

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: P945996

Luminaire Tested: **GALN-SB1D-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945996
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-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8219 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

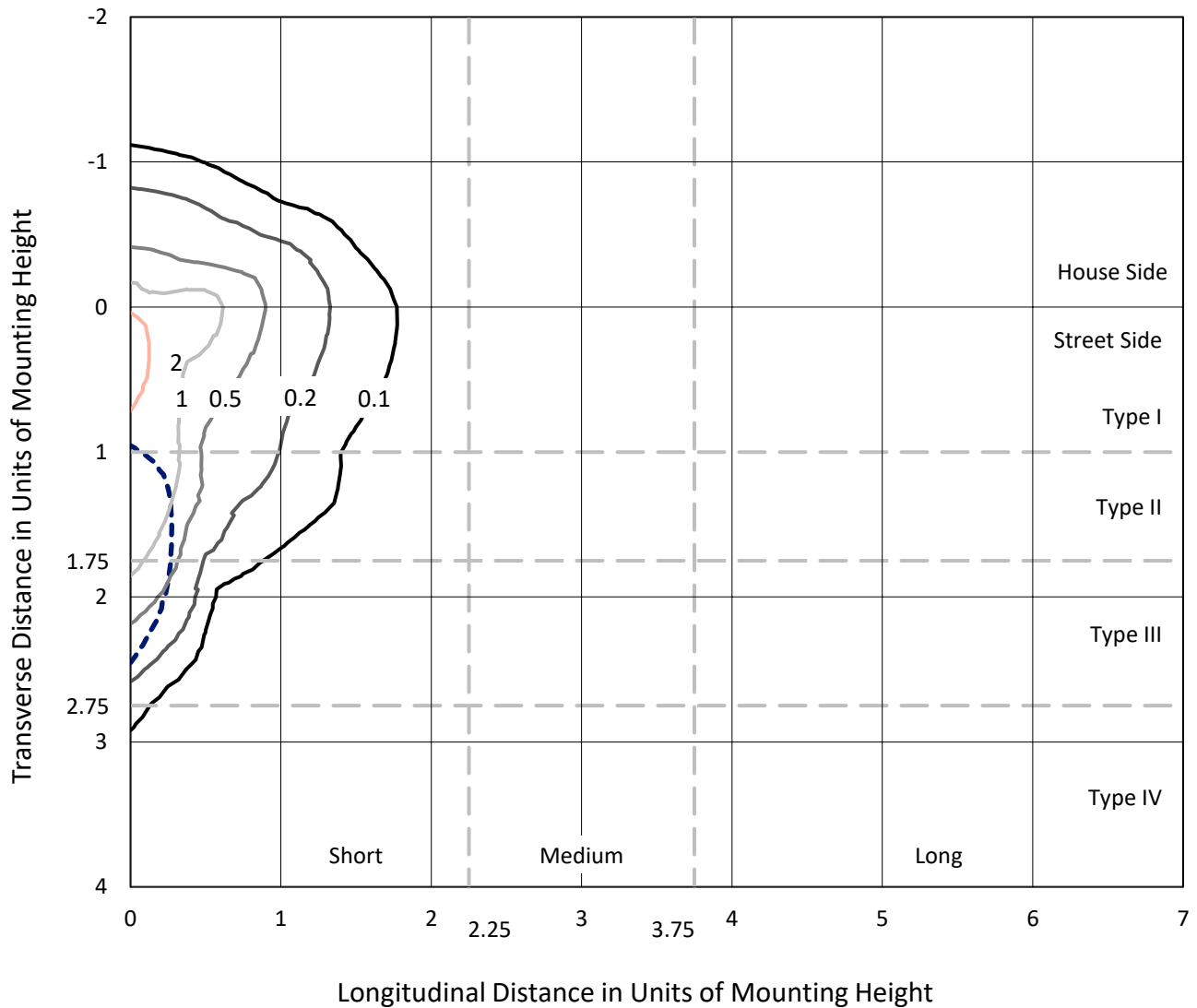
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

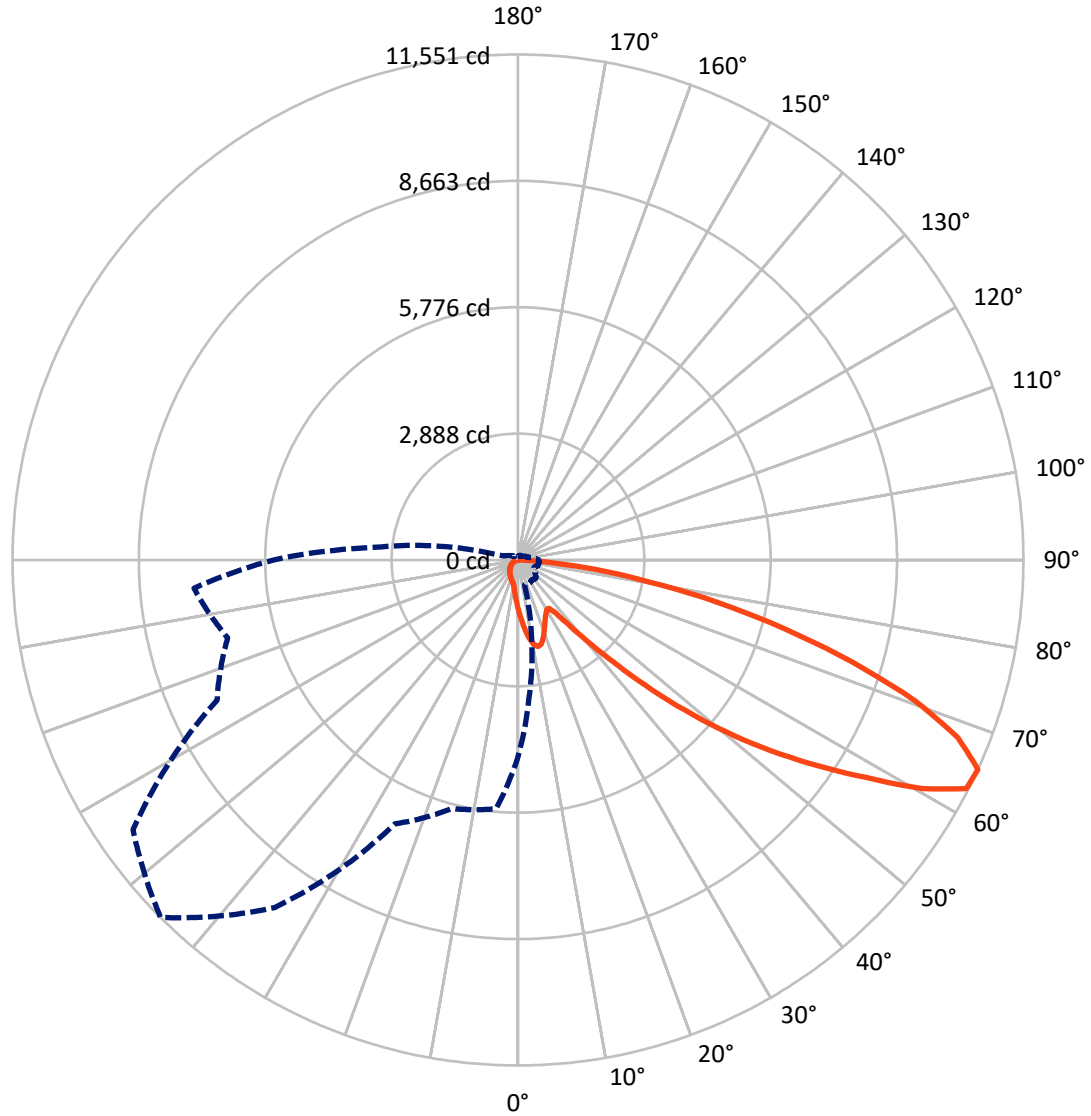
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.0	0.0	1151.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7068.0	0.0	7068.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	8219.0	0.0	8219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.4
10°-20°	335.9	4.1
20°-30°	494.8	6.0
30°-40°	635.7	7.7
40°-50°	1028.1	12.5
50°-60°	1802.9	21.9
60°-70°	2256.0	27.4
70°-80°	1318.3	16.0
80°-90°	235.2	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°	8219.0	100.0
0°-180°	8219.0	100.0

Coefficient of Utilization



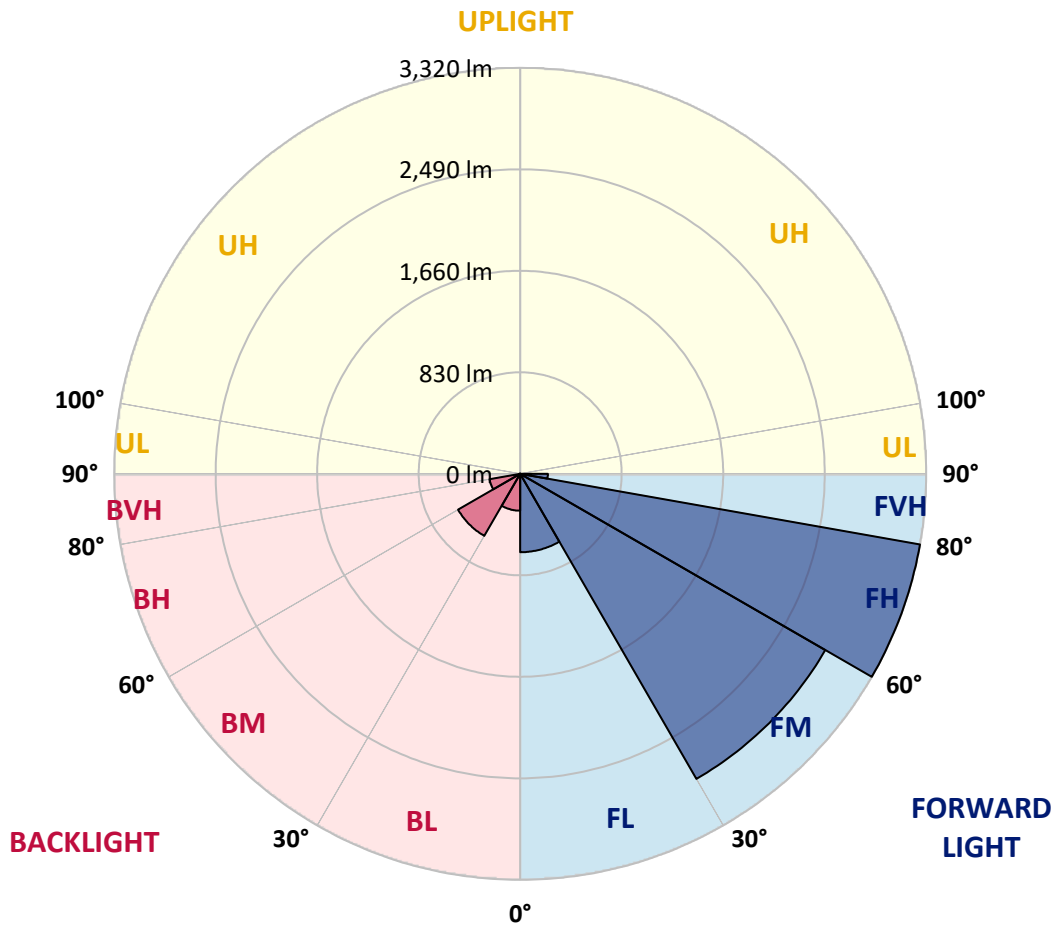
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.1	7.8			
FM (30°-60°)	2880.7	35.0			
FH (60°-80°)	3320.1	40.4			G2/5000
FVH (80°-90°)	226.2	2.8			G3/500
BL (0°-30°)	301.7	3.7	B1/500		
BM (30°-60°)	586.1	7.1	B1/1000		
BH (60°-80°)	254.2	3.1	B1/500		G1/500
BVH (80°-90°)	9.0	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°	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1
2.5°	1285.8	1263.8	1250.7	1218.5	1186.2	1160.2	1125.0	1101.8	1074.1	1047.5
5°	1433.1	1397.4	1354.4	1295.5	1241.7	1186.8	1133.5	1080.9	1025.4	974.4
7.5°	1557.6	1506.1	1430.2	1352.1	1283.6	1217.3	1155.1	1085.4	1018.0	938.2
10°	1652.7	1587.1	1487.4	1384.9	1306.2	1239.4	1178.8	1120.0	1052.0	955.8
12.5°	1710.5	1640.3	1522.0	1401.9	1311.9	1237.2	1190.2	1164.1	1137.5	1041.8
15°	1753.0	1677.1	1546.3	1413.8	1298.9	1207.1	1172.6	1198.7	1229.2	1168.1
17.5°	1797.1	1717.3	1578.0	1418.9	1263.8	1148.8	1134.1	1201.5	1272.3	1269.4
20°	1839.0	1759.8	1605.8	1415.5	1207.1	1078.1	1091.1	1177.1	1259.2	1293.8
22.5°	1887.2	1803.4	1632.4	1402.5	1133.5	1011.8	1052.6	1138.6	1210.5	1251.3
25°	1946.0	1858.3	1669.7	1383.2	1054.3	956.9	1013.5	1093.9	1152.2	1180.5
27.5°	2009.5	1924.0	1719.6	1373.0	990.3	917.8	969.3	1040.7	1092.8	1112.6
30°	2088.2	2000.4	1778.4	1361.7	948.4	895.2	923.5	979.0	1029.9	1049.7
32.5°	2174.2	2085.3	1835.1	1334.5	922.9	878.2	878.7	913.9	960.3	984.1
35°	2281.8	2187.2	1895.6	1275.1	902.5	858.4	835.1	852.1	890.6	918.9
37.5°	2435.2	2320.9	1969.8	1190.2	872.5	827.8	789.3	793.3	822.7	853.8
40°	2647.0	2500.4	2057.0	1101.8	829.5	784.8	738.9	737.2	758.7	789.3
42.5°	2933.5	2737.6	2161.8	1017.5	788.2	732.7	685.7	682.8	699.8	726.4
45°	3311.7	3041.1	2290.3	945.0	755.9	681.7	635.3	634.1	648.3	671.5
47.5°	3795.8	3462.9	2418.8	895.7	738.9	641.5	593.9	596.2	608.7	629.6
50°	4422.6	4012.7	2457.9	870.8	738.9	620.0	557.1	568.5	578.7	594.5
52.5°	5174.0	4540.4	2328.8	848.2	743.4	622.8	526.0	550.3	557.7	571.3
55°	5870.4	4799.1	2002.1	817.0	744.6	640.4	499.4	535.6	549.2	554.3
57.5°	6274.7	4710.2	1618.8	764.4	740.0	652.3	482.4	517.5	543.6	547.0
60°	6197.7	4398.3	1191.9	724.2	706.6	647.7	477.3	489.8	531.1	536.2
62.5°	5604.3	3875.1	827.2	693.0	633.0	627.9	475.6	446.2	503.9	516.4
65°	4504.7	3050.7	584.3	596.8	554.9	584.9	466.6	400.9	471.1	488.1
67.5°	3268.1	2064.4	421.8	483.5	502.8	515.2	446.2	368.0	433.7	456.4
70°	2097.2	1114.9	296.1	319.3	423.5	437.7	411.1	338.6	395.8	421.8
72.5°	1490.8	658.5	212.9	223.7	340.3	364.6	361.8	305.7	351.6	383.3
75°	1028.8	362.9	143.8	159.7	246.9	296.1	279.1	262.7	297.8	330.1
77.5°	644.9	162.5	86.1	111.0	161.9	232.7	191.4	203.3	232.1	262.2
80°	359.0	62.8	48.1	73.6	88.3	169.3	105.9	130.8	171.0	192.5
82.5°	78.1	7.9	21.5	31.7	34.5	98.5	56.1	75.9	107.6	105.9
85°	0.0	0.0	4.0	4.5	2.3	42.5	20.4	24.9	35.1	32.8
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°
1138.1	0°	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1
1023.7	2.5°	1019.2	991.4	971.0	960.8	952.4	960.3	964.8	964.8	984.1	995.4
943.3	5°	923.5	873.7	835.7	810.2	794.9	800.0	805.7	811.9	836.3	852.7
895.7	7.5°	857.2	780.8	723.0	687.4	668.7	671.5	675.5	680.6	704.4	720.8
902.5	10°	844.8	734.9	653.4	606.4	583.8	579.8	577.5	575.8	590.0	602.4
979.5	12.5°	895.7	737.2	623.4	566.2	538.5	526.6	513.0	502.2	504.5	512.4
1096.2	15°	986.9	766.1	613.8	545.3	510.7	490.9	475.0	462.0	459.2	462.0
1198.1	17.5°	1091.1	805.1	612.6	527.1	484.1	463.7	450.7	438.8	434.8	435.4
1255.3	20°	1160.2	836.3	609.2	506.8	458.6	440.5	429.2	417.3	413.3	414.5
1239.4	22.5°	1166.9	852.7	604.1	484.1	433.1	417.9	406.5	395.8	395.2	395.2
1180.0	25°	1130.1	852.7	593.4	463.7	408.8	395.2	385.0	372.0	374.3	375.4
1112.6	27.5°	1073.0	832.3	573.0	447.3	387.8	373.7	363.5	351.6	354.4	356.1
1049.7	30°	1016.3	806.3	548.7	428.6	368.0	351.6	344.3	334.1	335.2	337.5
987.5	32.5°	963.7	778.5	519.8	413.3	348.2	331.8	326.1	314.8	316.5	318.8
926.3	35°	911.6	748.0	485.8	395.2	330.1	313.7	309.1	296.1	297.3	300.7
865.2	37.5°	855.5	715.7	458.1	377.1	312.5	295.6	291.0	277.4	278.6	282.5
801.7	40°	796.6	684.0	430.9	357.8	293.9	276.9	272.9	258.2	259.3	263.9
739.5	42.5°	737.2	649.4	409.9	332.9	274.6	256.5	252.5	238.9	240.6	245.7
685.1	45°	682.3	608.1	396.3	305.2	256.5	236.1	232.1	219.7	223.1	228.7
639.2	47.5°	635.3	565.6	390.7	282.0	237.2	215.2	211.8	201.6	207.2	213.5
600.2	50°	595.1	524.9	383.3	258.2	219.1	197.0	193.6	186.8	194.2	200.4
573.6	52.5°	566.2	478.4	367.5	236.7	203.3	181.8	180.6	177.2	184.0	189.7
553.7	55°	541.3	430.3	342.0	218.0	189.1	168.7	169.9	168.2	173.8	178.4
541.9	57.5°	518.6	388.4	309.7	203.3	173.8	157.4	160.8	158.5	161.4	164.2
529.4	60°	491.5	346.0	271.2	186.8	155.7	146.1	150.0	143.8	143.2	144.4
506.8	62.5°	451.3	288.8	231.0	166.5	139.9	133.6	135.3	123.4	114.4	114.4
473.3	65°	395.2	232.1	193.6	143.8	121.7	116.6	115.5	98.5	86.1	84.9
437.1	67.5°	330.1	190.8	160.8	121.2	101.4	98.0	99.1	86.6	74.2	73.0
400.9	70°	268.9	158.0	129.7	96.8	78.1	81.5	86.6	74.2	62.3	60.6
358.4	72.5°	218.6	125.7	101.4	74.2	57.8	67.4	73.6	60.6	49.3	48.1
305.7	75°	168.7	92.3	72.5	50.4	41.9	52.1	57.8	44.2	35.1	33.4
236.7	77.5°	112.7	57.2	40.8	31.7	24.9	35.7	38.5	23.2	20.4	19.8
172.1	80°	68.5	26.6	17.6	15.3	8.5	13.0	15.3	9.6	10.8	11.3
91.7	82.5°	34.5	7.4	2.8	0.6	0.0	0.0	4.5	2.3	4.5	5.7
24.9	85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.8
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°
1138.1	0°	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1
999.9	2.5°	1031.6	1055.4	1078.1	1114.3	1151.7	1188.5	1225.8	1262.1	1275.1	1284.7
863.5	5°	912.7	957.4	1009.5	1081.4	1158.5	1237.7	1318.1	1391.7	1425.1	1447.8
734.9	7.5°	789.9	848.2	922.9	1031.1	1151.7	1277.9	1404.2	1520.3	1574.0	1617.6
613.8	10°	668.1	731.5	826.1	949.5	1112.6	1293.8	1468.2	1627.8	1697.5	1752.4
526.6	12.5°	561.1	620.6	719.6	856.1	1051.4	1281.3	1505.0	1696.9	1779.0	1840.7
464.3	15°	485.8	527.7	615.5	762.7	979.0	1241.1	1507.2	1729.8	1819.8	1884.3
438.2	17.5°	443.9	458.1	515.2	667.6	898.6	1188.5	1486.3	1741.1	1837.3	1897.3
415.0	20°	421.3	423.5	439.4	544.1	795.5	1139.2	1466.5	1752.4	1853.7	1904.1
398.6	22.5°	403.1	403.1	407.1	445.0	662.5	1080.3	1460.2	1772.2	1876.4	1907.5
379.9	25°	386.7	386.7	387.8	398.0	524.9	990.3	1456.3	1802.8	1907.5	1916.0
361.2	27.5°	369.7	370.3	370.3	376.0	423.0	868.0	1439.3	1842.4	1944.9	1927.4
343.1	30°	352.7	353.9	353.9	357.8	374.3	724.7	1405.9	1890.0	1993.6	1942.1
325.0	32.5°	335.8	336.9	336.9	340.3	352.2	578.7	1364.0	1933.6	2042.9	1948.3
307.4	35°	318.2	319.9	318.8	323.3	335.8	460.3	1310.8	1977.2	2096.1	1968.1
290.5	37.5°	300.7	301.8	301.2	305.7	319.9	397.5	1249.0	2010.0	2168.6	2012.3
272.3	40°	283.1	282.5	282.5	287.6	302.9	379.4	1171.5	2062.1	2272.7	2089.9
254.2	42.5°	265.0	265.0	263.9	269.5	288.2	365.8	1097.3	2155.5	2424.5	2213.3
237.2	45°	248.6	248.0	245.7	250.8	274.0	342.0	1071.3	2329.9	2648.7	2413.2
220.3	47.5°	232.7	232.1	226.5	231.0	257.1	320.5	1168.6	2615.3	2959.5	2707.0
206.7	50°	218.6	219.1	208.4	212.3	240.1	304.1	1379.8	2985.6	3372.3	3102.8
195.3	52.5°	205.5	205.5	191.4	193.6	219.1	289.3	1580.8	3387.0	3917.0	3654.8
183.4	55°	192.5	191.4	175.5	176.7	198.2	268.4	1610.8	3778.8	4659.9	4485.5
170.4	57.5°	177.8	175.5	160.8	160.8	178.9	253.1	1396.3	4080.1	5581.6	5706.2
146.1	60°	159.7	158.0	148.3	145.5	163.6	266.7	985.2	4115.2	6176.1	7329.5
116.1	62.5°	136.5	138.7	133.6	129.7	148.9	276.9	583.8	3832.6	6032.3	7845.9
90.0	65°	107.6	116.6	115.5	112.7	163.6	233.3	344.8	3290.2	5591.3	7429.2
78.7	67.5°	91.7	98.0	96.3	96.3	171.6	177.2	216.9	2570.6	4984.3	6934.9
65.7	70°	78.1	84.4	78.1	78.1	129.7	107.6	150.0	1794.9	4329.2	6387.9
52.7	72.5°	64.5	70.8	64.0	59.5	103.6	80.4	109.8	1121.6	3707.5	5818.3
37.4	75°	49.3	56.6	51.5	45.9	68.5	60.0	83.2	651.7	3071.7	4978.1
22.6	77.5°	31.1	40.8	38.5	32.3	50.4	43.6	60.0	387.8	2370.1	3889.8
13.6	80°	19.3	20.9	21.5	20.4	28.9	29.4	40.8	220.8	1622.2	2711.0
8.5	82.5°	12.5	12.5	9.6	10.8	14.2	17.0	23.2	83.2	953.5	1650.5
5.1	85°	9.1	7.9	5.1	5.1	6.8	8.5	9.1	25.5	386.7	651.7
2.3	87.5°	4.5	4.0	1.7	2.3	3.4	2.8	2.3	1.1	97.4	208.4
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°
1138.1	0°	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1	1138.1
1306.2	2.5°	1317.6	1335.1	1336.2	1336.2	1321.0	1320.4	1289.2	1285.8
1498.7	5°	1551.4	1562.7	1565.6	1559.9	1529.3	1506.7	1446.1	1433.1
1695.2	7.5°	1765.4	1788.1	1788.1	1774.5	1724.7	1678.2	1590.5	1557.6
1857.7	10°	1936.4	1962.5	1956.8	1929.1	1866.2	1802.2	1695.8	1652.7
1956.2	12.5°	2019.6	2046.3	2031.5	1999.8	1938.7	1871.3	1759.2	1710.5
1984.5	15°	2017.9	2010.6	1995.3	1991.3	1961.9	1910.9	1806.2	1753.0
1967.0	17.5°	1946.0	1883.8	1871.9	1911.5	1948.9	1936.4	1847.0	1797.1
1925.1	20°	1832.2	1723.5	1712.8	1788.6	1895.1	1949.4	1884.9	1839.0
1864.5	22.5°	1712.2	1595.0	1570.1	1653.9	1814.1	1953.4	1933.0	1887.2
1797.7	25°	1598.4	1480.6	1455.7	1533.8	1724.1	1946.6	1985.1	1946.0
1733.7	27.5°	1503.3	1389.5	1366.2	1444.4	1637.5	1927.4	2037.2	2009.5
1670.3	30°	1429.7	1324.3	1307.4	1382.7	1562.7	1903.6	2103.4	2088.2
1611.4	32.5°	1386.6	1309.6	1315.9	1377.6	1522.5	1877.5	2166.9	2174.2
1582.5	35°	1429.1	1432.5	1486.8	1512.3	1559.9	1873.6	2252.9	2281.8
1617.1	37.5°	1640.3	1758.1	1870.7	1849.8	1742.8	1919.4	2381.5	2435.2
1767.7	40°	1999.8	2241.6	2424.5	2344.6	2075.1	2059.8	2566.6	2647.0
2034.9	42.5°	2439.2	2849.1	3150.4	2936.3	2503.8	2305.6	2831.0	2933.5
2358.2	45°	2902.9	3598.2	4072.7	3627.7	2960.7	2649.8	3231.3	3311.7
2661.2	47.5°	3391.6	4508.7	5122.4	4394.3	3384.2	3041.6	3777.1	3795.8
2948.2	50°	3926.1	5506.9	6192.6	5160.4	3793.0	3490.6	4444.1	4422.6
3282.8	52.5°	4435.1	6533.4	7240.0	5929.8	4152.0	4047.8	5218.1	5174.0
3740.3	55°	4920.9	7559.4	8293.7	6669.3	4490.6	4783.9	6137.6	5870.4
4400.0	57.5°	5484.2	8481.7	9379.7	7412.2	4963.9	5739.6	7165.9	6274.7
5663.2	60°	6317.1	9529.8	10607.8	8430.2	5864.2	6744.0	7534.5	6197.7
7176.1	62.5°	7380.5	10493.4	11500.7	9427.9	6768.4	6933.2	6991.5	5604.3
6867.5	65°	7587.1	10737.5	11551.1	9694.5	6651.8	5881.2	5707.9	4504.7
6134.2	67.5°	7039.0	10296.4	10846.8	9198.0	5884.0	4544.9	4283.3	3268.1
5653.0	70°	6424.1	9455.6	9619.2	8353.8	5175.1	3342.9	2892.7	2097.2
5323.4	72.5°	5794.0	8333.9	7995.4	7254.8	4548.3	2434.1	2086.5	1490.8
4854.1	75°	5045.4	6859.0	6297.9	6027.8	3765.8	1910.4	1509.5	1028.8
4175.2	77.5°	4040.4	4828.0	4678.0	4672.3	2829.9	1395.7	1007.3	644.9
3261.9	80°	2850.3	3133.4	3056.9	3519.0	1898.5	1012.4	606.4	359.0
2270.5	82.5°	1379.8	1732.6	1778.4	2095.5	923.5	595.6	139.9	78.1
887.8	85°	540.2	835.7	704.9	795.5	259.3	165.9	3.4	0.0
146.1	87.5°	60.6	96.8	88.9	70.2	31.7	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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