

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: P324465

Luminaire Tested: **GAN-SA1A-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324465
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-SA1A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3617 lumens
Efficiency: N/A
Efficacy: 106.4 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

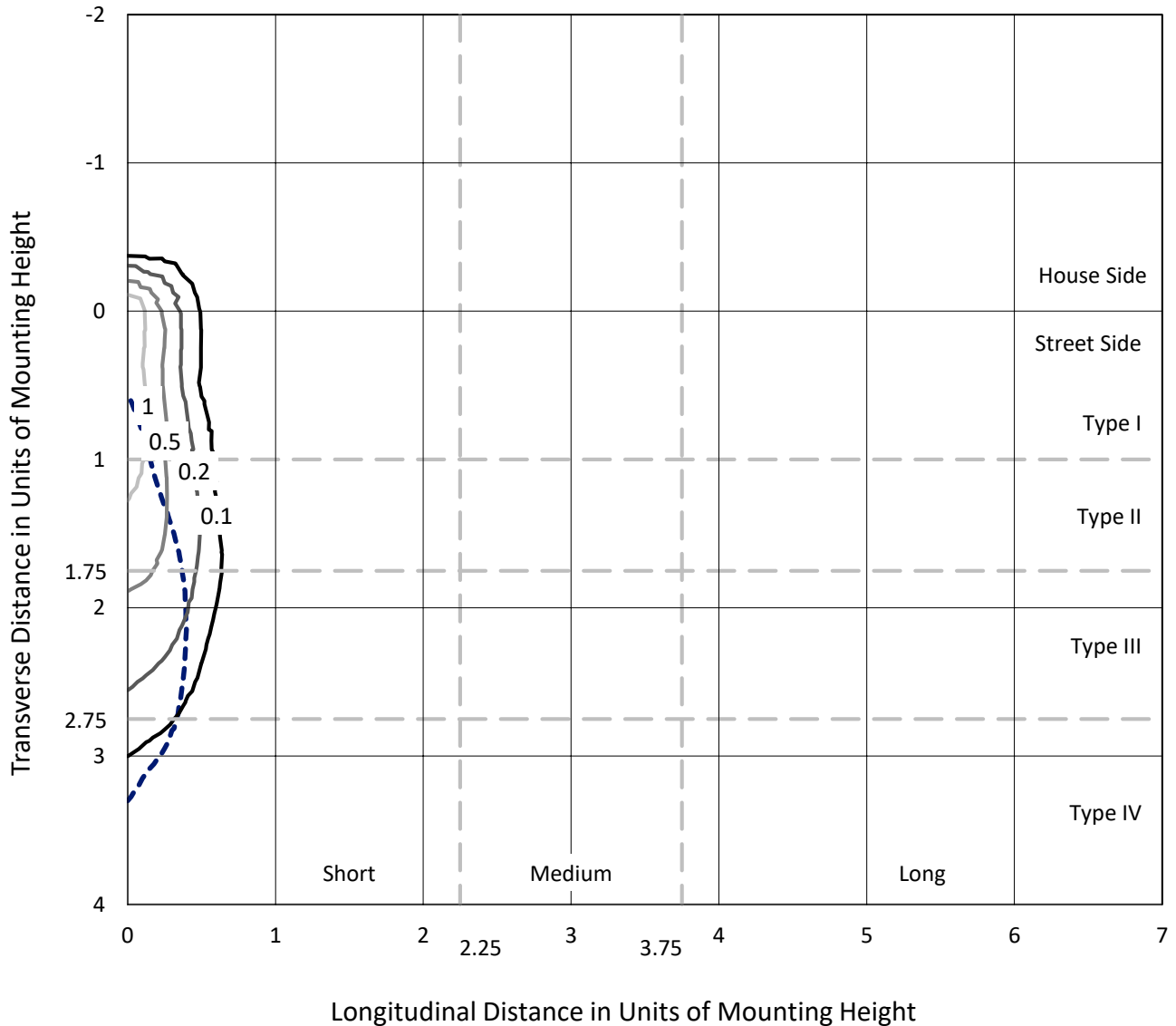
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

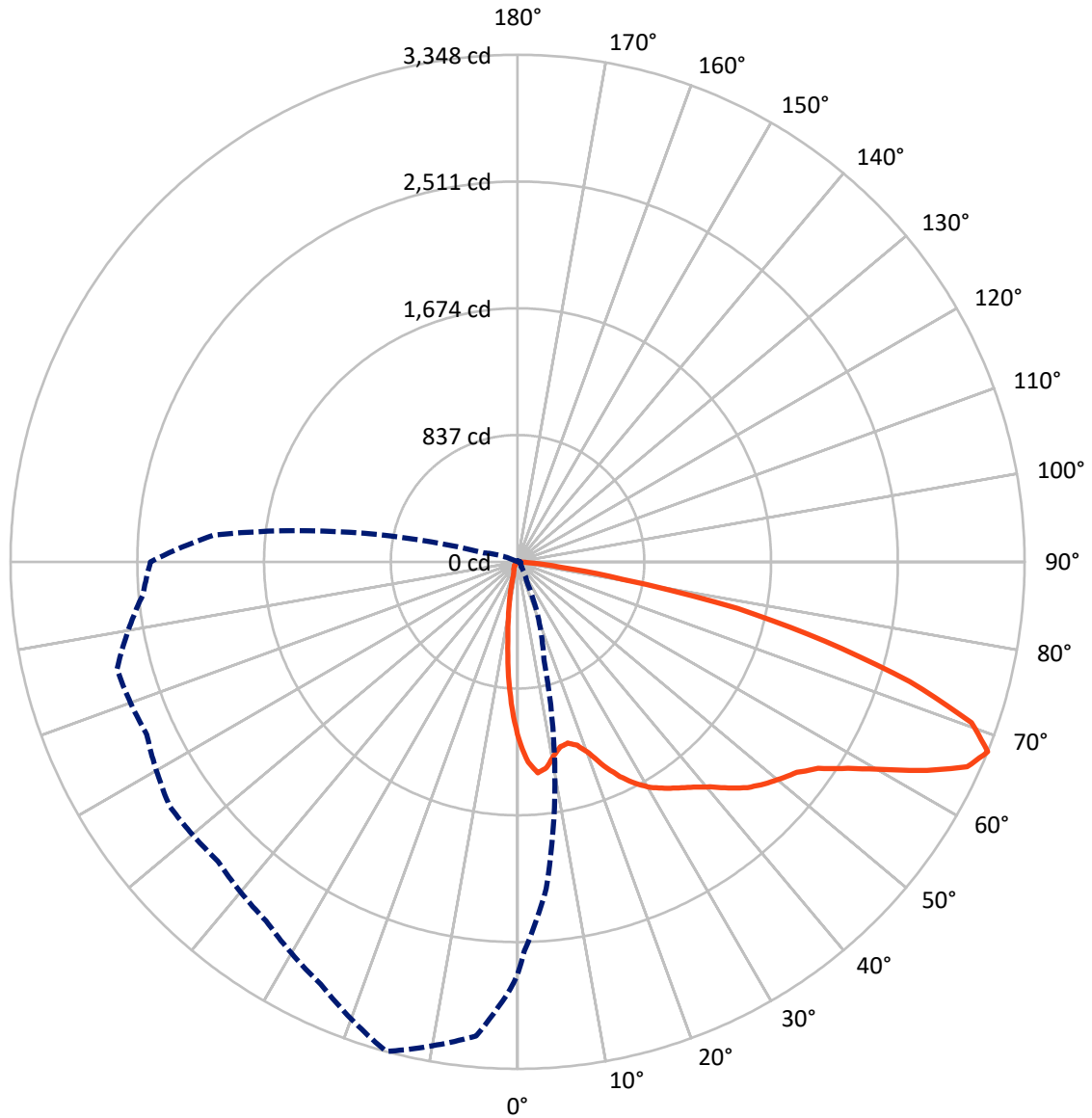
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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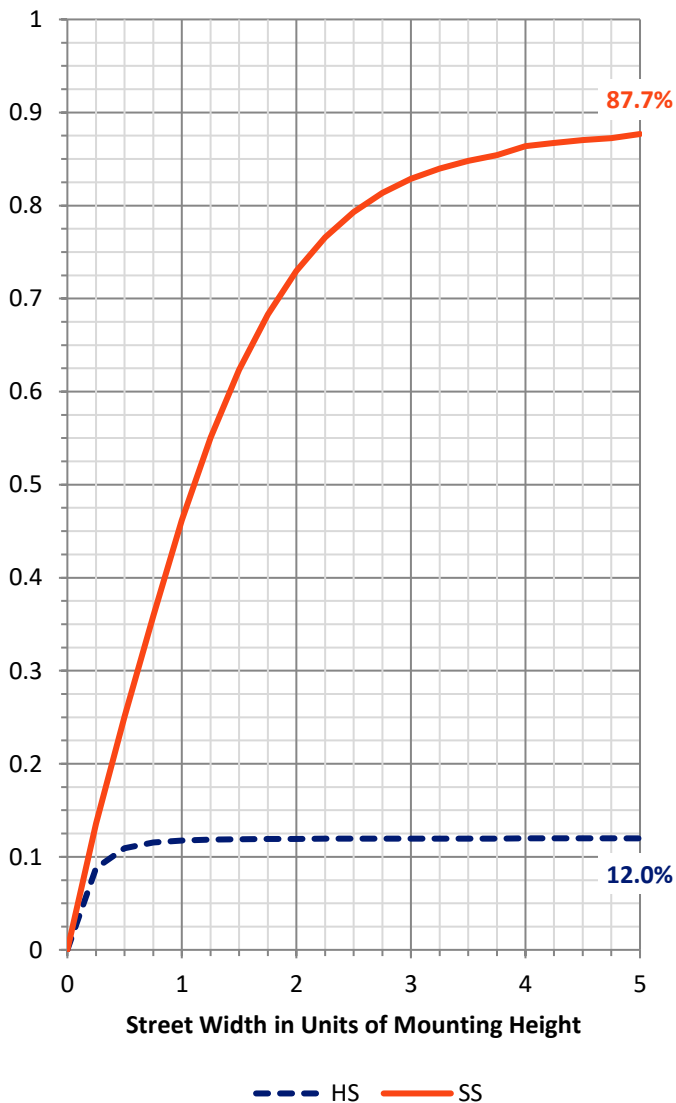
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.8	0.0	437.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3179.2	0.0	3179.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	3617.0	0.0	3617.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	2.5
10°-20°	180.0	5.0
20°-30°	255.6	7.1
30°-40°	377.5	10.4
40°-50°	544.5	15.1
50°-60°	764.3	21.1
60°-70°	891.0	24.6
70°-80°	455.5	12.6
80°-90°	58.2	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°	3617.0	100.0
0°-180°	3617.0	100.0

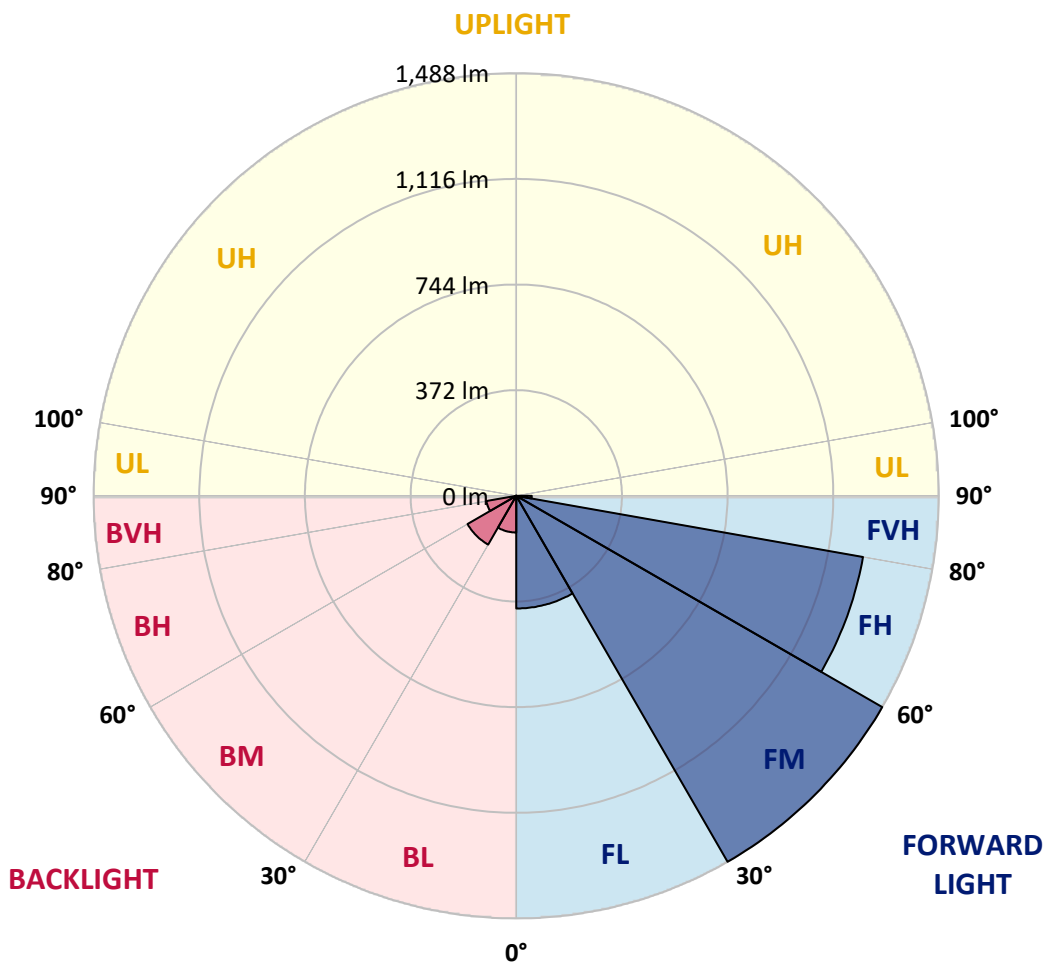


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.7	11.0			
FM (30°-60°)	1488.1	41.1			
FH (60°-80°)	1239.8	34.3			G1/1800
FVH (80°-90°)	54.6	1.5			G1/100
BL (0°-30°)	129.3	3.6	B1/500		
BM (30°-60°)	198.2	5.5	B0/220		
BH (60°-80°)	106.7	2.9	B0/110		G0/110
BVH (80°-90°)	3.5	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°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1290.1	1280.2	1269.2	1233.4	1200.2	1162.1	1131.1	1109.5	1082.4	1047.3	1038.4
5°	1280.9	1270.2	1235.8	1156.1	1086.4	1018.5	953.1	914.7	867.1	818.7	806.7
7.5°	1187.8	1176.7	1127.0	1017.8	923.9	825.9	740.9	688.3	634.5	590.3	566.8
10°	1091.0	1078.8	1023.0	890.5	774.9	686.3	623.9	573.7	522.8	475.5	437.8
12.5°	1024.4	1008.4	947.8	797.7	696.9	636.8	578.5	518.3	449.5	398.7	357.3
15°	996.4	978.3	914.2	761.8	669.3	598.7	522.8	448.9	368.2	310.2	272.1
17.5°	1018.0	994.4	925.7	759.4	634.7	538.6	442.6	355.9	268.3	209.6	182.5
20°	1091.4	1060.3	973.1	758.8	592.7	467.1	345.4	247.4	176.8	142.2	128.0
22.5°	1206.8	1165.9	1041.3	764.2	549.4	392.1	249.5	168.1	132.8	114.8	106.4
25°	1346.3	1298.9	1139.5	783.6	511.3	319.1	181.3	132.8	112.1	98.9	91.8
27.5°	1479.0	1440.4	1263.6	811.5	481.8	260.1	147.2	112.6	95.8	87.0	81.4
30°	1611.4	1562.9	1390.9	844.8	446.4	220.2	129.4	102.6	85.8	76.6	73.0
32.5°	1707.7	1667.4	1490.6	868.8	408.5	194.1	115.7	93.9	80.2	70.8	65.5
35°	1821.0	1775.4	1576.1	874.1	384.2	177.7	104.0	84.5	69.6	61.2	55.5
37.5°	1943.3	1886.6	1674.8	862.4	365.2	169.6	95.3	80.2	64.9	56.4	50.4
40°	2078.7	2014.6	1769.6	845.6	346.5	166.9	88.6	76.9	61.3	52.6	46.4
42.5°	2221.3	2145.7	1851.7	828.0	334.7	157.5	87.9	73.7	58.6	49.2	43.0
45°	2341.0	2264.4	1936.0	822.2	326.3	147.2	90.8	71.5	56.7	46.4	40.4
47.5°	2436.5	2364.0	2022.3	835.2	321.5	137.8	82.8	74.4	55.7	44.0	38.2
50°	2550.4	2468.4	2144.0	874.1	314.4	128.3	74.9	85.2	55.7	42.5	36.3
52.5°	2693.3	2612.1	2279.7	934.4	300.4	115.3	67.3	85.3	56.2	40.4	33.9
55°	2873.1	2814.1	2473.5	1000.5	277.9	96.1	58.3	73.3	54.1	36.7	31.7
57.5°	3045.5	2997.3	2650.2	1045.8	247.9	75.1	50.7	59.1	49.5	32.2	28.3
59°	3092.6	3040.0	2714.9	1047.8	225.5	65.5	47.0	48.8	48.5	30.2	26.2
60°	3092.6	3036.7	2733.6	1036.9	209.2	60.1	44.6	43.5	50.5	28.8	25.0
62.5°	3036.6	2958.1	2673.0	962.7	170.7	51.2	38.9	36.0	45.4	25.9	22.1
65°	2920.0	2805.8	2466.3	828.5	152.2	47.0	33.6	29.5	31.5	22.8	19.4
67.5°	2725.7	2570.8	2168.3	669.3	144.8	45.8	29.0	25.0	23.8	19.5	17.0
70°	2383.5	2211.7	1806.6	526.2	138.5	45.2	24.3	21.1	19.2	16.4	14.4
72.5°	1734.8	1555.6	1282.6	411.4	134.7	46.3	19.5	17.6	15.8	12.9	11.1
75°	992.3	874.9	720.9	271.8	114.8	44.2	15.1	14.7	11.3	9.3	7.7
77.5°	512.7	497.1	432.0	104.4	55.0	19.4	9.9	8.6	6.7	5.7	4.6
80°	221.2	218.8	189.3	30.2	14.6	10.8	5.7	3.6	3.1	2.4	1.9
82.5°	76.4	76.4	67.3	10.1	6.5	5.3	0.7	0.0	0.0	0.0	0.0
85°	15.4	17.3	12.2	0.0	2.2	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°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1027.6	1006.9	1005.5	992.5	976.2	968.8	964.6	972.1	981.3	982.4	996.3
5°	797.7	775.9	785.0	761.8	766.5	761.8	754.3	755.7	759.8	746.9	762.9
7.5°	560.2	543.7	554.2	548.0	556.2	559.5	554.8	548.0	527.8	525.4	539.3
10°	422.2	403.5	392.4	380.7	383.3	388.6	386.9	381.9	369.1	369.8	383.1
12.5°	339.3	318.4	296.3	267.7	260.6	264.6	260.6	257.7	245.4	246.4	258.2
15°	257.4	240.2	217.1	194.1	181.6	182.8	171.9	164.2	156.4	147.2	154.4
17.5°	173.8	163.3	156.4	149.6	134.7	131.3	117.4	102.5	96.6	92.4	95.4
20°	123.0	117.4	114.6	114.3	105.7	101.4	87.9	78.7	75.7	74.9	76.8
22.5°	102.8	98.7	94.8	92.5	88.2	83.3	73.0	68.4	66.3	65.3	66.7
25°	89.4	86.4	82.2	78.5	76.8	71.5	64.1	60.7	59.3	58.3	58.9
27.5°	79.5	76.8	72.0	69.6	68.2	63.6	57.2	54.5	53.3	52.9	52.8
30°	71.6	69.1	64.6	61.9	59.5	55.3	51.6	48.8	47.6	47.3	47.0
32.5°	63.7	61.7	58.8	56.0	53.5	49.7	46.4	44.2	42.3	42.0	41.8
35°	53.8	51.7	50.2	50.0	47.6	44.0	41.6	38.7	37.2	36.7	36.8
37.5°	47.8	45.1	41.6	42.8	42.2	39.6	36.3	33.4	31.9	31.5	31.5
40°	44.0	41.1	37.2	35.1	37.2	36.7	31.5	28.6	27.1	26.9	26.6
42.5°	40.4	37.5	33.1	29.6	30.7	32.2	27.2	24.5	23.0	22.6	22.1
45°	37.9	34.8	29.8	25.9	23.8	27.1	23.3	19.9	19.0	18.3	18.0
47.5°	35.5	32.6	26.9	22.4	19.0	19.5	18.7	16.3	15.3	14.6	14.4
50°	33.4	30.3	24.3	19.2	15.8	14.4	15.1	12.9	12.0	11.3	11.0
52.5°	31.0	28.1	21.6	16.6	13.2	11.3	11.5	10.1	9.3	8.7	8.6
55°	29.1	26.2	19.4	14.6	11.7	9.3	8.2	7.9	7.4	7.0	6.9
57.5°	26.6	23.8	17.1	12.3	9.9	7.5	6.3	6.3	6.2	5.8	5.7
59°	25.0	22.6	15.8	11.1	9.1	6.5	5.7	5.8	5.7	5.3	5.1
60°	23.8	21.6	14.7	10.3	8.6	6.0	5.1	5.5	5.3	5.0	4.8
62.5°	21.1	19.5	12.7	8.6	7.5	4.8	4.3	4.6	4.6	4.5	4.3
65°	18.5	16.8	10.8	7.2	7.0	4.1	3.4	4.1	4.3	3.9	3.6
67.5°	16.1	14.4	9.4	5.8	6.5	3.3	2.6	3.4	4.6	3.6	3.3
70°	13.7	12.0	7.4	4.6	6.9	2.2	2.1	3.1	5.5	3.9	3.1
72.5°	10.6	9.3	5.1	3.4	7.4	1.5	1.5	2.6	6.2	4.3	2.9
75°	7.4	6.0	3.1	2.1	6.0	1.0	1.0	2.4	5.8	3.9	2.7
77.5°	4.3	3.3	1.0	0.2	3.1	0.0	0.2	1.7	4.1	2.4	1.2
80°	1.5	0.7	0.0	0.0	1.9	0.0	0.0	0.0	0.3	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°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	999.9	1023.0	1043.7	1075.1	1112.3	1155.1	1191.9	1231.5	1268.7	1284.1	1294.8
5°	766.1	794.7	828.2	874.2	935.6	1011.2	1081.9	1162.0	1248.0	1291.0	1331.4
7.5°	541.7	570.8	612.2	661.3	735.5	825.4	917.9	1028.5	1145.0	1213.0	1280.0
10°	389.5	425.3	464.0	531.0	606.4	691.8	787.0	910.4	1040.3	1115.7	1196.4
12.5°	265.1	305.9	364.5	439.5	528.1	611.7	694.5	812.2	963.0	1037.7	1124.3
15°	159.0	181.6	243.7	330.5	439.2	543.4	634.0	752.1	912.8	1004.3	1094.3
17.5°	98.0	108.5	142.2	213.5	327.6	459.4	583.6	731.7	920.0	1031.4	1127.7
20°	78.1	82.2	93.0	126.1	217.1	366.9	526.9	727.6	978.8	1115.9	1219.2
22.5°	67.9	71.8	79.0	91.7	136.6	274.7	473.1	731.3	1063.1	1242.5	1363.1
25°	59.8	63.2	70.1	80.5	100.1	193.5	415.5	748.1	1172.9	1399.6	1527.8
27.5°	53.5	56.4	62.7	72.3	85.8	135.0	350.2	768.5	1303.1	1560.4	1686.8
30°	47.6	50.2	55.9	64.8	74.5	103.8	278.6	782.4	1433.5	1686.8	1800.4
32.5°	42.7	44.6	49.7	57.2	64.8	82.8	211.8	780.2	1530.4	1792.0	1882.2
35°	37.5	39.4	43.9	50.4	56.4	68.4	166.6	738.5	1614.7	1901.2	1975.7
37.5°	31.9	34.3	38.6	44.4	48.5	60.1	134.7	688.3	1700.2	2025.9	2080.1
40°	27.1	29.5	33.2	39.6	42.2	57.1	103.5	627.2	1796.3	2165.4	2194.5
42.5°	22.4	24.7	28.6	34.1	39.8	49.2	76.6	557.2	1888.7	2284.7	2298.9
45°	18.2	20.4	24.5	30.0	42.5	40.8	59.3	482.4	1963.2	2383.9	2388.5
47.5°	14.4	16.4	20.7	28.3	39.6	32.6	42.3	423.6	2025.7	2461.3	2449.2
50°	11.1	12.9	17.3	32.4	34.6	26.9	32.0	404.1	2081.8	2509.3	2477.8
52.5°	8.7	10.3	14.2	30.3	26.9	22.3	26.9	422.4	2158.5	2549.1	2493.9
55°	7.0	8.6	11.1	17.3	18.3	18.8	23.0	439.5	2291.0	2642.3	2589.0
57.5°	5.8	7.4	9.1	12.2	13.9	15.9	20.4	441.4	2447.1	2797.2	2746.8
59°	5.3	6.7	8.2	10.8	12.2	14.6	19.2	431.1	2502.1	2853.6	2828.4
60°	5.0	6.3	7.7	9.9	11.3	13.7	18.5	421.4	2504.5	2851.5	2863.2
62.5°	4.3	5.7	6.9	8.4	9.6	11.7	16.6	385.2	2403.1	2758.1	2842.3
65°	3.8	5.0	6.2	7.2	8.2	10.5	15.1	319.2	2229.8	2607.5	2699.2
67.5°	3.4	4.3	5.7	6.3	7.4	9.3	13.4	227.6	2013.4	2423.3	2482.8
70°	3.1	4.1	5.1	5.8	6.7	8.1	11.5	130.7	1700.2	2153.6	2195.9
72.5°	2.9	3.9	4.6	5.5	6.0	7.2	10.5	61.5	1244.9	1725.2	1835.7
75°	2.6	3.6	4.3	5.1	5.7	6.5	8.9	29.5	828.0	1248.5	1374.1
77.5°	1.5	2.9	3.9	4.6	5.0	5.7	7.4	17.0	528.5	864.1	1017.8
80°	0.0	1.0	2.9	3.9	4.3	4.8	5.7	13.4	282.7	493.7	592.5
82.5°	0.0	0.0	2.1	3.1	2.9	3.3	4.3	8.4	127.5	322.7	363.6
85°	0.0	0.0	0.7	2.4	2.1	1.5	2.9	2.9	27.9	163.3	203.7
87.5°	0.0	0.0	0.0	0.2	1.0	0.7	1.2	0.3	0.2	12.2	49.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1331.9	1344.6	1366.0	1376.1	1371.2	1350.1	1324.9	1299.2	1284.1	1290.1
5°	1413.8	1479.1	1516.8	1529.3	1508.4	1461.1	1399.3	1317.7	1288.8	1280.9
7.5°	1413.8	1536.7	1614.5	1628.2	1581.6	1488.9	1372.9	1245.6	1203.2	1187.8
10°	1364.2	1531.4	1639.9	1661.6	1596.5	1457.9	1302.5	1157.2	1106.9	1091.0
12.5°	1308.1	1488.2	1602.5	1632.5	1579.0	1427.0	1253.6	1097.4	1038.2	1024.4
15°	1273.7	1435.1	1529.7	1551.4	1528.8	1409.0	1242.0	1079.4	1009.8	996.4
17.5°	1286.0	1394.0	1428.1	1440.7	1456.0	1402.7	1273.7	1118.8	1030.7	1018.0
20°	1332.4	1350.6	1333.0	1348.9	1390.0	1408.9	1349.2	1214.0	1108.3	1091.4
22.5°	1411.3	1328.2	1278.6	1285.0	1335.0	1429.3	1464.7	1350.1	1228.1	1206.8
25°	1503.1	1346.3	1248.5	1242.8	1294.2	1456.2	1570.3	1498.1	1369.8	1346.3
27.5°	1618.6	1387.1	1242.3	1236.7	1280.0	1481.4	1658.0	1644.5	1519.1	1479.0
30°	1707.7	1427.2	1260.7	1247.6	1294.2	1498.8	1728.4	1768.7	1638.0	1611.4
32.5°	1771.6	1474.5	1290.5	1271.6	1334.3	1529.0	1782.8	1882.5	1748.0	1707.7
35°	1820.3	1525.9	1338.6	1307.6	1389.5	1574.7	1833.7	2003.6	1865.0	1821.0
37.5°	1865.9	1598.0	1413.8	1376.8	1476.0	1648.4	1887.5	2141.1	1995.9	1943.3
40°	1929.4	1679.8	1529.8	1496.9	1621.5	1748.8	1954.6	2284.3	2144.8	2078.7
42.5°	1993.0	1767.5	1648.6	1657.5	1803.0	1870.8	2041.3	2435.8	2291.9	2221.3
45°	2051.1	1858.0	1817.7	1858.8	1971.4	2004.7	2127.5	2523.4	2409.2	2341.0
47.5°	2102.9	1971.1	1985.8	2095.3	2163.0	2125.8	2192.0	2598.9	2496.6	2436.5
50°	2163.0	2117.4	2207.4	2362.3	2383.5	2235.5	2250.6	2688.4	2598.8	2550.4
52.5°	2228.8	2271.6	2452.8	2589.3	2582.5	2354.6	2309.5	2788.6	2738.8	2693.3
55°	2303.5	2396.2	2668.8	2801.8	2796.0	2487.5	2407.2	2912.5	2914.2	2873.1
57.5°	2414.4	2503.5	2815.5	2973.7	2983.4	2641.1	2572.7	3051.3	3072.9	3045.5
59°	2493.9	2573.1	2873.6	3045.5	3085.2	2759.8	2693.7	3131.8	3117.6	3092.6
60°	2552.8	2617.3	2902.4	3083.0	3144.3	2840.4	2783.0	3179.1	3122.9	3092.6
62.5°	2698.7	2713.6	2954.3	3125.5	3212.4	3019.3	3034.2	3259.7	3086.1	3036.6
65°	2766.7	2774.4	2953.6	3049.4	3146.6	3158.6	3262.1	3262.1	2996.1	2920.0
67.5°	2738.2	2701.1	2807.1	2797.2	2894.2	3075.8	3347.7	3142.5	2824.1	2725.7
70°	2506.9	2363.8	2316.7	2321.0	2395.2	2675.4	3178.1	2790.5	2498.5	2383.5
72.5°	2085.9	1742.7	1626.3	1759.1	1778.5	2056.1	2708.4	2101.5	1842.6	1734.8
75°	1677.7	1228.4	1039.3	1179.4	1212.3	1504.7	2095.1	1308.8	1076.3	992.3
77.5°	1205.3	881.8	745.7	736.0	778.5	954.3	1486.7	658.7	549.4	512.7
80°	684.7	580.4	624.9	589.6	611.0	596.7	706.3	288.9	236.6	221.2
82.5°	413.3	343.1	371.5	309.3	391.4	340.8	272.1	92.5	80.4	76.4
85°	268.9	187.5	97.7	65.5	134.9	217.8	60.8	25.2	19.4	15.4
87.5°	92.7	47.8	4.8	2.1	14.4	40.6	2.2	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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