

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: P651191

Luminaire Tested: **GALN-SA1D-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5674.2 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

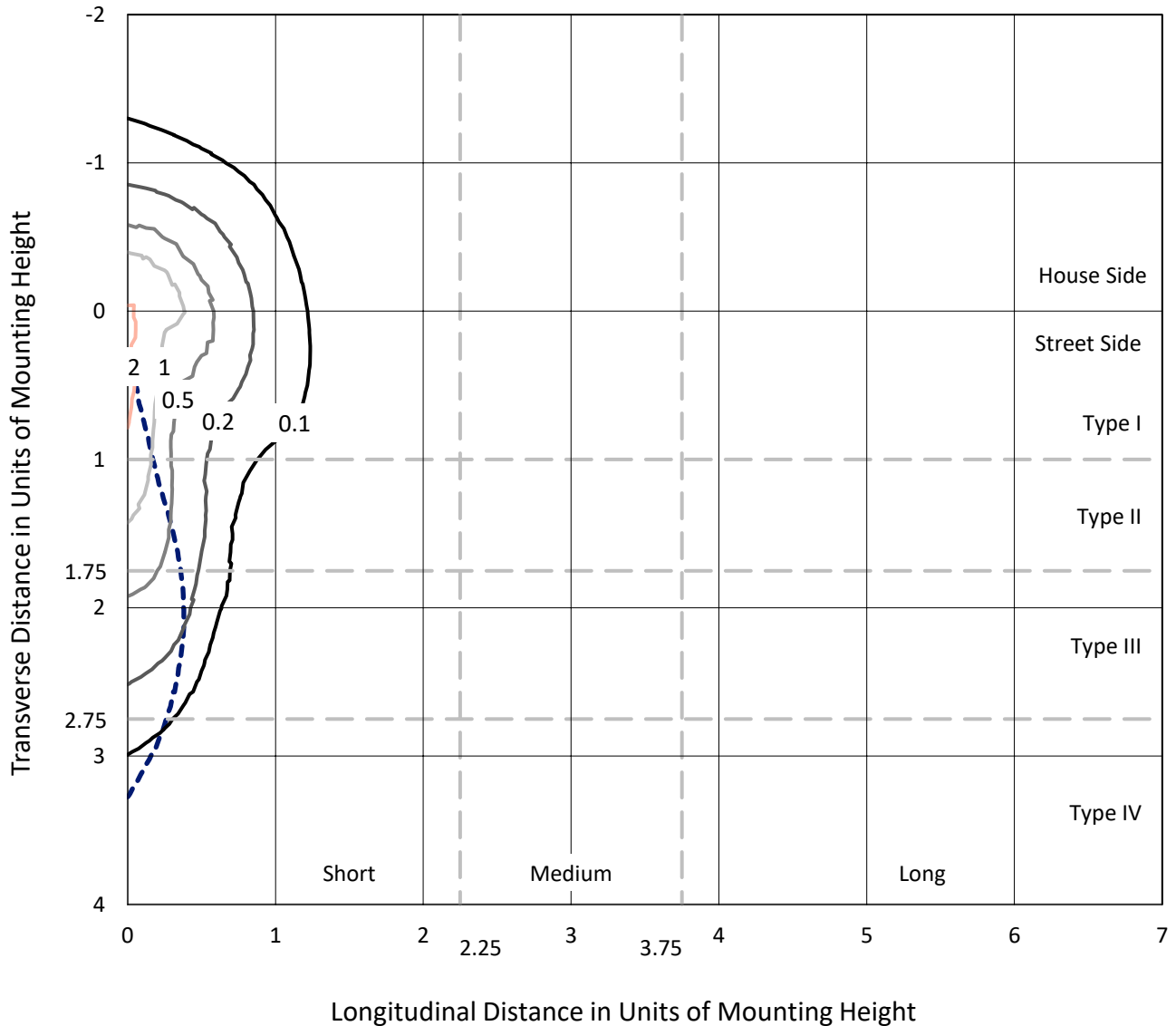
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

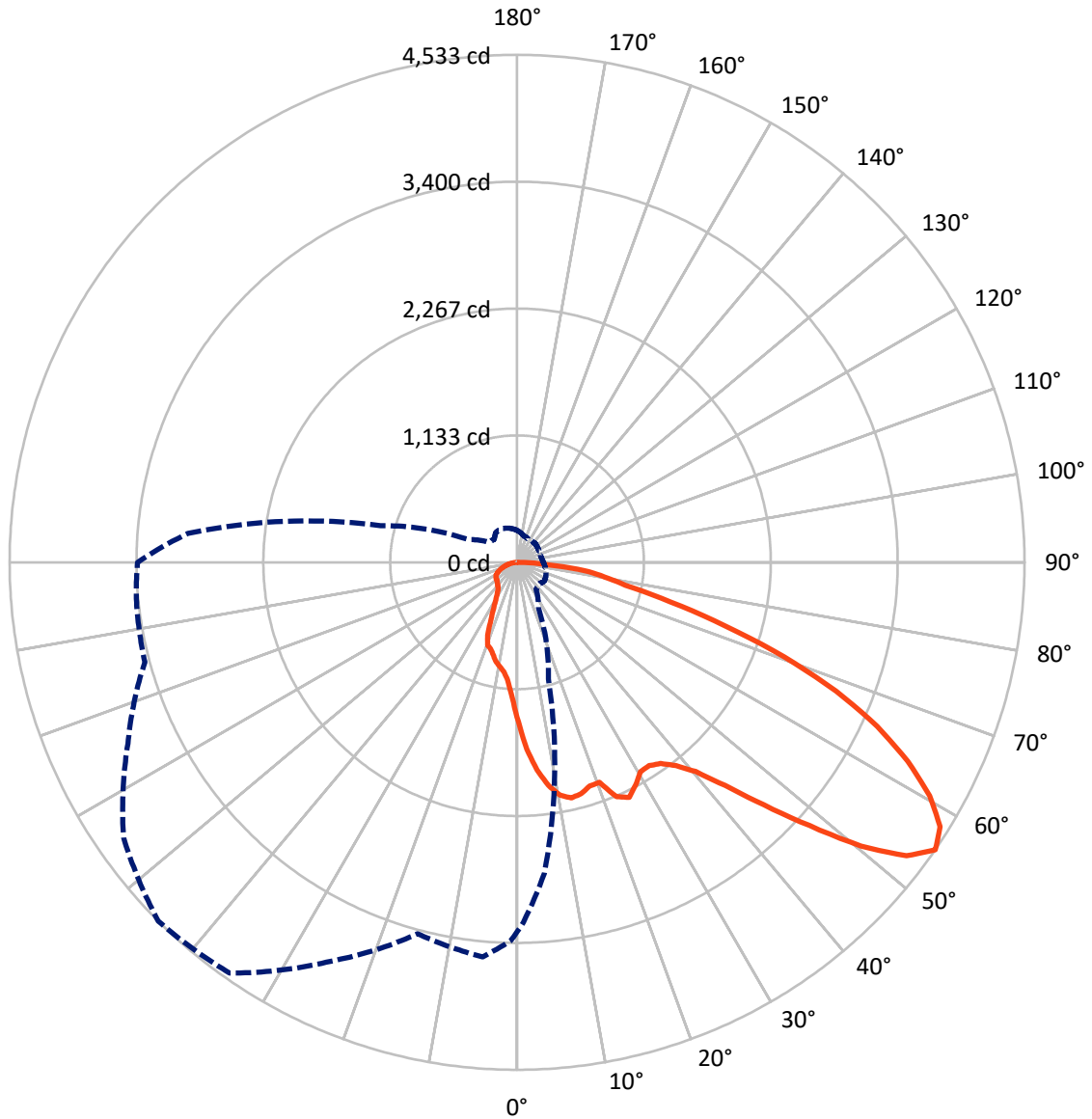
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.2	0.0	1241.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4433.0	0.0	4433.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	5674.2	0.0	5674.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	2.1
10°-20°	320.2	5.6
20°-30°	553.1	9.7
30°-40°	642.8	11.3
40°-50°	896.9	15.8
50°-60°	1217.0	21.4
60°-70°	1157.8	20.4
70°-80°	625.5	11.0
80°-90°	140.2	2.5
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°	5674.2	100.0
0°-180°	5674.2	100.0

Coefficient of Utilization

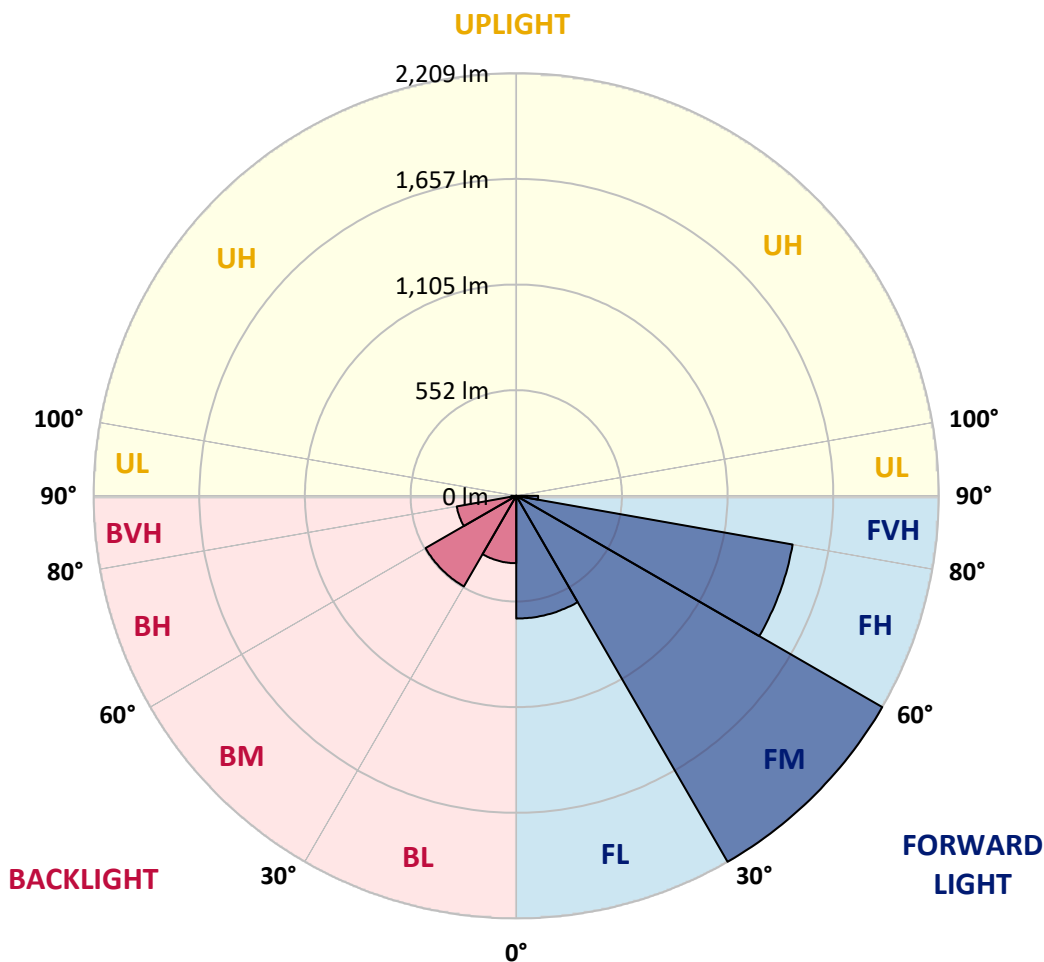


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.8	11.3			
FM (30°-60°)	2209.4	38.9			
FH (60°-80°)	1467.3	25.9			G1/1800
FVH (80°-90°)	114.6	2.0			G2/225
BL (0°-30°)	352.3	6.2	B1/500		
BM (30°-60°)	547.3	9.6	B1/1000		
BH (60°-80°)	316.0	5.6	B1/500		G1/500
BVH (80°-90°)	25.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0
2.5°	1582.0	1576.0	1559.1	1515.0	1470.4	1425.2	1390.3	1346.9	1301.6	1277.2	1246.2
5°	1603.7	1597.0	1557.3	1457.7	1367.5	1272.8	1197.2	1130.9	1104.0	1064.3	1032.4
7.5°	1552.8	1549.8	1490.3	1347.3	1223.7	1099.9	1014.1	960.9	912.7	894.7	898.4
10°	1506.4	1494.4	1419.9	1233.1	1089.0	988.3	926.9	874.8	840.7	831.8	833.7
12.5°	1467.8	1451.7	1363.8	1156.4	1030.2	949.7	871.4	817.2	786.2	794.7	823.9
15°	1460.0	1438.2	1340.1	1130.1	998.0	894.3	808.6	746.1	722.8	741.6	788.4
17.5°	1510.9	1483.5	1380.6	1138.8	967.3	837.8	732.6	661.1	641.6	671.5	732.6
20°	1674.4	1634.0	1506.7	1188.6	964.3	809.7	688.4	616.5	624.8	681.7	745.3
22.5°	1976.9	1916.3	1727.6	1261.2	980.0	802.6	679.4	642.0	687.3	735.6	777.5
25°	2036.8	1989.3	1767.3	1277.6	976.7	797.7	704.9	723.6	774.1	798.1	783.5
27.5°	2070.5	2016.2	1764.7	1196.1	873.4	723.6	673.8	704.9	717.6	694.4	654.7
30°	2149.1	2092.6	1809.2	1110.3	719.1	536.8	470.5	457.8	466.4	471.0	456.7
32.5°	2257.3	2201.5	1893.1	1054.2	621.8	444.0	378.9	360.9	356.8	351.9	346.2
35°	2397.3	2311.6	1975.4	1018.2	581.7	410.7	350.8	336.9	331.3	324.5	318.6
37.5°	2539.6	2449.7	2079.5	980.4	555.1	387.4	332.0	325.7	316.0	308.8	300.2
40°	2690.8	2590.1	2174.2	947.5	529.3	372.5	318.6	317.8	305.1	296.9	286.8
42.5°	2821.8	2718.1	2258.8	927.3	509.5	356.8	310.3	312.6	299.5	287.1	274.0
45°	2925.9	2824.1	2337.1	927.3	493.4	341.0	308.8	307.3	294.3	278.9	263.9
47.5°	3017.3	2912.0	2413.4	950.8	483.2	327.9	300.6	303.2	289.7	270.3	255.7
50°	3088.0	2995.1	2516.4	987.5	473.1	317.5	290.1	304.4	286.0	265.8	248.9
52.5°	3178.2	3095.0	2640.2	1037.7	464.6	305.9	280.7	304.4	285.6	266.2	247.8
55°	3303.2	3215.6	2789.6	1079.3	450.7	295.0	272.5	295.7	284.5	264.3	244.8
57.5°	3390.8	3325.3	2895.2	1106.9	430.8	281.1	265.0	287.5	279.6	257.2	235.8
58°	3394.9	3330.9	2910.5	1113.3	426.0	278.5	263.1	283.8	277.4	254.2	232.9
60°	3347.8	3292.8	2913.6	1104.3	398.3	265.4	253.4	268.4	265.4	236.6	216.7
62.5°	3176.3	3117.6	2792.6	1031.3	361.6	249.3	238.4	247.8	241.1	211.8	193.5
65°	2932.7	2824.4	2544.0	916.8	335.4	232.1	218.2	219.0	211.8	190.9	174.8
67.5°	2608.0	2487.2	2154.0	772.6	315.5	213.0	194.3	192.4	183.8	170.3	157.3
70°	2208.6	2125.9	1750.5	628.6	293.5	192.0	167.4	166.2	161.0	150.9	139.3
72.5°	1790.2	1684.9	1413.6	503.1	266.5	171.8	142.2	144.5	137.8	130.6	120.2
75°	1321.0	1252.2	1092.7	403.5	230.2	149.7	118.7	119.4	116.4	108.9	100.7
77.5°	870.0	849.4	781.6	265.0	177.0	119.0	97.0	97.7	95.5	88.7	80.1
80°	585.5	571.6	529.7	170.7	118.3	86.1	74.8	75.6	75.3	68.1	56.5
82.5°	360.9	354.9	341.4	115.3	82.0	61.7	49.5	51.6	55.8	47.9	38.5
85°	170.3	170.7	206.3	62.9	48.3	39.7	26.9	28.8	28.8	28.8	21.7
87.5°	22.1	23.2	28.4	26.6	17.6	15.0	9.8	8.2	7.1	9.3	6.7
90°	0.0	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°
0°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0
2.5°	1235.3	1227.9	1211.8	1208.0	1205.7	1212.1	1195.3	1199.8	1192.3	1213.2	1209.9
5°	1034.3	1035.1	1048.1	1056.8	1059.7	1056.8	1045.5	1026.1	1011.1	1005.1	1006.6
7.5°	891.3	904.4	926.9	951.9	974.8	981.5	975.1	938.1	897.7	872.2	864.0
10°	843.8	861.4	887.2	907.0	927.3	943.3	946.7	917.9	870.0	809.7	786.2
12.5°	846.4	870.4	895.1	901.4	899.5	905.9	902.9	898.0	866.7	789.9	750.6
15°	821.7	850.2	867.3	864.0	858.0	852.4	844.5	832.2	820.9	767.0	723.6
17.5°	764.8	794.0	808.2	809.3	809.3	807.9	788.8	784.2	782.7	756.6	730.0
20°	775.2	791.4	785.0	774.6	777.5	787.6	776.4	774.1	782.7	794.3	789.5
22.5°	781.3	775.7	727.7	681.3	670.9	702.2	708.6	733.7	768.5	810.5	837.8
25°	744.2	698.9	613.2	560.8	531.2	560.4	598.5	645.0	697.0	750.9	782.7
27.5°	622.2	587.7	526.3	479.2	453.3	457.8	490.4	532.7	581.0	617.3	640.5
30°	468.7	453.3	421.5	405.4	389.7	385.9	399.8	415.9	437.2	441.7	447.7
32.5°	345.1	342.9	344.8	339.5	336.6	336.1	332.0	335.8	338.0	340.7	335.4
35°	312.2	309.2	303.9	302.5	300.6	301.3	299.5	297.6	299.1	301.3	302.8
37.5°	295.4	290.9	283.4	280.7	280.7	281.9	278.9	278.1	280.7	287.9	291.6
40°	282.2	277.0	268.4	265.0	267.3	270.3	266.2	264.7	271.1	278.5	284.5
42.5°	269.9	265.8	257.5	253.8	255.7	261.3	255.3	254.2	262.4	270.6	277.8
45°	259.4	255.3	247.8	245.9	246.7	252.0	247.8	247.8	255.7	264.7	271.1
47.5°	251.2	245.9	241.1	239.6	240.4	243.3	242.5	242.5	250.0	259.4	265.8
50°	243.0	238.4	232.1	232.9	234.7	238.8	238.4	239.6	247.1	258.7	265.4
52.5°	239.2	232.5	225.4	226.1	231.7	236.6	235.1	236.2	244.8	266.5	276.3
55°	235.1	226.1	217.9	219.0	225.4	232.5	230.6	232.1	242.2	271.8	285.3
57.5°	227.2	216.7	207.7	208.5	217.9	225.4	222.4	224.2	236.2	266.2	280.4
58°	223.9	214.9	206.3	206.6	215.6	223.9	220.5	222.0	234.3	264.7	278.1
60°	209.7	204.4	196.9	197.3	205.9	213.0	211.1	212.6	224.6	253.8	263.9
62.5°	190.2	187.2	185.3	185.3	190.6	197.3	199.1	201.0	211.8	229.5	238.4
65°	169.2	169.2	169.5	169.5	172.9	181.6	182.7	187.5	197.6	206.3	213.0
67.5°	155.0	154.2	155.0	153.1	154.6	159.9	165.4	170.0	180.4	186.4	188.6
70°	136.7	136.2	136.7	134.1	135.9	140.4	144.1	151.6	162.5	166.9	168.1
72.5°	118.7	118.7	119.4	117.6	117.6	122.4	125.1	133.3	143.4	146.0	146.3
75°	99.9	101.1	101.1	98.5	99.2	102.2	105.5	112.3	121.7	123.5	123.5
77.5°	79.4	83.5	83.5	80.8	82.0	82.3	86.9	90.2	97.3	98.1	95.1
80°	57.6	61.7	65.2	62.9	64.8	62.5	65.2	67.4	74.5	71.1	66.3
82.5°	41.2	44.2	46.8	47.2	45.3	41.2	44.6	44.9	48.3	43.8	41.2
85°	22.9	25.5	28.8	27.3	24.3	21.7	22.9	23.5	23.2	22.1	20.6
87.5°	6.0	6.4	7.1	5.2	4.9	4.1	5.6	5.6	6.4	6.7	6.4
90°	0.0	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°
0°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0
2.5°	1212.5	1229.0	1264.5	1291.5	1324.4	1364.5	1411.6	1459.2	1510.5	1526.6	1549.0
5°	1003.2	1044.4	1061.7	1110.7	1159.3	1232.3	1310.2	1400.4	1499.3	1546.8	1592.4
7.5°	857.2	879.3	897.3	933.3	991.6	1080.3	1178.1	1290.8	1430.7	1500.0	1567.0
10°	778.6	780.9	803.0	847.5	898.4	976.7	1069.2	1195.3	1351.4	1435.6	1514.2
12.5°	726.6	716.9	740.8	787.3	844.9	917.1	1002.1	1122.3	1294.1	1380.6	1475.7
15°	681.0	665.6	683.6	731.1	788.0	873.0	964.3	1091.6	1271.7	1372.3	1477.9
17.5°	682.1	639.7	646.1	686.2	742.7	829.1	940.0	1090.4	1305.7	1421.8	1546.8
20°	766.3	698.5	669.7	677.2	731.8	826.2	951.2	1142.8	1417.7	1586.9	1720.5
22.5°	849.0	808.2	761.8	746.5	776.4	875.2	1022.7	1266.8	1661.0	1915.9	2157.3
25°	820.2	855.0	843.4	821.7	828.4	910.4	1071.3	1368.6	1850.0	2137.1	2364.0
27.5°	656.2	719.5	732.3	731.8	734.4	801.8	963.5	1300.1	1873.6	2179.5	2396.2
30°	461.2	466.8	473.6	486.7	498.6	558.9	754.0	1141.4	1863.2	2198.5	2415.7
32.5°	332.8	340.3	349.6	367.6	396.0	472.8	659.6	1090.9	1918.5	2277.5	2472.5
35°	304.4	312.9	321.9	342.5	369.5	440.6	622.2	1069.9	2009.5	2405.5	2574.7
37.5°	295.4	305.1	312.9	327.9	349.6	417.4	588.1	1055.6	2102.7	2541.1	2711.7
40°	289.0	300.2	306.6	318.6	333.5	396.0	557.8	1044.4	2192.9	2665.0	2821.8
42.5°	283.4	295.0	303.2	311.8	324.2	376.9	530.8	1033.2	2271.1	2785.1	2931.5
45°	276.6	291.2	301.8	308.5	319.3	360.9	510.2	1024.2	2360.3	2891.8	3042.3
47.5°	271.1	287.1	300.2	308.1	312.2	349.6	493.8	1036.5	2467.3	3003.4	3145.3
50°	271.4	286.8	303.2	315.5	304.7	340.3	483.7	1085.6	2606.6	3135.9	3226.5
52.5°	283.4	302.1	315.2	318.2	294.3	329.1	478.4	1171.3	2771.3	3253.1	3308.5
55°	296.9	316.3	330.5	328.7	288.6	314.8	477.3	1262.7	2951.7	3389.7	3415.1
57.5°	292.0	320.4	342.1	332.4	289.0	301.0	472.4	1336.4	3102.5	3491.9	3520.7
58°	290.5	318.9	343.6	331.7	287.9	296.9	471.3	1342.7	3123.6	3499.0	3535.7
60°	275.9	305.9	342.5	326.1	281.5	285.6	458.9	1363.3	3117.9	3462.3	3544.6
62.5°	249.3	274.0	316.7	298.7	262.1	270.6	431.3	1337.9	2966.0	3285.6	3413.3
65°	219.3	237.8	266.2	262.8	234.3	255.3	393.4	1237.2	2661.6	2998.8	3133.2
67.5°	196.9	211.8	229.8	225.0	210.8	234.7	352.6	1066.9	2320.2	2654.4	2823.7
70°	174.1	185.7	194.7	191.3	186.8	214.5	316.3	865.9	1993.0	2327.3	2491.3
72.5°	150.9	161.7	169.2	164.3	161.7	193.2	286.8	672.0	1574.1	1920.0	2130.8
75°	126.2	137.0	142.2	136.7	135.1	170.3	243.0	502.0	1181.1	1480.2	1662.1
77.5°	97.7	109.3	116.1	114.2	115.0	140.0	196.1	343.6	844.5	1008.9	1200.5
80°	68.5	81.2	85.7	83.8	89.1	106.7	138.5	218.2	582.5	654.7	789.9
82.5°	42.3	54.2	55.0	56.9	60.6	79.0	104.5	132.9	365.8	378.1	476.2
85°	21.4	25.8	27.7	30.7	34.1	48.3	59.5	82.3	235.5	178.2	266.2
87.5°	7.1	7.5	9.0	11.3	13.9	19.8	25.5	33.7	58.4	32.2	82.3
90°	0.0	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°	359°	360°
0°	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0	1424.0
2.5°	1594.4	1626.2	1649.4	1670.7	1650.1	1648.3	1628.0	1595.5	1582.0	1582.0
5°	1688.3	1762.8	1823.0	1861.6	1845.2	1805.5	1739.9	1656.5	1611.5	1603.7
7.5°	1714.1	1861.2	1973.2	2012.8	1985.2	1897.5	1772.2	1631.4	1567.0	1552.8
10°	1698.4	1889.7	2054.1	2116.9	2078.4	1945.8	1774.8	1602.2	1522.8	1506.4
12.5°	1681.9	1893.4	2069.0	2159.9	2134.9	1984.8	1793.9	1583.1	1491.4	1467.8
15°	1693.9	1894.9	2050.7	2144.6	2160.7	2031.6	1825.3	1597.0	1485.0	1460.0
17.5°	1769.5	1923.4	2024.5	2100.5	2157.0	2095.2	1914.8	1663.2	1541.9	1510.9
20°	1927.5	1991.5	2039.4	2098.2	2189.2	2225.1	2097.8	1845.2	1701.8	1674.4
22.5°	2385.0	2373.4	2275.2	2274.1	2405.9	2550.1	2541.4	2215.0	1999.4	1976.9
25°	2556.4	2502.5	2360.6	2326.2	2384.2	2606.6	2574.4	2290.6	2091.5	2036.8
27.5°	2489.4	2355.7	2262.5	2254.7	2235.6	2445.6	2523.1	2321.3	2123.7	2070.5
30°	2485.2	2288.8	2155.5	2171.2	2189.5	2390.2	2551.5	2417.5	2206.0	2149.1
32.5°	2495.4	2298.1	2163.3	2166.3	2221.0	2398.4	2583.0	2522.3	2314.2	2257.3
35°	2536.2	2351.3	2213.5	2206.4	2291.7	2452.4	2636.5	2687.1	2462.0	2397.3
37.5°	2602.1	2457.2	2305.2	2303.3	2427.3	2549.7	2703.1	2853.3	2609.2	2539.6
40°	2699.0	2581.1	2468.4	2458.3	2611.5	2708.0	2789.6	3030.3	2780.3	2690.8
42.5°	2816.2	2729.7	2683.7	2723.7	2870.8	2885.8	2924.4	3193.9	2925.9	2821.8
45°	2924.7	2920.6	2984.6	3090.9	3176.7	3086.9	3065.1	3303.6	3039.0	2925.9
47.5°	3053.9	3165.4	3358.6	3514.4	3604.2	3320.9	3185.3	3375.1	3121.3	3017.3
50°	3185.0	3458.6	3767.0	3984.2	4003.2	3575.0	3268.0	3442.5	3196.1	3088.0
52.5°	3322.7	3692.6	4103.2	4355.5	4318.5	3796.3	3348.1	3488.1	3273.3	3178.2
55°	3442.5	3835.9	4291.1	4533.3	4479.1	3931.0	3434.6	3537.6	3383.3	3303.2
57.5°	3509.5	3847.9	4244.4	4455.9	4397.1	3904.8	3474.3	3574.2	3453.7	3390.8
58°	3519.2	3831.8	4202.8	4410.9	4351.0	3882.7	3473.9	3572.7	3458.2	3394.9
60°	3510.6	3727.4	4048.2	4233.5	4170.6	3744.2	3459.7	3544.6	3401.3	3347.8
62.5°	3430.9	3546.2	3781.2	3916.0	3898.0	3527.8	3401.3	3438.8	3228.0	3176.3
65°	3326.1	3299.1	3439.5	3535.0	3548.4	3365.8	3343.3	3209.7	3005.6	2932.7
67.5°	3198.7	3019.1	3018.7	3073.0	3095.5	3116.4	3222.4	2960.7	2685.1	2608.0
70°	2982.8	2587.5	2468.4	2532.4	2513.7	2690.8	3006.4	2611.1	2298.9	2208.6
72.5°	2586.7	2053.3	1862.7	1945.1	1898.0	2110.2	2630.6	2148.8	1900.9	1790.2
75°	2096.7	1535.9	1339.4	1415.1	1385.8	1600.7	2188.8	1560.6	1363.3	1321.0
77.5°	1628.0	1112.9	998.8	988.3	1010.0	1191.2	1605.6	1053.8	898.8	870.0
80°	1046.0	796.6	803.3	789.9	801.1	750.9	974.8	672.3	608.7	585.5
82.5°	688.4	555.1	661.9	610.9	580.2	505.0	639.4	440.3	373.6	360.9
85°	469.0	408.8	372.1	284.5	335.1	389.0	479.5	237.0	187.9	170.3
87.5°	211.8	142.2	104.5	64.4	101.8	117.6	232.9	27.7	21.4	22.1
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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