

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: STREETWORKS

Report Number: P324405

Luminaire Tested: **GAN-SA1C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4592 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

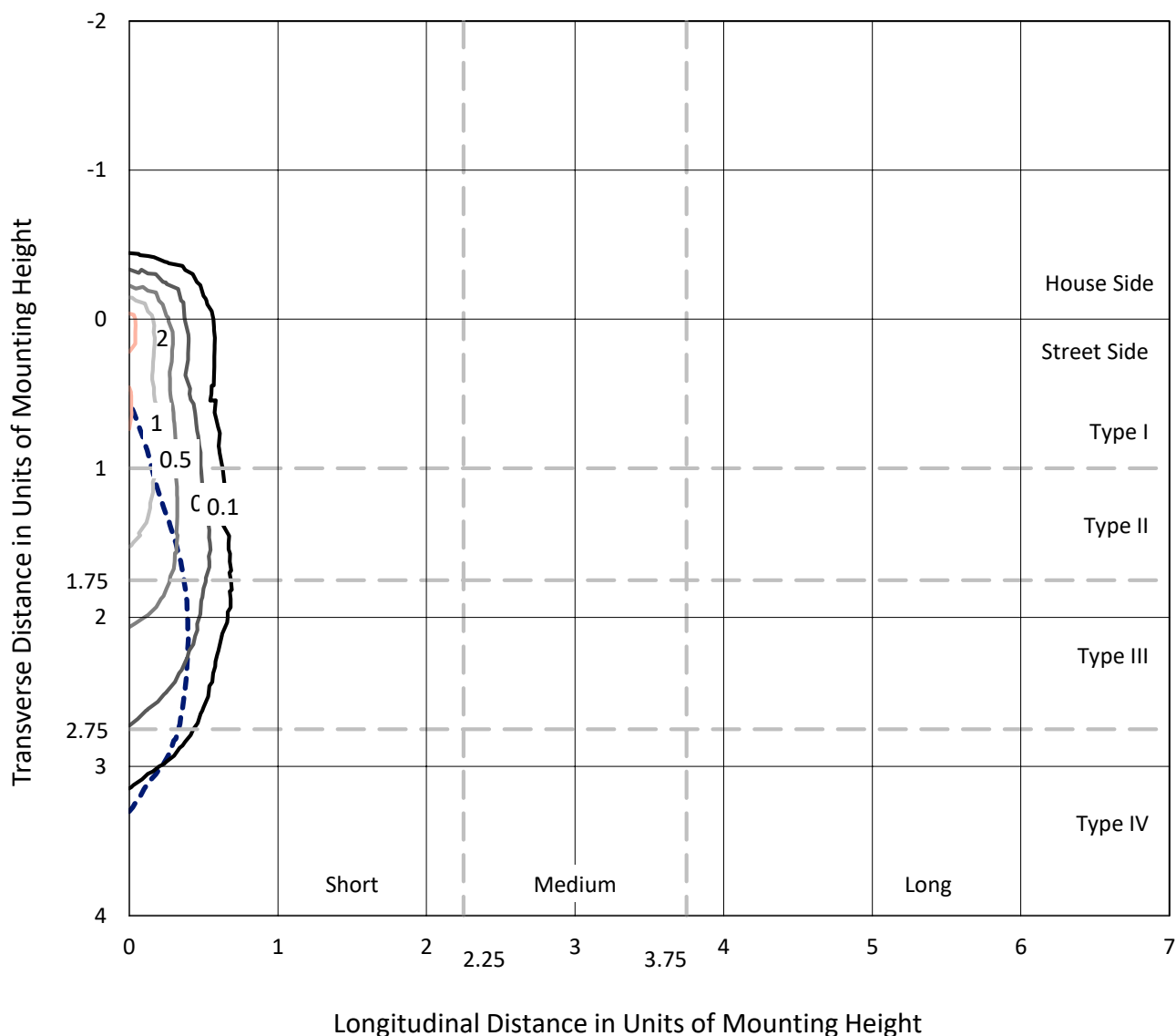
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

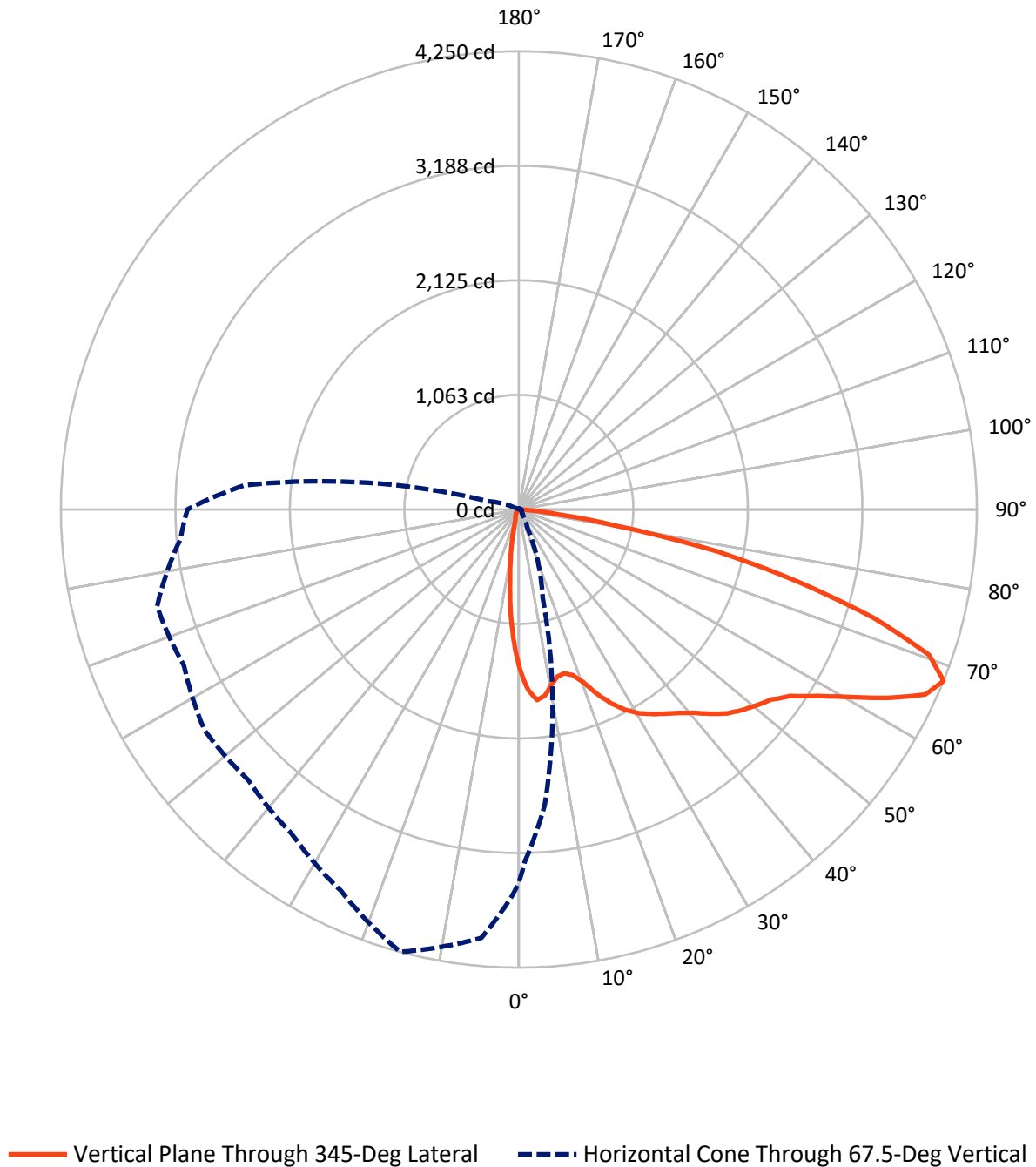
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.8	0.0	555.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4036.2	0.0	4036.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	4592.0	0.0	4592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.5
10°-20°	228.5	5.0
20°-30°	324.5	7.1
30°-40°	479.3	10.4
40°-50°	691.2	15.1
50°-60°	970.4	21.1
60°-70°	1131.2	24.6
70°-80°	578.3	12.6
80°-90°	73.9	1.6
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°	4592.0	100.0
0°-180°	4592.0	100.0

Coefficient of Utilization



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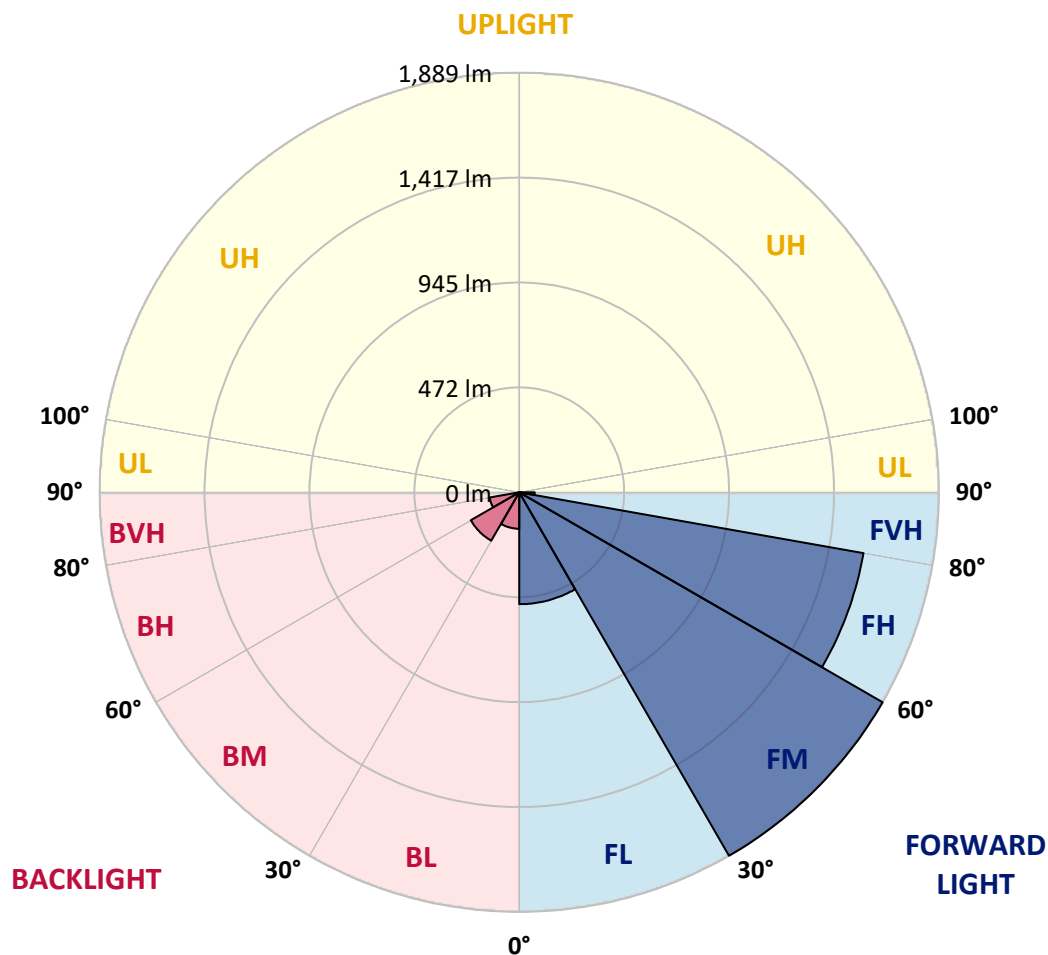
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.7	11.0			
FM	(30°-60°)	1889.2	41.1			
FH	(60°-80°)	1574.0	34.3			G1/1800
FVH	(80°-90°)	69.4	1.5			G1/100
BL	(0°-30°)	164.2	3.6	B1/500		
BM	(30°-60°)	251.7	5.5	B1/1000		
BH	(60°-80°)	135.5	2.9	B1/500		G1/500
BVH	(80°-90°)	4.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1637.9	1625.3	1611.4	1565.9	1523.7	1475.4	1436.0	1408.6	1374.2	1329.6	1318.3
5°	1626.1	1612.7	1568.9	1467.8	1379.2	1293.1	1210.0	1161.3	1100.8	1039.4	1024.2
7.5°	1508.0	1493.9	1430.8	1292.2	1173.0	1048.6	940.7	873.9	805.6	749.4	719.6
10°	1385.1	1369.7	1298.7	1130.6	983.7	871.3	792.1	728.3	663.7	603.7	555.8
12.5°	1300.5	1280.2	1203.2	1012.7	884.8	808.4	734.4	658.1	570.6	506.2	453.6
15°	1265.0	1242.0	1160.6	967.2	849.7	760.1	663.7	570.0	467.5	393.8	345.5
17.5°	1292.4	1262.4	1175.2	964.2	805.8	683.7	561.9	451.8	340.7	266.1	231.7
20°	1385.5	1346.2	1235.4	963.3	752.5	593.0	438.6	314.1	224.5	180.6	162.5
22.5°	1532.2	1480.2	1322.0	970.2	697.4	497.7	316.7	213.4	168.6	145.8	135.1
25°	1709.2	1649.0	1446.7	994.8	649.2	405.1	230.2	168.6	142.3	125.5	116.6
27.5°	1877.6	1828.7	1604.2	1030.3	611.7	330.2	186.9	142.9	121.6	110.5	103.3
30°	2045.8	1984.2	1765.8	1072.5	566.7	279.5	164.2	130.3	109.0	97.2	92.7
32.5°	2168.0	2116.9	1892.4	1103.0	518.6	246.5	146.8	119.2	101.8	89.8	83.1
35°	2311.8	2254.0	2001.0	1109.7	487.7	225.6	132.0	107.2	88.3	77.7	70.5
37.5°	2467.2	2395.2	2126.3	1094.9	463.6	215.4	121.0	101.8	82.4	71.6	64.0
40°	2639.0	2557.7	2246.6	1073.6	439.9	211.9	112.5	97.7	77.9	66.8	59.0
42.5°	2820.0	2724.1	2350.8	1051.2	424.9	199.9	111.6	93.5	74.4	62.4	54.6
45°	2972.1	2874.8	2457.8	1043.8	414.2	186.9	115.3	90.7	72.0	59.0	51.3
47.5°	3093.3	3001.2	2567.5	1060.3	408.1	174.9	105.1	94.4	70.7	55.9	48.5
50°	3237.9	3133.7	2721.9	1109.7	399.2	162.9	95.1	108.1	70.7	54.0	46.1
52.5°	3419.4	3316.2	2894.2	1186.3	381.4	146.4	85.5	108.3	71.4	51.3	43.1
55°	3647.6	3572.7	3140.3	1270.2	352.9	122.0	74.0	93.1	68.7	46.6	40.2
57.5°	3866.4	3805.3	3364.5	1327.7	314.8	95.3	64.4	75.1	62.9	40.9	35.9
59°	3926.2	3859.5	3446.8	1330.3	286.3	83.1	59.6	62.0	61.6	38.3	33.3
60°	3926.2	3855.3	3470.5	1316.4	265.6	76.4	56.6	55.3	64.2	36.5	31.8
62.5°	3855.1	3755.5	3393.5	1222.2	216.7	65.0	49.4	45.7	57.6	32.8	28.1
65°	3707.2	3562.1	3131.1	1051.8	193.2	59.6	42.6	37.4	40.0	28.9	24.6
67.5°	3460.5	3263.8	2752.8	849.7	183.8	58.1	36.8	31.8	30.2	24.8	21.5
70°	3026.0	2807.8	2293.6	668.1	175.8	57.4	30.9	26.8	24.4	20.9	18.3
72.5°	2202.4	1974.9	1628.3	522.3	171.0	58.7	24.8	22.4	20.0	16.3	14.1
75°	1259.8	1110.8	915.2	345.0	145.8	56.1	19.1	18.7	14.4	11.7	9.8
77.5°	650.9	631.1	548.4	132.5	69.8	24.6	12.6	10.9	8.5	7.2	5.9
80°	280.8	277.8	240.4	38.3	18.5	13.7	7.2	4.6	3.9	3.0	2.4
82.5°	97.0	97.0	85.5	12.8	8.3	6.7	0.9	0.0	0.0	0.0	0.0
85°	19.6	22.0	15.4	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1304.6	1278.3	1276.6	1260.0	1239.4	1230.0	1224.6	1234.1	1245.9	1247.2	1264.8
5°	1012.7	985.0	996.6	967.2	973.1	967.2	957.6	959.4	964.6	948.3	968.5
7.5°	711.2	690.3	703.5	695.7	706.1	710.3	704.4	695.7	670.0	667.0	684.6
10°	536.0	512.3	498.2	483.4	486.6	493.4	491.2	484.9	468.6	469.5	486.4
12.5°	430.7	404.2	376.1	339.8	330.9	335.9	330.9	327.2	311.5	312.8	327.8
15°	326.8	305.0	275.6	246.5	230.6	232.1	218.2	208.4	198.6	186.9	196.0
17.5°	220.6	207.3	198.6	189.9	171.0	166.6	149.0	130.1	122.7	117.3	121.2
20°	156.2	149.0	145.5	145.1	134.2	128.8	111.6	99.9	96.2	95.1	97.5
22.5°	130.5	125.3	120.3	117.5	112.0	105.7	92.7	86.8	84.2	82.9	84.6
25°	113.6	109.6	104.4	99.6	97.5	90.7	81.4	77.0	75.3	74.0	74.8
27.5°	100.9	97.5	91.4	88.3	86.6	80.7	72.7	69.2	67.7	67.2	67.0
30°	90.9	87.7	82.0	78.5	75.5	70.3	65.5	62.0	60.5	60.0	59.6
32.5°	80.9	78.3	74.6	71.1	67.9	63.1	59.0	56.1	53.7	53.3	53.1
35°	68.3	65.7	63.7	63.5	60.5	55.9	52.9	49.2	47.2	46.6	46.8
37.5°	60.7	57.2	52.9	54.4	53.5	50.3	46.1	42.4	40.5	40.0	40.0
40°	55.9	52.2	47.2	44.6	47.2	46.6	40.0	36.3	34.4	34.2	33.7
42.5°	51.3	47.6	42.0	37.6	38.9	40.9	34.6	31.1	29.2	28.7	28.1
45°	48.1	44.2	37.9	32.8	30.2	34.4	29.6	25.2	24.1	23.3	22.8
47.5°	45.0	41.3	34.2	28.5	24.1	24.8	23.7	20.7	19.4	18.5	18.3
50°	42.4	38.5	30.9	24.4	20.0	18.3	19.1	16.3	15.2	14.4	13.9
52.5°	39.4	35.7	27.4	21.1	16.8	14.4	14.6	12.8	11.7	11.1	10.9
55°	37.0	33.3	24.6	18.5	14.8	11.7	10.4	10.0	9.4	8.9	8.7
57.5°	33.7	30.2	21.8	15.7	12.6	9.6	8.0	8.0	7.8	7.4	7.2
59°	31.8	28.7	20.0	14.1	11.5	8.3	7.2	7.4	7.2	6.7	6.5
60°	30.2	27.4	18.7	13.1	10.9	7.6	6.5	7.0	6.7	6.3	6.1
62.5°	26.8	24.8	16.1	10.9	9.6	6.1	5.4	5.9	5.9	5.7	5.4
65°	23.5	21.3	13.7	9.1	8.9	5.2	4.4	5.2	5.4	5.0	4.6
67.5°	20.4	18.3	12.0	7.4	8.3	4.1	3.3	4.4	5.9	4.6	4.1
70°	17.4	15.2	9.4	5.9	8.7	2.8	2.6	3.9	7.0	5.0	3.9
72.5°	13.5	11.7	6.5	4.4	9.4	2.0	2.0	3.3	7.8	5.4	3.7
75°	9.4	7.6	3.9	2.6	7.6	1.3	1.3	3.0	7.4	5.0	3.5
77.5°	5.4	4.1	1.3	0.2	3.9	0.0	0.2	2.2	5.2	3.0	1.5
80°	2.0	0.9	0.0	0.0	2.4	0.0	0.0	0.0	0.4	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1269.4	1298.7	1325.1	1364.9	1412.1	1466.5	1513.2	1563.5	1610.7	1630.3	1643.8
5°	972.6	1009.0	1051.4	1109.9	1187.8	1283.7	1373.6	1475.2	1584.4	1639.0	1690.3
7.5°	687.7	724.6	777.3	839.5	933.7	1047.9	1165.4	1305.7	1453.6	1540.0	1625.1
10°	494.5	539.9	589.1	674.2	769.9	878.2	999.2	1155.8	1320.7	1416.4	1518.9
12.5°	336.5	388.3	462.7	558.0	670.5	776.6	881.7	1031.2	1222.6	1317.4	1427.3
15°	201.9	230.6	309.3	419.6	557.6	689.8	804.9	954.8	1158.9	1275.0	1389.2
17.5°	124.4	137.7	180.6	271.1	415.9	583.2	741.0	928.9	1168.0	1309.4	1431.7
20°	99.2	104.4	118.1	160.1	275.6	465.8	668.9	923.7	1242.6	1416.6	1547.8
22.5°	86.1	91.2	100.3	116.4	173.4	348.7	600.6	928.5	1349.6	1577.4	1730.6
25°	75.9	80.3	89.0	102.2	127.0	245.6	527.5	949.8	1489.1	1776.9	1939.6
27.5°	67.9	71.6	79.6	91.8	109.0	171.4	444.7	975.7	1654.4	1981.0	2141.5
30°	60.5	63.7	70.9	82.2	94.6	131.8	353.7	993.3	1820.0	2141.5	2285.7
32.5°	54.2	56.6	63.1	72.7	82.2	105.1	268.9	990.5	1942.9	2275.1	2389.5
35°	47.6	50.0	55.7	64.0	71.6	86.8	211.5	937.6	2049.9	2413.7	2508.3
37.5°	40.5	43.5	48.9	56.3	61.6	76.4	171.0	873.9	2158.5	2572.0	2640.8
40°	34.4	37.4	42.2	50.3	53.5	72.4	131.4	796.2	2280.5	2749.1	2786.1
42.5°	28.5	31.3	36.3	43.3	50.5	62.4	97.2	707.5	2397.8	2900.5	2918.6
45°	23.1	25.9	31.1	38.1	54.0	51.8	75.3	612.4	2492.4	3026.5	3032.4
47.5°	18.3	20.9	26.3	35.9	50.3	41.3	53.7	537.8	2571.8	3124.8	3109.4
50°	14.1	16.3	22.0	41.1	43.9	34.2	40.7	513.0	2642.9	3185.7	3145.7
52.5°	11.1	13.1	18.1	38.5	34.2	28.3	34.2	536.2	2740.4	3236.2	3166.1
55°	8.9	10.9	14.1	22.0	23.3	23.9	29.2	558.0	2908.6	3354.5	3286.9
57.5°	7.4	9.4	11.5	15.4	17.6	20.2	25.9	560.4	3106.8	3551.2	3487.2
59°	6.7	8.5	10.4	13.7	15.4	18.5	24.4	547.3	3176.6	3622.8	3590.8
60°	6.3	8.0	9.8	12.6	14.4	17.4	23.5	534.9	3179.6	3620.2	3634.9
62.5°	5.4	7.2	8.7	10.7	12.2	14.8	21.1	489.0	3050.8	3501.6	3608.4
65°	4.8	6.3	7.8	9.1	10.4	13.3	19.1	405.3	2830.9	3310.4	3426.8
67.5°	4.4	5.4	7.2	8.0	9.4	11.7	17.0	288.9	2556.1	3076.5	3152.0
70°	3.9	5.2	6.5	7.4	8.5	10.2	14.6	166.0	2158.5	2734.1	2787.8
72.5°	3.7	5.0	5.9	7.0	7.6	9.1	13.3	78.1	1580.5	2190.2	2330.6
75°	3.3	4.6	5.4	6.5	7.2	8.3	11.3	37.4	1051.2	1585.0	1744.5
77.5°	2.0	3.7	5.0	5.9	6.3	7.2	9.4	21.5	670.9	1097.1	1292.2
80°	0.0	1.3	3.7	5.0	5.4	6.1	7.2	17.0	358.9	626.7	752.3
82.5°	0.0	0.0	2.6	3.9	3.7	4.1	5.4	10.7	161.9	409.6	461.6
85°	0.0	0.0	0.9	3.0	2.6	2.0	3.7	3.7	35.5	207.3	258.7
87.5°	0.0	0.0	0.0	0.2	1.3	0.9	1.5	0.4	0.2	15.4	62.7
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°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1691.0	1707.1	1734.3	1747.1	1740.8	1714.0	1682.1	1649.4	1630.3	1637.9
5°	1795.0	1877.8	1925.7	1941.6	1915.0	1855.0	1776.5	1672.9	1636.2	1626.1
7.5°	1795.0	1950.9	2049.7	2067.1	2007.9	1890.2	1743.0	1581.3	1527.6	1508.0
10°	1731.9	1944.2	2081.9	2109.5	2026.9	1850.9	1653.6	1469.1	1405.3	1385.1
12.5°	1660.7	1889.4	2034.5	2072.5	2004.7	1811.7	1591.6	1393.2	1318.1	1300.5
15°	1617.0	1821.9	1942.0	1969.6	1940.9	1788.9	1576.8	1370.3	1282.0	1265.0
17.5°	1632.7	1769.7	1813.0	1829.1	1848.5	1780.8	1617.0	1420.3	1308.5	1292.4
20°	1691.6	1714.7	1692.3	1712.5	1764.7	1788.7	1712.9	1541.3	1407.1	1385.5
22.5°	1791.7	1686.2	1623.3	1631.4	1694.9	1814.5	1859.6	1714.0	1559.1	1532.2
25°	1908.3	1709.2	1585.0	1577.8	1643.1	1848.7	1993.6	1902.0	1739.1	1709.2
27.5°	2054.9	1761.0	1577.2	1570.0	1625.1	1880.7	2105.0	2087.8	1928.5	1877.6
30°	2168.0	1811.9	1600.5	1583.9	1643.1	1902.9	2194.4	2245.5	2079.5	2045.8
32.5°	2249.2	1872.0	1638.3	1614.4	1694.0	1941.1	2263.3	2389.9	2219.2	2168.0
35°	2311.0	1937.2	1699.5	1660.1	1764.1	1999.2	2327.9	2543.7	2367.8	2311.8
37.5°	2368.8	2028.8	1795.0	1748.0	1873.9	2092.8	2396.3	2718.2	2534.0	2467.2
40°	2449.6	2132.6	1942.2	1900.5	2058.6	2220.3	2481.5	2900.1	2723.0	2639.0
42.5°	2530.3	2244.0	2093.0	2104.3	2289.0	2375.2	2591.6	3092.4	2909.7	2820.0
45°	2604.0	2358.8	2307.7	2359.9	2502.8	2545.1	2701.0	3203.6	3058.7	2972.1
47.5°	2669.7	2502.4	2521.1	2660.1	2746.1	2698.9	2782.8	3299.5	3169.6	3093.3
50°	2746.1	2688.2	2802.4	2999.1	3026.0	2838.1	2857.2	3413.1	3299.3	3237.9
52.5°	2829.6	2884.0	3113.9	3287.3	3278.6	2989.3	2932.1	3540.3	3477.0	3419.4
55°	2924.4	3042.1	3388.3	3557.1	3549.7	3158.1	3056.1	3697.6	3699.8	3647.6
57.5°	3065.2	3178.3	3574.5	3775.3	3787.7	3353.0	3266.2	3873.8	3901.2	3866.4
59°	3166.1	3266.6	3648.2	3866.4	3916.9	3503.8	3419.8	3976.1	3958.0	3926.2
60°	3241.0	3322.8	3684.8	3914.1	3991.9	3606.0	3533.1	4036.1	3964.7	3926.2
62.5°	3426.1	3445.0	3750.7	3968.0	4078.3	3833.1	3852.1	4138.3	3918.0	3855.1
65°	3512.5	3522.3	3749.8	3871.4	3994.8	4010.0	4141.4	4141.4	3803.8	3707.2
67.5°	3476.4	3429.2	3563.8	3551.2	3674.3	3904.9	4250.2	3989.5	3585.3	3460.5
70°	3182.7	3001.0	2941.2	2946.6	3040.8	3396.5	4034.8	3542.7	3172.0	3026.0
72.5°	2648.2	2212.4	2064.7	2233.3	2257.9	2610.3	3438.5	2668.0	2339.3	2202.4
75°	2130.0	1559.6	1319.4	1497.4	1539.1	1910.3	2659.9	1661.6	1366.4	1259.8
77.5°	1530.2	1119.5	946.8	934.4	988.3	1211.5	1887.4	836.2	697.4	650.9
80°	869.3	736.8	793.4	748.6	775.8	757.5	896.7	366.8	300.4	280.8
82.5°	524.7	435.5	471.6	392.7	496.9	432.7	345.5	117.5	102.0	97.0
85°	341.3	238.0	124.0	83.1	171.2	276.5	77.2	32.0	24.6	19.6
87.5°	117.7	60.7	6.1	2.6	18.3	51.6	2.8	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

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