

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: P450727

Luminaire Tested: **GALN-SA1C-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450727
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-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 6132 lumens
Efficiency: N/A
Efficacy: 107.6 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

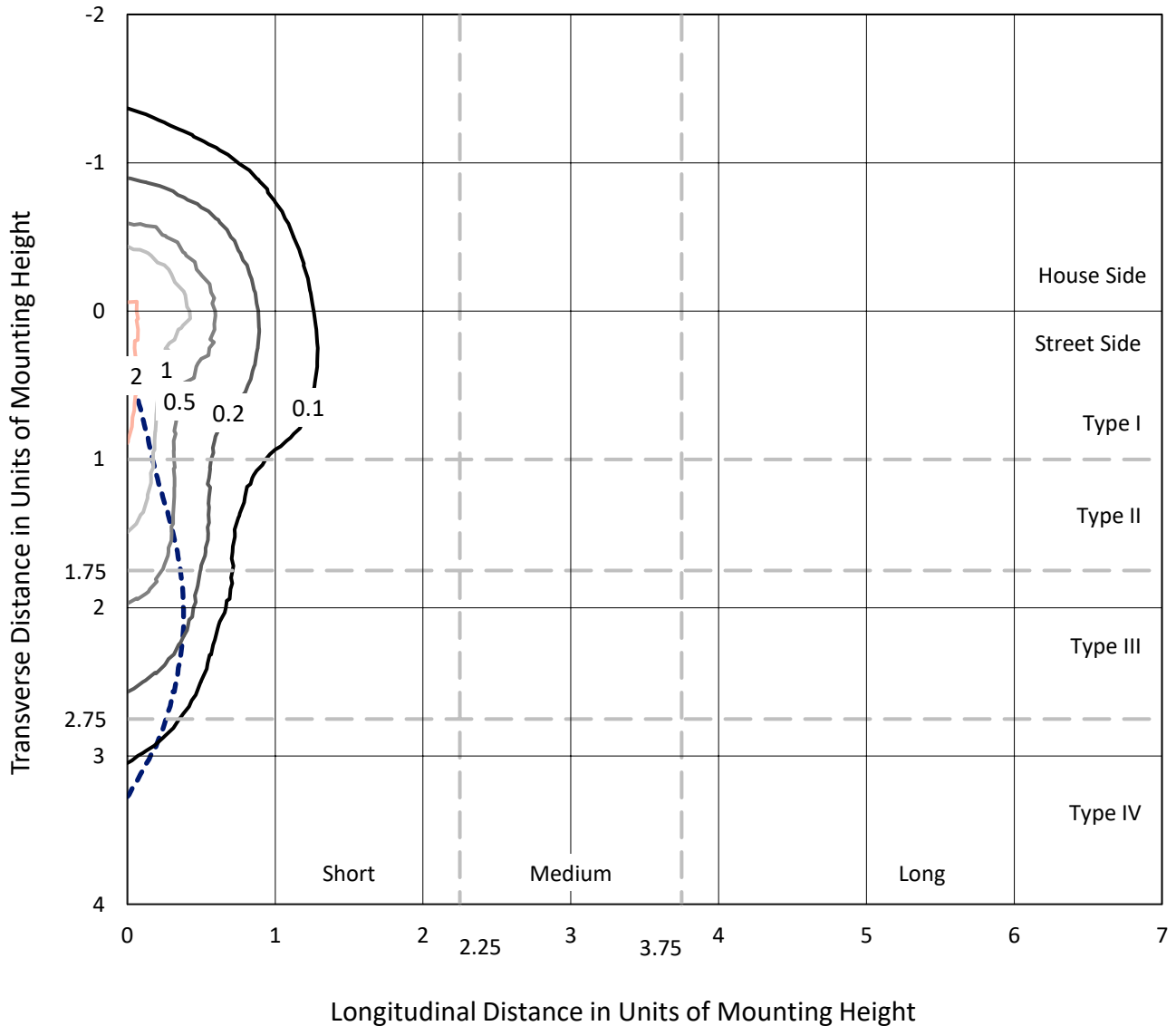
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

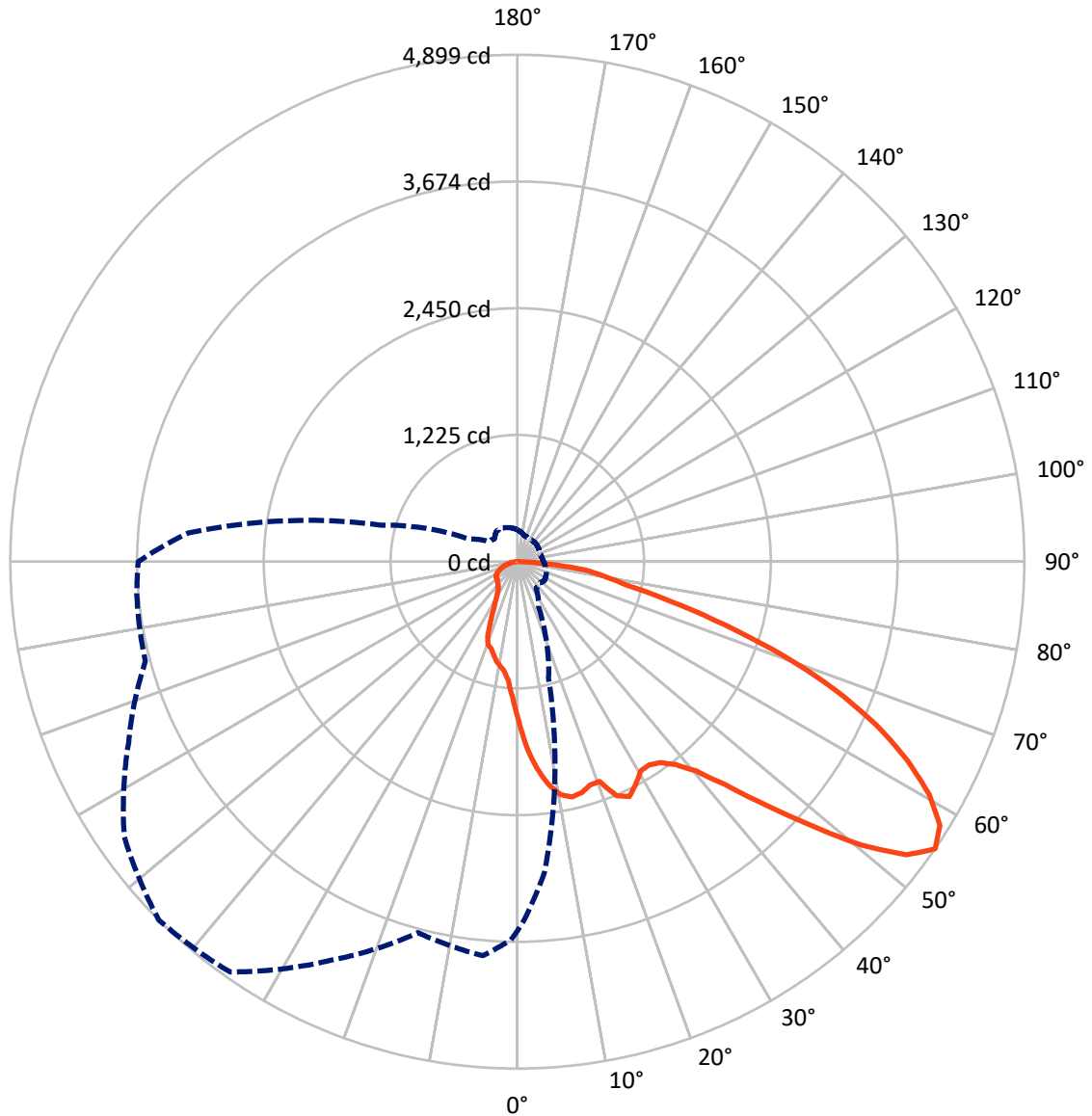
× Max cd
 - - - 1/2 Max cd



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	1341.4	0.0	1341.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4790.7	0.0	4790.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	6132.0	0.0	6132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	2.1
10°-20°	346.0	5.6
20°-30°	597.8	9.7
30°-40°	694.7	11.3
40°-50°	969.3	15.8
50°-60°	1315.2	21.4
60°-70°	1251.2	20.4
70°-80°	675.9	11.0
80°-90°	151.5	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°	6132.0	100.0
0°-180°	6132.0	100.0

Coefficient of Utilization



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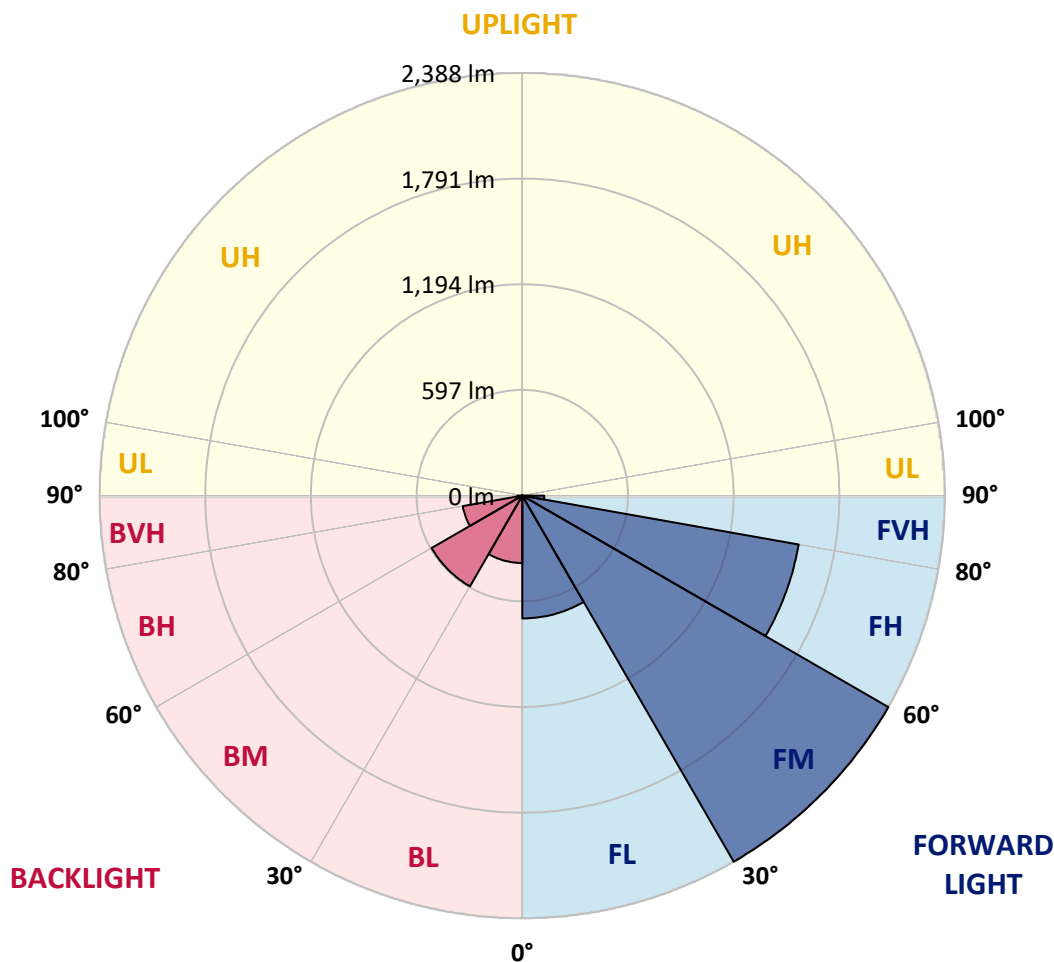
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.5	11.3			
FM	(30°-60°)	2387.7	38.9			
FH	(60°-80°)	1585.6	25.9			G1/1800
FVH	(80°-90°)	123.8	2.0			G2/225
BL	(0°-30°)	380.7	6.2	B1/500		
BM	(30°-60°)	591.4	9.6	B1/1000		
BH	(60°-80°)	341.5	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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1709.6	1703.1	1684.9	1637.2	1589.1	1540.1	1502.5	1455.6	1406.6	1380.3	1346.7
5°	1733.1	1725.8	1682.9	1575.3	1477.8	1375.5	1293.7	1222.1	1193.0	1150.1	1115.7
7.5°	1678.1	1674.8	1610.5	1456.0	1322.5	1188.6	1095.9	1038.5	986.3	966.9	970.9
10°	1627.9	1614.9	1534.4	1332.6	1176.8	1068.0	1001.7	945.4	908.6	898.9	900.9
12.5°	1586.2	1568.8	1473.8	1249.6	1113.3	1026.3	941.8	883.1	849.5	858.9	890.4
15°	1577.7	1554.3	1448.3	1221.3	1078.5	966.5	873.8	806.3	781.2	801.4	852.0
17.5°	1632.7	1603.2	1492.0	1230.6	1045.3	905.4	791.7	714.4	693.4	725.8	791.7
20°	1809.5	1765.8	1628.3	1284.4	1042.1	875.0	744.0	666.3	675.2	736.7	805.5
22.5°	2136.4	2070.9	1867.0	1362.9	1059.1	867.3	734.3	693.8	742.7	794.9	840.2
25°	2201.1	2149.8	1909.9	1380.7	1055.5	862.1	761.8	782.0	836.6	862.5	846.7
27.5°	2237.5	2178.9	1907.0	1292.5	943.8	782.0	728.2	761.8	775.5	750.4	707.6
30°	2322.5	2261.4	1955.2	1199.9	777.1	580.1	508.5	494.8	504.1	508.9	493.5
32.5°	2439.4	2379.1	2045.8	1139.2	672.0	479.8	409.4	390.0	385.5	380.3	374.2
35°	2590.7	2498.1	2134.8	1100.4	628.7	443.8	379.1	364.1	358.0	350.7	344.3
37.5°	2744.4	2647.3	2247.3	1059.5	599.9	418.7	358.8	352.0	341.4	333.8	324.4
40°	2907.9	2799.1	2349.6	1023.9	572.0	402.5	344.3	343.5	329.7	320.8	309.9
42.5°	3049.5	2937.4	2441.0	1002.1	550.6	385.5	335.4	337.8	323.6	310.3	296.1
45°	3161.9	3051.9	2525.6	1002.1	533.2	368.5	333.8	332.1	318.0	301.4	285.2
47.5°	3260.6	3147.0	2608.1	1027.5	522.3	354.4	324.9	327.7	313.1	292.1	276.3
50°	3337.1	3236.8	2719.4	1067.2	511.3	343.1	313.5	328.9	309.1	287.2	269.0
52.5°	3434.6	3344.8	2853.3	1121.4	502.0	330.5	303.4	328.9	308.7	287.6	267.8
55°	3569.7	3475.0	3014.7	1166.3	487.1	318.8	294.5	319.6	307.5	285.6	264.6
57.5°	3664.4	3593.6	3128.8	1196.2	465.6	303.8	286.4	310.7	302.2	277.9	254.9
58°	3668.8	3599.6	3145.3	1203.1	460.4	301.0	284.4	306.6	299.8	274.7	251.6
60°	3617.9	3558.4	3148.6	1193.4	430.4	286.8	273.9	290.1	286.8	255.7	234.2
62.5°	3432.6	3369.1	3017.9	1114.5	390.8	269.4	257.7	267.8	260.5	229.0	209.2
65°	3169.2	3052.3	2749.3	990.7	362.5	250.8	235.9	236.7	229.0	206.3	188.9
67.5°	2818.5	2687.8	2327.8	835.0	341.0	230.2	210.0	207.9	198.6	184.1	169.9
70°	2386.8	2297.4	1891.7	679.2	317.2	207.5	180.8	179.6	174.0	163.0	150.5
72.5°	1934.5	1820.9	1527.6	543.7	288.0	185.7	153.7	156.2	148.9	141.2	129.9
75°	1427.6	1353.2	1180.9	436.1	248.8	161.8	128.2	129.1	125.8	117.7	108.8
77.5°	940.2	917.9	844.7	286.4	191.4	128.6	104.8	105.6	103.2	95.9	86.6
80°	632.7	617.7	572.4	184.5	127.8	93.0	80.9	81.7	81.3	73.6	61.1
82.5°	390.0	383.5	368.9	124.6	88.6	66.8	53.4	55.8	60.3	51.8	41.7
85°	184.1	184.5	222.9	68.0	52.2	42.9	29.1	31.2	31.2	31.2	23.5
87.5°	23.9	25.1	30.7	28.7	19.0	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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1335.0	1326.9	1309.5	1305.5	1303.0	1309.9	1291.7	1296.6	1288.5	1311.1	1307.5
5°	1117.8	1118.6	1132.7	1142.0	1145.3	1142.0	1129.9	1108.9	1092.7	1086.2	1087.8
7.5°	963.2	977.4	1001.7	1028.8	1053.4	1060.7	1053.8	1013.8	970.1	942.6	933.7
10°	911.8	930.9	958.8	980.2	1002.1	1019.5	1023.1	991.9	940.2	875.0	849.5
12.5°	914.7	940.6	967.3	974.1	972.1	979.0	975.8	970.5	936.5	853.6	811.1
15°	888.0	918.7	937.3	933.7	927.2	921.2	912.7	899.3	887.2	828.9	782.0
17.5°	826.5	858.0	873.4	874.6	874.6	873.0	852.4	847.5	845.9	817.6	788.9
20°	837.8	855.2	848.3	837.0	840.2	851.2	839.0	836.6	845.9	858.4	853.2
22.5°	844.3	838.2	786.4	736.3	724.9	758.9	765.8	792.9	830.5	875.8	905.4
25°	804.2	755.3	662.6	606.0	574.1	605.6	646.9	697.0	753.3	811.5	845.9
27.5°	672.4	635.1	568.8	517.8	489.9	494.8	530.0	575.7	627.9	667.1	692.2
30°	506.5	489.9	455.5	438.1	421.1	417.1	432.1	449.5	472.5	477.4	483.8
32.5°	373.0	370.6	372.6	366.9	363.7	363.3	358.8	362.9	365.3	368.1	362.5
35°	337.4	334.2	328.5	326.9	324.9	325.7	323.6	321.6	323.2	325.7	327.3
37.5°	319.2	314.3	306.2	303.4	303.4	304.6	301.4	300.6	303.4	311.1	315.1
40°	305.0	299.4	290.1	286.4	288.8	292.1	287.6	286.0	292.9	301.0	307.5
42.5°	291.7	287.2	278.3	274.3	276.3	282.4	275.9	274.7	283.6	292.5	300.2
45°	280.4	275.9	267.8	265.8	266.6	272.3	267.8	267.8	276.3	286.0	292.9
47.5°	271.5	265.8	260.5	258.9	259.7	263.0	262.1	262.1	270.2	280.4	287.2
50°	262.6	257.7	250.8	251.6	253.7	258.1	257.7	258.9	267.0	279.5	286.8
52.5°	258.5	251.2	243.5	244.3	250.4	255.7	254.1	255.3	264.6	288.0	298.6
55°	254.1	244.3	235.4	236.7	243.5	251.2	249.2	250.8	261.7	293.7	308.3
57.5°	245.6	234.2	224.5	225.3	235.4	243.5	240.3	242.3	255.3	287.6	303.0
58°	241.9	232.2	222.9	223.3	233.0	241.9	238.3	239.9	253.2	286.0	300.6
60°	226.5	220.9	212.8	213.2	222.5	230.2	228.2	229.8	242.7	274.3	285.2
62.5°	205.5	202.3	200.3	200.3	205.9	213.2	215.2	217.2	229.0	248.0	257.7
65°	182.9	182.9	183.3	183.3	186.9	196.2	197.4	202.7	213.6	222.9	230.2
67.5°	167.5	166.7	167.5	165.5	167.1	172.7	178.8	183.7	195.0	201.5	203.9
70°	147.7	147.3	147.7	144.8	146.9	151.7	155.8	163.8	175.6	180.4	181.6
72.5°	128.2	128.2	129.1	127.0	127.0	132.3	135.1	144.0	154.9	157.8	158.2
75°	108.0	109.2	109.2	106.4	107.2	110.4	114.1	121.4	131.5	133.5	133.5
77.5°	85.8	90.2	90.2	87.4	88.6	89.0	93.9	97.5	105.2	106.0	102.8
80°	62.3	66.8	70.4	68.0	70.0	67.6	70.4	72.8	80.5	76.9	71.6
82.5°	44.5	47.7	50.6	51.0	49.0	44.5	48.1	48.5	52.2	47.3	44.5
85°	24.7	27.5	31.2	29.5	26.3	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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1310.3	1328.1	1366.6	1395.7	1431.3	1474.6	1525.5	1576.9	1632.3	1649.7	1674.0
5°	1084.2	1128.7	1147.3	1200.3	1252.9	1331.8	1415.9	1513.4	1620.2	1671.6	1720.9
7.5°	926.4	950.3	969.7	1008.5	1071.6	1167.5	1273.1	1394.9	1546.2	1621.0	1693.4
10°	841.5	843.9	867.8	915.9	970.9	1055.5	1155.4	1291.7	1460.4	1551.4	1636.4
12.5°	785.2	774.7	800.6	850.8	913.1	991.1	1083.0	1212.8	1398.5	1492.0	1594.7
15°	735.9	719.3	738.7	790.1	851.6	943.4	1042.1	1179.7	1374.2	1483.1	1597.1
17.5°	737.1	691.4	698.2	741.5	802.6	896.1	1015.8	1178.4	1411.1	1536.5	1671.6
20°	828.1	754.9	723.7	731.8	790.9	892.8	1028.0	1235.1	1532.0	1714.9	1859.3
22.5°	917.5	873.4	823.3	806.7	839.0	945.8	1105.2	1369.0	1795.0	2070.5	2331.4
25°	886.4	924.0	911.4	888.0	895.3	983.9	1157.8	1479.0	1999.3	2309.6	2554.7
27.5°	709.2	777.5	791.3	790.9	793.7	866.5	1041.3	1405.0	2024.8	2355.3	2589.5
30°	498.4	504.5	511.8	525.9	538.9	604.0	814.8	1233.5	2013.4	2375.9	2610.5
32.5°	359.6	367.7	377.8	397.3	428.0	510.9	712.8	1178.8	2073.3	2461.3	2672.0
35°	328.9	338.2	347.9	370.2	399.3	476.2	672.4	1156.2	2171.6	2599.6	2782.5
37.5°	319.2	329.7	338.2	354.4	377.8	451.1	635.5	1140.8	2272.3	2746.1	2930.5
40°	312.3	324.4	331.3	344.3	360.5	428.0	602.8	1128.7	2369.8	2880.0	3049.5
42.5°	306.2	318.8	327.7	337.0	350.3	407.4	573.6	1116.5	2454.4	3009.8	3168.0
45°	299.0	314.7	326.1	333.3	345.1	390.0	551.4	1106.8	2550.7	3125.1	3287.7
47.5°	292.9	310.3	324.4	332.9	337.4	377.8	533.6	1120.2	2666.4	3245.7	3399.0
50°	293.3	309.9	327.7	341.0	329.3	367.7	522.7	1173.2	2816.9	3388.9	3486.8
52.5°	306.2	326.5	340.6	343.9	318.0	355.6	517.0	1265.8	2994.9	3515.5	3575.4
55°	320.8	341.8	357.2	355.2	311.9	340.2	515.8	1364.5	3189.8	3663.2	3690.7
57.5°	315.5	346.3	369.8	359.2	312.3	325.3	510.5	1444.2	3352.9	3773.6	3804.8
58°	313.9	344.7	371.4	358.4	311.1	320.8	509.3	1451.1	3375.5	3781.3	3820.9
60°	298.2	330.5	370.2	352.4	304.2	308.7	496.0	1473.4	3369.5	3741.6	3830.6
62.5°	269.4	296.1	342.2	322.8	283.2	292.5	466.0	1445.8	3205.2	3550.7	3688.6
65°	237.1	256.9	287.6	284.0	253.2	275.9	425.2	1337.0	2876.3	3240.8	3386.0
67.5°	212.8	229.0	248.4	243.1	227.8	253.7	381.1	1153.0	2507.4	2868.6	3051.5
70°	188.1	200.7	210.4	206.7	201.9	231.8	341.8	935.7	2153.8	2515.1	2692.3
72.5°	163.0	174.8	182.9	177.6	174.8	208.7	309.9	726.2	1701.1	2074.9	2302.7
75°	136.3	148.1	153.7	147.7	146.0	184.1	262.6	542.5	1276.3	1599.6	1796.2
77.5°	105.6	118.1	125.4	123.4	124.2	151.3	212.0	371.4	912.7	1090.3	1297.4
80°	74.0	87.8	92.6	90.6	96.3	115.3	149.7	235.9	629.5	707.6	853.6
82.5°	45.7	58.7	59.5	61.5	65.5	85.4	112.9	143.6	395.2	408.6	514.6
85°	23.1	27.9	29.9	33.2	36.8	52.2	64.3	89.0	254.5	192.6	287.6
87.5°	7.7	8.1	9.7	12.1	15.0	21.4	27.5	36.4	63.1	34.8	89.0
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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1723.0	1757.3	1782.4	1805.5	1783.2	1781.2	1759.4	1724.2	1709.6	1709.6
5°	1824.5	1905.0	1970.1	2011.8	1994.0	1951.1	1880.3	1790.1	1741.6	1733.1
7.5°	1852.4	2011.4	2132.4	2175.2	2145.3	2050.6	1915.1	1763.0	1693.4	1678.1
10°	1835.4	2042.1	2219.7	2287.7	2246.0	2102.8	1918.0	1731.5	1645.7	1627.9
12.5°	1817.6	2046.2	2235.9	2334.2	2307.1	2144.9	1938.6	1710.8	1611.7	1586.2
15°	1830.6	2047.8	2216.1	2317.6	2335.0	2195.5	1972.6	1725.8	1604.8	1577.7
17.5°	1912.3	2078.6	2187.8	2269.9	2331.0	2264.2	2069.3	1797.4	1666.3	1632.7
20°	2083.0	2152.2	2204.0	2267.5	2365.8	2404.6	2267.1	1994.0	1839.1	1809.5
22.5°	2577.4	2564.8	2458.8	2457.6	2600.0	2755.8	2746.5	2393.7	2160.7	2136.4
25°	2762.6	2704.4	2551.1	2513.8	2576.6	2816.9	2782.1	2475.4	2260.2	2201.1
27.5°	2690.2	2545.8	2445.1	2436.6	2415.9	2642.9	2726.6	2508.6	2295.0	2237.5
30°	2685.8	2473.4	2329.4	2346.4	2366.2	2583.0	2757.4	2612.6	2384.0	2322.5
32.5°	2696.7	2483.5	2337.9	2341.1	2400.2	2591.9	2791.4	2725.8	2500.9	2439.4
35°	2740.8	2541.0	2392.1	2384.4	2476.6	2650.2	2849.2	2903.8	2660.7	2590.7
37.5°	2812.0	2655.4	2491.2	2489.2	2623.1	2755.4	2921.2	3083.4	2819.7	2744.4
40°	2916.8	2789.3	2667.6	2656.7	2822.1	2926.5	3014.7	3274.8	3004.6	2907.9
42.5°	3043.4	2949.9	2900.2	2943.5	3102.5	3118.6	3160.3	3451.6	3161.9	3049.5
45°	3160.7	3156.3	3225.4	3340.3	3433.0	3335.9	3312.4	3570.1	3284.1	3161.9
47.5°	3300.3	3420.8	3629.6	3797.9	3895.0	3588.7	3442.3	3647.4	3373.1	3260.6
50°	3441.9	3737.6	4070.9	4305.6	4326.2	3863.4	3531.7	3720.2	3454.0	3337.1
52.5°	3590.7	3990.4	4434.2	4706.9	4666.8	4102.5	3618.3	3769.6	3537.3	3434.6
55°	3720.2	4145.4	4637.3	4899.1	4840.4	4248.1	3711.7	3823.0	3656.3	3569.7
57.5°	3792.6	4158.3	4586.7	4815.3	4751.8	4219.8	3754.6	3862.6	3732.3	3664.4
58°	3803.1	4140.9	4541.8	4766.8	4702.0	4195.9	3754.2	3861.0	3737.2	3668.8
60°	3793.8	4028.1	4374.8	4575.0	4507.0	4046.3	3738.8	3830.6	3675.7	3617.9
62.5°	3707.7	3832.3	4086.3	4232.0	4212.5	3812.4	3675.7	3716.2	3488.4	3432.6
65°	3594.4	3565.3	3717.0	3820.1	3834.7	3637.3	3613.0	3468.6	3248.1	3169.2
67.5°	3456.8	3262.7	3262.3	3320.9	3345.2	3367.8	3482.3	3199.6	2901.8	2818.5
70°	3223.4	2796.2	2667.6	2736.8	2716.5	2907.9	3248.9	2821.7	2484.3	2386.8
72.5°	2795.4	2218.9	2013.0	2102.0	2051.0	2280.4	2842.7	2322.1	2054.3	1934.5
75°	2265.9	1659.9	1447.5	1529.2	1497.6	1729.8	2365.4	1686.6	1473.4	1427.6
77.5°	1759.4	1202.7	1079.3	1068.0	1091.5	1287.3	1735.1	1138.8	971.3	940.2
80°	1130.3	860.9	868.2	853.6	865.7	811.5	1053.4	726.6	657.8	632.7
82.5°	744.0	599.9	715.2	660.2	627.0	545.7	691.0	475.7	403.7	390.0
85°	506.9	441.8	402.1	307.5	362.1	420.3	518.2	256.1	203.1	184.1
87.5°	229.0	153.7	112.9	69.6	110.0	127.0	251.6	29.9	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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