

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: P947592

Luminaire Tested: **GALN-SB2D-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947592
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-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 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: 9454 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

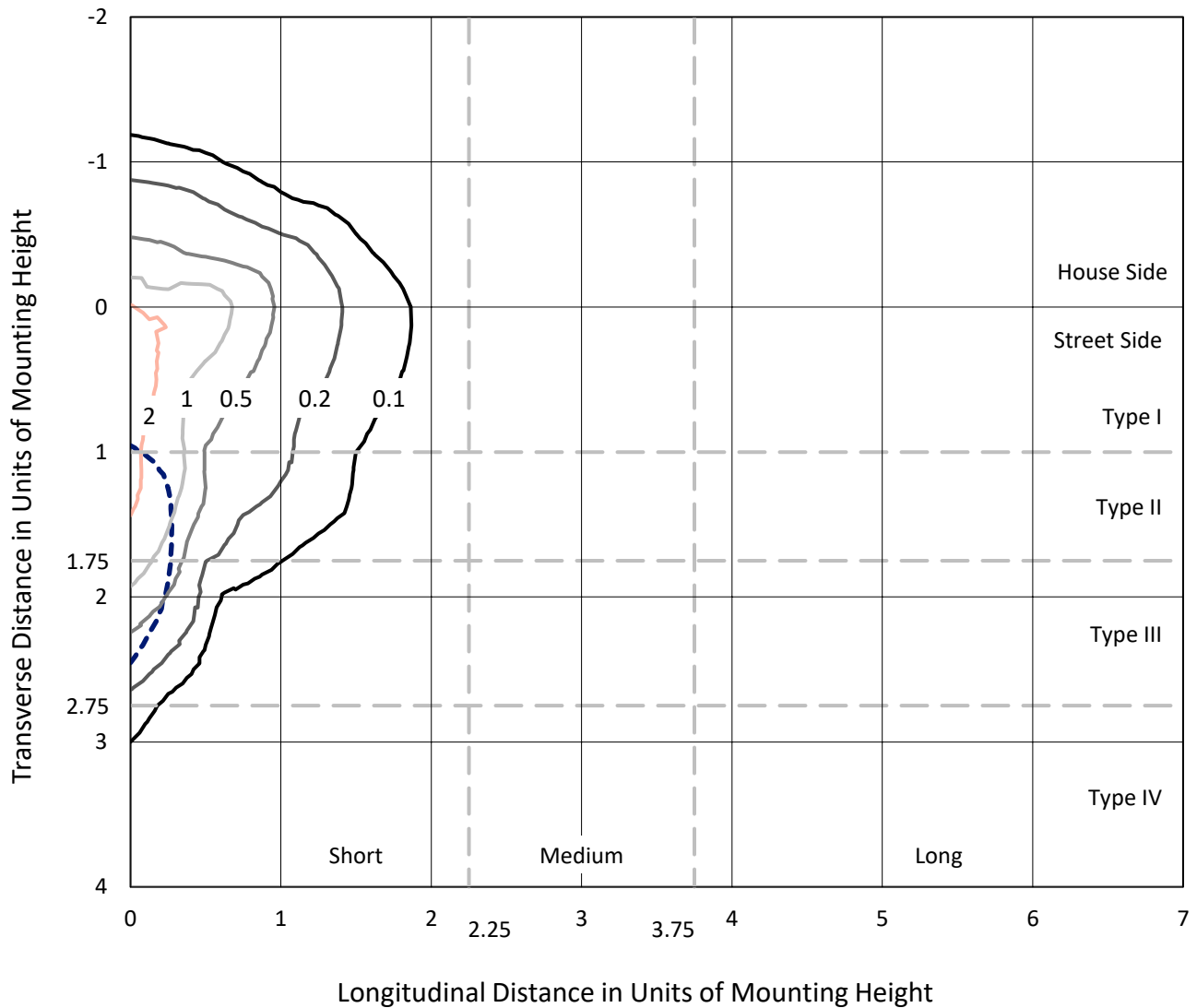
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

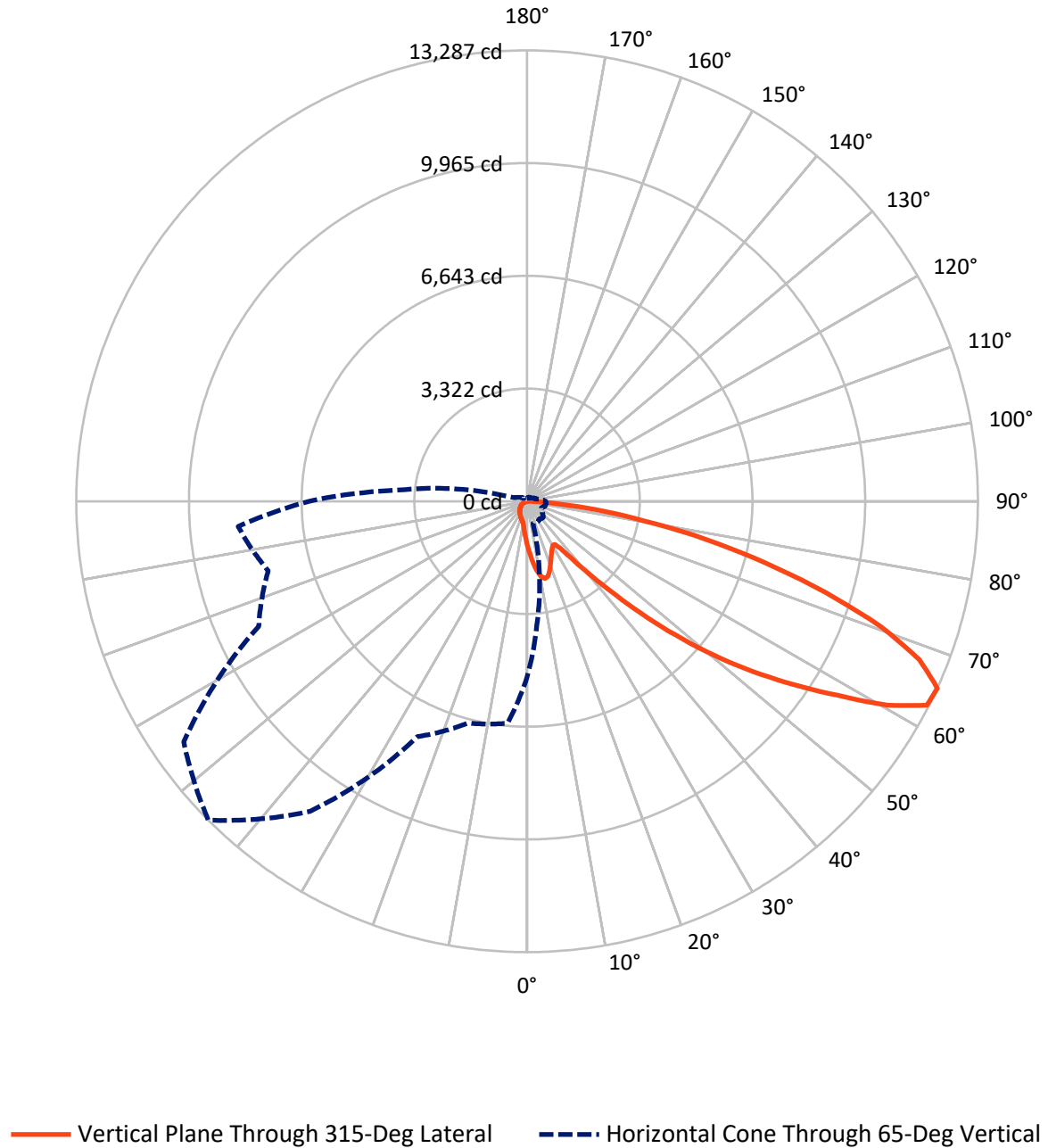
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1324.0	0.0	1324.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8130.0	0.0	8130.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	9454.0	0.0	9454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.4
10°-20°	386.4	4.1
20°-30°	569.2	6.0
30°-40°	731.2	7.7
40°-50°	1182.6	12.5
50°-60°	2073.8	21.9
60°-70°	2595.0	27.4
70°-80°	1516.4	16.0
80°-90°	270.5	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°	9454.0	100.0
0°-180°	9454.0	100.0

Coefficient of Utilization



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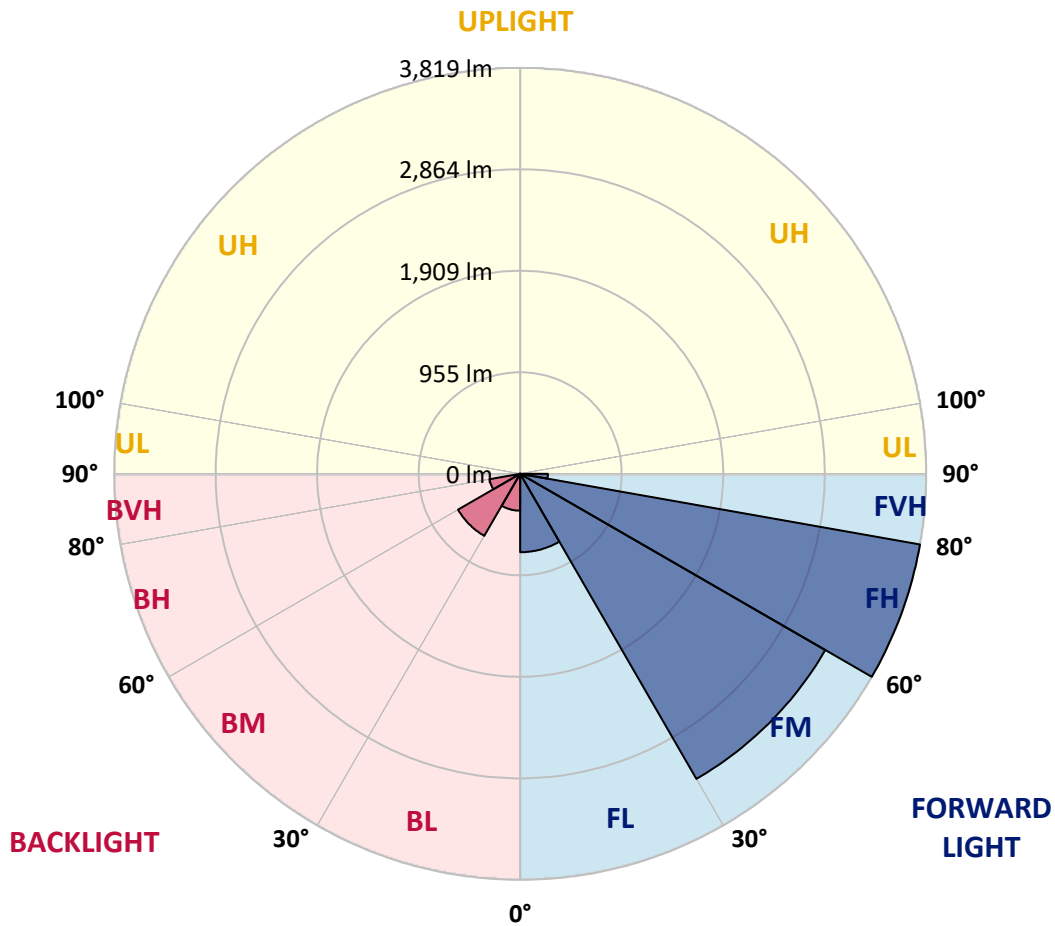
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.4	7.8			
FM (30°-60°)	3313.5	35.0			
FH (60°-80°)	3819.0	40.4			G2/5000
FVH (80°-90°)	260.2	2.8			G3/500
BL (0°-30°)	347.0	3.7	B1/500		
BM (30°-60°)	674.2	7.1	B1/1000		
BH (60°-80°)	292.3	3.1	B1/500		G1/500
BVH (80°-90°)	10.4	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°	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1
2.5°	1479.1	1453.7	1438.7	1401.6	1364.4	1334.5	1294.1	1267.4	1235.5	1204.9
5°	1648.4	1607.4	1557.9	1490.1	1428.3	1365.1	1303.9	1243.3	1179.5	1120.9
7.5°	1791.7	1732.4	1645.1	1555.3	1476.5	1400.3	1328.6	1248.5	1171.0	1079.2
10°	1901.1	1825.5	1710.9	1593.0	1502.5	1425.7	1356.0	1288.2	1210.1	1099.4
12.5°	1967.5	1886.8	1750.6	1612.6	1509.0	1423.1	1369.0	1339.0	1308.4	1198.4
15°	2016.4	1929.1	1778.7	1626.3	1494.0	1388.5	1348.8	1378.8	1413.9	1343.6
17.5°	2067.2	1975.3	1815.1	1632.1	1453.7	1321.5	1304.5	1382.0	1463.4	1460.2
20°	2115.4	2024.2	1847.0	1628.2	1388.5	1240.0	1255.0	1354.0	1448.5	1488.2
22.5°	2170.7	2074.3	1877.6	1613.2	1303.9	1163.8	1210.7	1309.7	1392.4	1439.3
25°	2238.5	2137.5	1920.6	1591.1	1212.7	1100.7	1165.8	1258.3	1325.4	1357.9
27.5°	2311.4	2213.1	1977.9	1579.4	1139.1	1055.7	1115.0	1197.1	1257.0	1279.8
30°	2401.9	2301.0	2045.7	1566.3	1090.9	1029.7	1062.2	1126.1	1184.7	1207.5
32.5°	2500.9	2398.7	2110.8	1535.1	1061.6	1010.1	1010.8	1051.2	1104.6	1131.9
35°	2624.7	2515.9	2180.5	1466.7	1038.1	987.3	960.6	980.2	1024.5	1057.0
37.5°	2801.2	2669.6	2265.8	1369.0	1003.6	952.2	907.9	912.4	946.3	982.1
40°	3044.7	2876.1	2366.1	1267.4	954.1	902.7	849.9	848.0	872.7	907.9
42.5°	3374.3	3148.9	2486.6	1170.4	906.6	842.8	788.7	785.4	805.0	835.6
45°	3809.3	3498.0	2634.4	1087.0	869.5	784.1	730.7	729.4	745.7	772.4
47.5°	4366.2	3983.2	2782.3	1030.3	849.9	737.9	683.2	685.8	700.1	724.2
50°	5087.2	4615.6	2827.2	1001.7	849.9	713.2	640.9	653.9	665.6	683.8
52.5°	5951.4	5222.6	2678.7	975.6	855.1	716.4	605.0	633.0	641.5	657.1
55°	6752.5	5520.3	2302.9	939.8	856.4	736.6	574.4	616.1	631.7	637.6
57.5°	7217.5	5418.0	1862.0	879.2	851.2	750.3	554.9	595.3	625.2	629.1
60°	7128.9	5059.2	1370.9	833.0	812.8	745.1	549.0	563.4	610.9	616.8
62.5°	6446.4	4457.4	951.5	797.2	728.1	722.3	547.1	513.2	579.6	594.0
65°	5181.6	3509.1	672.1	686.5	638.3	672.8	536.7	461.1	541.9	561.4
67.5°	3759.2	2374.6	485.2	556.2	578.3	592.7	513.2	423.3	498.9	524.9
70°	2412.3	1282.4	340.6	367.3	487.2	503.4	472.8	389.5	455.2	485.2
72.5°	1714.8	757.4	244.9	257.3	391.4	419.4	416.2	351.7	404.4	440.9
75°	1183.4	417.5	165.4	183.7	284.0	340.6	321.1	302.2	342.6	379.7
77.5°	741.8	186.9	99.0	127.7	186.3	267.7	220.1	233.8	267.0	301.5
80°	412.9	72.3	55.4	84.7	101.6	194.7	121.8	150.4	196.7	221.4
82.5°	89.9	9.1	24.7	36.5	39.7	113.3	64.5	87.3	123.7	121.8
85°	0.0	0.0	4.6	5.2	2.6	48.8	23.4	28.7	40.4	37.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°
1309.1	0°	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1
1177.5	2.5°	1172.3	1140.4	1116.9	1105.2	1095.5	1104.6	1109.8	1109.8	1131.9	1145.0
1085.0	5°	1062.2	1004.9	961.3	932.0	914.4	920.3	926.8	933.9	961.9	980.8
1030.3	7.5°	986.0	898.1	831.7	790.7	769.2	772.4	777.0	782.8	810.2	829.1
1038.1	10°	971.7	845.4	751.6	697.5	671.5	666.9	664.3	662.4	678.6	693.0
1126.7	12.5°	1030.3	848.0	717.1	651.3	619.4	605.7	590.1	577.7	580.3	589.4
1260.9	15°	1135.2	881.2	706.0	627.2	587.5	564.7	546.4	531.4	528.2	531.4
1378.1	17.5°	1255.0	926.1	704.7	606.3	556.8	533.4	518.4	504.7	500.2	500.8
1443.9	20°	1334.5	961.9	700.8	582.9	527.5	506.7	493.7	480.0	475.4	476.7
1425.7	22.5°	1342.3	980.8	694.9	556.8	498.2	480.6	467.6	455.2	454.6	454.6
1357.3	25°	1300.0	980.8	682.5	533.4	470.2	454.6	442.9	427.9	430.5	431.8
1279.8	27.5°	1234.2	957.4	659.1	514.5	446.1	429.8	418.1	404.4	407.7	409.7
1207.5	30°	1169.1	927.4	631.1	493.0	423.3	404.4	396.0	384.3	385.6	388.2
1135.8	32.5°	1108.5	895.5	597.9	475.4	400.5	381.7	375.1	362.1	364.1	366.7
1065.5	35°	1048.6	860.3	558.8	454.6	379.7	360.8	355.6	340.6	341.9	345.8
995.2	37.5°	984.1	823.2	526.9	433.8	359.5	340.0	334.8	319.1	320.4	325.0
922.2	40°	916.4	786.7	495.6	411.6	338.0	318.5	313.9	297.0	298.3	303.5
850.6	42.5°	848.0	747.0	471.5	383.0	315.9	295.0	290.5	274.8	276.8	282.7
788.1	45°	784.8	699.5	455.9	351.0	295.0	271.6	267.0	252.7	256.6	263.1
735.3	47.5°	730.7	650.6	449.4	324.3	272.9	247.5	243.6	231.9	238.4	245.5
690.4	50°	684.5	603.7	440.9	297.0	252.0	226.6	222.7	214.9	223.4	230.6
659.7	52.5°	651.3	550.3	422.7	272.2	233.8	209.1	207.8	203.9	211.7	218.2
637.0	55°	622.6	495.0	393.4	250.7	217.5	194.1	195.4	193.4	199.9	205.2
623.3	57.5°	596.6	446.8	356.3	233.8	199.9	181.1	185.0	182.4	185.6	188.9
608.9	60°	565.3	397.9	312.0	214.9	179.1	168.0	172.6	165.4	164.8	166.1
582.9	62.5°	519.1	332.2	265.7	191.5	160.9	153.7	155.7	142.0	131.6	131.6
544.5	65°	454.6	267.0	222.7	165.4	140.0	134.2	132.9	113.3	99.0	97.7
502.8	67.5°	379.7	219.5	185.0	139.4	116.6	112.7	114.0	99.6	85.3	84.0
461.1	70°	309.4	181.7	149.1	111.4	89.9	93.8	99.6	85.3	71.6	69.7
412.3	72.5°	251.4	144.6	116.6	85.3	66.4	77.5	84.7	69.7	56.7	55.4
351.7	75°	194.1	106.2	83.4	58.0	48.2	59.9	66.4	50.8	40.4	38.4
272.2	77.5°	129.6	65.8	46.9	36.5	28.7	41.0	44.3	26.7	23.4	22.8
198.0	80°	78.8	30.6	20.2	17.6	9.8	15.0	17.6	11.1	12.4	13.0
105.5	82.5°	39.7	8.5	3.3	0.7	0.0	0.0	5.2	2.6	5.2	6.5
28.7	85°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.3
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°
1309.1	0°	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1
1150.2	2.5°	1186.6	1214.0	1240.0	1281.7	1324.7	1367.0	1410.0	1451.7	1466.7	1477.8
993.2	5°	1049.9	1101.3	1161.2	1243.9	1332.5	1423.7	1516.2	1600.9	1639.3	1665.3
845.4	7.5°	908.5	975.6	1061.6	1186.0	1324.7	1469.9	1615.2	1748.7	1810.6	1860.7
706.0	10°	768.5	841.5	950.2	1092.2	1279.8	1488.2	1688.8	1872.4	1952.5	2015.7
605.7	12.5°	645.4	713.8	827.8	984.7	1209.4	1473.9	1731.1	1951.9	2046.3	2117.3
534.1	15°	558.8	607.0	707.9	877.3	1126.1	1427.6	1733.7	1989.7	2093.2	2167.5
504.1	17.5°	510.6	526.9	592.7	767.9	1033.6	1367.0	1709.6	2002.7	2113.4	2182.4
477.4	20°	484.6	487.2	505.4	625.9	915.1	1310.4	1686.8	2015.7	2132.3	2190.3
458.5	22.5°	463.7	463.7	468.3	511.9	762.0	1242.6	1679.7	2038.5	2158.3	2194.2
437.0	25°	444.8	444.8	446.1	457.9	603.7	1139.1	1675.1	2073.7	2194.2	2203.9
415.5	27.5°	425.3	425.9	425.9	432.5	486.5	998.4	1655.6	2119.3	2237.2	2217.0
394.7	30°	405.7	407.1	407.1	411.6	430.5	833.6	1617.1	2174.0	2293.2	2233.9
373.8	32.5°	386.2	387.5	387.5	391.4	405.1	665.6	1568.9	2224.1	2349.8	2241.1
353.6	35°	366.0	368.0	366.7	371.9	386.2	529.5	1507.7	2274.3	2411.0	2263.9
334.1	37.5°	345.8	347.1	346.5	351.7	368.0	457.2	1436.7	2312.1	2494.4	2314.7
313.3	40°	325.6	325.0	325.0	330.9	348.4	436.4	1347.5	2372.0	2614.2	2403.9
292.4	42.5°	304.8	304.8	303.5	310.0	331.5	420.7	1262.2	2479.4	2788.8	2545.9
272.9	45°	285.9	285.3	282.7	288.5	315.2	393.4	1232.2	2680.0	3046.7	2775.8
253.3	47.5°	267.7	267.0	260.5	265.7	295.7	368.6	1344.2	3008.3	3404.3	3113.8
237.7	50°	251.4	252.0	239.7	244.2	276.1	349.7	1587.2	3434.2	3879.0	3569.0
224.7	52.5°	236.4	236.4	220.1	222.7	252.0	332.8	1818.4	3896.0	4505.6	4204.0
211.0	55°	221.4	220.1	201.9	203.2	227.9	308.7	1852.9	4346.7	5360.0	5159.5
196.0	57.5°	204.5	201.9	185.0	185.0	205.8	291.1	1606.1	4693.1	6420.3	6563.6
168.0	60°	183.7	181.7	170.6	167.4	188.2	306.8	1133.2	4733.5	7104.2	8430.8
133.5	62.5°	157.0	159.6	153.7	149.1	171.3	318.5	671.5	4408.5	6938.8	9024.8
103.6	65°	123.7	134.2	132.9	129.6	188.2	268.3	396.6	3784.6	6431.4	8545.5
90.5	67.5°	105.5	112.7	110.7	110.7	197.3	203.9	249.4	2956.8	5733.2	7976.9
75.5	70°	89.9	97.0	89.9	89.9	149.1	123.7	172.6	2064.6	4979.7	7347.8
60.6	72.5°	74.2	81.4	73.6	68.4	119.2	92.5	126.3	1290.2	4264.6	6692.6
43.0	75°	56.7	65.1	59.3	52.8	78.8	69.0	95.7	749.6	3533.2	5726.1
26.1	77.5°	35.8	46.9	44.3	37.1	58.0	50.1	69.0	446.1	2726.3	4474.3
15.6	80°	22.1	24.1	24.7	23.4	33.2	33.9	46.9	254.0	1865.9	3118.3
9.8	82.5°	14.3	14.3	11.1	12.4	16.3	19.5	26.7	95.7	1096.8	1898.5
5.9	85°	10.4	9.1	5.9	5.9	7.8	9.8	10.4	29.3	444.8	749.6
2.6	87.5°	5.2	4.6	2.0	2.6	3.9	3.3	2.6	1.3	112.0	239.7
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°
1309.1	0°	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1	1309.1
1502.5	2.5°	1515.5	1535.7	1537.0	1537.0	1519.4	1518.8	1483.0	1479.1
1723.9	5°	1784.5	1797.5	1800.8	1794.3	1759.1	1733.1	1663.4	1648.4
1949.9	7.5°	2030.7	2056.7	2056.7	2041.1	1983.8	1930.4	1829.5	1791.7
2136.9	10°	2227.4	2257.3	2250.8	2218.9	2146.6	2073.0	1950.6	1901.1
2250.2	12.5°	2323.1	2353.7	2336.8	2300.3	2230.0	2152.5	2023.5	1967.5
2282.7	15°	2321.2	2312.7	2295.1	2290.6	2256.7	2198.1	2077.6	2016.4
2262.6	17.5°	2238.5	2166.8	2153.1	2198.7	2241.7	2227.4	2124.5	2067.2
2214.4	20°	2107.5	1982.5	1970.1	2057.4	2179.8	2242.4	2168.1	2115.4
2144.7	22.5°	1969.5	1834.7	1806.0	1902.4	2086.7	2246.9	2223.5	2170.7
2067.8	25°	1838.6	1703.1	1674.4	1764.3	1983.2	2239.1	2283.4	2238.5
1994.2	27.5°	1729.2	1598.2	1571.5	1661.4	1883.5	2217.0	2343.3	2311.4
1921.3	30°	1644.5	1523.3	1503.8	1590.4	1797.5	2189.6	2419.5	2401.9
1853.5	32.5°	1595.0	1506.4	1513.6	1584.6	1751.3	2159.7	2492.5	2500.9
1820.3	35°	1643.8	1647.7	1710.3	1739.6	1794.3	2155.1	2591.5	2624.7
1860.1	37.5°	1886.8	2022.2	2151.8	2127.7	2004.6	2207.8	2739.3	2801.2
2033.3	40°	2300.3	2578.4	2788.8	2697.0	2386.9	2369.4	2952.3	3044.7
2340.7	42.5°	2805.7	3277.3	3623.7	3377.5	2880.0	2652.0	3256.4	3374.3
2712.6	45°	3339.1	4138.9	4684.7	4172.8	3405.6	3048.0	3716.9	3809.3
3061.0	47.5°	3901.2	5186.2	5892.1	5054.6	3892.7	3498.7	4344.7	4366.2
3391.2	50°	4516.0	6334.4	7123.1	5935.8	4362.9	4015.2	5111.9	5087.2
3776.1	52.5°	5101.5	7515.1	8327.9	6820.9	4775.8	4656.0	6002.2	5951.4
4302.4	55°	5660.3	8695.3	9540.0	7671.4	5165.3	5502.7	7059.9	6752.5
5061.1	57.5°	6308.3	9756.2	10789.1	8525.9	5709.8	6602.0	8242.6	7217.5
6514.1	60°	7266.4	10961.7	12201.8	9696.9	6745.3	7757.4	8666.6	7128.9
8254.3	62.5°	8489.5	12070.2	13228.8	10844.5	7785.4	7974.9	8042.0	6446.4
7899.4	65°	8727.2	12350.9	13286.8	11151.2	7651.3	6764.9	6565.6	5181.6
7056.0	67.5°	8096.7	11843.6	12476.6	10580.1	6768.1	5227.8	4926.9	3759.2
6502.4	70°	7389.4	10876.4	11064.6	9609.0	5952.7	3845.2	3327.4	2412.3
6123.4	72.5°	6664.6	9586.2	9196.8	8344.9	5231.7	2799.9	2400.0	1714.8
5583.4	75°	5803.6	7889.6	7244.2	6933.5	4331.7	2197.4	1736.3	1183.4
4802.6	77.5°	4647.5	5553.5	5380.9	5374.4	3255.1	1605.4	1158.6	741.8
3752.0	80°	3278.6	3604.2	3516.3	4047.7	2183.7	1164.5	697.5	412.9
2611.6	82.5°	1587.2	1992.9	2045.7	2410.4	1062.2	685.1	160.9	89.9
1021.2	85°	621.3	961.3	810.8	915.1	298.3	190.8	3.9	0.0
168.0	87.5°	69.7	111.4	102.3	80.8	36.5	7.8	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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