

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: P947653

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947653
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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: B2 - U0 - G3

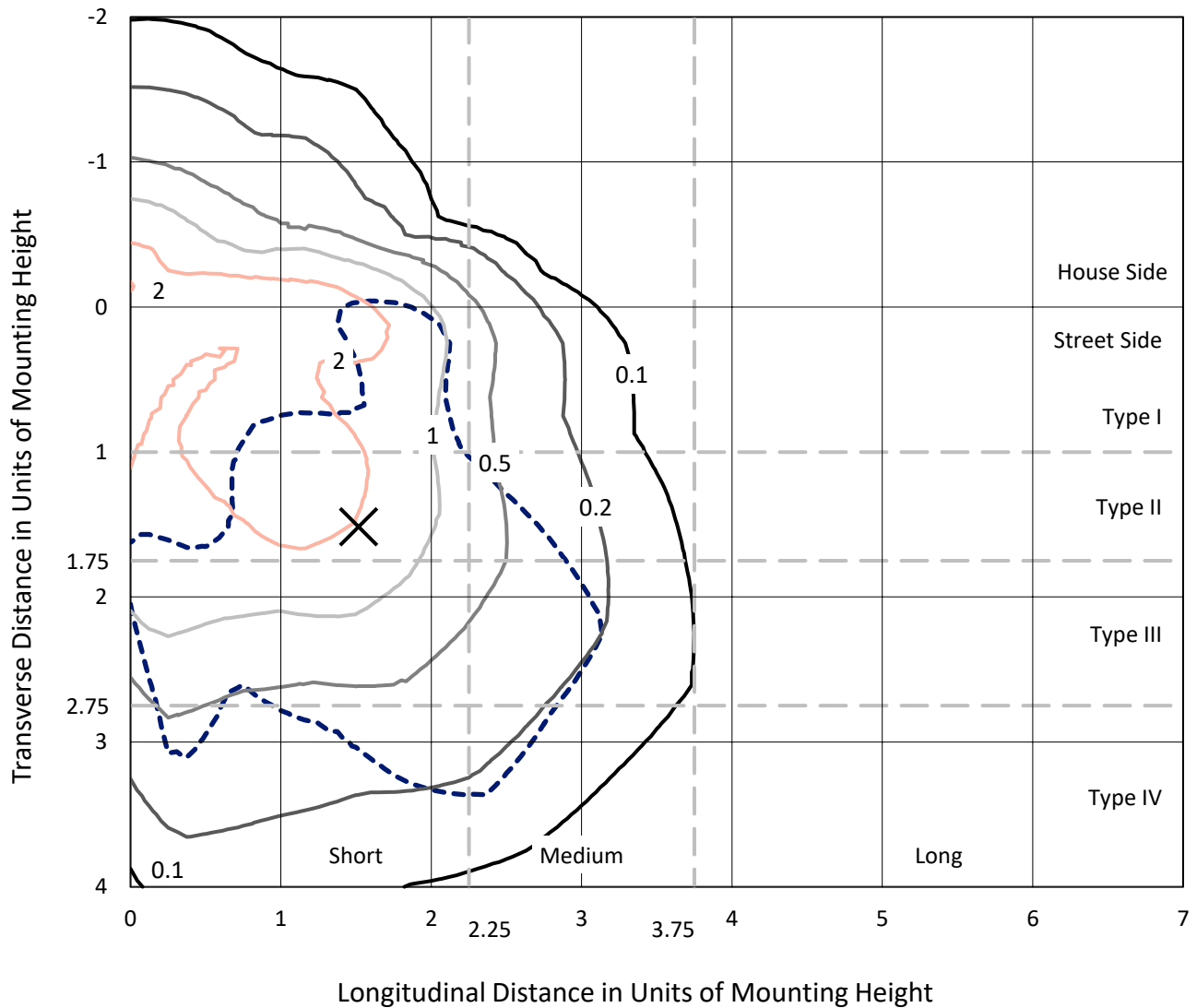
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

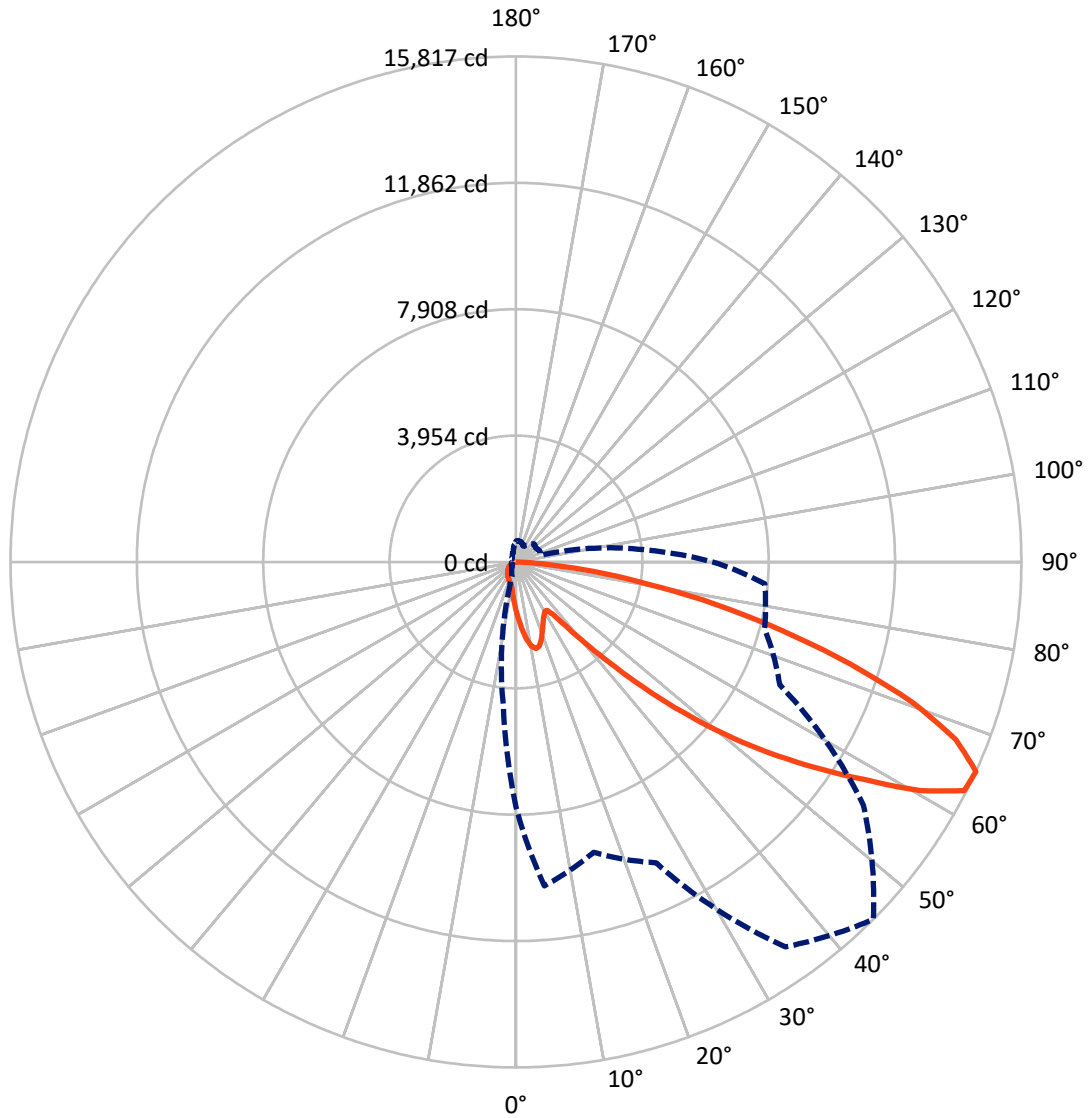
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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
House Side	Lumens	2236.9	0.0	2236.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9017.0	0.0	9017.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	11254.0	0.0	11254.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

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



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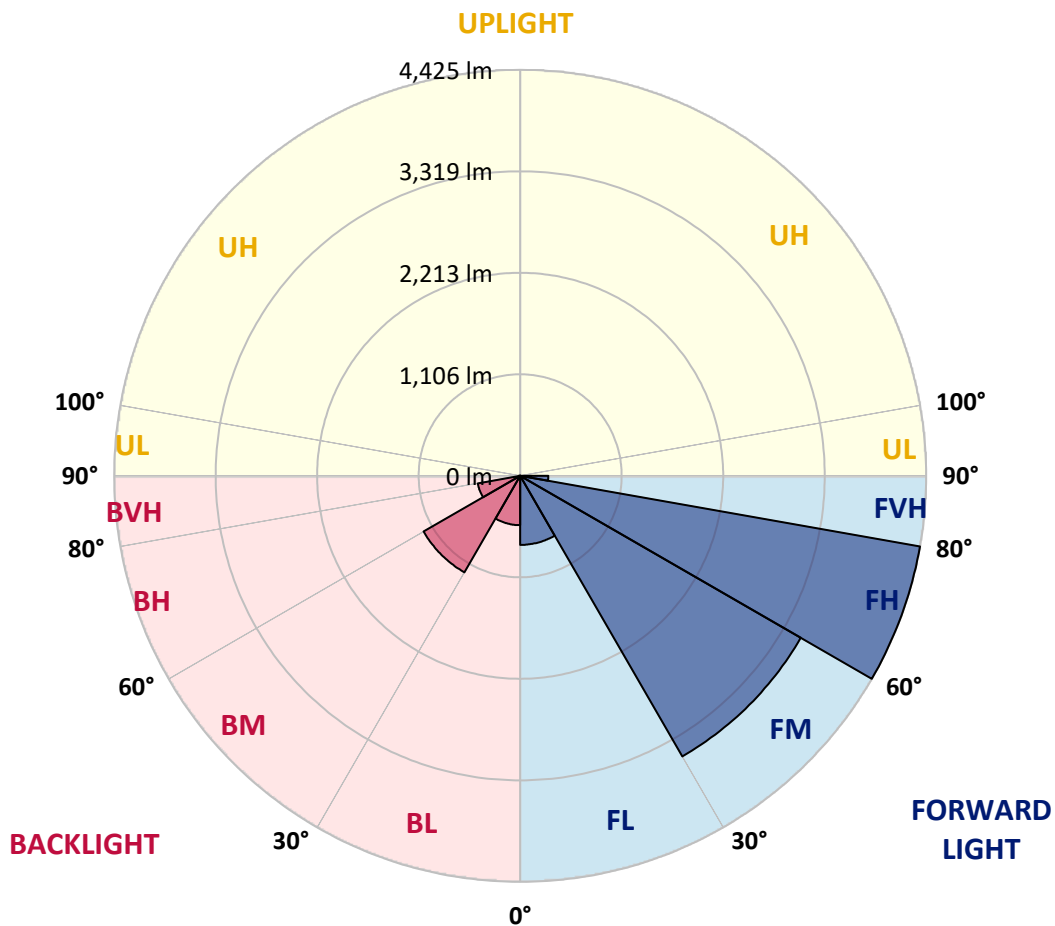
CATALOG NUMBER: GALN-SB2D-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.0	6.7			
FM (30°-60°)	3531.6	31.4			
FH (60°-80°)	4425.4	39.3			G2/5000
FVH (80°-90°)	307.0	2.7			G3/500
BL (0°-30°)	537.9	4.8	B2/1000		
BM (30°-60°)	1215.3	10.8	B2/2500		
BH (60°-80°)	468.7	4.2	B1/500		G1/500
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	1745.9	1759.1	1788.6	1804.1	1828.1	1829.7	1829.7	1808.7	1808.0	1765.3
5°	1951.4	1982.4	2052.2	2124.3	2139.8	2143.7	2135.9	2094.0	2063.0	1980.1
7.5°	2155.3	2215.0	2321.2	2417.3	2448.3	2448.3	2429.7	2361.5	2297.9	2177.8
10°	2324.3	2399.5	2543.7	2651.5	2687.1	2679.4	2641.4	2555.3	2467.7	2322.0
12.5°	2435.9	2520.4	2678.6	2765.4	2801.9	2781.7	2738.3	2654.6	2562.3	2408.8
15°	2491.8	2580.1	2717.4	2763.1	2753.0	2732.1	2726.7	2686.4	2616.6	2473.2
17.5°	2515.8	2598.0	2693.3	2664.6	2579.4	2563.1	2617.4	2668.5	2651.5	2529.0
20°	2538.3	2607.3	2636.0	2508.8	2360.0	2345.2	2449.1	2594.9	2669.3	2580.9
22.5°	2569.3	2611.9	2553.0	2344.5	2184.0	2149.9	2264.6	2484.0	2674.7	2646.8
25°	2611.9	2623.6	2461.5	2188.6	2027.4	1993.3	2100.2	2360.7	2665.4	2718.1
27.5°	2663.1	2639.1	2373.9	2058.4	1902.5	1870.8	1977.7	2242.1	2639.1	2789.5
30°	2729.8	2659.2	2287.1	1957.6	1813.4	1790.1	1893.2	2139.8	2606.5	2880.2
32.5°	2797.2	2667.7	2206.5	1898.7	1793.2	1801.8	1886.3	2084.7	2570.8	2967.0
35°	2870.1	2694.9	2166.9	1956.8	1961.5	2035.9	2070.8	2135.9	2565.4	3084.9
37.5°	2969.3	2755.4	2214.2	2246.0	2407.3	2561.5	2532.8	2386.3	2628.2	3260.8
40°	3112.0	2861.6	2420.4	2738.3	3069.3	3319.8	3210.4	2841.4	2820.5	3514.4
42.5°	3319.8	3030.6	2786.4	3339.9	3901.2	4313.7	4020.6	3428.3	3157.0	3876.4
45°	3626.8	3304.3	3229.1	3974.9	4926.9	5576.6	4967.2	4054.0	3628.3	4424.5
47.5°	4052.4	3706.6	3643.8	4643.9	6173.6	7014.0	6017.0	4633.9	4164.8	5171.9
50°	4617.6	4248.6	4036.9	5375.8	7540.4	8479.3	7065.9	5193.6	4779.6	6085.2
52.5°	5363.4	5004.5	4495.1	6072.8	8946.0	9913.5	8119.5	5685.2	5542.5	7145.0
55°	6380.6	6141.8	5121.5	6738.0	10350.8	11356.3	9132.1	6148.8	6550.4	8404.1
57.5°	7642.7	7813.3	6024.7	7509.4	11613.7	12843.3	10149.2	6796.9	7859.0	9812.0
60°	8456.8	10036.0	7754.4	8649.8	13048.8	14524.9	11543.2	8029.6	9234.4	10316.7
62.5°	8259.9	10743.1	9825.9	10105.8	14368.3	15747.5	12909.2	9267.7	9493.3	9573.2
65°	7655.9	10172.5	9403.4	10388.8	14702.5	15816.5	13274.4	9108.0	8052.9	7815.6
67.5°	6824.8	9495.7	8399.4	9638.3	14098.5	14852.1	12594.5	8056.7	6223.2	5865.0
70°	5927.8	8746.7	7740.4	8796.4	12947.2	13171.3	11438.5	7086.1	4577.3	3960.9
72.5°	5076.6	7966.8	7289.2	7933.5	11411.4	10947.8	9933.7	6227.8	3332.9	2856.9
75°	4205.9	6816.3	6646.5	6908.5	9391.8	8623.5	8253.7	5156.4	2615.8	2066.9
77.5°	3245.3	5326.2	5716.9	5532.4	6610.8	6405.4	6397.6	3874.9	1911.1	1379.2
80°	2221.2	3712.1	4466.4	3902.8	4290.4	4185.8	4818.4	2599.5	1386.2	830.3
82.5°	1305.6	2260.0	3108.9	1889.4	2372.4	2435.2	2869.3	1264.5	815.6	191.5
85°	529.5	892.4	1215.6	739.6	1144.3	965.2	1089.3	355.1	227.2	4.7
87.5°	133.3	285.3	200.0	83.0	132.6	121.7	96.1	43.4	9.3	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):

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
1760.7	2.5°	1730.4	1712.6	1668.4	1624.2	1588.6	1540.5	1508.7	1470.7	1434.3	1401.7
1962.2	5°	1913.4	1854.5	1773.8	1700.2	1625.0	1552.1	1480.0	1404.0	1334.3	1291.6
2132.8	7.5°	2062.3	1958.4	1851.4	1757.6	1666.9	1581.6	1486.2	1394.0	1284.6	1226.5
2263.1	10°	2173.1	2036.7	1896.3	1788.6	1697.1	1614.1	1533.5	1440.5	1308.7	1235.8
2342.1	12.5°	2246.0	2084.0	1919.6	1796.3	1694.0	1629.6	1594.0	1557.5	1426.5	1341.2
2400.3	15°	2296.4	2117.3	1935.9	1778.5	1652.9	1605.6	1641.3	1683.1	1599.4	1500.9
2460.7	17.5°	2351.4	2160.7	1942.9	1730.4	1573.0	1552.9	1645.2	1742.1	1738.2	1640.5
2518.1	20°	2409.6	2198.7	1938.2	1652.9	1476.1	1494.0	1611.8	1724.2	1771.5	1718.8
2584.0	22.5°	2469.3	2235.1	1920.4	1552.1	1385.4	1441.3	1559.1	1657.6	1713.4	1697.1
2664.6	25°	2544.5	2286.3	1894.0	1443.6	1310.2	1387.8	1497.8	1577.7	1616.5	1615.7
2751.5	27.5°	2634.4	2354.5	1880.1	1356.0	1256.7	1327.3	1425.0	1496.3	1523.4	1523.4
2859.2	30°	2739.1	2435.2	1864.6	1298.6	1225.7	1264.5	1340.5	1410.2	1437.4	1437.4
2977.1	32.5°	2855.4	2512.7	1827.3	1263.7	1202.5	1203.2	1251.3	1314.9	1347.4	1352.1
3124.4	35°	2994.9	2595.6	1745.9	1235.8	1175.3	1143.5	1166.8	1219.5	1258.3	1268.4
3334.5	37.5°	3177.9	2697.2	1629.6	1194.7	1133.5	1080.7	1086.2	1126.5	1169.1	1184.6
3624.4	40°	3423.6	2816.6	1508.7	1135.8	1074.5	1011.7	1009.4	1038.9	1080.7	1097.8
4016.7	42.5°	3748.5	2960.0	1393.2	1079.2	1003.2	938.9	935.0	958.2	994.7	1012.5
4534.6	45°	4164.0	3136.0	1293.9	1035.0	933.4	869.9	868.3	887.7	919.5	938.1
5197.5	47.5°	4741.6	3312.0	1226.5	1011.7	878.4	813.3	816.4	833.4	862.1	875.3
6055.7	50°	5494.4	3365.5	1192.4	1011.7	848.9	762.9	778.4	792.3	814.0	821.8
7084.5	52.5°	6217.0	3188.7	1161.4	1017.9	852.8	720.2	753.6	763.7	782.3	785.4
8038.1	55°	6571.3	2741.4	1118.7	1019.5	876.8	683.8	733.4	752.0	759.0	758.2
8591.7	57.5°	6449.6	2216.5	1046.6	1013.3	893.1	660.5	708.6	744.3	748.9	741.9
8486.2	60°	6022.4	1632.0	991.6	967.6	886.9	653.6	670.6	727.2	734.2	724.9
7673.8	62.5°	5306.0	1132.7	948.9	866.8	859.8	651.2	610.9	690.0	707.1	693.9
6168.2	65°	4177.2	800.1	817.1	759.8	800.9	638.8	548.9	645.0	668.3	648.1
4474.9	67.5°	2826.7	577.6	662.1	688.5	705.5	610.9	503.9	593.9	624.9	598.5
2871.6	70°	1526.5	405.5	437.3	579.9	599.3	562.9	463.6	541.9	577.6	548.9
2041.3	72.5°	901.7	291.5	306.2	465.9	499.3	495.4	418.7	481.5	524.9	490.8
1408.7	75°	497.0	196.9	218.6	338.0	405.5	382.2	359.7	407.8	452.0	418.7
883.0	77.5°	222.5	117.8	152.0	221.7	318.6	262.0	278.3	317.9	359.0	324.1
491.5	80°	86.1	65.9	100.8	120.9	231.8	145.0	179.1	234.1	263.6	235.7
107.0	82.5°	10.9	29.5	43.4	47.3	134.9	76.8	103.9	147.3	145.0	125.6
0.0	85°	0.0	5.4	6.2	3.1	58.1	27.9	34.1	48.1	45.0	34.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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
1395.5	2.5°	1357.5	1329.6	1315.7	1304.0	1314.9	1321.1	1321.1	1347.4	1362.9	1369.1
1264.5	5°	1196.3	1144.3	1109.4	1088.5	1095.5	1103.2	1111.8	1145.1	1167.6	1182.3
1173.8	7.5°	1069.1	990.0	941.2	915.6	919.5	924.9	931.9	964.5	986.9	1006.3
1156.7	10°	1006.3	894.7	830.3	799.3	793.9	790.8	788.5	807.8	824.9	840.4
1226.5	12.5°	1009.4	853.6	775.3	737.3	721.0	702.4	687.7	690.8	701.6	721.0
1351.3	15°	1049.0	840.4	746.6	699.3	672.2	650.5	632.6	628.8	632.6	635.7
1494.0	17.5°	1102.5	838.9	721.8	662.9	635.0	617.1	600.8	595.4	596.2	600.1
1588.6	20°	1145.1	834.2	693.9	628.0	603.2	587.7	571.4	566.0	567.5	568.3
1597.9	22.5°	1167.6	827.2	662.9	593.1	572.2	556.7	541.9	541.1	541.1	545.8
1547.5	25°	1167.6	812.5	635.0	559.8	541.1	527.2	509.4	512.5	514.0	520.2
1469.2	27.5°	1139.7	784.6	612.5	531.1	511.7	497.7	481.5	485.3	487.7	494.6
1391.6	30°	1104.0	751.2	586.9	503.9	481.5	471.4	457.4	459.0	462.1	469.8
1319.5	32.5°	1066.0	711.7	566.0	476.8	454.3	446.6	431.1	433.4	436.5	445.0
1248.2	35°	1024.1	665.2	541.1	452.0	429.5	423.3	405.5	407.0	411.7	421.0
1171.5	37.5°	980.0	627.2	516.3	428.0	404.7	398.5	379.9	381.4	386.9	397.7
1090.8	40°	936.5	590.0	490.0	402.4	379.1	373.7	353.5	355.1	361.3	372.9
1009.4	42.5°	889.2	561.3	455.9	376.0	351.2	345.8	327.2	329.5	336.5	348.1
934.2	45°	832.7	542.7	417.9	351.2	323.3	317.9	300.8	305.5	313.2	324.8
869.9	47.5°	774.5	534.9	386.1	324.8	294.6	290.0	276.0	283.8	292.3	301.6
814.8	50°	718.7	524.9	353.5	300.0	269.8	265.1	255.8	265.9	274.5	283.0
775.3	52.5°	655.1	503.2	324.1	278.3	248.9	247.3	242.7	252.0	259.7	267.5
741.2	55°	589.2	468.3	298.5	258.9	231.0	232.6	230.3	238.0	244.2	251.2
710.2	57.5°	531.8	424.1	278.3	238.0	215.5	220.2	217.1	221.0	224.8	233.4
672.9	60°	473.7	371.4	255.8	213.2	200.0	205.5	196.9	196.1	197.7	200.0
617.9	62.5°	395.4	316.3	227.9	191.5	183.0	185.3	169.0	156.6	156.6	158.9
541.1	65°	317.9	265.1	196.9	166.7	159.7	158.2	134.9	117.8	116.3	123.3
452.0	67.5°	261.3	220.2	165.9	138.8	134.1	135.7	118.6	101.6	100.0	107.8
368.3	70°	216.3	177.5	132.6	107.0	111.6	118.6	101.6	85.3	83.0	89.9
299.3	72.5°	172.1	138.8	101.6	79.1	92.3	100.8	83.0	67.4	65.9	72.1
231.0	75°	126.4	99.2	69.0	57.4	71.3	79.1	60.5	48.1	45.7	51.2
154.3	77.5°	78.3	55.8	43.4	34.1	48.8	52.7	31.8	27.9	27.1	31.0
93.8	80°	36.4	24.0	20.9	11.6	17.8	20.9	13.2	14.7	15.5	18.6
47.3	82.5°	10.1	3.9	0.8	0.0	0.0	6.2	3.1	6.2	7.8	11.6
3.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9	7.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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
1412.6	2.5°	1445.1	1476.1	1525.8	1576.9	1627.3	1678.5	1728.1	1745.9
1249.8	5°	1311.0	1382.3	1480.8	1586.2	1694.8	1804.9	1905.6	1951.4
1081.5	7.5°	1161.4	1263.7	1411.8	1576.9	1749.8	1922.7	2081.6	2155.3
914.8	10°	1001.7	1131.1	1300.1	1523.4	1771.5	2010.3	2228.9	2324.3
768.3	12.5°	849.7	985.4	1172.2	1439.7	1754.5	2060.7	2323.5	2435.9
665.2	15°	722.6	842.7	1044.3	1340.5	1699.4	2063.8	2368.5	2491.8
607.8	17.5°	627.2	705.5	914.1	1230.4	1627.3	2035.1	2384.0	2515.8
576.8	20°	579.9	601.6	745.0	1089.3	1559.9	2008.0	2399.5	2538.3
552.0	22.5°	552.0	557.4	609.4	907.1	1479.2	1999.5	2426.6	2569.3
529.5	25°	529.5	531.1	545.0	718.7	1356.0	1994.0	2468.5	2611.9
506.3	27.5°	507.0	507.0	514.8	579.1	1188.5	1970.8	2522.8	2663.1
483.0	30°	484.6	484.6	490.0	512.5	992.4	1925.0	2587.9	2729.8
459.7	32.5°	461.3	461.3	465.9	482.2	792.3	1867.7	2647.6	2797.2
435.7	35°	438.0	436.5	442.7	459.7	630.3	1794.8	2707.3	2870.1
411.7	37.5°	413.2	412.5	418.7	438.0	544.2	1710.3	2752.3	2969.3
387.6	40°	386.9	386.9	393.8	414.8	519.4	1604.1	2823.6	3112.0
362.8	42.5°	362.8	361.3	369.0	394.6	500.8	1502.5	2951.5	3319.8
340.3	45°	339.6	336.5	343.5	375.2	468.3	1466.8	3190.3	3626.8
318.6	47.5°	317.9	310.1	316.3	352.0	438.8	1600.2	3581.0	4052.4
299.3	50°	300.0	285.3	290.7	328.7	416.3	1889.4	4088.1	4617.6
281.4	52.5°	281.4	262.0	265.1	300.0	396.2	2164.6	4637.7	5363.4
263.6	55°	262.0	240.3	241.9	271.3	367.5	2205.7	5174.2	6380.6
243.4	57.5°	240.3	220.2	220.2	245.0	346.6	1911.8	5586.7	7642.7
218.6	60°	216.3	203.1	199.2	224.1	365.2	1349.0	5634.8	8456.8
186.8	62.5°	189.9	183.0	177.5	203.9	379.1	799.3	5247.9	8259.9
147.3	65°	159.7	158.2	154.3	224.1	319.4	472.1	4505.2	7655.9
125.6	67.5°	134.1	131.8	131.8	234.9	242.7	296.9	3519.8	6824.8
107.0	70°	115.5	107.0	107.0	177.5	147.3	205.5	2457.6	5927.8
88.4	72.5°	96.9	87.6	81.4	141.9	110.1	150.4	1535.8	5076.6
67.4	75°	77.5	70.6	62.8	93.8	82.2	114.0	892.4	4205.9
42.6	77.5°	55.8	52.7	44.2	69.0	59.7	82.2	531.1	3245.3
26.4	80°	28.7	29.5	27.9	39.5	40.3	55.8	302.4	2221.2
17.1	82.5°	17.1	13.2	14.7	19.4	23.3	31.8	114.0	1305.6
12.4	85°	10.9	7.0	7.0	9.3	11.6	12.4	34.9	529.5
6.2	87.5°	5.4	2.3	3.1	4.7	3.9	3.1	1.6	133.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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