

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: P450698

Luminaire Tested: **GALN-SA1C-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450698
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-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 5584 lumens
Efficiency: N/A
Efficacy: 98.0 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

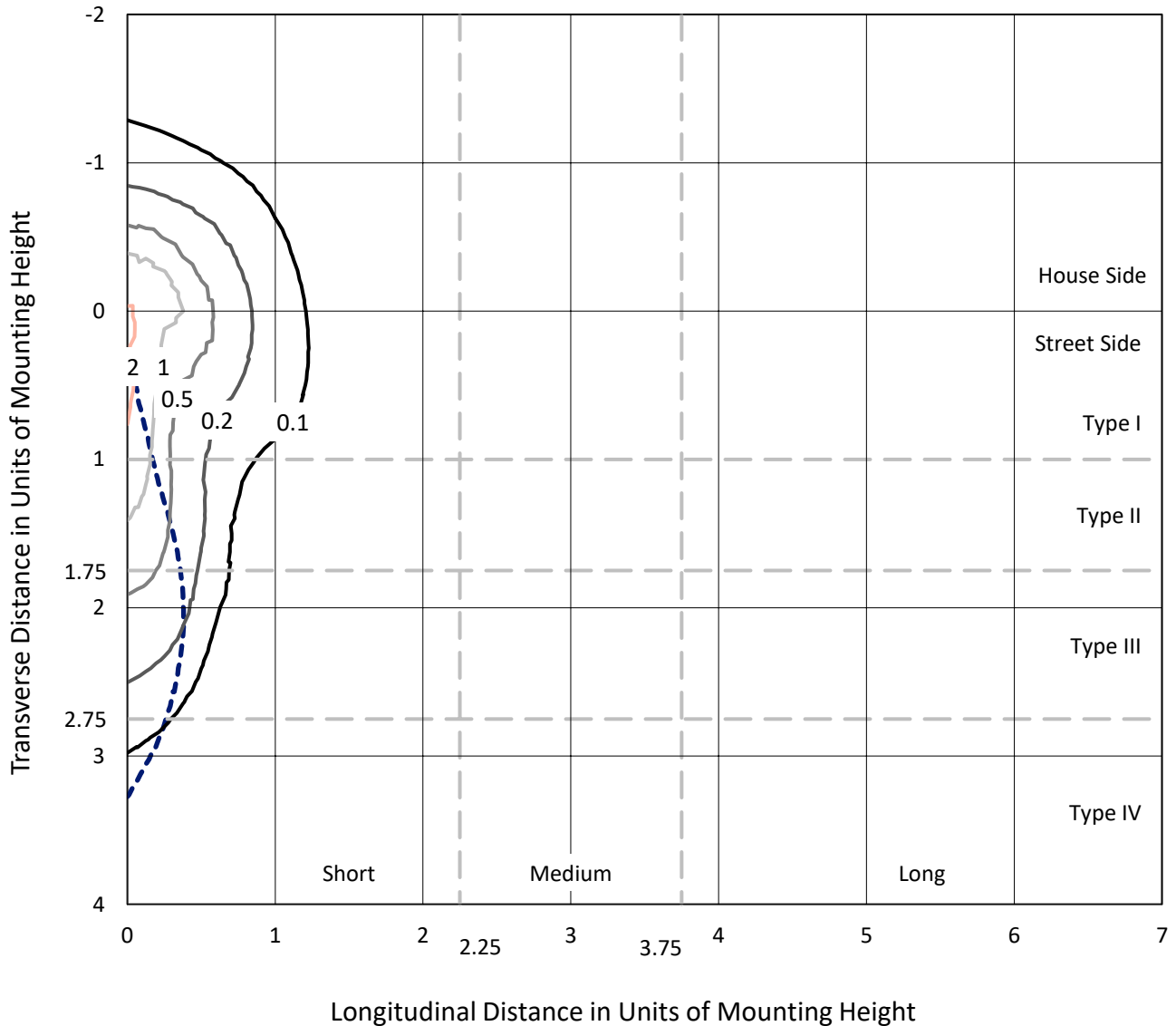
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

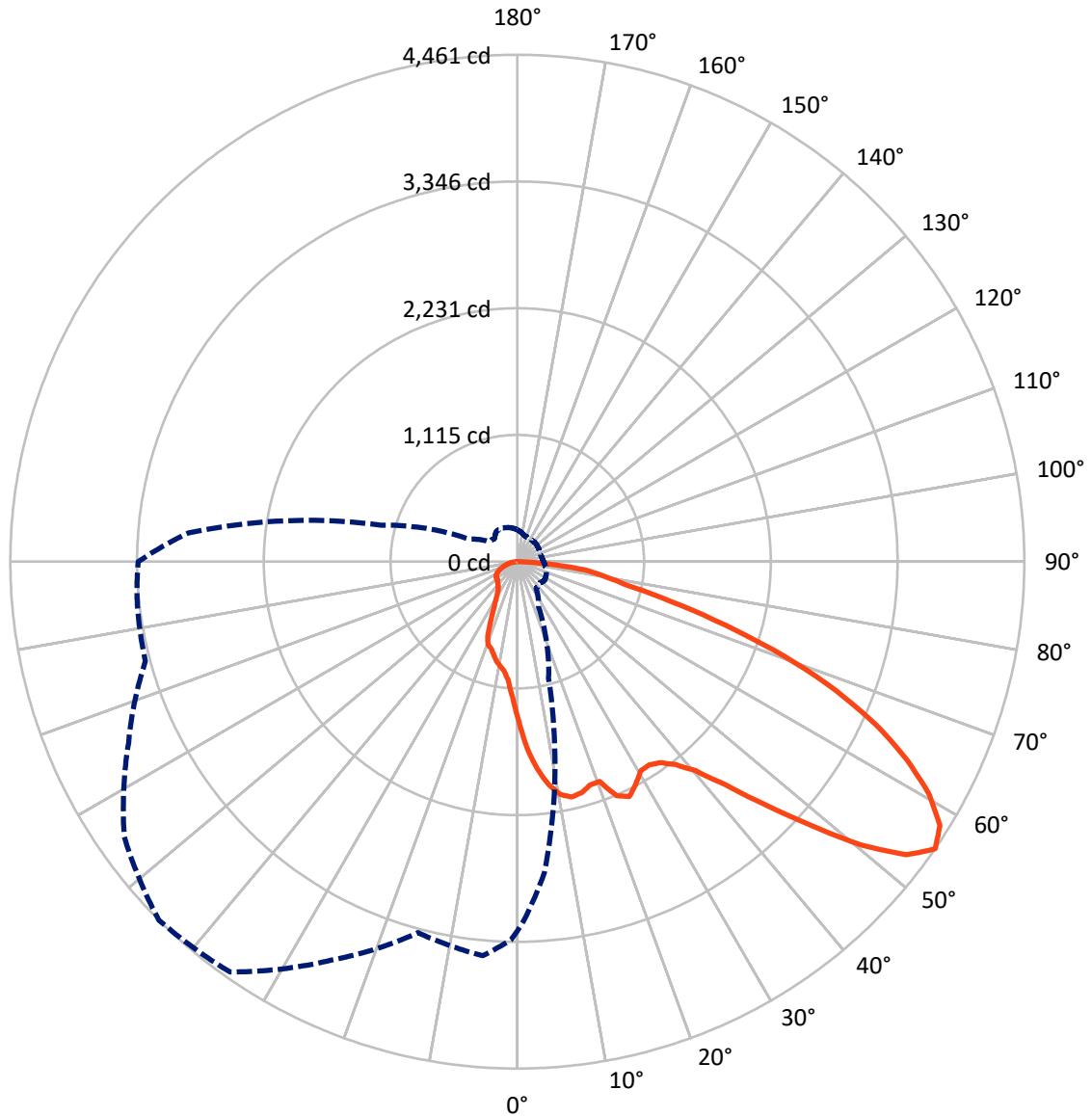
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1221.5	0.0	1221.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4362.5	0.0	4362.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	5584.0	0.0	5584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	2.1
10°-20°	315.1	5.6
20°-30°	544.3	9.7
30°-40°	632.6	11.3
40°-50°	882.6	15.8
50°-60°	1197.6	21.4
60°-70°	1139.4	20.4
70°-80°	615.5	11.0
80°-90°	138.0	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°	5584.0	100.0
0°-180°	5584.0	100.0

Coefficient of Utilization



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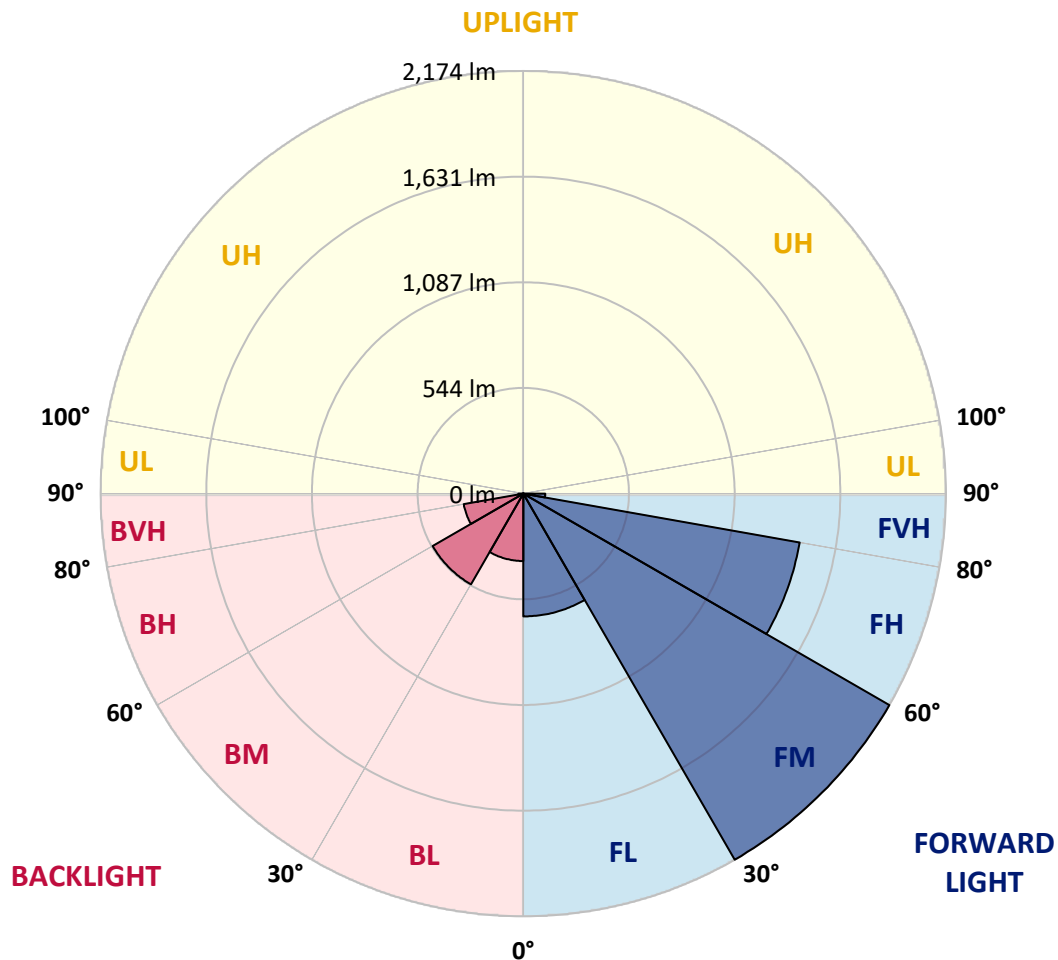
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.6	11.3			
FM	(30°-60°)	2174.3	38.9			
FH	(60°-80°)	1443.9	25.9			G1/1800
FVH	(80°-90°)	112.7	2.0			G2/225
BL	(0°-30°)	346.7	6.2	B1/500		
BM	(30°-60°)	538.6	9.6	B1/1000		
BH	(60°-80°)	311.0	5.6	B1/500		G1/500
BVH	(80°-90°)	25.2	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°	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4
2.5°	1556.8	1550.9	1534.4	1490.9	1447.0	1402.5	1368.2	1325.5	1280.9	1257.0	1226.4
5°	1578.2	1571.6	1532.5	1434.5	1345.7	1252.5	1178.1	1112.9	1086.4	1047.3	1016.0
7.5°	1528.1	1525.1	1466.6	1325.8	1204.3	1082.3	998.0	945.7	898.1	880.5	884.1
10°	1482.4	1470.6	1397.3	1213.5	1071.7	972.6	912.1	860.9	827.4	818.6	820.4
12.5°	1444.5	1428.6	1342.1	1138.0	1013.8	934.6	857.6	804.2	773.6	782.1	810.8
15°	1436.7	1415.4	1318.8	1112.2	982.1	880.1	795.7	734.2	711.4	729.8	775.8
17.5°	1486.8	1459.9	1358.6	1120.7	951.9	824.5	720.9	650.6	631.4	660.9	720.9
20°	1647.8	1608.0	1482.8	1169.6	949.0	796.8	677.5	606.7	614.8	670.8	733.5
22.5°	1945.5	1885.8	1700.1	1241.1	964.5	789.8	668.6	631.8	676.4	723.9	765.2
25°	2004.4	1957.6	1739.2	1257.3	961.1	785.0	693.7	712.1	761.8	785.4	771.0
27.5°	2037.6	1984.2	1736.6	1177.0	859.5	712.1	663.1	693.7	706.2	683.4	644.3
30°	2114.9	2059.3	1780.4	1092.7	707.7	528.3	463.1	450.5	459.0	463.4	449.4
32.5°	2221.4	2166.5	1863.0	1037.4	611.9	436.9	372.8	355.1	351.1	346.3	340.8
35°	2359.2	2274.8	1944.0	1002.0	572.5	404.1	345.2	331.6	326.0	319.4	313.5
37.5°	2499.2	2410.8	2046.4	964.8	546.3	381.3	326.8	320.5	310.9	303.9	295.5
40°	2648.0	2548.9	2139.6	932.4	520.9	366.6	313.5	312.8	300.2	292.1	282.2
42.5°	2776.9	2674.9	2222.9	912.5	501.4	351.1	305.4	307.6	294.7	282.6	269.7
45°	2879.4	2779.2	2299.9	912.5	485.5	335.6	303.9	302.5	289.6	274.5	259.7
47.5°	2969.2	2865.7	2375.0	935.7	475.6	322.7	295.8	298.4	285.1	266.0	251.6
50°	3038.9	2947.5	2476.3	971.8	465.6	312.4	285.5	299.5	281.5	261.6	245.0
52.5°	3127.7	3045.9	2598.3	1021.2	457.2	301.0	276.3	299.5	281.1	261.9	243.9
55°	3250.7	3164.5	2745.3	1062.1	443.5	290.3	268.2	291.0	280.0	260.1	240.9
57.5°	3336.9	3272.4	2849.1	1089.3	424.0	276.7	260.8	282.9	275.2	253.1	232.1
58°	3341.0	3278.0	2864.3	1095.6	419.2	274.1	259.0	279.2	273.0	250.1	229.1
60°	3294.5	3240.4	2867.2	1086.8	392.0	261.2	249.4	264.1	261.2	232.8	213.3
62.5°	3125.8	3068.0	2748.2	1014.9	355.9	245.3	234.7	243.9	237.2	208.5	190.5
65°	2886.0	2779.5	2503.6	902.2	330.1	228.4	214.8	215.5	208.5	187.9	172.0
67.5°	2566.6	2447.6	2119.7	760.4	310.6	209.6	191.2	189.4	180.9	167.6	154.7
70°	2173.5	2092.1	1722.6	618.5	288.8	189.0	164.7	163.6	158.4	148.5	137.0
72.5°	1761.7	1658.1	1391.1	495.1	262.3	169.1	140.0	142.2	135.6	128.6	118.3
75°	1300.1	1232.3	1075.3	397.1	226.6	147.4	116.8	117.5	114.6	107.2	99.1
77.5°	856.1	835.9	769.2	260.8	174.2	117.1	95.4	96.2	93.9	87.3	78.8
80°	576.2	562.5	521.3	168.0	116.4	84.7	73.7	74.4	74.0	67.0	55.6
82.5°	355.1	349.2	336.0	113.5	80.7	60.8	48.6	50.8	54.9	47.2	37.9
85°	167.6	168.0	203.0	61.9	47.5	39.0	26.5	28.4	28.4	28.4	21.4
87.5°	21.7	22.8	28.0	26.2	17.3	14.7	9.6	8.1	7.0	9.2	6.6
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°	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4
2.5°	1215.7	1208.3	1192.5	1188.8	1186.6	1192.9	1176.3	1180.7	1173.3	1194.0	1190.6
5°	1017.9	1018.6	1031.5	1040.0	1042.9	1040.0	1028.9	1009.8	995.0	989.1	990.6
7.5°	877.1	890.0	912.1	936.8	959.3	965.9	959.7	923.2	883.4	858.4	850.3
10°	830.4	847.7	873.1	892.6	912.5	928.3	931.7	903.3	856.1	796.8	773.6
12.5°	832.9	856.5	880.8	887.1	885.2	891.5	888.6	883.8	852.8	777.3	738.6
15°	808.6	836.6	853.6	850.3	844.4	838.8	831.1	818.9	807.9	754.8	712.1
17.5°	752.6	781.4	795.4	796.5	796.5	795.0	776.2	771.8	770.3	744.5	718.4
20°	762.9	778.8	772.5	762.2	765.2	775.1	764.0	761.8	770.3	781.7	776.9
22.5°	768.8	763.3	716.2	670.5	660.2	691.1	697.4	722.0	756.3	797.6	824.5
25°	732.4	687.8	603.4	551.9	522.7	551.5	589.1	634.7	685.9	739.0	770.3
27.5°	612.3	578.4	518.0	471.5	446.1	450.5	482.6	524.2	571.7	607.5	630.3
30°	461.2	446.1	414.8	399.0	383.5	379.8	393.4	409.3	430.3	434.7	440.6
32.5°	339.7	337.4	339.3	334.1	331.2	330.8	326.8	330.4	332.7	335.2	330.1
35°	307.2	304.3	299.1	297.7	295.8	296.6	294.7	292.9	294.3	296.6	298.0
37.5°	290.7	286.2	278.9	276.3	276.3	277.4	274.5	273.7	276.3	283.3	287.0
40°	277.8	272.6	264.1	260.8	263.0	266.0	261.9	260.5	266.7	274.1	280.0
42.5°	265.6	261.6	253.5	249.8	251.6	257.1	251.2	250.1	258.2	266.3	273.3
45°	255.3	251.2	243.9	242.0	242.8	247.9	243.9	243.9	251.6	260.5	266.7
47.5°	247.2	242.0	237.2	235.8	236.5	239.5	238.7	238.7	246.1	255.3	261.6
50°	239.1	234.7	228.4	229.1	231.0	235.0	234.7	235.8	243.1	254.6	261.2
52.5°	235.4	228.8	221.8	222.5	228.0	232.8	231.4	232.5	240.9	262.3	271.9
55°	231.4	222.5	214.4	215.5	221.8	228.8	226.9	228.4	238.4	267.5	280.7
57.5°	223.6	213.3	204.5	205.2	214.4	221.8	218.8	220.7	232.5	261.9	275.9
58°	220.3	211.5	203.0	203.4	212.2	220.3	217.0	218.5	230.6	260.5	273.7
60°	206.3	201.1	193.8	194.1	202.6	209.6	207.8	209.2	221.0	249.8	259.7
62.5°	187.1	184.2	182.4	182.4	187.5	194.1	196.0	197.8	208.5	225.8	234.7
65°	166.5	166.5	166.9	166.9	170.2	178.7	179.8	184.6	194.5	203.0	209.6
67.5°	152.5	151.8	152.5	150.7	152.1	157.3	162.8	167.3	177.6	183.5	185.7
70°	134.5	134.1	134.5	131.9	133.7	138.1	141.8	149.2	159.9	164.3	165.4
72.5°	116.8	116.8	117.5	115.7	115.7	120.5	123.0	131.1	141.1	143.7	144.0
75°	98.4	99.5	99.5	96.9	97.6	100.6	103.9	110.5	119.7	121.6	121.6
77.5°	78.1	82.2	82.2	79.6	80.7	81.0	85.5	88.8	95.8	96.5	93.6
80°	56.7	60.8	64.1	61.9	63.7	61.5	64.1	66.3	73.3	70.0	65.2
82.5°	40.5	43.5	46.0	46.4	44.6	40.5	43.8	44.2	47.5	43.1	40.5
85°	22.5	25.1	28.4	26.9	23.9	21.4	22.5	23.2	22.8	21.7	20.3
87.5°	5.9	6.3	7.0	5.2	4.8	4.1	5.5	5.5	6.3	6.6	6.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4
2.5°	1193.2	1209.4	1244.4	1271.0	1303.4	1342.8	1389.2	1436.0	1486.5	1502.3	1524.4
5°	987.3	1027.8	1044.8	1093.0	1140.9	1212.7	1289.4	1378.2	1475.4	1522.2	1567.1
7.5°	843.6	865.4	883.0	918.4	975.9	1063.2	1159.3	1270.2	1408.0	1476.1	1542.1
10°	766.3	768.5	790.2	834.0	884.1	961.1	1052.1	1176.3	1329.9	1412.8	1490.1
12.5°	715.1	705.5	729.0	774.7	831.5	902.6	986.2	1104.4	1273.5	1358.6	1452.2
15°	670.1	655.0	672.7	719.5	775.5	859.1	949.0	1074.2	1251.4	1350.5	1454.4
17.5°	671.2	629.6	635.8	675.3	730.9	816.0	925.0	1073.1	1285.0	1399.2	1522.2
20°	754.1	687.4	659.1	666.4	720.2	813.0	936.1	1124.7	1395.1	1561.6	1693.1
22.5°	835.5	795.4	749.7	734.6	764.0	861.3	1006.4	1246.6	1634.6	1885.4	2123.0
25°	807.1	841.4	830.0	808.6	815.3	895.9	1054.3	1346.8	1820.6	2103.2	2326.4
27.5°	645.8	708.1	720.6	720.2	722.8	789.1	948.2	1279.4	1843.8	2144.8	2358.1
30°	453.9	459.4	466.0	478.9	490.7	550.0	741.9	1123.2	1833.5	2163.6	2377.2
32.5°	327.5	334.9	344.1	361.8	389.8	465.3	649.1	1073.5	1888.0	2241.3	2433.2
35°	299.5	308.0	316.8	337.1	363.6	433.6	612.3	1052.9	1977.5	2367.3	2533.8
37.5°	290.7	300.2	308.0	322.7	344.1	410.8	578.7	1038.9	2069.3	2500.6	2668.6
40°	284.4	295.5	301.7	313.5	328.2	389.8	548.9	1027.8	2158.0	2622.6	2776.9
42.5°	278.9	290.3	298.4	306.9	319.0	371.0	522.4	1016.8	2235.0	2740.8	2884.9
45°	272.2	286.6	296.9	303.6	314.2	355.1	502.1	1007.9	2322.7	2845.8	2993.9
47.5°	266.7	282.6	295.5	303.2	307.2	344.1	485.9	1020.1	2428.1	2955.6	3095.2
50°	267.1	282.2	298.4	310.6	299.9	334.9	476.0	1068.3	2565.1	3086.0	3175.2
52.5°	278.9	297.3	310.2	313.1	289.6	323.8	470.8	1152.7	2727.2	3201.3	3255.9
55°	292.1	311.3	325.3	323.4	284.0	309.8	469.7	1242.6	2904.8	3335.8	3360.8
57.5°	287.3	315.3	336.7	327.1	284.4	296.2	464.9	1315.2	3053.2	3436.4	3464.7
58°	285.9	313.9	338.2	326.4	283.3	292.1	463.8	1321.4	3073.9	3443.4	3479.5
60°	271.5	301.0	337.1	320.9	277.0	281.1	451.6	1341.7	3068.3	3407.3	3488.3
62.5°	245.3	269.7	311.7	294.0	257.9	266.3	424.4	1316.6	2918.8	3233.4	3359.0
65°	215.9	233.9	261.9	258.6	230.6	251.2	387.2	1217.5	2619.3	2951.2	3083.4
67.5°	193.8	208.5	226.2	221.4	207.4	231.0	347.0	1049.9	2283.3	2612.3	2778.8
70°	171.3	182.7	191.6	188.2	183.8	211.1	311.3	852.1	1961.3	2290.3	2451.7
72.5°	148.5	159.1	166.5	161.7	159.1	190.1	282.2	661.3	1549.1	1889.5	2096.9
75°	124.1	134.8	140.0	134.5	133.0	167.6	239.1	494.0	1162.3	1456.6	1635.7
77.5°	96.2	107.6	114.2	112.4	113.1	137.8	193.0	338.2	831.1	992.8	1181.4
80°	67.4	79.9	84.4	82.5	87.7	105.0	136.3	214.8	573.2	644.3	777.3
82.5°	41.6	53.4	54.2	56.0	59.7	77.7	102.8	130.8	359.9	372.1	468.6
85°	21.0	25.4	27.3	30.2	33.5	47.5	58.6	81.0	231.7	175.4	261.9
87.5°	7.0	7.4	8.8	11.1	13.6	19.5	25.1	33.2	57.5	31.7	81.0
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°	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4	1401.4
2.5°	1569.0	1600.3	1623.1	1644.1	1623.9	1622.0	1602.1	1570.1	1556.8	1556.8
5°	1661.5	1734.8	1794.1	1832.0	1815.8	1776.8	1712.3	1630.1	1585.9	1578.2
7.5°	1686.9	1831.6	1941.8	1980.8	1953.6	1867.4	1744.0	1605.5	1542.1	1528.1
10°	1671.4	1859.6	2021.4	2083.3	2045.3	1914.9	1746.5	1576.7	1498.6	1482.4
12.5°	1655.2	1863.3	2036.1	2125.6	2100.9	1953.2	1765.3	1557.9	1467.7	1444.5
15°	1667.0	1864.8	2018.1	2110.5	2126.4	1999.3	1796.3	1571.6	1461.4	1436.7
17.5°	1741.4	1892.8	1992.3	2067.1	2122.7	2061.9	1884.3	1636.8	1517.4	1486.8
20°	1896.9	1959.8	2007.0	2064.8	2154.4	2189.7	2064.5	1815.8	1674.7	1647.8
22.5°	2347.0	2335.6	2239.1	2238.0	2367.7	2509.5	2501.0	2179.8	1967.6	1945.5
25°	2515.8	2462.7	2323.1	2289.2	2346.3	2565.1	2533.4	2254.2	2058.2	2004.4
27.5°	2449.8	2318.3	2226.6	2218.8	2200.0	2406.7	2483.0	2284.4	2089.9	2037.6
30°	2445.8	2252.4	2121.2	2136.7	2154.7	2352.2	2511.0	2379.1	2170.9	2114.9
32.5°	2455.7	2261.6	2128.9	2131.9	2185.7	2360.3	2541.9	2482.2	2277.4	2221.4
35°	2495.9	2313.9	2178.3	2171.3	2255.3	2413.3	2594.6	2644.3	2422.9	2359.2
37.5°	2560.7	2418.1	2268.6	2266.7	2388.7	2509.1	2660.2	2807.9	2567.7	2499.2
40°	2656.1	2540.1	2429.2	2419.2	2569.9	2665.0	2745.3	2982.1	2736.1	2648.0
42.5°	2771.4	2686.3	2641.0	2680.4	2825.2	2839.9	2877.9	3143.1	2879.4	2776.9
45°	2878.3	2874.2	2937.2	3041.8	3126.2	3037.8	3016.4	3251.1	2990.6	2879.4
47.5°	3005.3	3115.1	3305.2	3458.5	3546.9	3268.0	3134.7	3321.4	3071.7	2969.2
50°	3134.3	3403.6	3707.1	3920.8	3939.6	3518.2	3216.1	3387.7	3145.3	3038.9
52.5°	3269.9	3633.8	4038.0	4286.2	4249.8	3735.9	3294.9	3432.7	3221.2	3127.7
55°	3387.7	3774.9	4222.9	4461.2	4407.8	3868.5	3380.0	3481.3	3329.5	3250.7
57.5°	3453.7	3786.7	4176.8	4385.0	4327.1	3842.7	3419.1	3517.4	3398.8	3336.9
58°	3463.3	3770.9	4135.9	4340.8	4281.8	3821.0	3418.7	3515.9	3403.2	3341.0
60°	3454.8	3668.1	3983.8	4166.2	4104.3	3684.7	3404.7	3488.3	3347.2	3294.5
62.5°	3376.3	3489.8	3721.1	3853.8	3836.1	3471.7	3347.2	3384.1	3176.7	3125.8
65°	3273.2	3246.6	3384.8	3478.7	3492.0	3312.2	3290.1	3158.6	2957.8	2886.0
67.5°	3147.9	2971.1	2970.7	3024.1	3046.2	3066.9	3171.1	2913.6	2642.5	2566.6
70°	2935.4	2546.3	2429.2	2492.2	2473.8	2648.0	2958.6	2569.5	2262.3	2173.5
72.5°	2545.6	2020.6	1833.1	1914.2	1867.8	2076.6	2588.7	2114.6	1870.7	1761.7
75°	2063.4	1511.5	1318.1	1392.5	1363.8	1575.2	2154.0	1535.8	1341.7	1300.1
77.5°	1602.1	1095.2	982.9	972.6	993.9	1172.2	1580.0	1037.0	884.5	856.1
80°	1029.3	783.9	790.6	777.3	788.4	739.0	959.3	661.6	599.0	576.2
82.5°	677.5	546.3	651.3	601.2	571.0	497.0	629.2	433.2	367.7	355.1
85°	461.6	402.3	366.2	280.0	329.7	382.8	471.9	233.2	184.9	167.6
87.5°	208.5	140.0	102.8	63.4	100.2	115.7	229.1	27.3	21.0	21.7
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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