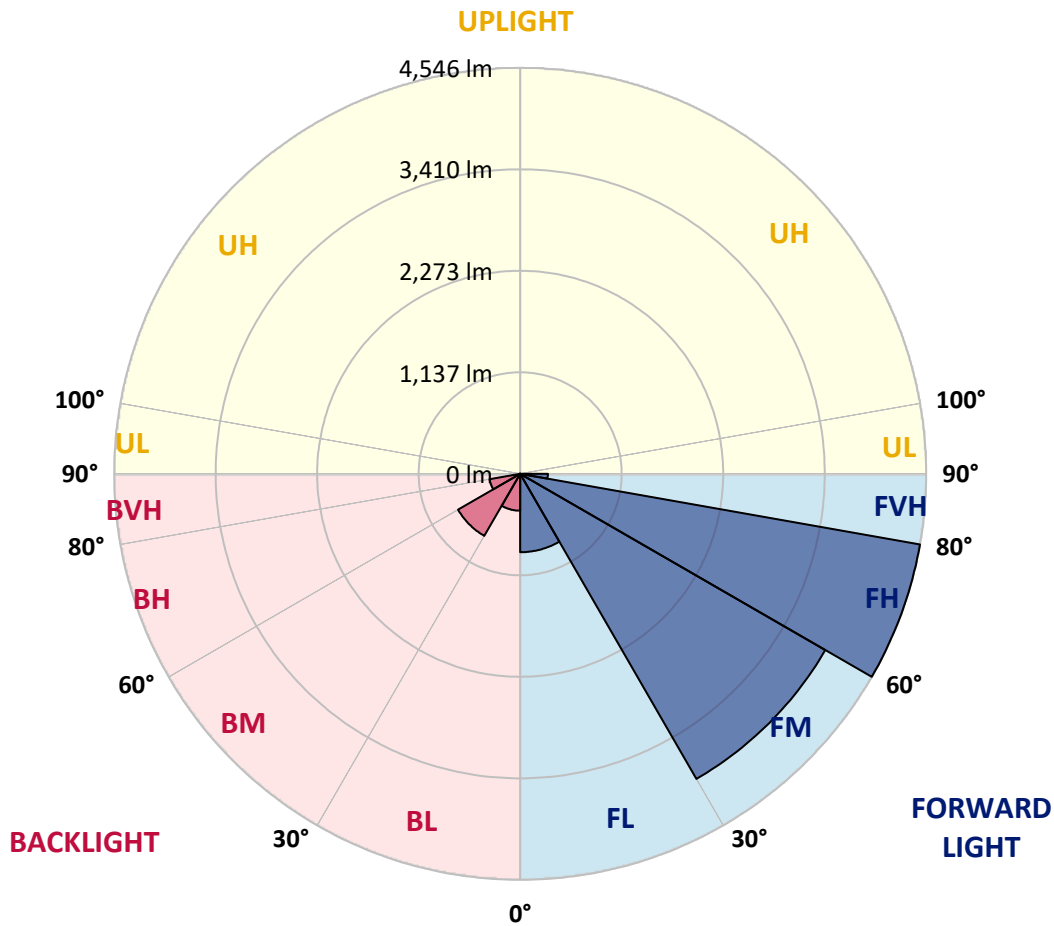
CATALOG NUMBER: GALN-SB2D-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.8	7.8			
FM (30°-60°)	3944.4	35.0			
FH (60°-80°)	4546.1	40.4			G2/5000
FVH (80°-90°)	309.7	2.8			G3/500
BL (0°-30°)	413.1	3.7	B1/500		
BM (30°-60°)	802.6	7.1	B1/1000		
BH (60°-80°)	348.0	3.1	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
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°	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3
2.5°	1760.7	1730.4	1712.6	1668.4	1624.2	1588.6	1540.5	1508.7	1470.7	1434.3
5°	1962.2	1913.4	1854.5	1773.8	1700.2	1625.0	1552.1	1480.0	1404.0	1334.3
7.5°	2132.8	2062.3	1958.4	1851.4	1757.6	1666.9	1581.6	1486.2	1394.0	1284.6
10°	2263.1	2173.1	2036.7	1896.3	1788.6	1697.1	1614.1	1533.5	1440.5	1308.7
12.5°	2342.1	2246.0	2084.0	1919.6	1796.3	1694.0	1629.6	1594.0	1557.5	1426.5
15°	2400.3	2296.4	2117.3	1935.9	1778.5	1652.9	1605.6	1641.3	1683.1	1599.4
17.5°	2460.7	2351.4	2160.7	1942.9	1730.4	1573.0	1552.9	1645.2	1742.1	1738.2
20°	2518.1	2409.6	2198.7	1938.2	1652.9	1476.1	1494.0	1611.8	1724.2	1771.5
22.5°	2584.0	2469.3	2235.1	1920.4	1552.1	1385.4	1441.3	1559.1	1657.6	1713.4
25°	2664.6	2544.5	2286.3	1894.0	1443.6	1310.2	1387.8	1497.8	1577.7	1616.5
27.5°	2751.5	2634.4	2354.5	1880.1	1356.0	1256.7	1327.3	1425.0	1496.3	1523.4
30°	2859.2	2739.1	2435.2	1864.6	1298.6	1225.7	1264.5	1340.5	1410.2	1437.4
32.5°	2977.1	2855.4	2512.7	1827.3	1263.7	1202.5	1203.2	1251.3	1314.9	1347.4
35°	3124.4	2994.9	2595.6	1745.9	1235.8	1175.3	1143.5	1166.8	1219.5	1258.3
37.5°	3334.5	3177.9	2697.2	1629.6	1194.7	1133.5	1080.7	1086.2	1126.5	1169.1
40°	3624.4	3423.6	2816.6	1508.7	1135.8	1074.5	1011.7	1009.4	1038.9	1080.7
42.5°	4016.7	3748.5	2960.0	1393.2	1079.2	1003.2	938.9	935.0	958.2	994.7
45°	4534.6	4164.0	3136.0	1293.9	1035.0	933.4	869.9	868.3	887.7	919.5
47.5°	5197.5	4741.6	3312.0	1226.5	1011.7	878.4	813.3	816.4	833.4	862.1
50°	6055.7	5494.4	3365.5	1192.4	1011.7	848.9	762.9	778.4	792.3	814.0
52.5°	7084.5	6217.0	3188.7	1161.4	1017.9	852.8	720.2	753.6	763.7	782.3
55°	8038.1	6571.3	2741.4	1118.7	1019.5	876.8	683.8	733.4	752.0	759.0
57.5°	8591.7	6449.6	2216.5	1046.6	1013.3	893.1	660.5	708.6	744.3	748.9
60°	8486.2	6022.4	1632.0	991.6	967.6	886.9	653.6	670.6	727.2	734.2
62.5°	7673.8	5306.0	1132.7	948.9	866.8	859.8	651.2	610.9	690.0	707.1
65°	6168.2	4177.2	800.1	817.1	759.8	800.9	638.8	548.9	645.0	668.3
67.5°	4474.9	2826.7	577.6	662.1	688.5	705.5	610.9	503.9	593.9	624.9
70°	2871.6	1526.5	405.5	437.3	579.9	599.3	562.9	463.6	541.9	577.6
72.5°	2041.3	901.7	291.5	306.2	465.9	499.3	495.4	418.7	481.5	524.9
75°	1408.7	497.0	196.9	218.6	338.0	405.5	382.2	359.7	407.8	452.0
77.5°	883.0	222.5	117.8	152.0	221.7	318.6	262.0	278.3	317.9	359.0
80°	491.5	86.1	65.9	100.8	120.9	231.8	145.0	179.1	234.1	263.6
82.5°	107.0	10.9	29.5	43.4	47.3	134.9	76.8	103.9	147.3	145.0
85°	0.0	0.0	5.4	6.2	3.1	58.1	27.9	34.1	48.1	45.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°
1558.3	0°	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3
1401.7	2.5°	1395.5	1357.5	1329.6	1315.7	1304.0	1314.9	1321.1	1321.1	1347.4	1362.9
1291.6	5°	1264.5	1196.3	1144.3	1109.4	1088.5	1095.5	1103.2	1111.8	1145.1	1167.6
1226.5	7.5°	1173.8	1069.1	990.0	941.2	915.6	919.5	924.9	931.9	964.5	986.9
1235.8	10°	1156.7	1006.3	894.7	830.3	799.3	793.9	790.8	788.5	807.8	824.9
1341.2	12.5°	1226.5	1009.4	853.6	775.3	737.3	721.0	702.4	687.7	690.8	701.6
1500.9	15°	1351.3	1049.0	840.4	746.6	699.3	672.2	650.5	632.6	628.8	632.6
1640.5	17.5°	1494.0	1102.5	838.9	721.8	662.9	635.0	617.1	600.8	595.4	596.2
1718.8	20°	1588.6	1145.1	834.2	693.9	628.0	603.2	587.7	571.4	566.0	567.5
1697.1	22.5°	1597.9	1167.6	827.2	662.9	593.1	572.2	556.7	541.9	541.1	541.1
1615.7	25°	1547.5	1167.6	812.5	635.0	559.8	541.1	527.2	509.4	512.5	514.0
1523.4	27.5°	1469.2	1139.7	784.6	612.5	531.1	511.7	497.7	481.5	485.3	487.7
1437.4	30°	1391.6	1104.0	751.2	586.9	503.9	481.5	471.4	457.4	459.0	462.1
1352.1	32.5°	1319.5	1066.0	711.7	566.0	476.8	454.3	446.6	431.1	433.4	436.5
1268.4	35°	1248.2	1024.1	665.2	541.1	452.0	429.5	423.3	405.5	407.0	411.7
1184.6	37.5°	1171.5	980.0	627.2	516.3	428.0	404.7	398.5	379.9	381.4	386.9
1097.8	40°	1090.8	936.5	590.0	490.0	402.4	379.1	373.7	353.5	355.1	361.3
1012.5	42.5°	1009.4	889.2	561.3	455.9	376.0	351.2	345.8	327.2	329.5	336.5
938.1	45°	934.2	832.7	542.7	417.9	351.2	323.3	317.9	300.8	305.5	313.2
875.3	47.5°	869.9	774.5	534.9	386.1	324.8	294.6	290.0	276.0	283.8	292.3
821.8	50°	814.8	718.7	524.9	353.5	300.0	269.8	265.1	255.8	265.9	274.5
785.4	52.5°	775.3	655.1	503.2	324.1	278.3	248.9	247.3	242.7	252.0	259.7
758.2	55°	741.2	589.2	468.3	298.5	258.9	231.0	232.6	230.3	238.0	244.2
741.9	57.5°	710.2	531.8	424.1	278.3	238.0	215.5	220.2	217.1	221.0	224.8
724.9	60°	672.9	473.7	371.4	255.8	213.2	200.0	205.5	196.9	196.1	197.7
693.9	62.5°	617.9	395.4	316.3	227.9	191.5	183.0	185.3	169.0	156.6	156.6
648.1	65°	541.1	317.9	265.1	196.9	166.7	159.7	158.2	134.9	117.8	116.3
598.5	67.5°	452.0	261.3	220.2	165.9	138.8	134.1	135.7	118.6	101.6	100.0
548.9	70°	368.3	216.3	177.5	132.6	107.0	111.6	118.6	101.6	85.3	83.0
490.8	72.5°	299.3	172.1	138.8	101.6	79.1	92.3	100.8	83.0	67.4	65.9
418.7	75°	231.0	126.4	99.2	69.0	57.4	71.3	79.1	60.5	48.1	45.7
324.1	77.5°	154.3	78.3	55.8	43.4	34.1	48.8	52.7	31.8	27.9	27.1
235.7	80°	93.8	36.4	24.0	20.9	11.6	17.8	20.9	13.2	14.7	15.5
125.6	82.5°	47.3	10.1	3.9	0.8	0.0	0.0	6.2	3.1	6.2	7.8
34.1	85°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9
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°
1558.3	0°	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3
1369.1	2.5°	1412.6	1445.1	1476.1	1525.8	1576.9	1627.3	1678.5	1728.1	1745.9	1759.1
1182.3	5°	1249.8	1311.0	1382.3	1480.8	1586.2	1694.8	1804.9	1905.6	1951.4	1982.4
1006.3	7.5°	1081.5	1161.4	1263.7	1411.8	1576.9	1749.8	1922.7	2081.6	2155.3	2215.0
840.4	10°	914.8	1001.7	1131.1	1300.1	1523.4	1771.5	2010.3	2228.9	2324.3	2399.5
721.0	12.5°	768.3	849.7	985.4	1172.2	1439.7	1754.5	2060.7	2323.5	2435.9	2520.4
635.7	15°	665.2	722.6	842.7	1044.3	1340.5	1699.4	2063.8	2368.5	2491.8	2580.1
600.1	17.5°	607.8	627.2	705.5	914.1	1230.4	1627.3	2035.1	2384.0	2515.8	2598.0
568.3	20°	576.8	579.9	601.6	745.0	1089.3	1559.9	2008.0	2399.5	2538.3	2607.3
545.8	22.5°	552.0	552.0	557.4	609.4	907.1	1479.2	1999.5	2426.6	2569.3	2611.9
520.2	25°	529.5	529.5	531.1	545.0	718.7	1356.0	1994.0	2468.5	2611.9	2623.6
494.6	27.5°	506.3	507.0	507.0	514.8	579.1	1188.5	1970.8	2522.8	2663.1	2639.1
469.8	30°	483.0	484.6	484.6	490.0	512.5	992.4	1925.0	2587.9	2729.8	2659.2
445.0	32.5°	459.7	461.3	461.3	465.9	482.2	792.3	1867.7	2647.6	2797.2	2667.7
421.0	35°	435.7	438.0	436.5	442.7	459.7	630.3	1794.8	2707.3	2870.1	2694.9
397.7	37.5°	411.7	413.2	412.5	418.7	438.0	544.2	1710.3	2752.3	2969.3	2755.4
372.9	40°	387.6	386.9	386.9	393.8	414.8	519.4	1604.1	2823.6	3112.0	2861.6
348.1	42.5°	362.8	362.8	361.3	369.0	394.6	500.8	1502.5	2951.5	3319.8	3030.6
324.8	45°	340.3	339.6	336.5	343.5	375.2	468.3	1466.8	3190.3	3626.8	3304.3
301.6	47.5°	318.6	317.9	310.1	316.3	352.0	438.8	1600.2	3581.0	4052.4	3706.6
283.0	50°	299.3	300.0	285.3	290.7	328.7	416.3	1889.4	4088.1	4617.6	4248.6
267.5	52.5°	281.4	281.4	262.0	265.1	300.0	396.2	2164.6	4637.7	5363.4	5004.5
251.2	55°	263.6	262.0	240.3	241.9	271.3	367.5	2205.7	5174.2	6380.6	6141.8
233.4	57.5°	243.4	240.3	220.2	220.2	245.0	346.6	1911.8	5586.7	7642.7	7813.3
200.0	60°	218.6	216.3	203.1	199.2	224.1	365.2	1349.0	5634.8	8456.8	10036.0
158.9	62.5°	186.8	189.9	183.0	177.5	203.9	379.1	799.3	5247.9	8259.9	10743.1
123.3	65°	147.3	159.7	158.2	154.3	224.1	319.4	472.1	4505.2	7655.9	10172.5
107.8	67.5°	125.6	134.1	131.8	131.8	234.9	242.7	296.9	3519.8	6824.8	9495.7
89.9	70°	107.0	115.5	107.0	107.0	177.5	147.3	205.5	2457.6	5927.8	8746.7
72.1	72.5°	88.4	96.9	87.6	81.4	141.9	110.1	150.4	1535.8	5076.6	7966.8
51.2	75°	67.4	77.5	70.6	62.8	93.8	82.2	114.0	892.4	4205.9	6816.3
31.0	77.5°	42.6	55.8	52.7	44.2	69.0	59.7	82.2	531.1	3245.3	5326.2
18.6	80°	26.4	28.7	29.5	27.9	39.5	40.3	55.8	302.4	2221.2	3712.1
11.6	82.5°	17.1	17.1	13.2	14.7	19.4	23.3	31.8	114.0	1305.6	2260.0
7.0	85°	12.4	10.9	7.0	7.0	9.3	11.6	12.4	34.9	529.5	892.4
3.1	87.5°	6.2	5.4	2.3	3.1	4.7	3.9	3.1	1.6	133.3	285.3
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°
1558.3	0°	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3
1788.6	2.5°	1804.1	1828.1	1829.7	1829.7	1808.7	1808.0	1765.3	1760.7
2052.2	5°	2124.3	2139.8	2143.7	2135.9	2094.0	2063.0	1980.1	1962.2
2321.2	7.5°	2417.3	2448.3	2448.3	2429.7	2361.5	2297.9	2177.8	2132.8
2543.7	10°	2651.5	2687.1	2679.4	2641.4	2555.3	2467.7	2322.0	2263.1
2678.6	12.5°	2765.4	2801.9	2781.7	2738.3	2654.6	2562.3	2408.8	2342.1
2717.4	15°	2763.1	2753.0	2732.1	2726.7	2686.4	2616.6	2473.2	2400.3
2693.3	17.5°	2664.6	2579.4	2563.1	2617.4	2668.5	2651.5	2529.0	2460.7
2636.0	20°	2508.8	2360.0	2345.2	2449.1	2594.9	2669.3	2580.9	2518.1
2553.0	22.5°	2344.5	2184.0	2149.9	2264.6	2484.0	2674.7	2646.8	2584.0
2461.5	25°	2188.6	2027.4	1993.3	2100.2	2360.7	2665.4	2718.1	2664.6
2373.9	27.5°	2058.4	1902.5	1870.8	1977.7	2242.1	2639.1	2789.5	2751.5
2287.1	30°	1957.6	1813.4	1790.1	1893.2	2139.8	2606.5	2880.2	2859.2
2206.5	32.5°	1898.7	1793.2	1801.8	1886.3	2084.7	2570.8	2967.0	2977.1
2166.9	35°	1956.8	1961.5	2035.9	2070.8	2135.9	2565.4	3084.9	3124.4
2214.2	37.5°	2246.0	2407.3	2561.5	2532.8	2386.3	2628.2	3260.8	3334.5
2420.4	40°	2738.3	3069.3	3319.8	3210.4	2841.4	2820.5	3514.4	3624.4
2786.4	42.5°	3339.9	3901.2	4313.7	4020.6	3428.3	3157.0	3876.4	4016.7
3229.1	45°	3974.9	4926.9	5576.6	4967.2	4054.0	3628.3	4424.5	4534.6
3643.8	47.5°	4643.9	6173.6	7014.0	6017.0	4633.9	4164.8	5171.9	5197.5
4036.9	50°	5375.8	7540.4	8479.3	7065.9	5193.6	4779.6	6085.2	6055.7
4495.1	52.5°	6072.8	8946.0	9913.5	8119.5	5685.2	5542.5	7145.0	7084.5
5121.5	55°	6738.0	10350.8	11356.3	9132.1	6148.8	6550.4	8404.1	8038.1
6024.7	57.5°	7509.4	11613.7	12843.3	10149.2	6796.9	7859.0	9812.0	8591.7
7754.4	60°	8649.8	13048.8	14524.9	11543.2	8029.6	9234.4	10316.7	8486.2
9825.9	62.5°	10105.8	14368.3	15747.5	12909.2	9267.7	9493.3	9573.2	7673.8
9403.4	65°	10388.8	14702.5	15816.5	13274.4	9108.0	8052.9	7815.6	6168.2
8399.4	67.5°	9638.3	14098.5	14852.1	12594.5	8056.7	6223.2	5865.0	4474.9
7740.4	70°	8796.4	12947.2	13171.3	11438.5	7086.1	4577.3	3960.9	2871.6
7289.2	72.5°	7933.5	11411.4	10947.8	9933.7	6227.8	3332.9	2856.9	2041.3
6646.5	75°	6908.5	9391.8	8623.5	8253.7	5156.4	2615.8	2066.9	1408.7
5716.9	77.5°	5532.4	6610.8	6405.4	6397.6	3874.9	1911.1	1379.2	883.0
4466.4	80°	3902.8	4290.4	4185.8	4818.4	2599.5	1386.2	830.3	491.5
3108.9	82.5°	1889.4	2372.4	2435.2	2869.3	1264.5	815.6	191.5	107.0
1215.6	85°	739.6	1144.3	965.2	1089.3	355.1	227.2	4.7	0.0
200.0	87.5°	83.0	132.6	121.7	96.1	43.4	9.3	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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