

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: P451162

Luminaire Tested: **GALN-SA2A-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451162
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-SA2A-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

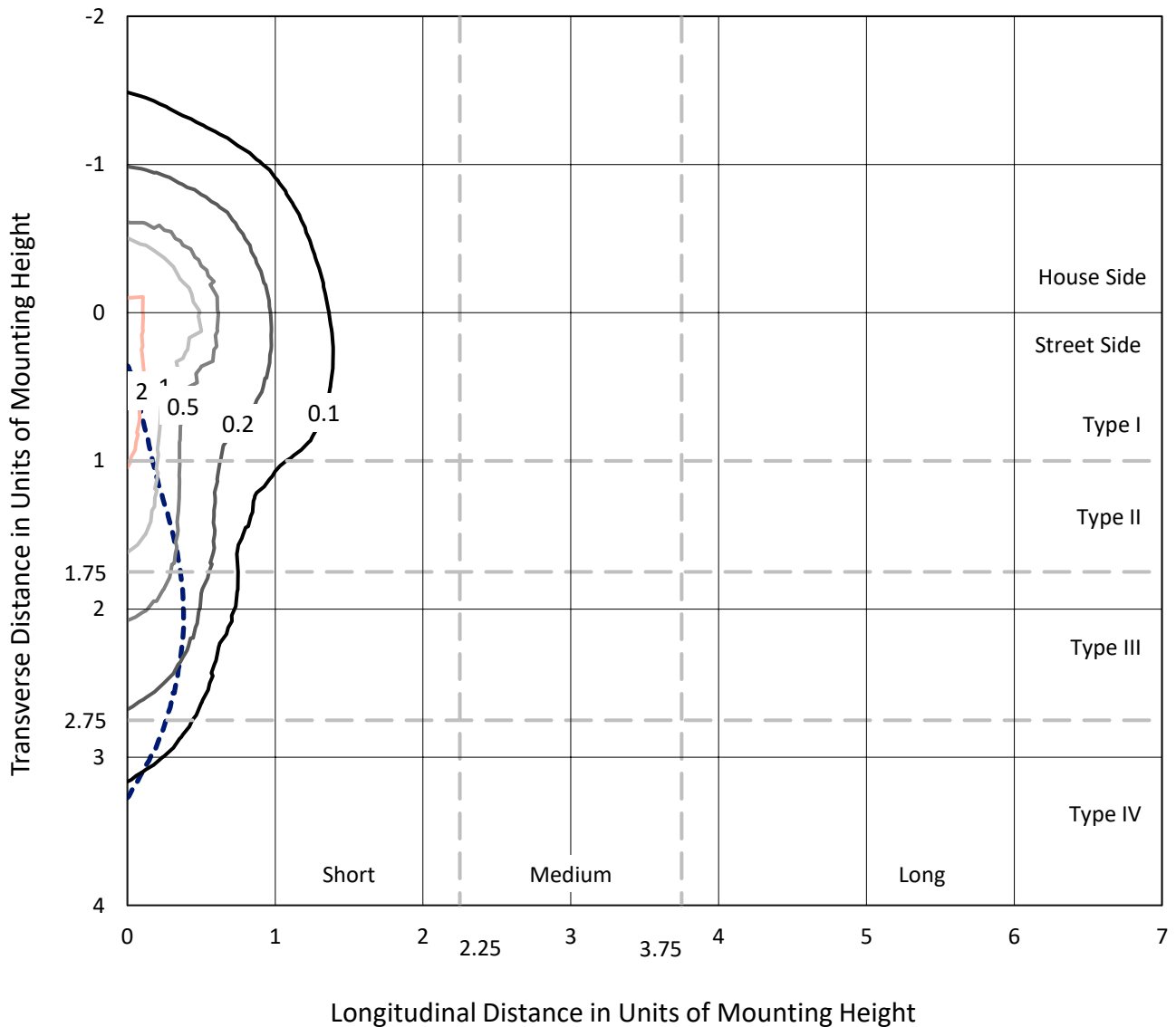
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

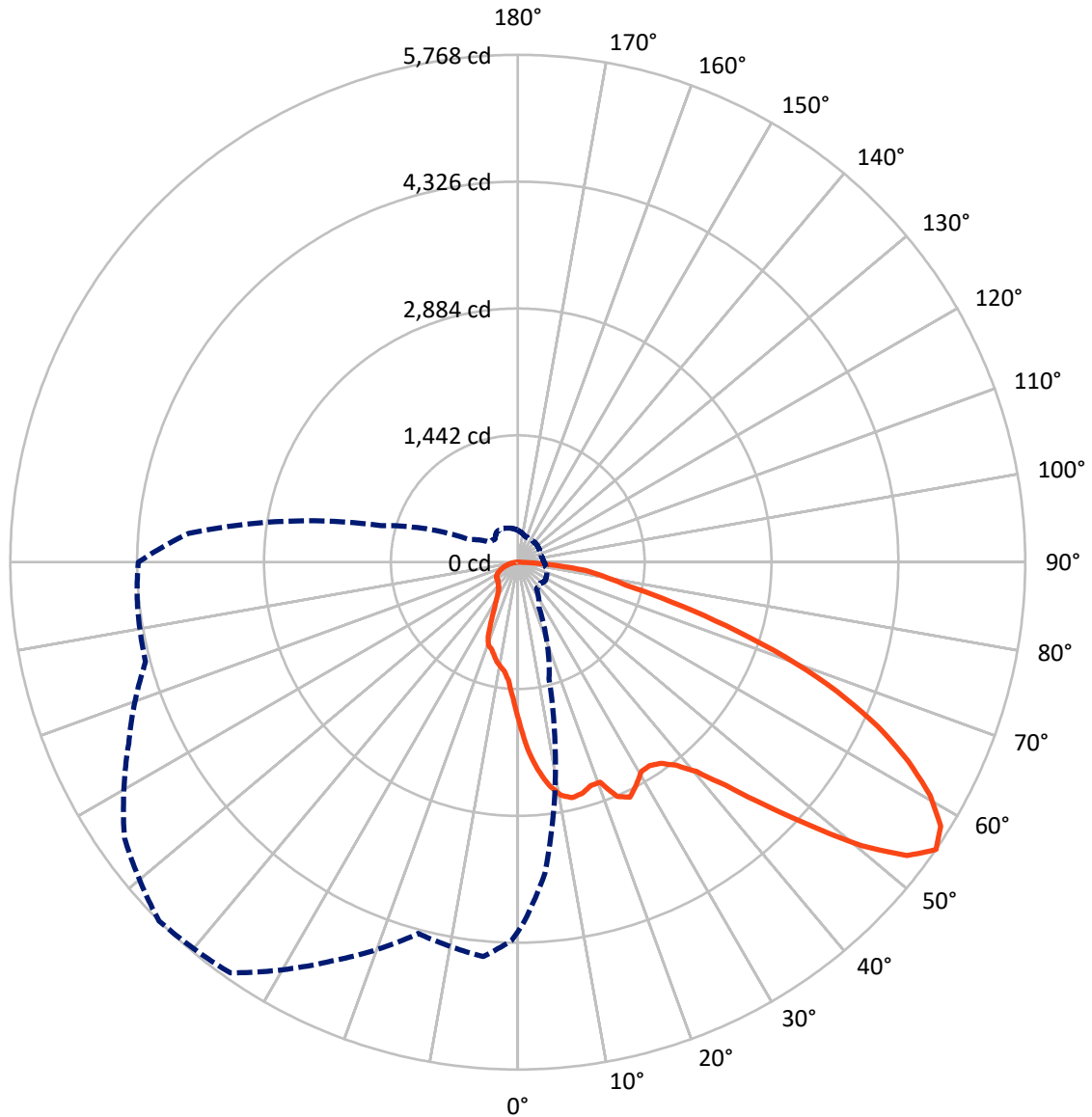
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1579.1	0.0	1579.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5639.9	0.0	5639.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	7219.0	0.0	7219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	2.1
10°-20°	407.4	5.6
20°-30°	703.7	9.7
30°-40°	817.9	11.3
40°-50°	1141.1	15.8
50°-60°	1548.3	21.4
60°-70°	1473.0	20.4
70°-80°	795.8	11.0
80°-90°	178.3	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°	7219.0	100.0
0°-180°	7219.0	100.0

Coefficient of Utilization



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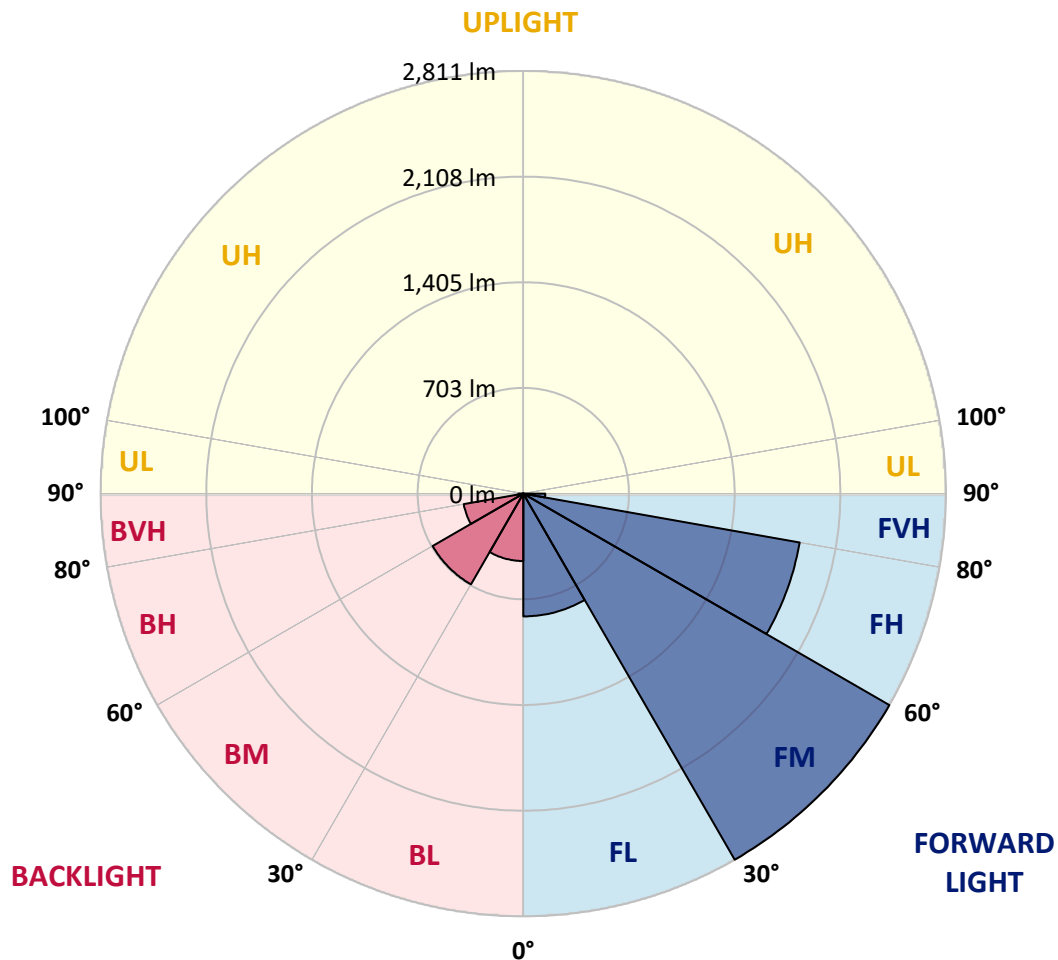
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.5	11.3			
FM	(30°-60°)	2810.9	38.9			
FH	(60°-80°)	1866.7	25.9			G2/5000
FVH	(80°-90°)	145.8	2.0			G2/225
BL	(0°-30°)	448.2	6.2	B1/500		
BM	(30°-60°)	696.3	9.6	B1/1000		
BH	(60°-80°)	402.1	5.6	B1/500		G1/500
BVH	(80°-90°)	32.6	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°	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7
2.5°	2012.7	2005.0	1983.6	1927.4	1870.7	1813.1	1768.8	1713.6	1656.0	1625.0	1585.5
5°	2040.3	2031.7	1981.2	1854.6	1739.8	1619.3	1523.1	1438.8	1404.5	1354.0	1313.5
7.5°	1975.5	1971.7	1896.0	1714.1	1556.9	1399.2	1290.2	1222.6	1161.1	1138.3	1143.0
10°	1916.5	1901.2	1806.4	1568.8	1385.4	1257.3	1179.2	1113.0	1069.7	1058.2	1060.6
12.5°	1867.4	1846.9	1735.0	1471.2	1310.7	1208.3	1108.7	1039.7	1000.1	1011.1	1048.2
15°	1857.4	1829.8	1705.0	1437.8	1269.7	1137.8	1028.7	949.2	919.7	943.5	1003.0
17.5°	1922.2	1887.4	1756.4	1448.8	1230.7	1065.9	932.0	841.1	816.3	854.4	932.0
20°	2130.3	2078.9	1916.9	1512.1	1226.8	1030.1	875.8	784.4	794.9	867.3	948.2
22.5°	2515.1	2438.0	2197.9	1604.5	1246.8	1021.1	864.4	816.8	874.4	935.8	989.2
25°	2591.3	2530.8	2248.4	1625.5	1242.6	1014.9	896.8	920.6	984.9	1015.4	996.8
27.5°	2634.2	2565.1	2245.1	1521.6	1111.1	920.6	857.3	896.8	913.0	883.5	833.0
30°	2734.2	2662.3	2301.8	1412.6	914.9	683.0	598.7	582.5	593.4	599.1	581.0
32.5°	2871.8	2800.9	2408.4	1341.1	791.1	564.8	482.0	459.1	453.9	447.7	440.5
35°	3050.0	2940.9	2513.2	1295.4	740.1	522.5	446.3	428.6	421.5	412.9	405.3
37.5°	3230.9	3116.6	2645.6	1247.3	706.3	492.9	422.4	414.3	402.0	392.9	382.0
40°	3423.3	3295.2	2766.1	1205.4	673.4	473.9	405.3	404.3	388.2	377.7	364.8
42.5°	3590.0	3458.1	2873.7	1179.7	648.2	453.9	394.8	397.7	381.0	365.3	348.6
45°	3722.4	3592.9	2973.3	1179.7	627.7	433.9	392.9	391.0	374.3	354.8	335.8
47.5°	3838.6	3704.8	3070.4	1209.7	614.8	417.2	382.4	385.8	368.6	343.9	325.3
50°	3928.7	3810.5	3201.4	1256.4	602.0	403.9	369.1	387.2	363.9	338.1	316.7
52.5°	4043.4	3937.7	3359.1	1320.2	591.0	389.1	357.2	387.2	363.4	338.6	315.3
55°	4202.5	4091.1	3549.1	1373.1	573.4	375.3	346.7	376.2	362.0	336.2	311.5
57.5°	4313.9	4230.6	3683.4	1408.3	548.2	357.7	337.2	365.8	355.8	327.2	300.0
58°	4319.2	4237.7	3702.9	1416.4	542.0	354.3	334.8	361.0	352.9	323.4	296.2
60°	4259.2	4189.2	3706.7	1405.0	506.7	337.7	322.4	341.5	337.7	301.0	275.8
62.5°	4041.1	3966.3	3552.9	1312.1	460.1	317.2	303.4	315.3	306.7	269.6	246.2
65°	3731.0	3593.4	3236.7	1166.4	426.7	295.3	277.7	278.6	269.6	242.9	222.4
67.5°	3318.1	3164.3	2740.4	983.0	401.5	271.0	247.2	244.8	233.8	216.7	200.0
70°	2809.9	2704.7	2227.0	799.6	373.4	244.3	212.9	211.5	204.8	191.9	177.2
72.5°	2277.5	2143.6	1798.4	640.1	339.1	218.6	181.0	183.8	175.3	166.2	152.9
75°	1680.7	1593.1	1390.2	513.4	292.9	190.5	151.0	151.9	148.1	138.6	128.1
77.5°	1106.8	1080.6	994.4	337.2	225.3	151.5	123.4	124.3	121.4	112.9	101.9
80°	744.9	727.2	673.9	217.2	150.5	109.5	95.3	96.2	95.7	86.7	71.9
82.5°	459.1	451.5	434.3	146.7	104.3	78.6	62.9	65.7	71.0	61.0	49.1
85°	216.7	217.2	262.4	80.0	61.4	50.5	34.3	36.7	36.7	36.7	27.6
87.5°	28.1	29.5	36.2	33.8	22.4	19.1	12.4	10.5	9.0	11.9	8.6
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°	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7
2.5°	1571.7	1562.1	1541.6	1536.9	1534.0	1542.1	1520.7	1526.4	1516.9	1543.6	1539.3
5°	1315.9	1316.9	1333.5	1344.5	1348.3	1344.5	1330.2	1305.4	1286.4	1278.8	1280.7
7.5°	1134.0	1150.6	1179.2	1211.1	1240.2	1248.7	1240.7	1193.5	1142.1	1109.7	1099.2
10°	1073.5	1095.9	1128.7	1154.0	1179.7	1200.2	1204.5	1167.8	1106.8	1030.1	1000.1
12.5°	1076.8	1107.3	1138.7	1146.8	1144.4	1152.5	1148.7	1142.5	1102.5	1004.9	954.9
15°	1045.4	1081.6	1103.5	1099.2	1091.6	1084.4	1074.4	1058.7	1044.4	975.9	920.6
17.5°	973.0	1010.1	1028.2	1029.7	1029.7	1027.8	1003.5	997.8	995.9	962.5	928.7
20°	986.3	1006.8	998.7	985.4	989.2	1002.0	987.8	984.9	995.9	1010.6	1004.4
22.5°	994.0	986.8	925.8	866.8	853.5	893.5	901.6	933.5	977.8	1031.1	1065.9
25°	946.8	889.2	780.1	713.4	675.8	713.0	761.5	820.6	886.8	955.4	995.9
27.5°	791.5	747.7	669.6	609.6	576.7	582.5	623.9	677.7	739.2	785.4	814.9
30°	596.3	576.7	536.3	515.8	495.8	491.0	508.6	529.1	556.3	562.0	569.6
32.5°	439.1	436.3	438.6	432.0	428.2	427.7	422.4	427.2	430.1	433.4	426.7
35°	397.2	393.4	386.7	384.8	382.4	383.4	381.0	378.6	380.5	383.4	385.3
37.5°	375.8	370.1	360.5	357.2	357.2	358.6	354.8	353.9	357.2	366.2	371.0
40°	359.1	352.4	341.5	337.2	340.0	343.9	338.6	336.7	344.8	354.3	362.0
42.5°	343.4	338.1	327.7	322.9	325.3	332.4	324.8	323.4	333.9	344.3	353.4
45°	330.0	324.8	315.3	312.9	313.9	320.5	315.3	315.3	325.3	336.7	344.8
47.5°	319.6	312.9	306.7	304.8	305.8	309.6	308.6	308.6	318.1	330.0	338.1
50°	309.1	303.4	295.3	296.2	298.6	303.9	303.4	304.8	314.3	329.1	337.7
52.5°	304.3	295.8	286.7	287.7	294.8	301.0	299.1	300.5	311.5	339.1	351.5
55°	299.1	287.7	277.2	278.6	286.7	295.8	293.4	295.3	308.1	345.8	362.9
57.5°	289.1	275.8	264.3	265.3	277.2	286.7	282.9	285.3	300.5	338.6	356.7
58°	284.8	273.4	262.4	262.9	274.3	284.8	280.5	282.4	298.1	336.7	353.9
60°	266.7	260.0	250.5	251.0	261.9	271.0	268.6	270.5	285.8	322.9	335.8
62.5°	241.9	238.1	235.7	235.7	242.4	251.0	253.4	255.8	269.6	291.9	303.4
65°	215.3	215.3	215.7	215.7	220.0	231.0	232.4	238.6	251.5	262.4	271.0
67.5°	197.2	196.2	197.2	194.8	196.7	203.4	210.5	216.2	229.6	237.2	240.0
70°	173.8	173.4	173.8	170.5	172.9	178.6	183.4	192.9	206.7	212.4	213.8
72.5°	151.0	151.0	151.9	149.5	149.5	155.7	159.1	169.5	182.4	185.7	186.2
75°	127.2	128.6	128.6	125.3	126.2	130.0	134.3	142.9	154.8	157.2	157.2
77.5°	101.0	106.2	106.2	102.9	104.3	104.8	110.5	114.8	123.8	124.8	121.0
80°	73.3	78.6	82.9	80.0	82.4	79.5	82.9	85.7	94.8	90.5	84.3
82.5°	52.4	56.2	59.5	60.0	57.6	52.4	56.7	57.2	61.4	55.7	52.4
85°	29.1	32.4	36.7	34.8	31.0	27.6	29.1	30.0	29.5	28.1	26.2
87.5°	7.6	8.1	9.0	6.7	6.2	5.2	7.1	7.1	8.1	8.6	8.1
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°	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7
2.5°	1542.6	1563.6	1608.8	1643.1	1685.0	1736.0	1796.0	1856.5	1921.7	1942.2	1970.8
5°	1276.4	1328.8	1350.7	1413.1	1475.0	1567.8	1666.9	1781.7	1907.4	1967.9	2026.0
7.5°	1090.6	1118.7	1141.6	1187.3	1261.6	1374.5	1498.8	1642.1	1820.3	1908.4	1993.6
10°	990.6	993.5	1021.6	1078.2	1143.0	1242.6	1360.2	1520.7	1719.3	1826.5	1926.5
12.5°	924.4	912.0	942.5	1001.6	1074.9	1166.8	1274.9	1427.8	1646.4	1756.4	1877.4
15°	866.3	846.8	869.6	930.1	1002.5	1110.6	1226.8	1388.8	1617.8	1746.0	1880.3
17.5°	867.7	813.9	822.0	873.0	944.9	1054.9	1195.9	1387.3	1661.2	1808.8	1967.9
20°	974.9	888.7	852.0	861.6	931.1	1051.1	1210.2	1454.0	1803.6	2018.9	2188.9
22.5°	1080.2	1028.2	969.2	949.7	987.8	1113.5	1301.1	1611.7	2113.2	2437.5	2744.7
25°	1043.5	1087.8	1073.0	1045.4	1054.0	1158.3	1363.1	1741.2	2353.7	2719.0	3007.6
27.5°	834.9	915.4	931.6	931.1	934.4	1020.1	1225.9	1654.0	2383.7	2772.8	3048.5
30°	586.8	593.9	602.5	619.1	634.4	711.1	959.2	1452.1	2370.3	2797.1	3073.3
32.5°	423.4	432.9	444.8	467.7	503.9	601.5	839.2	1387.8	2440.8	2897.6	3145.7
35°	387.2	398.2	409.6	435.8	470.1	560.6	791.5	1361.1	2556.6	3060.4	3275.7
37.5°	375.8	388.2	398.2	417.2	444.8	531.0	748.2	1343.0	2675.1	3232.8	3450.0
40°	367.7	382.0	390.1	405.3	424.3	503.9	709.6	1328.8	2789.9	3390.5	3590.0
42.5°	360.5	375.3	385.8	396.7	412.4	479.6	675.3	1314.5	2889.5	3543.4	3729.6
45°	352.0	370.5	383.9	392.4	406.2	459.1	649.1	1303.0	3002.8	3679.1	3870.6
47.5°	344.8	365.3	382.0	392.0	397.2	444.8	628.2	1318.8	3139.0	3821.0	4001.5
50°	345.3	364.8	385.8	401.5	387.7	432.9	615.3	1381.1	3316.2	3989.6	4104.9
52.5°	360.5	384.3	401.0	404.8	374.3	418.6	608.7	1490.2	3525.7	4138.7	4209.2
55°	377.7	402.4	420.5	418.2	367.2	400.5	607.2	1606.4	3755.3	4312.5	4344.9
57.5°	371.5	407.7	435.3	422.9	367.7	382.9	601.0	1700.2	3947.2	4442.5	4479.2
58°	369.6	405.8	437.2	422.0	366.2	377.7	599.6	1708.3	3973.9	4451.6	4498.3
60°	351.0	389.1	435.8	414.8	358.1	363.4	583.9	1734.5	3966.8	4404.9	4509.7
62.5°	317.2	348.6	402.9	380.1	333.4	344.3	548.6	1702.1	3773.4	4180.1	4342.5
65°	279.1	302.4	338.6	334.3	298.1	324.8	500.5	1574.0	3386.2	3815.3	3986.3
67.5°	250.5	269.6	292.4	286.2	268.1	298.6	448.6	1357.3	2951.8	3377.1	3592.4
70°	221.5	236.2	247.7	243.4	237.7	272.9	402.4	1101.6	2535.6	2960.9	3169.5
72.5°	191.9	205.7	215.3	209.1	205.7	245.7	364.8	854.9	2002.7	2442.7	2710.9
75°	160.5	174.3	181.0	173.8	171.9	216.7	309.1	638.7	1502.6	1883.1	2114.6
77.5°	124.3	139.1	147.6	145.3	146.2	178.1	249.6	437.2	1074.4	1283.5	1527.4
80°	87.2	103.3	109.1	106.7	113.3	135.7	176.2	277.7	741.1	833.0	1004.9
82.5°	53.8	69.1	70.0	72.4	77.2	100.5	132.9	169.1	465.3	481.0	605.8
85°	27.1	32.9	35.2	39.1	43.3	61.4	75.7	104.8	299.6	226.7	338.6
87.5°	9.0	9.5	11.4	14.3	17.6	25.2	32.4	42.9	74.3	41.0	104.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7	1811.7
2.5°	2028.4	2068.9	2098.4	2125.5	2099.3	2097.0	2071.2	2029.8	2012.7	2012.7
5°	2147.9	2242.7	2319.4	2368.4	2347.5	2297.0	2213.6	2107.4	2050.3	2040.3
7.5°	2180.8	2368.0	2510.4	2560.8	2525.6	2414.2	2254.6	2075.5	1993.6	1975.5
10°	2160.8	2404.2	2613.2	2693.2	2644.2	2475.6	2257.9	2038.4	1937.4	1916.5
12.5°	2139.8	2408.9	2632.3	2748.0	2716.1	2525.1	2282.2	2014.1	1897.4	1867.4
15°	2155.1	2410.8	2608.9	2728.5	2749.0	2584.7	2322.2	2031.7	1889.3	1857.4
17.5°	2251.3	2447.0	2575.6	2672.3	2744.2	2665.6	2436.1	2116.0	1961.7	1922.2
20°	2452.3	2533.7	2594.7	2669.4	2785.2	2830.9	2669.0	2347.5	2165.1	2130.3
22.5°	3034.2	3019.5	2894.7	2893.3	3060.9	3244.3	3233.3	2818.0	2543.7	2515.1
25°	3252.4	3183.8	3003.3	2959.5	3033.3	3316.2	3275.2	2914.2	2660.9	2591.3
27.5°	3167.1	2997.1	2878.5	2868.5	2844.2	3111.4	3210.0	2953.3	2701.8	2634.2
30°	3161.9	2911.8	2742.3	2762.3	2785.6	3040.9	3246.2	3075.7	2806.6	2734.2
32.5°	3174.7	2923.8	2752.3	2756.1	2825.6	3051.4	3286.2	3209.0	2944.2	2871.8
35°	3226.7	2991.4	2816.1	2807.1	2915.7	3120.0	3354.3	3418.6	3132.4	3050.0
37.5°	3310.5	3126.2	2932.8	2930.4	3088.1	3243.8	3439.1	3630.0	3319.5	3230.9
40°	3433.8	3283.8	3140.4	3127.6	3322.4	3445.3	3549.1	3855.3	3537.2	3423.3
42.5°	3582.9	3472.9	3414.3	3465.3	3652.4	3671.5	3720.5	4063.4	3722.4	3590.0
45°	3721.0	3715.8	3797.2	3932.5	4041.5	3927.2	3899.6	4203.0	3866.3	3722.4
47.5°	3885.3	4027.2	4273.0	4471.1	4585.4	4224.9	4052.5	4293.9	3971.0	3838.6
50°	4052.0	4400.2	4792.6	5068.8	5093.1	4548.3	4157.7	4379.7	4066.3	3928.7
52.5°	4227.3	4697.8	5220.3	5541.3	5494.1	4829.7	4259.7	4437.8	4164.4	4043.4
55°	4379.7	4880.2	5459.4	5767.5	5698.4	5001.2	4369.7	4500.6	4304.4	4202.5
57.5°	4464.9	4895.5	5399.8	5668.9	5594.1	4967.9	4420.2	4547.3	4394.0	4313.9
58°	4477.3	4875.0	5347.0	5611.8	5535.6	4939.8	4419.7	4545.4	4399.7	4319.2
60°	4466.4	4742.1	5150.3	5386.0	5306.0	4763.5	4401.6	4509.7	4327.3	4259.2
62.5°	4364.9	4511.6	4810.7	4982.1	4959.3	4488.3	4327.3	4374.9	4106.8	4041.1
65°	4231.6	4197.3	4375.9	4497.3	4514.5	4282.0	4253.5	4083.4	3823.9	3731.0
67.5°	4069.6	3841.0	3840.5	3909.6	3938.2	3964.9	4099.6	3766.7	3416.2	3318.1
70°	3794.8	3291.9	3140.4	3221.9	3198.1	3423.3	3824.8	3321.9	2924.7	2809.9
72.5°	3290.9	2612.3	2369.9	2474.6	2414.6	2684.7	3346.7	2733.7	2418.4	2277.5
75°	2667.5	1954.1	1704.1	1800.3	1763.1	2036.5	2784.7	1985.5	1734.5	1680.7
77.5°	2071.2	1415.9	1270.7	1257.3	1284.9	1515.5	2042.7	1340.7	1143.5	1106.8
80°	1330.7	1013.5	1022.1	1004.9	1019.2	955.4	1240.2	855.4	774.4	744.9
82.5°	875.8	706.3	842.0	777.3	738.2	642.5	813.4	560.1	475.3	459.1
85°	596.8	520.1	473.4	362.0	426.3	494.8	610.1	301.5	239.1	216.7
87.5°	269.6	181.0	132.9	81.9	129.5	149.5	296.2	35.2	27.1	28.1
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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