

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: P450843

Luminaire Tested: **GALN-SA1C-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450843
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-SA1C-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4873 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
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



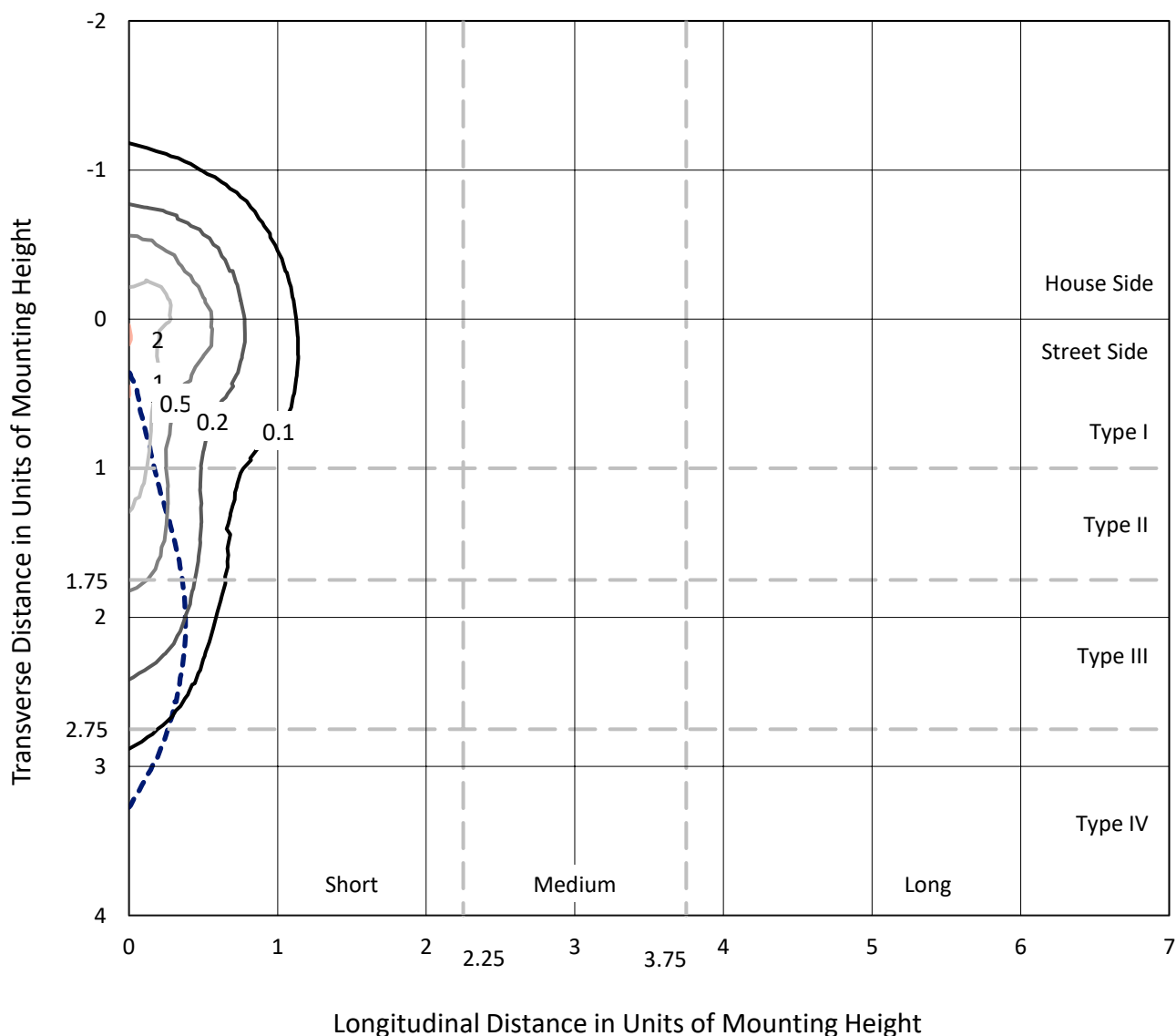
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

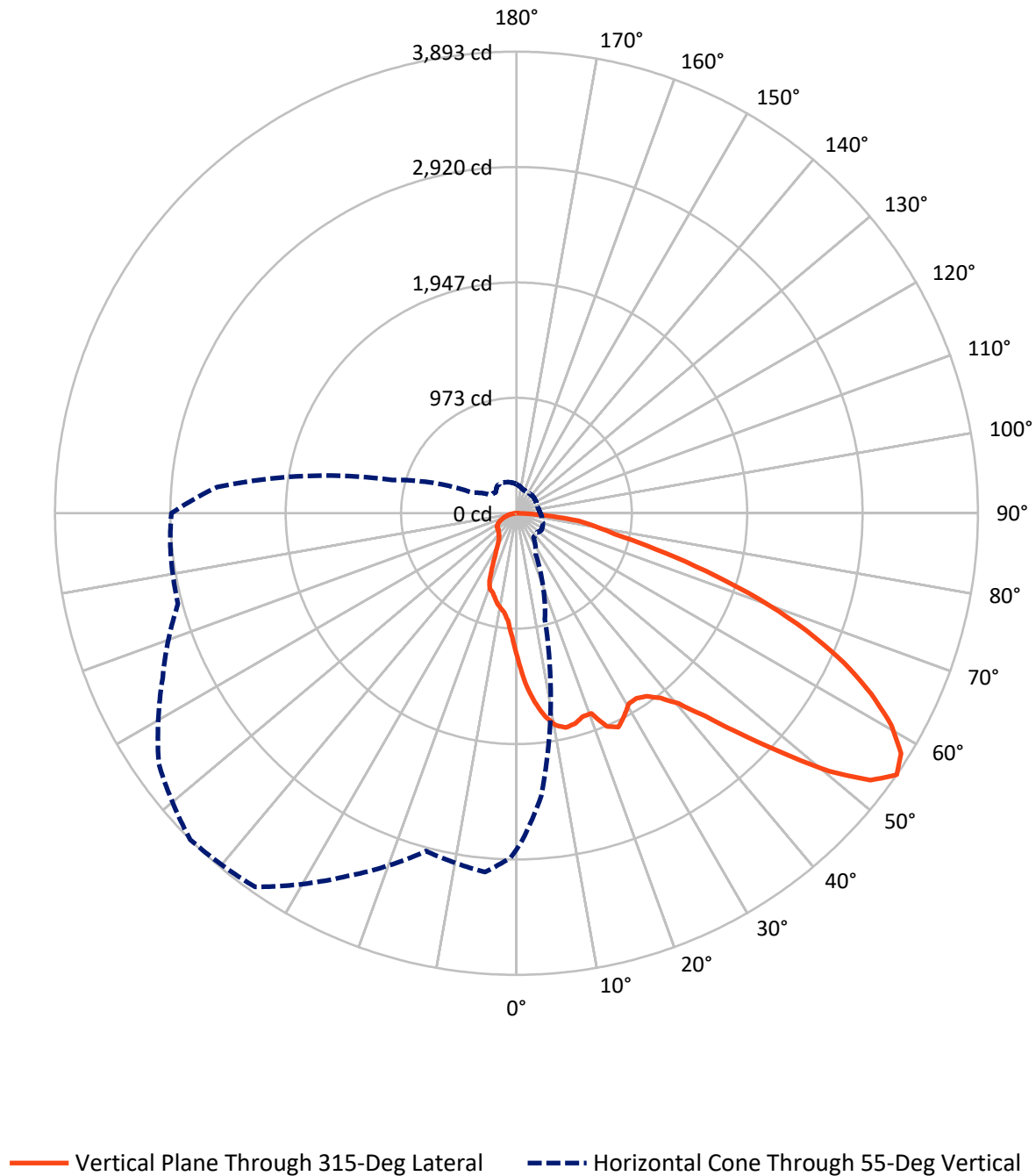


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc

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	1066.0	0.0	1066.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3807.1	0.0	3807.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	4873.0	0.0	4873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.1
10°-20°	275.0	5.6
20°-30°	475.0	9.7
30°-40°	552.1	11.3
40°-50°	770.2	15.8
50°-60°	1045.1	21.4
60°-70°	994.3	20.4
70°-80°	537.2	11.0
80°-90°	120.4	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°	4873.0	100.0
0°-180°	4873.0	100.0

Coefficient of Utilization



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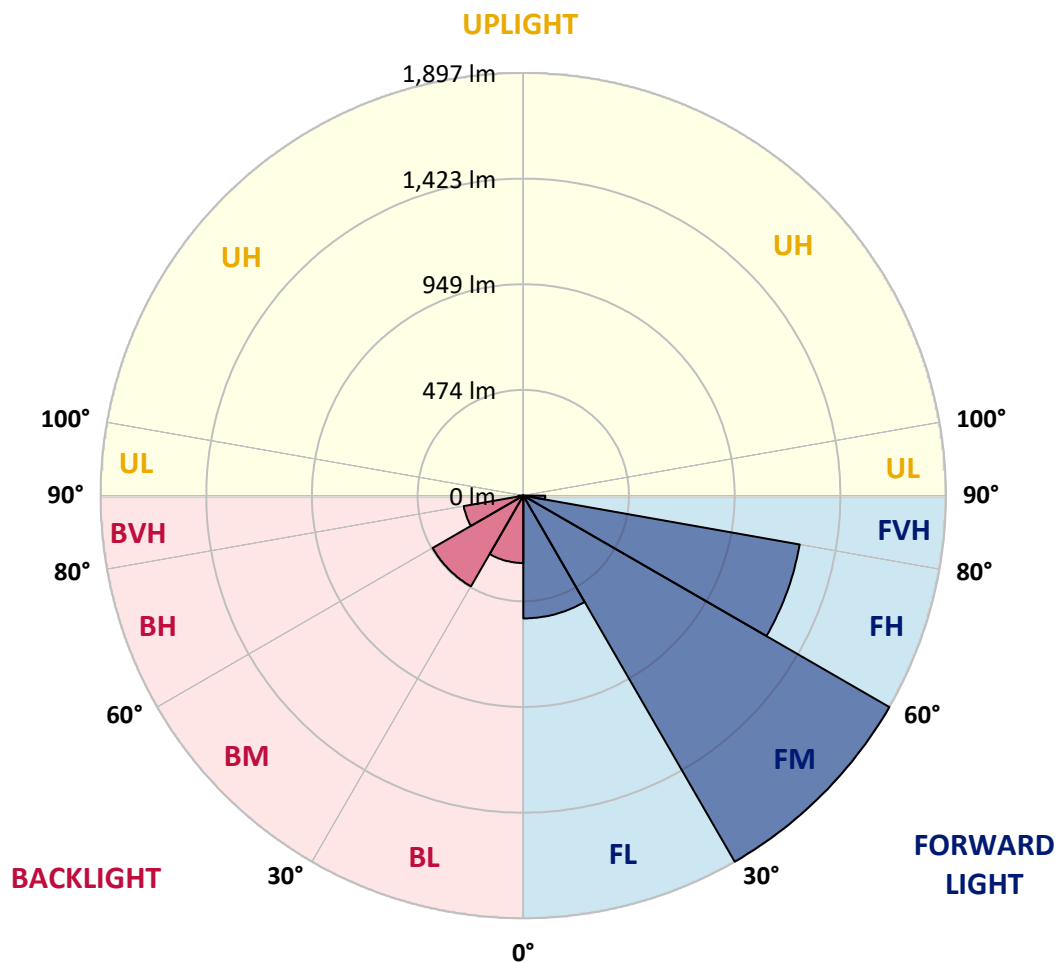
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.1	11.3			
FM	(30°-60°)	1897.4	38.9			
FH	(60°-80°)	1260.1	25.9			G1/1800
FVH	(80°-90°)	98.4	2.0			G1/100
BL	(0°-30°)	302.5	6.2	B1/500		
BM	(30°-60°)	470.0	9.6	B1/1000		
BH	(60°-80°)	271.4	5.6	B1/500		G1/500
BVH	(80°-90°)	22.0	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9
2.5°	1358.6	1353.5	1339.0	1301.1	1262.8	1223.9	1194.0	1156.7	1117.8	1096.9	1070.2
5°	1377.2	1371.5	1337.4	1251.9	1174.4	1093.1	1028.1	971.2	948.1	914.0	886.7
7.5°	1333.5	1331.0	1279.8	1157.0	1050.9	944.5	870.9	825.3	783.8	768.4	771.6
10°	1293.7	1283.4	1219.4	1059.0	935.2	848.7	796.0	751.3	722.1	714.3	715.9
12.5°	1260.5	1246.7	1171.2	993.1	884.7	815.6	748.4	701.8	675.1	682.5	707.6
15°	1253.8	1235.1	1150.9	970.6	857.1	768.0	694.4	640.7	620.8	636.9	677.0
17.5°	1297.5	1274.0	1185.6	978.0	830.7	719.5	629.1	567.7	551.0	576.7	629.1
20°	1438.0	1403.3	1294.0	1020.7	828.1	695.4	591.2	529.5	536.6	585.4	640.1
22.5°	1697.8	1645.7	1483.7	1083.1	841.7	689.3	583.5	551.3	590.2	631.7	667.7
25°	1749.2	1708.4	1517.7	1097.2	838.8	685.1	605.4	621.4	664.8	685.4	672.9
27.5°	1778.1	1731.5	1515.5	1027.1	750.0	621.4	578.7	605.4	616.3	596.4	562.3
30°	1845.7	1797.1	1553.7	953.5	617.6	461.0	404.1	393.2	400.6	404.4	392.2
32.5°	1938.6	1890.7	1625.8	905.3	534.0	381.3	325.3	309.9	306.4	302.2	297.4
35°	2058.8	1985.2	1696.5	874.4	499.6	352.7	301.2	289.3	284.5	278.7	273.6
37.5°	2181.0	2103.8	1785.9	842.0	476.8	332.7	285.2	279.7	271.3	265.2	257.8
40°	2310.8	2224.4	1867.2	813.7	454.6	319.9	273.6	272.9	262.0	254.9	246.3
42.5°	2423.4	2334.3	1939.8	796.3	437.5	306.4	266.5	268.4	257.2	246.6	235.3
45°	2512.7	2425.3	2007.0	796.3	423.7	292.9	265.2	263.9	252.7	239.5	226.6
47.5°	2591.2	2500.8	2072.6	816.6	415.0	281.6	258.2	260.4	248.8	232.1	219.6
50°	2651.9	2572.2	2161.0	848.1	406.4	272.6	249.2	261.4	245.6	228.3	213.8
52.5°	2729.4	2658.0	2267.4	891.2	399.0	262.7	241.1	261.4	245.3	228.6	212.8
55°	2836.8	2761.6	2395.7	926.8	387.1	253.3	234.0	254.0	244.3	227.0	210.3
57.5°	2912.0	2855.8	2486.4	950.6	370.0	241.4	227.6	246.9	240.2	220.9	202.5
58°	2915.6	2860.6	2499.6	956.1	365.9	239.2	226.0	243.7	238.2	218.3	200.0
60°	2875.0	2827.8	2502.1	948.4	342.1	227.9	217.6	230.5	227.9	203.2	186.1
62.5°	2727.8	2677.3	2398.3	885.7	310.6	214.1	204.8	212.8	207.0	182.0	166.2
65°	2518.5	2425.6	2184.8	787.3	288.1	199.3	187.4	188.1	182.0	164.0	150.1
67.5°	2239.8	2136.0	1849.8	663.5	271.0	182.9	166.9	165.2	157.8	146.3	135.0
70°	1896.8	1825.7	1503.3	539.8	252.0	164.9	143.7	142.7	138.2	129.6	119.6
72.5°	1537.3	1447.0	1213.9	432.1	228.9	147.6	122.2	124.1	118.3	112.2	103.2
75°	1134.5	1075.4	938.4	346.6	197.7	128.6	101.9	102.6	100.0	93.6	86.5
77.5°	747.1	729.5	671.3	227.6	152.1	102.2	83.3	83.9	82.0	76.2	68.8
80°	502.8	490.9	454.9	146.6	101.6	73.9	64.3	64.9	64.6	58.5	48.5
82.5°	309.9	304.8	293.2	99.0	70.4	53.0	42.4	44.4	47.9	41.2	33.1
85°	146.3	146.6	177.1	54.0	41.5	34.1	23.1	24.8	24.8	24.8	18.6
87.5°	19.0	19.9	24.4	22.8	15.1	12.9	8.4	7.1	6.1	8.0	5.8
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°	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9
2.5°	1060.9	1054.5	1040.7	1037.4	1035.5	1041.0	1026.5	1030.4	1023.9	1041.9	1039.0
5°	888.3	888.9	900.2	907.6	910.1	907.6	897.9	881.2	868.3	863.2	864.5
7.5°	765.5	776.7	796.0	817.5	837.1	842.9	837.5	805.6	770.9	749.1	742.0
10°	724.6	739.7	761.9	779.0	796.3	810.1	813.0	788.3	747.1	695.4	675.1
12.5°	726.9	747.5	768.7	774.1	772.5	778.0	775.4	771.2	744.2	678.3	644.6
15°	705.7	730.1	744.9	742.0	736.8	732.0	725.3	714.7	705.0	658.7	621.4
17.5°	656.8	681.9	694.1	695.1	695.1	693.8	677.4	673.5	672.2	649.7	626.9
20°	665.8	679.6	674.2	665.2	667.7	676.4	666.8	664.8	672.2	682.2	678.0
22.5°	670.9	666.1	625.0	585.1	576.1	603.1	608.6	630.1	660.0	696.0	719.5
25°	639.1	600.2	526.6	481.6	456.2	481.3	514.1	553.9	598.6	644.9	672.2
27.5°	534.3	504.7	452.0	411.5	389.3	393.2	421.1	457.5	498.9	530.1	550.1
30°	402.5	389.3	362.0	348.2	334.7	331.5	343.3	357.2	375.5	379.4	384.5
32.5°	296.4	294.5	296.1	291.6	289.0	288.7	285.2	288.4	290.3	292.6	288.1
35°	268.1	265.5	261.0	259.8	258.2	258.8	257.2	255.6	256.9	258.8	260.1
37.5°	253.7	249.8	243.4	241.1	241.1	242.1	239.5	238.9	241.1	247.2	250.4
40°	242.4	237.9	230.5	227.6	229.5	232.1	228.6	227.3	232.8	239.2	244.3
42.5°	231.8	228.3	221.2	218.0	219.6	224.4	219.3	218.3	225.4	232.4	238.5
45°	222.8	219.3	212.8	211.2	211.9	216.4	212.8	212.8	219.6	227.3	232.8
47.5°	215.7	211.2	207.0	205.8	206.4	209.0	208.3	208.3	214.8	222.8	228.3
50°	208.6	204.8	199.3	200.0	201.6	205.1	204.8	205.8	212.2	222.1	227.9
52.5°	205.4	199.6	193.5	194.2	199.0	203.2	201.9	202.9	210.3	228.9	237.3
55°	201.9	194.2	187.1	188.1	193.5	199.6	198.0	199.3	208.0	233.4	245.0
57.5°	195.1	186.1	178.4	179.1	187.1	193.5	191.0	192.6	202.9	228.6	240.8
58°	192.2	184.5	177.1	177.5	185.2	192.2	189.4	190.6	201.3	227.3	238.9
60°	180.0	175.5	169.1	169.4	176.8	182.9	181.3	182.6	192.9	218.0	226.6
62.5°	163.3	160.7	159.1	159.1	163.6	169.4	171.0	172.6	182.0	197.1	204.8
65°	145.3	145.3	145.6	145.6	148.5	155.9	156.9	161.1	169.7	177.1	182.9
67.5°	133.1	132.5	133.1	131.5	132.8	137.3	142.1	146.0	155.0	160.1	162.0
70°	117.3	117.0	117.3	115.1	116.7	120.6	123.8	130.2	139.5	143.4	144.3
72.5°	101.9	101.9	102.6	100.9	100.9	105.1	107.4	114.4	123.1	125.4	125.7
75°	85.8	86.8	86.8	84.6	85.2	87.8	90.7	96.4	104.5	106.1	106.1
77.5°	68.2	71.7	71.7	69.4	70.4	70.7	74.6	77.5	83.6	84.2	81.7
80°	49.5	53.0	55.9	54.0	55.6	53.7	55.9	57.9	64.0	61.1	56.9
82.5°	35.4	37.9	40.2	40.5	38.9	35.4	38.3	38.6	41.5	37.6	35.4
85°	19.6	21.9	24.8	23.5	20.9	18.6	19.6	20.3	19.9	19.0	17.7
87.5°	5.1	5.5	6.1	4.5	4.2	3.5	4.8	4.8	5.5	5.8	5.5
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°	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9
2.5°	1041.3	1055.4	1086.0	1109.1	1137.4	1171.8	1212.3	1253.2	1297.2	1311.0	1330.3
5°	861.6	896.9	911.7	953.8	995.6	1058.3	1125.2	1202.7	1287.6	1328.4	1367.6
7.5°	736.2	755.2	770.6	801.5	851.6	927.8	1011.7	1108.5	1228.7	1288.2	1345.7
10°	668.7	670.6	689.6	727.8	771.6	838.8	918.2	1026.5	1160.6	1232.9	1300.4
12.5°	624.0	615.6	636.2	676.1	725.6	787.6	860.6	963.8	1111.4	1185.6	1267.3
15°	584.8	571.6	587.0	627.9	676.7	749.7	828.1	937.5	1092.1	1178.6	1269.2
17.5°	585.7	549.4	554.9	589.3	637.8	712.1	807.3	936.5	1121.3	1221.0	1328.4
20°	658.1	599.9	575.1	581.6	628.5	709.5	816.9	981.5	1217.5	1362.8	1477.5
22.5°	729.1	694.1	654.2	641.0	666.8	751.6	878.3	1087.9	1426.4	1645.4	1852.7
25°	704.4	734.3	724.3	705.7	711.4	781.9	920.1	1175.4	1588.8	1835.4	2030.2
27.5°	563.6	617.9	628.8	628.5	630.8	688.6	827.5	1116.5	1609.0	1871.7	2057.8
30°	396.1	400.9	406.7	417.9	428.2	480.0	647.5	980.2	1600.0	1888.1	2074.5
32.5°	285.8	292.2	300.3	315.7	340.1	406.0	566.5	936.8	1647.6	1955.9	2123.4
35°	261.4	268.8	276.5	294.2	317.3	378.4	534.3	918.8	1725.7	2065.9	2211.2
37.5°	253.7	262.0	268.8	281.6	300.3	358.5	505.1	906.6	1805.8	2182.2	2328.8
40°	248.2	257.8	263.3	273.6	286.4	340.1	479.0	896.9	1883.3	2288.7	2423.4
42.5°	243.4	253.3	260.4	267.8	278.4	323.7	455.9	887.3	1950.5	2391.9	2517.6
45°	237.6	250.1	259.1	264.9	274.2	309.9	438.2	879.6	2027.0	2483.5	2612.7
47.5°	232.8	246.6	257.8	264.6	268.1	300.3	424.0	890.2	2118.9	2579.3	2701.1
50°	233.1	246.3	260.4	271.0	261.7	292.2	415.4	932.3	2238.5	2693.1	2770.9
52.5°	243.4	259.4	270.7	273.3	252.7	282.6	410.9	1005.9	2380.0	2793.7	2841.3
55°	254.9	271.7	283.9	282.3	247.9	270.4	409.9	1084.4	2534.9	2911.1	2932.9
57.5°	250.8	275.2	293.8	285.5	248.2	258.5	405.7	1147.7	2664.5	2998.8	3023.6
58°	249.5	273.9	295.1	284.8	247.2	254.9	404.8	1153.2	2682.5	3004.9	3036.4
60°	236.9	262.7	294.2	280.0	241.8	245.3	394.1	1170.9	2677.7	2973.4	3044.2
62.5°	214.1	235.3	272.0	256.5	225.0	232.4	370.4	1149.0	2547.1	2821.7	2931.3
65°	188.4	204.1	228.6	225.7	201.3	219.3	337.9	1062.5	2285.8	2575.4	2690.8
67.5°	169.1	182.0	197.4	193.2	181.0	201.6	302.8	916.2	1992.6	2279.7	2425.0
70°	149.5	159.5	167.2	164.3	160.4	184.2	271.7	743.6	1711.6	1998.7	2139.5
72.5°	129.6	138.9	145.3	141.1	138.9	165.9	246.3	577.1	1351.8	1648.9	1829.9
75°	108.3	117.7	122.2	117.3	116.1	146.3	208.6	431.1	1014.3	1271.2	1427.4
77.5°	83.9	93.9	99.7	98.1	98.7	120.2	168.5	295.1	725.3	866.4	1031.0
80°	58.8	69.8	73.6	72.0	76.5	91.6	118.9	187.4	500.2	562.3	678.3
82.5°	36.3	46.6	47.3	48.9	52.1	67.8	89.7	114.1	314.1	324.7	408.9
85°	18.3	22.2	23.8	26.4	29.3	41.5	51.1	70.7	202.2	153.0	228.6
87.5°	6.1	6.4	7.7	9.6	11.9	17.0	21.9	28.9	50.2	27.6	70.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9
2.5°	1369.2	1396.5	1416.5	1434.8	1417.1	1415.5	1398.1	1370.2	1358.6	1358.6
5°	1449.9	1513.9	1565.6	1598.7	1584.6	1550.5	1494.3	1422.6	1384.0	1377.2
7.5°	1472.1	1598.4	1694.6	1728.6	1704.8	1629.6	1521.9	1401.0	1345.7	1333.5
10°	1458.6	1622.9	1764.0	1818.0	1784.9	1671.1	1524.2	1376.0	1307.8	1293.7
12.5°	1444.4	1626.1	1776.9	1855.0	1833.4	1704.5	1540.6	1359.6	1280.8	1260.5
15°	1454.7	1627.4	1761.1	1841.8	1855.6	1744.7	1567.6	1371.5	1275.3	1253.8
17.5°	1519.7	1651.8	1738.6	1803.9	1852.4	1799.4	1644.4	1428.4	1324.2	1297.5
20°	1655.3	1710.3	1751.5	1801.9	1880.0	1910.9	1801.6	1584.6	1461.5	1438.0
22.5°	2048.2	2038.2	1954.0	1953.0	2066.2	2190.0	2182.6	1902.2	1717.1	1697.8
25°	2195.4	2149.1	2027.3	1997.7	2047.5	2238.5	2210.9	1967.2	1796.1	1749.2
27.5°	2137.9	2023.1	1943.1	1936.3	1919.9	2100.3	2166.8	1993.5	1823.8	1778.1
30°	2134.3	1965.6	1851.1	1864.6	1880.4	2052.7	2191.2	2076.2	1894.5	1845.7
32.5°	2143.0	1973.6	1857.9	1860.4	1907.4	2059.8	2218.3	2166.2	1987.4	1938.6
35°	2178.1	2019.3	1900.9	1894.8	1968.1	2106.1	2264.2	2307.6	2114.4	2058.8
37.5°	2234.6	2110.2	1979.7	1978.1	2084.5	2189.6	2321.5	2450.4	2240.8	2181.0
40°	2317.9	2216.6	2119.9	2111.2	2242.7	2325.6	2395.7	2602.4	2387.7	2310.8
42.5°	2418.5	2344.3	2304.7	2339.1	2465.5	2478.3	2511.4	2742.9	2512.7	2423.4
45°	2511.8	2508.2	2563.2	2654.5	2728.1	2651.0	2632.3	2837.1	2609.8	2512.7
47.5°	2622.7	2718.5	2884.4	3018.1	3095.3	2851.9	2735.5	2898.5	2680.6	2591.2
50°	2735.2	2970.2	3235.1	3421.6	3438.0	3070.2	2806.6	2956.4	2744.8	2651.9
52.5°	2853.5	3171.1	3523.8	3740.5	3708.7	3260.2	2875.4	2995.6	2811.1	2729.4
55°	2956.4	3294.3	3685.2	3893.2	3846.6	3375.9	2949.6	3038.0	2905.6	2836.8
57.5°	3013.9	3304.6	3645.0	3826.6	3776.2	3353.4	2983.7	3069.5	2966.0	2912.0
58°	3022.3	3290.7	3609.3	3788.1	3736.6	3334.5	2983.4	3068.3	2969.9	2915.6
60°	3014.9	3201.0	3476.5	3635.7	3581.7	3215.5	2971.2	3044.2	2921.0	2875.0
62.5°	2946.4	3045.4	3247.3	3363.1	3347.6	3029.7	2921.0	2953.2	2772.2	2727.8
65°	2856.4	2833.3	2953.8	3035.8	3047.4	2890.5	2871.2	2756.4	2581.2	2518.5
67.5°	2747.1	2592.8	2592.5	2639.1	2658.4	2676.4	2767.4	2542.6	2306.0	2239.8
70°	2561.6	2222.1	2119.9	2174.9	2158.8	2310.8	2581.9	2242.4	1974.2	1896.8
72.5°	2221.5	1763.4	1599.7	1670.4	1629.9	1812.2	2259.1	1845.3	1632.5	1537.3
75°	1800.6	1319.1	1150.3	1215.2	1190.1	1374.7	1879.7	1340.3	1170.9	1134.5
77.5°	1398.1	955.8	857.7	848.7	867.4	1023.0	1378.9	905.0	771.9	747.1
80°	898.2	684.1	689.9	678.3	688.0	644.9	837.1	577.4	522.7	502.8
82.5°	591.2	476.8	568.4	524.7	498.3	433.7	549.1	378.1	320.8	309.9
85°	402.8	351.1	319.6	244.3	287.7	334.0	411.8	203.5	161.4	146.3
87.5°	182.0	122.2	89.7	55.3	87.4	100.9	200.0	23.8	18.3	19.0
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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