

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: P450930

Luminaire Tested: **GALN-SA1D-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450930
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-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 6145 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

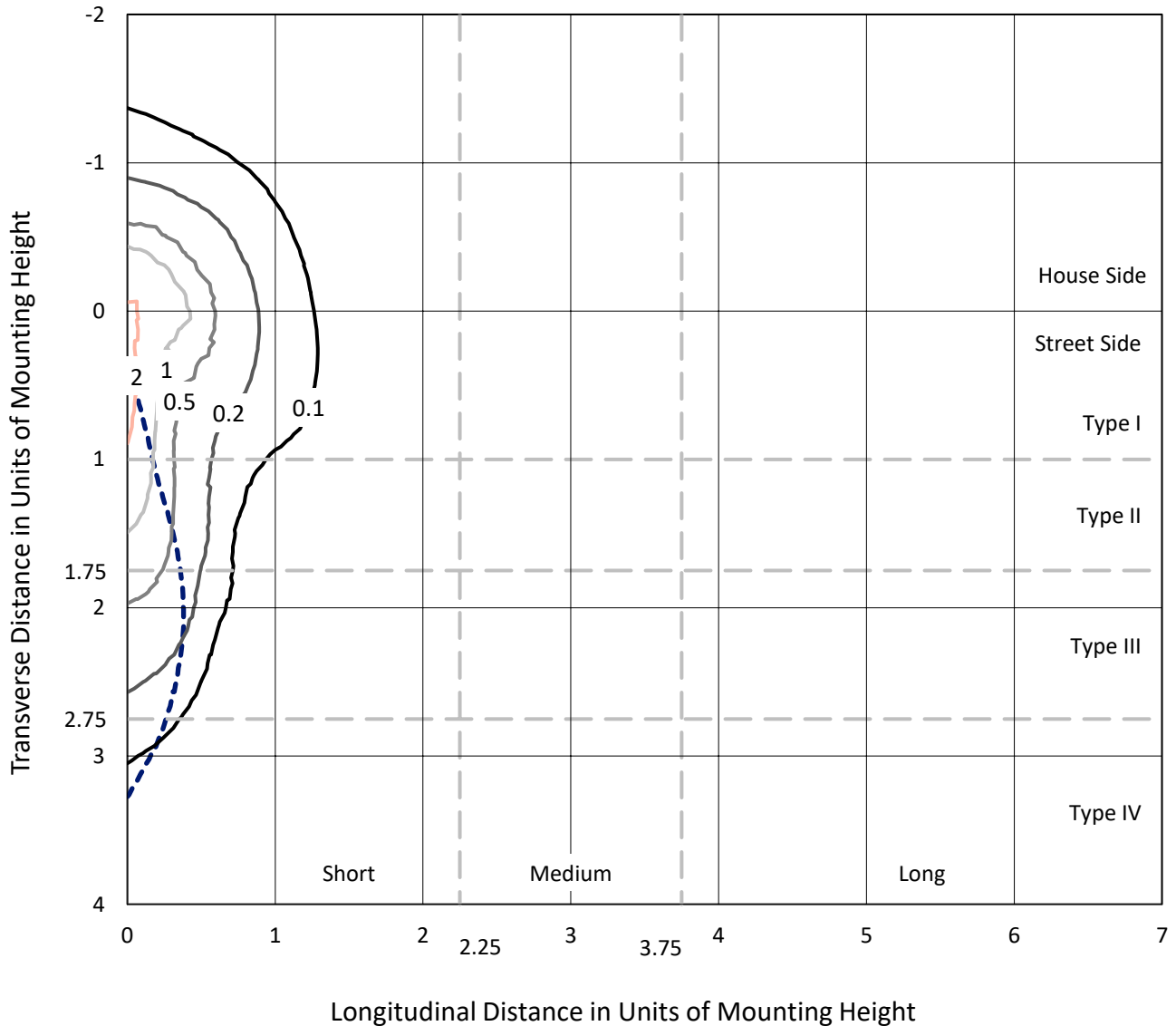
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

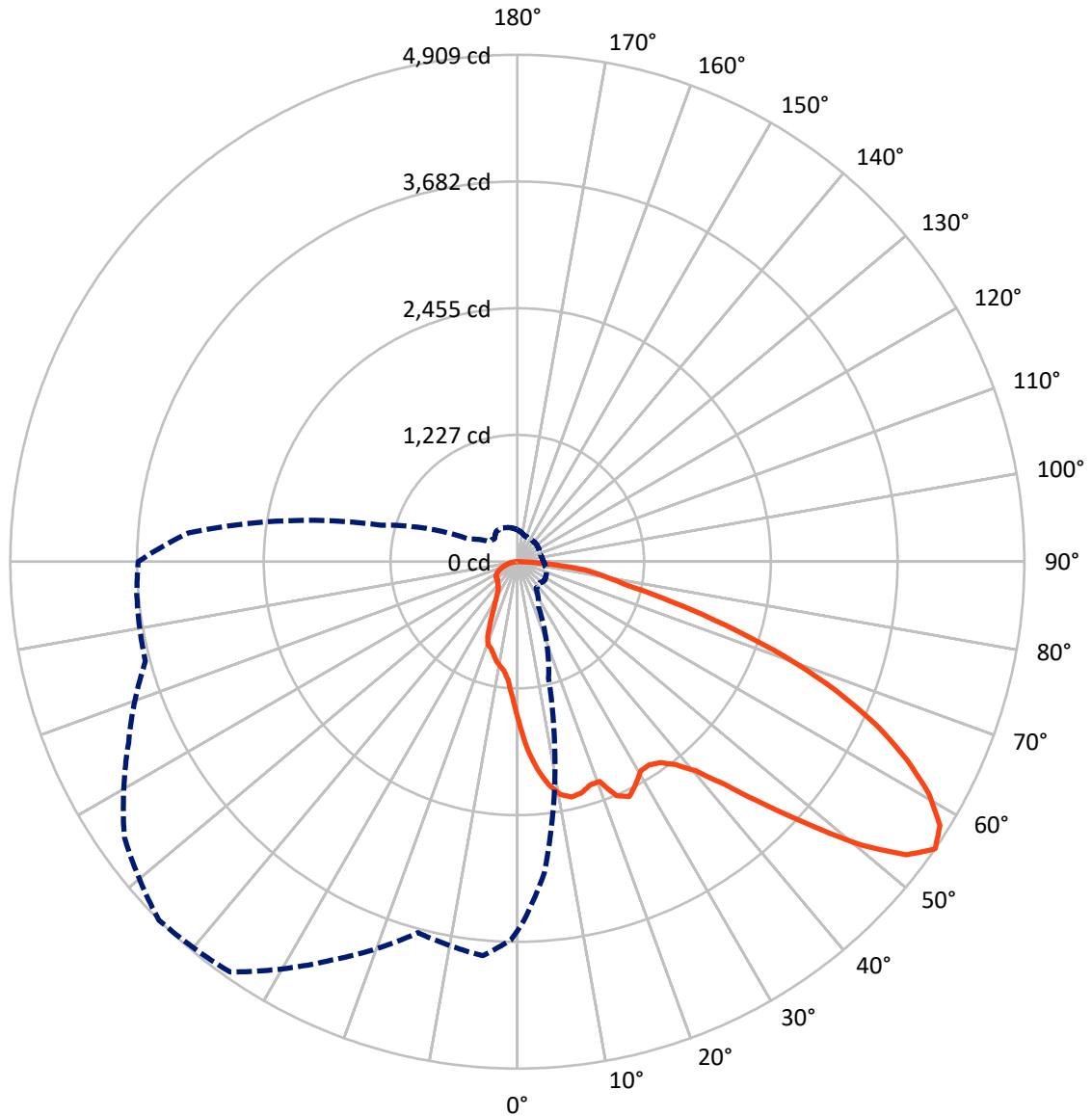
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1344.2	0.0	1344.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4800.8	0.0	4800.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	6145.0	0.0	6145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	2.1
10°-20°	346.8	5.6
20°-30°	599.0	9.7
30°-40°	696.2	11.3
40°-50°	971.3	15.8
50°-60°	1318.0	21.4
60°-70°	1253.9	20.4
70°-80°	677.4	11.0
80°-90°	151.8	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°	6145.0	100.0
0°-180°	6145.0	100.0

Coefficient of Utilization



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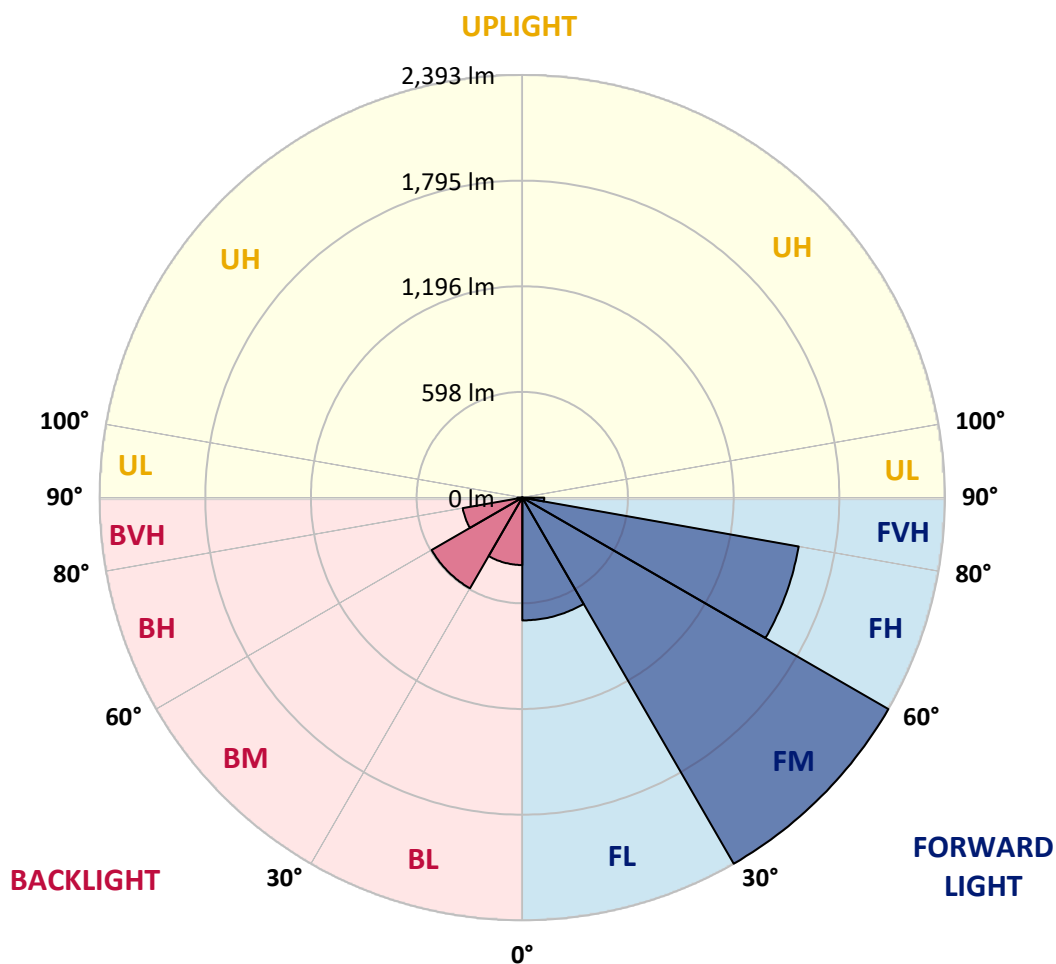
CATALOG NUMBER: GALN-SA1D-730-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.0	11.3			
FM (30°-60°)	2392.7	38.9			
FH (60°-80°)	1589.0	25.9			G1/1800
FVH (80°-90°)	124.1	2.0			G2/225
BL (0°-30°)	381.5	6.2	B1/500		
BM (30°-60°)	592.7	9.6	B1/1000		
BH (60°-80°)	342.3	5.6	B1/500		G1/500
BVH (80°-90°)	27.7	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°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1713.2	1706.7	1688.5	1640.7	1592.4	1543.4	1505.7	1458.6	1409.6	1383.2	1349.6
5°	1736.7	1729.5	1686.5	1578.6	1480.9	1378.4	1296.5	1224.7	1195.5	1152.6	1118.1
7.5°	1681.6	1678.4	1613.9	1459.0	1325.3	1191.1	1098.2	1040.7	988.4	968.9	973.0
10°	1631.3	1618.4	1537.7	1335.4	1179.3	1070.3	1003.8	947.4	910.5	900.8	902.8
12.5°	1589.6	1572.2	1476.9	1252.3	1115.7	1028.5	943.8	885.0	851.3	860.7	892.3
15°	1581.1	1557.6	1451.3	1223.9	1080.8	968.5	875.7	808.0	782.8	803.1	853.8
17.5°	1636.2	1606.6	1495.1	1233.2	1047.6	907.3	793.4	715.9	694.9	727.3	793.4
20°	1813.4	1769.6	1631.7	1287.2	1044.3	876.9	745.5	667.7	676.6	738.2	807.2
22.5°	2140.9	2075.3	1870.9	1365.8	1061.3	869.2	735.8	695.3	744.3	796.6	842.0
25°	2205.8	2154.3	1913.9	1383.6	1057.7	863.9	763.4	783.6	838.4	864.3	848.5
27.5°	2242.3	2183.5	1911.1	1295.3	945.8	783.6	729.7	763.4	777.2	752.0	709.1
30°	2327.4	2266.2	1959.3	1202.4	778.8	581.3	509.6	495.8	505.1	510.0	494.6
32.5°	2444.6	2384.2	2050.1	1141.6	673.4	480.8	410.3	390.8	386.3	381.1	375.0
35°	2596.2	2503.4	2139.3	1102.7	630.0	444.7	379.9	364.9	358.8	351.5	345.0
37.5°	2750.3	2653.0	2252.0	1061.8	601.2	419.6	359.6	352.7	342.2	334.5	325.1
40°	2914.0	2805.0	2354.6	1026.1	573.2	403.4	345.0	344.2	330.4	321.5	310.5
42.5°	3055.9	2943.6	2446.2	1004.2	551.8	386.3	336.1	338.5	324.3	310.9	296.8
45°	3168.6	3058.4	2530.9	1004.2	534.3	369.3	334.5	332.8	318.6	302.0	285.8
47.5°	3267.6	3153.6	2613.6	1029.7	523.4	355.1	325.5	328.4	313.8	292.7	276.9
50°	3344.2	3243.6	2725.1	1069.5	512.4	343.8	314.2	329.6	309.7	287.8	269.6
52.5°	3441.9	3351.9	2859.3	1123.8	503.1	331.2	304.1	329.6	309.3	288.2	268.4
55°	3577.3	3482.4	3021.1	1168.8	488.1	319.5	295.1	320.3	308.1	286.2	265.1
57.5°	3672.1	3601.2	3135.4	1198.8	466.6	304.5	287.0	311.3	302.8	278.5	255.4
58°	3676.6	3607.3	3152.0	1205.7	461.3	301.6	285.0	307.3	300.4	275.3	252.2
60°	3625.5	3565.9	3155.3	1195.9	431.3	287.4	274.5	290.7	287.4	256.2	234.7
62.5°	3439.8	3376.2	3024.3	1116.9	391.6	270.0	258.2	268.4	261.1	229.5	209.6
65°	3175.9	3058.8	2755.1	992.8	363.2	251.4	236.4	237.2	229.5	206.8	189.3
67.5°	2824.4	2693.5	2332.7	836.8	341.8	230.7	210.4	208.4	199.1	184.5	170.3
70°	2391.9	2302.3	1895.7	680.7	317.8	208.0	181.2	180.0	174.3	163.4	150.8
72.5°	1938.6	1824.7	1530.8	544.9	288.6	186.1	154.1	156.5	149.2	141.5	130.1
75°	1430.7	1356.1	1183.4	437.0	249.3	162.2	128.5	129.3	126.1	118.0	109.1
77.5°	942.2	919.9	846.5	287.0	191.8	128.9	105.0	105.8	103.4	96.1	86.8
80°	634.1	619.1	573.6	184.9	128.1	93.2	81.1	81.9	81.5	73.8	61.2
82.5°	390.8	384.3	369.7	124.9	88.8	66.9	53.5	55.9	60.4	51.9	41.8
85°	184.5	184.9	223.4	68.1	52.3	43.0	29.2	31.2	31.2	31.2	23.5
87.5°	23.9	25.1	30.8	28.8	19.1	16.2	10.5	8.9	7.7	10.1	7.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1337.8	1329.7	1312.3	1308.2	1305.8	1312.7	1294.5	1299.3	1291.2	1313.9	1310.3
5°	1120.1	1120.9	1135.1	1144.5	1147.7	1144.5	1132.3	1111.2	1095.0	1088.5	1090.1
7.5°	965.3	979.5	1003.8	1030.9	1055.7	1063.0	1056.1	1015.9	972.2	944.6	935.7
10°	913.8	932.8	960.8	982.3	1004.2	1021.6	1025.3	994.0	942.2	876.9	851.3
12.5°	916.6	942.6	969.3	976.2	974.2	981.1	977.8	972.6	938.5	855.4	812.8
15°	889.9	920.7	939.3	935.7	929.2	923.1	914.6	901.2	889.0	830.7	783.6
17.5°	828.2	859.9	875.3	876.5	876.5	874.9	854.2	849.3	847.7	819.3	790.5
20°	839.6	857.0	850.1	838.8	842.0	853.0	840.8	838.4	847.7	860.3	855.0
22.5°	846.1	840.0	788.1	737.8	726.5	760.5	767.4	794.6	832.3	877.7	907.3
25°	805.9	756.9	664.1	607.3	575.3	606.9	648.2	698.5	754.9	813.2	847.7
27.5°	673.8	636.5	570.0	518.9	490.9	495.8	531.1	576.9	629.2	668.5	693.6
30°	507.6	490.9	456.5	439.1	422.0	418.0	433.0	450.4	473.5	478.4	484.9
32.5°	373.8	371.3	373.4	367.7	364.5	364.1	359.6	363.6	366.1	368.9	363.2
35°	338.1	334.9	329.2	327.6	325.5	326.3	324.3	322.3	323.9	326.3	328.0
37.5°	319.9	315.0	306.9	304.1	304.1	305.3	302.0	301.2	304.1	311.8	315.8
40°	305.7	300.0	290.7	287.0	289.5	292.7	288.2	286.6	293.5	301.6	308.1
42.5°	292.3	287.8	278.9	274.9	276.9	283.0	276.5	275.3	284.2	293.1	300.8
45°	280.9	276.5	268.4	266.4	267.2	272.8	268.4	268.4	276.9	286.6	293.5
47.5°	272.0	266.4	261.1	259.5	260.3	263.5	262.7	262.7	270.8	280.9	287.8
50°	263.1	258.2	251.4	252.2	254.2	258.6	258.2	259.5	267.6	280.1	287.4
52.5°	259.1	251.8	244.1	244.9	250.9	256.2	254.6	255.8	265.1	288.6	299.2
55°	254.6	244.9	235.9	237.2	244.1	251.8	249.7	251.4	262.3	294.3	308.9
57.5°	246.1	234.7	225.0	225.8	235.9	244.1	240.8	242.8	255.8	288.2	303.6
58°	242.4	232.7	223.4	223.8	233.5	242.4	238.8	240.4	253.8	286.6	301.2
60°	227.0	221.4	213.2	213.6	223.0	230.7	228.6	230.3	243.2	274.9	285.8
62.5°	205.9	202.7	200.7	200.7	206.4	213.6	215.7	217.7	229.5	248.5	258.2
65°	183.2	183.2	183.6	183.6	187.3	196.6	197.8	203.1	214.1	223.4	230.7
67.5°	167.8	167.0	167.8	165.8	167.4	173.1	179.2	184.1	195.4	201.9	204.3
70°	148.0	147.6	148.0	145.1	147.2	152.0	156.1	164.2	175.9	180.8	182.0
72.5°	128.5	128.5	129.3	127.3	127.3	132.6	135.4	144.3	155.3	158.1	158.5
75°	108.2	109.5	109.5	106.6	107.4	110.7	114.3	121.6	131.8	133.8	133.8
77.5°	85.9	90.4	90.4	87.6	88.8	89.2	94.1	97.7	105.4	106.2	103.0
80°	62.4	66.9	70.5	68.1	70.1	67.7	70.5	73.0	80.7	77.0	71.8
82.5°	44.6	47.8	50.7	51.1	49.1	44.6	48.2	48.6	52.3	47.4	44.6
85°	24.7	27.6	31.2	29.6	26.4	23.5	24.7	25.5	25.1	23.9	22.3
87.5°	6.5	6.9	7.7	5.7	5.3	4.5	6.1	6.1	6.9	7.3	6.9
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°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1313.1	1330.9	1369.5	1398.6	1434.3	1477.7	1528.8	1580.3	1635.8	1653.2	1677.6
5°	1086.5	1131.1	1149.7	1202.8	1255.5	1334.6	1418.9	1516.6	1623.6	1675.1	1724.6
7.5°	928.4	952.3	971.8	1010.7	1073.9	1170.0	1275.8	1397.8	1549.5	1624.5	1697.0
10°	843.2	845.7	869.6	917.8	973.0	1057.7	1157.8	1294.5	1463.5	1554.7	1639.9
12.5°	786.9	776.3	802.3	852.6	915.0	993.2	1085.3	1215.4	1401.5	1495.1	1598.1
15°	737.4	720.8	740.3	791.8	853.4	945.4	1044.3	1182.2	1377.2	1486.2	1600.5
17.5°	738.6	692.8	699.7	743.1	804.3	898.0	1018.0	1180.9	1414.0	1539.7	1675.1
20°	829.9	756.5	725.3	733.4	792.6	894.7	1030.1	1237.7	1535.3	1718.5	1863.2
22.5°	919.5	875.3	825.0	808.4	840.8	947.8	1107.6	1371.9	1798.8	2074.9	2336.3
25°	888.2	925.9	913.4	889.9	897.2	985.9	1160.3	1482.2	2003.5	2314.4	2560.1
27.5°	710.7	779.2	793.0	792.6	795.4	868.4	1043.5	1408.0	2029.0	2360.3	2595.0
30°	499.5	505.5	512.8	527.0	540.0	605.3	816.5	1236.1	2017.7	2380.9	2616.1
32.5°	360.4	368.5	378.6	398.1	428.9	512.0	714.3	1181.3	2077.7	2466.5	2677.7
35°	329.6	338.9	348.6	370.9	400.1	477.2	673.8	1158.6	2176.2	2605.1	2788.4
37.5°	319.9	330.4	338.9	355.1	378.6	452.0	636.9	1143.2	2277.2	2751.9	2936.7
40°	313.0	325.1	332.0	345.0	361.2	428.9	604.1	1131.1	2374.9	2886.1	3055.9
42.5°	306.9	319.5	328.4	337.7	351.1	408.2	574.9	1118.9	2459.6	3016.2	3174.7
45°	299.6	315.4	326.8	334.1	345.8	390.8	552.6	1109.2	2556.1	3131.7	3294.7
47.5°	293.5	310.9	325.1	333.6	338.1	378.6	534.7	1122.6	2672.0	3252.6	3406.2
50°	293.9	310.5	328.4	341.8	330.0	368.5	523.8	1175.7	2822.8	3396.1	3494.2
52.5°	306.9	327.2	341.3	344.6	318.6	356.3	518.1	1268.5	3001.2	3523.0	3583.0
55°	321.5	342.6	358.0	355.9	312.6	340.9	516.9	1367.4	3196.6	3670.9	3698.5
57.5°	316.2	347.0	370.5	360.0	313.0	325.9	511.6	1447.3	3360.0	3781.6	3812.8
58°	314.6	345.4	372.2	359.2	311.8	321.5	510.4	1454.2	3382.7	3789.3	3829.0
60°	298.8	331.2	370.9	353.1	304.9	309.3	497.0	1476.5	3376.6	3749.6	3838.8
62.5°	270.0	296.8	343.0	323.5	283.8	293.1	467.0	1448.9	3212.0	3558.2	3696.5
65°	237.6	257.4	288.2	284.6	253.8	276.5	426.1	1339.9	2882.4	3247.7	3393.2
67.5°	213.2	229.5	248.9	243.6	228.2	254.2	381.9	1155.4	2512.7	2874.7	3058.0
70°	188.5	201.1	210.8	207.2	202.3	232.3	342.6	937.7	2158.4	2520.4	2698.0
72.5°	163.4	175.1	183.2	178.0	175.1	209.2	310.5	727.7	1704.7	2079.3	2307.6
75°	136.6	148.4	154.1	148.0	146.4	184.5	263.1	543.6	1279.0	1603.0	1800.0
77.5°	105.8	118.4	125.7	123.6	124.5	151.6	212.4	372.2	914.6	1092.6	1300.1
80°	74.2	88.0	92.8	90.8	96.5	115.5	150.0	236.4	630.8	709.1	855.4
82.5°	45.8	58.8	59.6	61.6	65.7	85.5	113.1	143.9	396.1	409.5	515.7
85°	23.1	28.0	30.0	33.2	36.9	52.3	64.5	89.2	255.0	193.0	288.2
87.5°	7.7	8.1	9.7	12.2	15.0	21.5	27.6	36.5	63.2	34.9	89.2
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°	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1726.6	1761.1	1786.2	1809.3	1787.0	1785.0	1763.1	1727.8	1713.2	1713.2
5°	1828.4	1909.0	1974.3	2016.1	1998.2	1955.3	1884.3	1793.9	1745.3	1736.7
7.5°	1856.3	2015.7	2136.9	2179.9	2149.9	2055.0	1919.2	1766.7	1697.0	1681.6
10°	1839.3	2046.5	2224.4	2292.6	2250.8	2107.3	1922.0	1735.1	1649.2	1631.3
12.5°	1821.5	2050.5	2240.7	2339.2	2312.0	2149.4	1942.7	1714.5	1615.1	1589.6
15°	1834.5	2052.2	2220.8	2322.6	2340.0	2200.1	1976.7	1729.5	1608.2	1581.1
17.5°	1916.3	2083.0	2192.4	2274.7	2335.9	2269.0	2073.6	1801.2	1669.9	1636.2
20°	2087.4	2156.7	2208.6	2272.3	2370.8	2409.7	2271.9	1998.2	1843.0	1813.4
22.5°	2582.8	2570.3	2464.0	2462.8	2605.5	2761.6	2752.3	2398.8	2165.3	2140.9
25°	2768.5	2710.1	2556.5	2519.2	2582.0	2822.8	2788.0	2480.7	2265.0	2205.8
27.5°	2695.9	2551.2	2450.3	2441.7	2421.1	2648.5	2732.4	2513.9	2299.9	2242.3
30°	2691.5	2478.6	2334.3	2351.3	2371.2	2588.5	2763.2	2618.1	2389.0	2327.4
32.5°	2702.4	2488.8	2342.8	2346.1	2405.3	2597.4	2797.3	2731.6	2506.2	2444.6
35°	2746.6	2546.3	2397.2	2389.4	2481.9	2655.8	2855.3	2910.0	2666.3	2596.2
37.5°	2818.0	2661.1	2496.5	2494.4	2628.6	2761.2	2927.4	3090.0	2825.7	2750.3
40°	2923.0	2795.3	2673.2	2662.3	2828.1	2932.7	3021.1	3281.7	3010.9	2914.0
42.5°	3049.9	2956.2	2906.3	2949.7	3109.0	3125.3	3167.0	3458.9	3168.6	3055.9
45°	3167.4	3163.0	3232.3	3347.4	3440.3	3343.0	3319.4	3577.7	3291.1	3168.6
47.5°	3307.3	3428.1	3637.3	3805.9	3903.2	3596.3	3449.6	3655.1	3380.3	3267.6
50°	3449.2	3745.5	4079.6	4314.7	4335.4	3871.6	3539.2	3728.1	3461.3	3344.2
52.5°	3598.4	3998.9	4443.6	4716.9	4676.7	4111.2	3625.9	3777.5	3544.8	3441.9
55°	3728.1	4154.2	4647.1	4909.4	4850.7	4257.1	3719.6	3831.1	3664.0	3577.3
57.5°	3800.7	4167.1	4596.5	4825.5	4761.9	4228.8	3762.5	3870.8	3740.3	3672.1
58°	3811.2	4149.7	4551.5	4776.9	4712.0	4204.8	3762.1	3869.2	3745.1	3676.6
60°	3801.9	4036.6	4384.0	4584.7	4516.6	4054.8	3746.7	3838.8	3683.5	3625.5
62.5°	3715.5	3840.4	4095.0	4240.9	4221.5	3820.5	3683.5	3724.0	3495.8	3439.8
65°	3602.0	3572.8	3724.8	3828.2	3842.8	3645.0	3620.7	3475.9	3255.0	3175.9
67.5°	3464.2	3269.6	3269.2	3328.0	3352.3	3375.0	3489.7	3206.3	2908.0	2824.4
70°	3230.3	2802.1	2673.2	2742.6	2722.3	2914.0	3255.8	2827.7	2489.6	2391.9
72.5°	2801.3	2223.6	2017.3	2106.5	2055.4	2285.3	2848.8	2327.0	2058.6	1938.6
75°	2270.7	1663.4	1450.5	1532.4	1500.8	1733.5	2370.4	1690.1	1476.5	1430.7
77.5°	1763.1	1205.3	1081.6	1070.3	1093.8	1290.0	1738.8	1141.2	973.4	942.2
80°	1132.7	862.7	870.0	855.4	867.6	813.2	1055.7	728.1	659.2	634.1
82.5°	745.5	601.2	716.8	661.6	628.4	546.9	692.4	476.8	404.6	390.8
85°	508.0	442.7	403.0	308.1	362.8	421.2	519.3	256.6	203.5	184.5
87.5°	229.5	154.1	113.1	69.7	110.3	127.3	252.2	30.0	23.1	23.9
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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