

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: P450929

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5120 lumens
Efficiency: N/A
Efficacy: 78.8 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

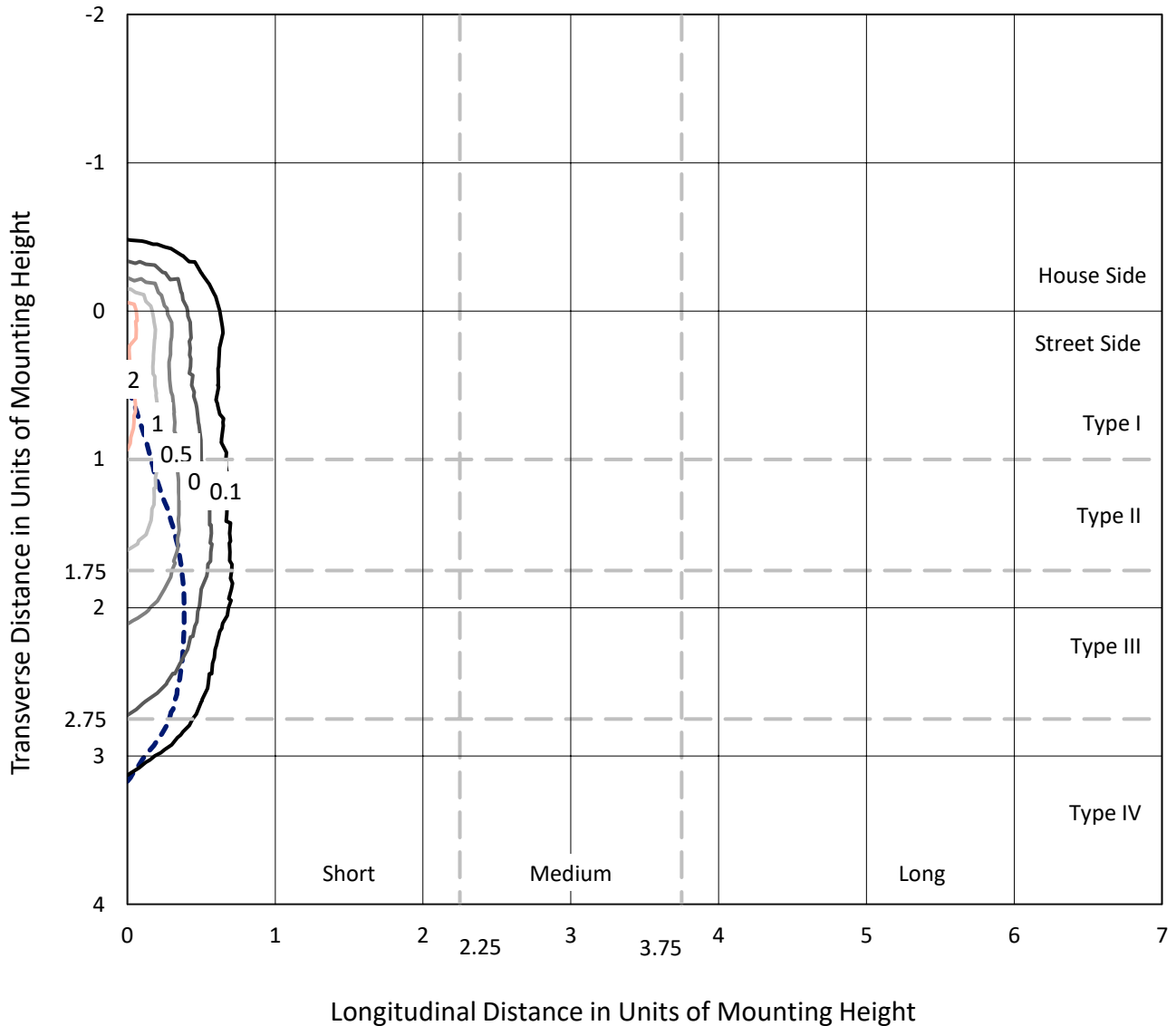
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

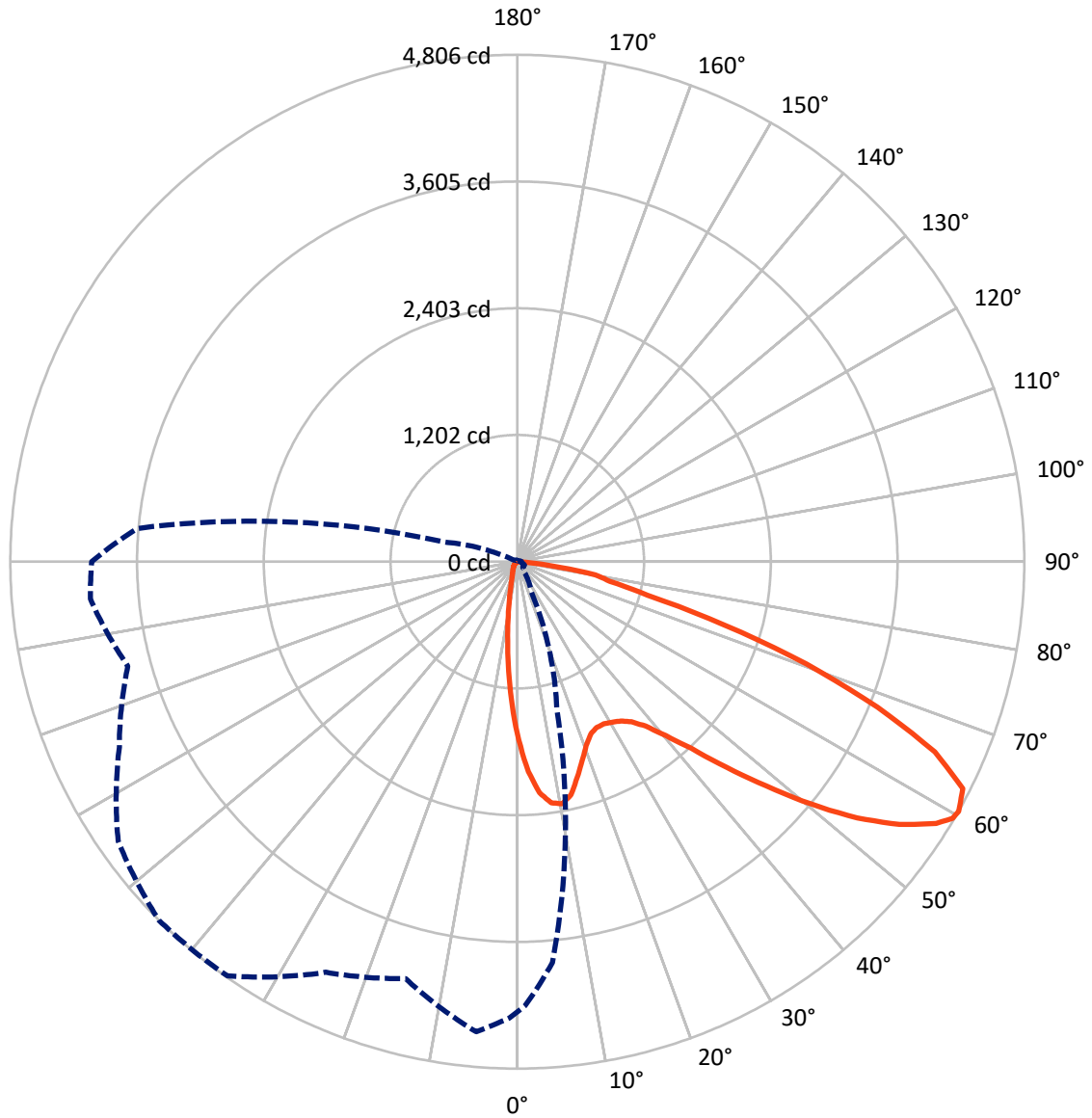
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.5	0.0	631.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4488.5	0.0	4488.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	5120.0	0.0	5120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	2.5
10°-20°	250.0	4.9
20°-30°	366.5	7.2
30°-40°	545.1	10.6
40°-50°	793.2	15.5
50°-60°	1143.9	22.3
60°-70°	1258.2	24.6
70°-80°	563.6	11.0
80°-90°	73.6	1.4
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°	5120.0	100.0
0°-180°	5120.0	100.0

Coefficient of Utilization



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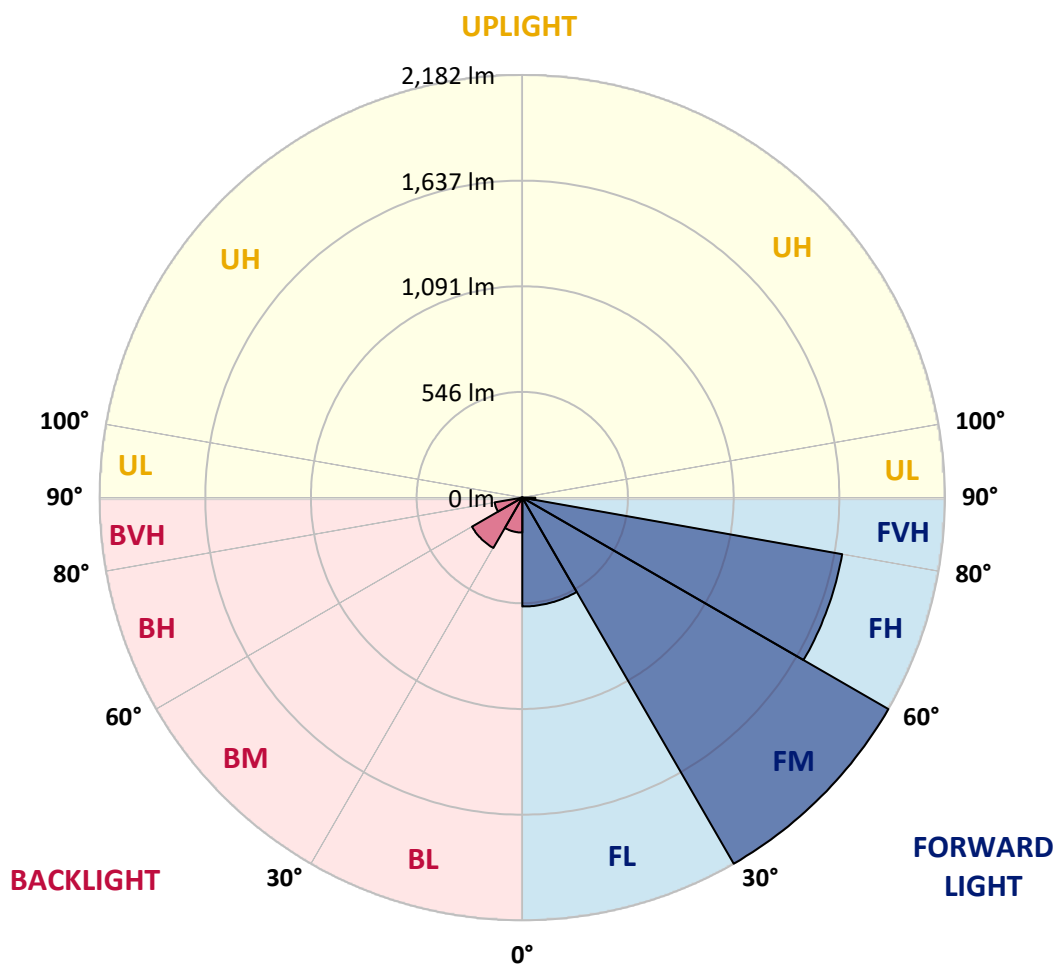
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.9	11.0			
FM (30°-60°)	2182.3	42.6			
FH (60°-80°)	1677.0	32.8			G1/1800
FVH (80°-90°)	67.3	1.3			G1/100
BL (0°-30°)	180.4	3.5	B1/500		
BM (30°-60°)	299.9	5.9	B1/1000		
BH (60°-80°)	144.8	2.8	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			G0/10
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°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1860.4	1852.2	1833.5	1776.7	1727.3	1662.7	1597.3	1545.9	1514.4	1456.4	1429.9
5°	1802.4	1806.3	1752.2	1635.4	1505.4	1416.7	1319.8	1242.7	1157.9	1104.2	1047.7
7.5°	1651.0	1643.2	1584.4	1421.7	1263.7	1135.3	1012.7	913.1	850.4	800.2	758.2
10°	1521.4	1515.5	1440.4	1231.0	1061.3	965.2	882.3	795.1	727.8	654.2	595.5
12.5°	1440.0	1426.8	1340.4	1121.7	983.5	894.0	803.7	713.0	620.0	545.7	474.4
15°	1412.8	1393.7	1297.6	1083.9	933.7	820.0	706.8	602.5	495.4	413.3	359.6
17.5°	1462.2	1430.7	1328.3	1077.3	874.1	723.5	584.2	448.4	337.0	274.4	241.3
20°	1575.5	1539.3	1406.2	1070.7	808.0	615.3	444.1	316.8	233.1	198.9	180.6
22.5°	1743.6	1693.8	1521.4	1081.2	746.9	509.8	320.7	223.8	185.3	163.9	151.0
25°	1945.6	1904.0	1667.3	1118.6	698.6	427.0	247.9	182.9	156.1	142.8	133.1
27.5°	2167.1	2100.5	1856.1	1163.3	654.6	362.7	217.6	163.5	138.9	126.9	121.8
30°	2324.7	2272.9	2014.1	1194.4	599.8	314.5	198.9	161.1	139.3	124.9	115.6
32.5°	2480.4	2414.2	2146.4	1208.8	559.7	281.0	172.0	140.5	122.2	114.8	105.5
35°	2646.9	2577.7	2278.4	1201.1	529.7	258.8	156.1	125.3	104.7	92.2	82.9
37.5°	2815.5	2742.3	2409.5	1173.0	511.0	249.9	143.6	119.1	98.9	86.0	75.9
40°	3015.5	2917.8	2532.5	1150.1	491.6	245.2	135.4	115.2	94.6	81.0	70.8
42.5°	3179.0	3086.0	2648.9	1138.0	478.3	234.3	135.4	112.1	91.9	76.7	66.2
45°	3333.9	3237.3	2774.6	1147.7	472.9	220.7	137.0	111.7	89.9	73.6	63.1
47.5°	3463.5	3379.8	2903.8	1184.3	465.9	205.9	128.8	117.1	88.7	70.8	59.9
50°	3616.4	3535.5	3074.7	1258.3	453.4	191.1	118.7	126.1	88.3	68.5	57.2
52.5°	3832.0	3744.5	3310.5	1342.3	433.6	168.5	109.4	124.9	86.8	64.6	54.5
55°	4095.5	4024.7	3583.7	1443.1	406.3	143.2	94.6	110.9	82.1	58.0	49.8
57.5°	4264.4	4204.1	3788.5	1486.7	364.7	117.1	83.3	93.0	75.1	51.8	44.4
59°	4284.3	4229.8	3831.3	1472.3	337.4	107.0	77.8	79.8	73.2	48.3	41.3
60°	4267.6	4211.1	3814.1	1444.3	312.1	100.0	73.2	70.8	73.6	46.3	38.9
62.5°	4160.1	4063.6	3648.0	1302.3	272.8	91.9	65.0	58.0	65.0	41.6	34.6
65°	3952.7	3807.9	3319.1	1102.2	257.3	87.2	55.3	48.6	49.4	36.6	30.0
67.5°	3590.4	3407.8	2881.2	895.5	250.6	87.6	46.7	43.6	38.1	31.1	26.5
70°	3017.5	2835.3	2311.8	736.8	247.5	87.6	39.7	37.4	31.9	26.1	23.0
72.5°	2138.3	1942.1	1559.5	578.7	223.0	87.2	33.9	33.9	26.1	21.8	18.7
75°	1208.1	1209.6	980.4	409.4	185.3	72.0	27.2	26.9	19.1	16.7	14.0
77.5°	704.1	691.6	660.9	175.9	86.0	32.7	19.1	16.3	13.2	12.1	10.1
80°	362.0	297.7	290.0	63.8	30.7	20.6	13.2	9.3	8.6	7.8	7.0
82.5°	107.0	107.4	95.7	25.7	17.1	13.6	6.6	5.1	4.7	4.3	4.3
85°	7.4	4.7	5.4	7.8	10.5	5.4	0.4	1.2	1.2	1.6	1.9
87.5°	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1400.7	1417.8	1385.9	1386.7	1360.2	1368.8	1337.7	1347.8	1329.5	1343.5	1384.8
5°	1053.9	1057.8	1032.2	1024.0	1027.9	1043.8	1050.1	1021.6	1033.7	1010.0	1008.4
7.5°	742.6	747.3	732.5	730.5	758.5	751.9	764.0	734.8	707.2	719.2	697.1
10°	576.8	557.3	527.0	518.4	513.0	516.5	516.5	490.0	486.1	475.6	491.6
12.5°	455.4	431.6	402.8	363.9	354.2	353.4	339.0	315.6	308.2	299.3	312.5
15°	330.8	321.1	297.0	275.2	253.0	248.7	225.3	206.3	181.0	177.5	176.3
17.5°	232.7	218.3	218.0	205.5	192.7	184.1	162.3	140.5	130.8	129.6	129.6
20°	174.4	169.3	161.1	159.6	155.7	145.9	126.5	114.8	110.1	110.5	112.1
22.5°	146.7	143.2	135.8	132.3	130.8	122.2	107.8	100.0	97.7	97.7	98.1
25°	131.2	128.0	119.9	114.4	112.5	106.3	95.0	89.1	87.2	87.2	87.2
27.5°	119.5	115.6	107.0	102.4	98.9	91.9	84.8	79.0	77.1	77.1	77.5
30°	111.3	107.0	99.2	93.0	87.6	81.3	75.5	70.4	68.1	67.7	68.1
32.5°	100.4	96.5	88.7	84.8	78.6	71.2	66.6	61.9	59.5	59.9	59.5
35°	78.2	77.1	71.6	72.8	69.3	63.1	58.8	53.7	51.0	50.6	51.4
37.5°	71.2	66.6	60.3	60.7	59.5	57.2	50.2	44.8	42.8	42.8	43.2
40°	65.8	61.1	54.1	50.6	51.0	51.0	43.6	37.8	35.8	35.4	36.2
42.5°	61.1	56.4	48.6	42.8	41.3	43.2	37.0	31.1	29.2	28.4	29.2
45°	58.0	52.9	44.0	37.4	32.7	35.0	30.4	25.7	23.4	23.4	23.0
47.5°	54.9	50.2	40.5	32.3	27.2	26.1	24.9	20.6	18.3	17.9	18.3
50°	52.2	47.5	36.6	28.0	23.0	20.2	20.2	16.3	14.8	14.0	14.4
52.5°	49.4	44.4	33.1	24.9	19.8	16.3	14.4	13.2	12.1	11.7	12.1
55°	45.5	40.5	29.6	21.4	17.1	13.6	11.3	10.9	10.1	9.3	10.1
57.5°	40.9	36.2	26.1	18.3	13.6	10.5	9.3	9.0	8.2	7.8	7.8
59°	38.1	33.9	24.1	16.0	12.1	9.3	8.6	8.2	7.4	6.6	7.0
60°	36.6	33.1	23.0	14.8	10.9	8.6	7.8	7.4	6.6	6.2	6.6
62.5°	32.3	29.6	20.2	12.1	8.6	6.2	5.4	5.8	5.4	5.1	5.4
65°	28.4	26.1	17.1	9.3	6.6	4.3	3.9	5.1	4.7	4.3	4.7
67.5°	25.3	22.6	14.4	7.0	4.7	2.3	2.7	4.3	4.3	3.9	4.3
70°	21.8	19.5	11.7	5.1	2.3	1.2	1.9	3.1	3.9	3.5	3.9
72.5°	17.9	15.2	9.0	3.5	1.2	0.0	1.2	2.7	3.9	3.5	3.9
75°	14.0	11.3	6.6	1.9	0.0	0.0	0.4	2.3	3.9	3.5	3.9
77.5°	10.1	8.2	3.9	0.4	0.0	0.0	0.4	2.3	3.9	3.5	3.9
80°	6.6	5.8	1.6	0.0	0.0	0.0	0.4	2.3	3.9	3.9	4.3
82.5°	4.3	3.1	0.0	0.0	0.0	0.0	0.8	3.1	4.3	4.7	4.7
85°	1.9	0.0	0.0	0.0	0.0	0.0	1.6	3.9	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.7	4.7	5.8	5.8	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1391.8	1416.3	1450.9	1504.3	1547.5	1615.6	1667.7	1738.9	1810.9	1832.7	1866.6
5°	1024.4	1055.9	1134.5	1206.1	1251.3	1395.3	1486.3	1630.0	1758.8	1820.7	1888.0
7.5°	711.5	748.8	808.8	908.8	1003.7	1120.9	1268.0	1432.2	1621.0	1709.4	1804.3
10°	499.3	546.0	630.5	712.6	832.1	943.4	1088.6	1270.0	1478.2	1582.5	1701.6
12.5°	315.3	356.9	468.6	560.8	709.9	839.1	973.0	1137.2	1378.5	1485.6	1610.5
15°	180.2	215.2	267.4	385.7	551.1	722.0	888.9	1079.6	1327.6	1459.5	1594.5
17.5°	134.3	143.6	167.0	233.9	384.5	584.2	811.5	1062.1	1362.2	1517.1	1671.2
20°	112.9	119.1	130.0	156.5	245.2	449.9	736.0	1065.2	1474.3	1668.9	1815.2
22.5°	101.2	105.1	114.0	131.2	167.4	327.7	647.6	1083.5	1610.1	1855.3	2024.2
25°	88.7	93.8	101.6	116.4	139.3	227.3	560.4	1124.4	1800.4	2091.9	2250.7
27.5°	79.0	83.7	91.5	105.1	122.2	173.6	458.9	1159.4	2001.3	2330.1	2460.1
30°	69.3	73.9	81.7	92.6	108.2	140.5	349.5	1180.0	2196.2	2508.8	2608.8
32.5°	61.1	65.0	72.4	82.1	95.0	119.1	275.6	1158.6	2345.3	2671.1	2738.0
35°	52.9	57.6	63.8	72.8	84.1	101.6	229.2	1084.7	2473.4	2838.0	2862.2
37.5°	44.4	49.8	56.4	64.6	73.6	93.4	184.1	1003.0	2610.4	3046.3	3006.6
40°	37.4	42.4	48.6	57.6	65.8	85.6	141.7	915.8	2758.2	3241.6	3164.2
42.5°	30.4	35.8	43.2	51.4	65.0	74.7	109.8	825.5	2891.0	3411.7	3306.6
45°	24.1	28.8	36.6	47.1	64.6	64.2	84.8	736.4	2991.0	3533.1	3412.9
47.5°	19.1	23.0	30.7	45.9	59.5	54.5	68.1	681.1	3096.1	3642.5	3494.2
50°	15.2	19.1	26.5	47.9	52.2	46.7	57.2	690.0	3197.7	3698.2	3527.7
52.5°	12.8	16.7	23.0	37.8	40.1	40.9	50.2	731.3	3328.8	3757.7	3594.2
55°	11.3	14.8	19.5	26.5	31.1	36.6	45.9	761.3	3504.3	3885.4	3741.0
57.5°	9.0	12.8	17.5	22.6	25.7	31.9	42.4	763.6	3663.1	4049.2	3936.0
59°	8.2	11.7	16.3	21.4	23.0	28.8	40.1	743.8	3669.0	4073.7	4025.5
60°	7.4	11.3	15.6	19.8	21.8	27.2	38.1	720.8	3616.0	4034.8	4062.4
62.5°	6.2	9.7	13.6	16.0	18.7	22.6	33.1	637.5	3359.6	3858.5	3994.0
65°	5.4	8.6	11.7	13.2	15.6	19.5	29.2	510.2	3076.2	3619.5	3797.8
67.5°	5.1	7.8	10.1	11.3	13.6	17.9	26.1	360.4	2709.2	3316.4	3503.2
70°	4.7	7.4	9.0	10.5	12.1	15.2	22.2	210.2	2086.9	2784.7	2982.0
72.5°	4.7	7.0	7.8	9.0	10.5	13.6	20.6	113.6	1426.8	2124.2	2379.2
75°	4.7	6.6	7.0	7.8	9.3	12.5	18.3	59.5	922.4	1475.8	1821.4
77.5°	4.7	6.2	7.0	7.4	9.0	10.9	16.0	37.4	614.5	1033.7	1231.0
80°	5.1	6.2	6.6	7.4	8.6	10.1	13.2	24.9	361.2	621.9	749.2
82.5°	5.4	6.2	7.0	7.8	9.0	9.7	11.7	15.6	166.6	411.4	465.5
85°	5.8	6.6	7.4	8.2	9.3	9.7	10.9	11.3	27.2	185.6	251.0
87.5°	6.2	7.0	7.8	8.6	10.1	10.1	10.1	10.1	9.3	19.8	50.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1909.4	1953.4	1984.1	1991.9	1969.7	1959.6	1931.6	1888.0	1861.5	1860.4
5°	2012.2	2115.3	2186.9	2199.0	2156.2	2083.8	1997.8	1886.8	1821.8	1802.4
7.5°	1994.6	2175.2	2290.4	2307.2	2235.2	2097.0	1930.4	1751.8	1680.9	1651.0
10°	1922.6	2142.9	2307.6	2334.0	2237.9	2043.3	1831.6	1632.3	1544.3	1521.4
12.5°	1861.1	2083.8	2230.1	2266.7	2193.9	1999.7	1772.4	1555.6	1461.4	1440.0
15°	1834.3	2013.7	2103.2	2121.9	2109.8	1972.5	1766.2	1543.9	1436.1	1412.8
17.5°	1861.1	1954.2	1965.5	1984.5	2011.4	1969.7	1826.1	1607.4	1491.0	1462.2
20°	1931.6	1902.4	1855.7	1863.9	1925.4	1981.0	1932.8	1747.9	1606.2	1575.5
22.5°	2051.5	1889.6	1783.7	1776.7	1854.5	2018.8	2089.2	1938.2	1774.0	1743.6
25°	2198.6	1921.9	1757.2	1742.1	1826.9	2074.0	2259.3	2171.3	1991.9	1945.6
27.5°	2358.9	1988.8	1757.2	1742.4	1824.6	2123.1	2404.9	2377.6	2217.7	2167.1
30°	2446.9	2044.1	1782.5	1765.8	1853.4	2151.5	2482.7	2560.9	2387.3	2324.7
32.5°	2525.5	2120.7	1832.0	1800.4	1913.7	2193.5	2552.4	2716.6	2522.4	2480.4
35°	2597.9	2202.9	1900.1	1863.5	1993.1	2251.1	2629.4	2880.1	2710.4	2646.9
37.5°	2677.7	2298.2	2006.3	1975.2	2125.8	2363.2	2720.9	3094.9	2895.2	2815.5
40°	2764.5	2408.7	2181.1	2167.8	2336.7	2490.1	2836.5	3324.1	3106.2	3015.5
42.5°	2852.8	2536.0	2395.1	2416.9	2575.7	2668.0	2955.2	3500.4	3279.0	3179.0
45°	2933.0	2698.7	2673.4	2781.2	2854.4	2841.5	3043.1	3624.6	3429.6	3333.9
47.5°	3034.2	2935.7	3010.1	3176.2	3178.2	3030.3	3109.7	3726.2	3559.2	3463.5
50°	3147.4	3215.6	3444.8	3614.1	3568.6	3215.9	3187.5	3846.4	3693.1	3616.4
52.5°	3278.6	3528.9	3846.4	4034.4	3928.2	3418.3	3317.1	3976.4	3905.6	3832.0
55°	3431.2	3742.5	4246.9	4396.8	4289.7	3669.7	3514.1	4152.7	4145.7	4095.5
57.5°	3603.6	3968.3	4478.9	4681.7	4586.3	3964.8	3789.2	4318.9	4292.5	4264.4
59°	3739.8	4084.2	4581.3	4791.4	4733.8	4171.4	3974.1	4422.5	4326.3	4284.3
60°	3822.3	4162.9	4619.0	4806.2	4793.0	4294.4	4091.3	4473.1	4325.9	4267.6
62.5°	4067.1	4300.2	4604.6	4740.4	4792.2	4530.3	4434.9	4528.7	4245.8	4160.1
65°	4154.3	4254.7	4366.0	4349.3	4393.7	4518.2	4654.4	4467.6	4074.5	3952.7
67.5°	3984.6	3755.4	3794.7	3683.0	3661.2	4016.9	4565.3	4168.7	3739.4	3590.4
70°	3358.8	2877.0	2857.1	2908.5	2767.6	3252.1	4099.4	3593.1	3186.4	3017.5
72.5°	2643.8	2033.2	1865.8	2055.0	2050.7	2481.1	3405.5	2549.6	2152.7	2138.3
75°	2079.1	1415.5	1242.3	1273.1	1332.2	1796.1	2712.3	1619.1	1325.6	1208.1
77.5°	1395.7	1003.0	935.6	897.9	961.7	1153.2	1716.0	878.0	743.4	704.1
80°	804.5	728.6	827.4	751.2	785.4	726.6	853.5	402.8	334.3	362.0
82.5°	523.5	414.9	442.1	328.5	449.1	453.0	274.0	119.1	100.8	107.0
85°	327.3	194.6	109.4	77.8	154.9	284.9	85.6	7.4	8.6	7.4
87.5°	84.8	32.3	13.6	20.2	24.9	22.2	19.8	1.2	0.4	0.8
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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