

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: P324395

Luminaire Tested: **GAN-SA1B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324395
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-SA1B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3710 lumens
Efficiency: N/A
Efficacy: 84.3 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

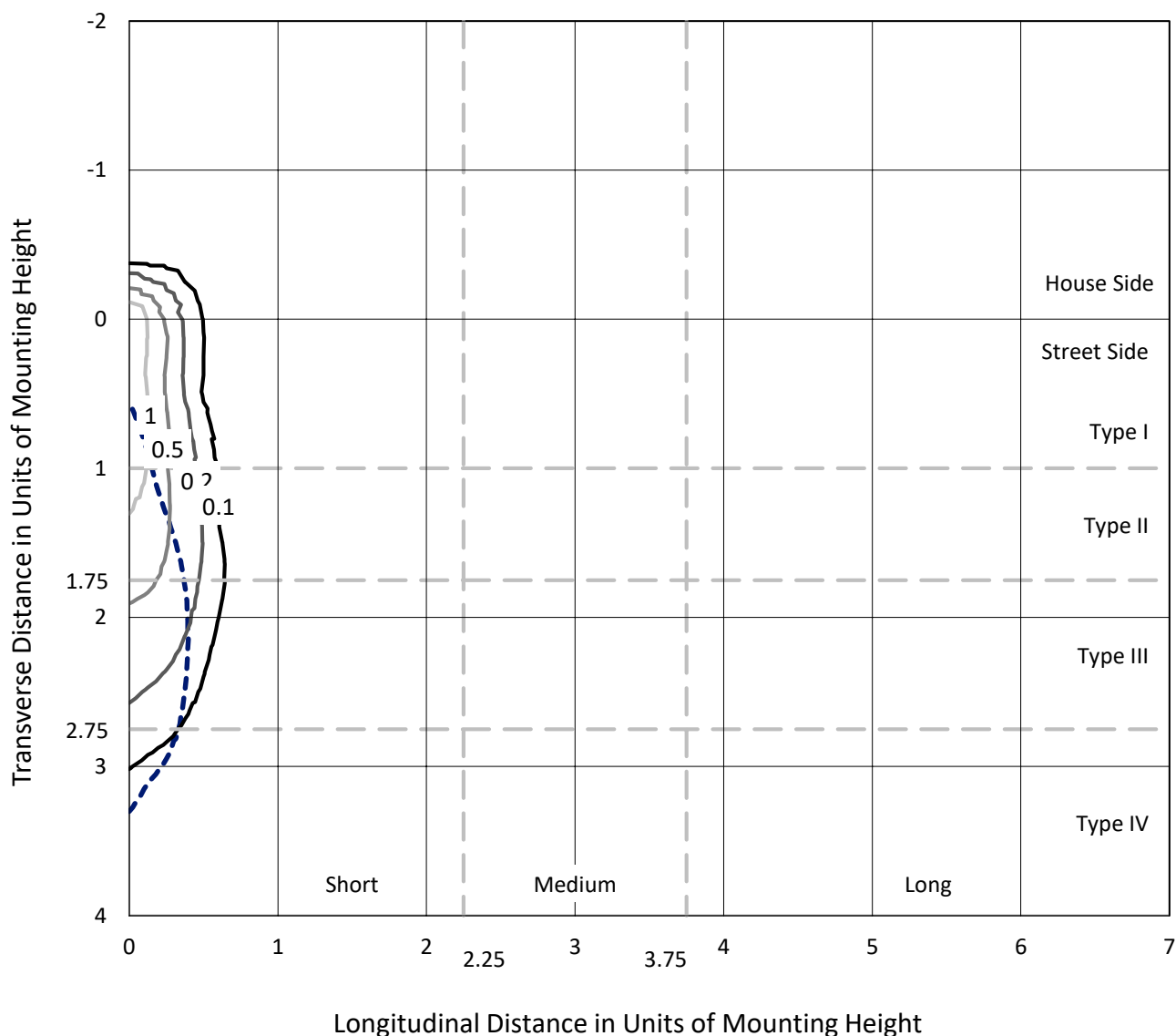
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

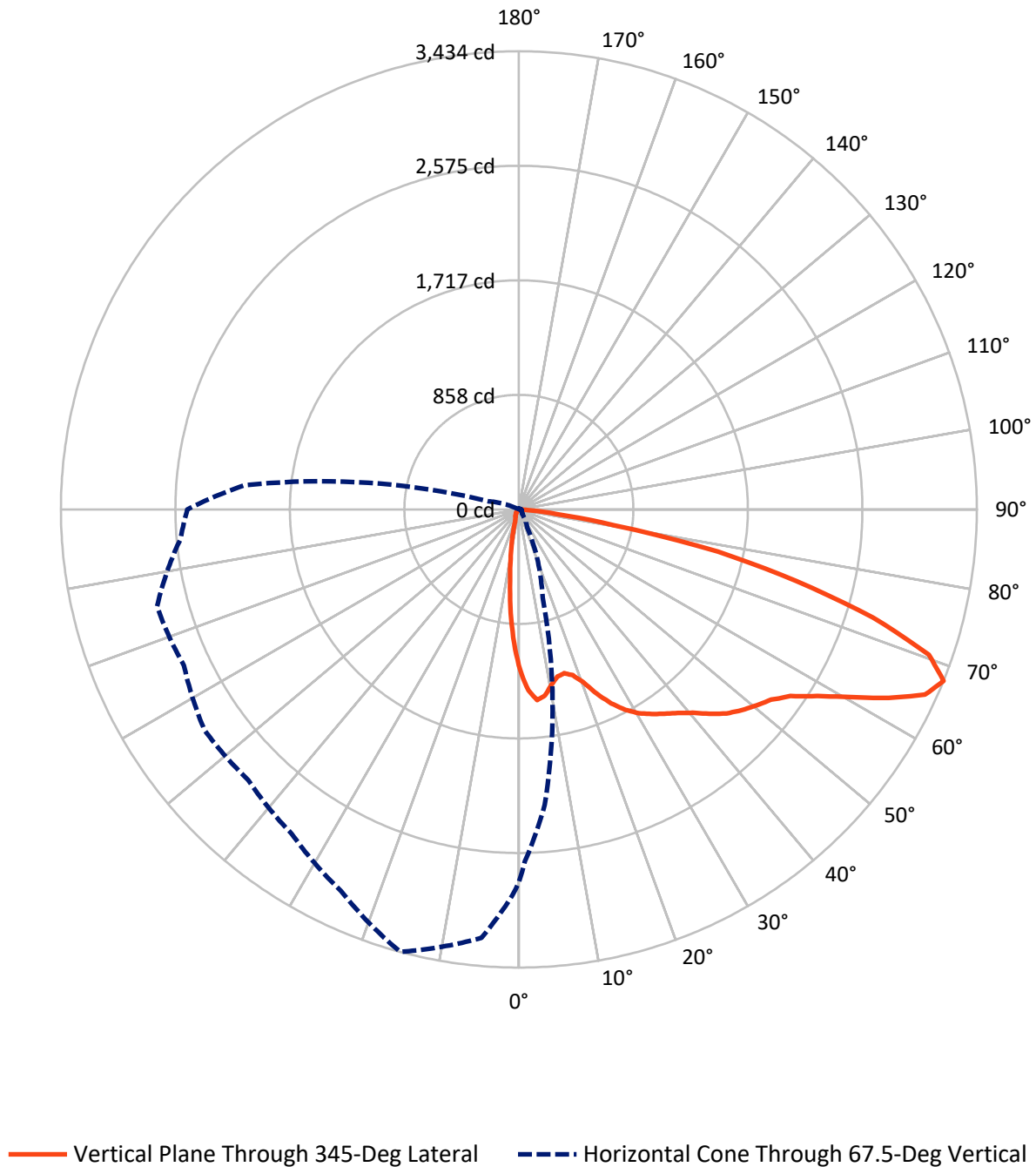
× Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.0	0.0	449.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3261.0	0.0	3261.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	3710.0	0.0	3710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	2.5
10°-20°	184.6	5.0
20°-30°	262.2	7.1
30°-40°	387.2	10.4
40°-50°	558.5	15.1
50°-60°	784.0	21.1
60°-70°	913.9	24.6
70°-80°	467.2	12.6
80°-90°	59.7	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°	3710.0	100.0
0°-180°	3710.0	100.0

Coefficient of Utilization



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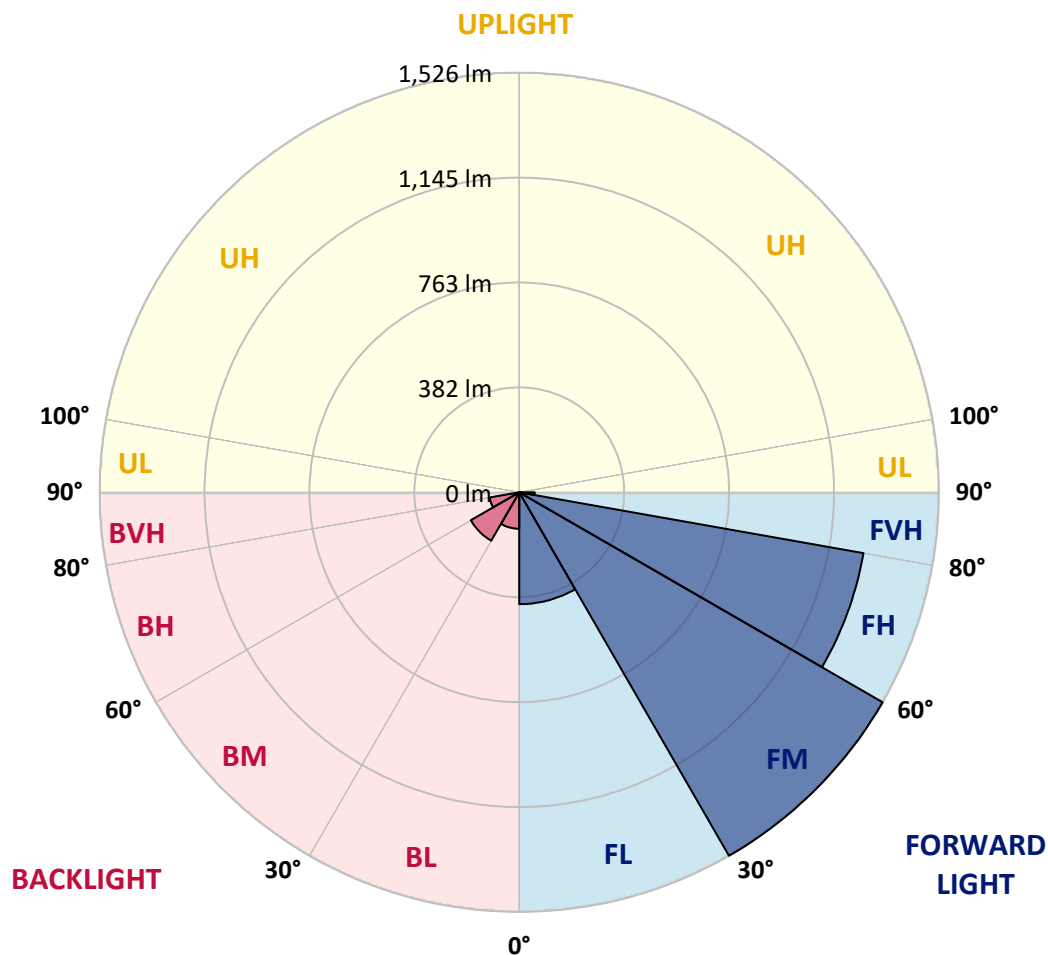
CATALOG NUMBER: GAN-SA1B-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	406.9	11.0			
FM	(30°-60°)	1526.4	41.1			
FH	(60°-80°)	1271.7	34.3			G1/1800
FVH	(80°-90°)	56.0	1.5			G1/100
BL	(0°-30°)	132.6	3.6	B1/500		
BM	(30°-60°)	203.3	5.5	B0/220		
BH	(60°-80°)	109.4	2.9	B0/110		G0/110
BVH	(80°-90°)	3.6	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1323.3	1313.1	1301.9	1265.1	1231.0	1192.0	1160.2	1138.0	1110.3	1074.2	1065.1
5°	1313.8	1302.9	1267.6	1185.9	1114.3	1044.7	977.6	938.2	889.3	839.8	827.5
7.5°	1218.4	1206.9	1156.0	1044.0	947.7	847.2	760.0	706.0	650.8	605.5	581.4
10°	1119.1	1106.6	1049.3	913.4	794.8	703.9	639.9	588.4	536.2	487.7	449.1
12.5°	1050.7	1034.3	972.1	818.2	714.8	653.1	593.4	531.7	461.0	409.0	366.5
15°	1022.0	1003.4	937.7	781.4	686.5	614.1	536.2	460.5	377.7	318.1	279.1
17.5°	1044.2	1019.9	949.5	779.0	651.0	552.4	454.0	365.1	275.2	215.0	187.2
20°	1119.4	1087.6	998.1	778.3	608.0	479.1	354.3	253.8	181.4	145.9	131.3
22.5°	1237.9	1195.9	1068.1	783.9	563.5	402.1	255.9	172.4	136.2	117.8	109.1
25°	1380.9	1332.3	1168.8	803.8	524.5	327.3	186.0	136.2	114.9	101.4	94.2
27.5°	1517.0	1477.4	1296.1	832.4	494.2	266.8	151.0	115.5	98.2	89.3	83.5
30°	1652.8	1603.1	1426.6	866.5	457.9	225.9	132.7	105.3	88.1	78.6	74.9
32.5°	1751.6	1710.3	1528.9	891.1	419.0	199.1	118.6	96.3	82.3	72.6	67.1
35°	1867.8	1821.0	1616.6	896.6	394.1	182.3	106.7	86.6	71.4	62.7	56.9
37.5°	1993.3	1935.1	1717.9	884.6	374.5	174.0	97.7	82.3	66.6	57.8	51.7
40°	2132.1	2066.4	1815.1	867.4	355.4	171.2	90.9	78.9	62.9	54.0	47.6
42.5°	2278.4	2200.9	1899.3	849.3	343.3	161.5	90.2	75.6	60.1	50.4	44.1
45°	2401.2	2322.7	1985.7	843.3	334.6	151.0	93.2	73.3	58.2	47.6	41.5
47.5°	2499.1	2424.8	2074.3	856.7	329.7	141.3	84.9	76.3	57.1	45.2	39.2
50°	2616.0	2531.8	2199.1	896.6	322.5	131.6	76.8	87.4	57.1	43.6	37.3
52.5°	2762.6	2679.3	2338.3	958.4	308.1	118.3	69.1	87.5	57.6	41.5	34.8
55°	2947.0	2886.5	2537.1	1026.3	285.1	98.6	59.8	75.2	55.5	37.6	32.5
57.5°	3123.8	3074.4	2718.3	1072.7	254.3	77.0	52.0	60.6	50.8	33.0	29.0
59°	3172.1	3118.2	2784.7	1074.8	231.3	67.1	48.2	50.1	49.7	30.9	26.9
60°	3172.1	3114.8	2803.9	1063.5	214.6	61.7	45.7	44.6	51.8	29.5	25.7
62.5°	3114.6	3034.1	2741.7	987.4	175.1	52.6	39.9	36.9	46.6	26.5	22.7
65°	2995.1	2877.9	2529.7	849.8	156.1	48.2	34.4	30.2	32.3	23.4	19.9
67.5°	2795.8	2636.9	2224.1	686.5	148.5	46.9	29.7	25.7	24.4	20.0	17.4
70°	2444.8	2268.5	1853.0	539.8	142.0	46.4	25.0	21.6	19.7	16.9	14.8
72.5°	1779.4	1595.5	1315.6	422.0	138.1	47.5	20.0	18.1	16.2	13.2	11.4
75°	1017.8	897.4	739.4	278.8	117.8	45.3	15.5	15.1	11.6	9.5	7.9
77.5°	525.9	509.9	443.1	107.0	56.4	19.9	10.2	8.8	6.9	5.8	4.7
80°	226.9	224.4	194.2	30.9	14.9	11.1	5.8	3.7	3.2	2.5	1.9
82.5°	78.4	78.4	69.1	10.4	6.7	5.4	0.7	0.0	0.0	0.0	0.0
85°	15.8	17.8	12.5	0.0	2.3	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1054.0	1032.8	1031.4	1018.0	1001.3	993.7	989.4	997.1	1006.6	1007.6	1021.9
5°	818.2	795.8	805.2	781.4	786.2	781.4	773.7	775.1	779.3	766.1	782.5
7.5°	574.6	557.7	568.4	562.1	570.5	573.9	569.1	562.1	541.3	538.9	553.1
10°	433.1	413.9	402.5	390.5	393.2	398.6	396.9	391.8	378.6	379.3	393.0
12.5°	348.0	326.6	303.9	274.5	267.3	271.4	267.3	264.3	251.7	252.7	264.9
15°	264.0	246.4	222.7	199.1	186.3	187.5	176.3	168.4	160.5	151.0	158.4
17.5°	178.2	167.5	160.5	153.4	138.1	134.6	120.4	105.1	99.1	94.7	97.9
20°	126.2	120.4	117.6	117.2	108.4	104.0	90.2	80.7	77.7	76.8	78.7
22.5°	105.5	101.2	97.2	94.9	90.5	85.4	74.9	70.1	68.0	67.0	68.4
25°	91.7	88.6	84.4	80.5	78.7	73.3	65.7	62.2	60.8	59.8	60.5
27.5°	81.6	78.7	73.8	71.4	70.0	65.2	58.7	55.9	54.7	54.3	54.1
30°	73.5	70.8	66.3	63.4	61.0	56.8	52.9	50.1	48.9	48.5	48.2
32.5°	65.4	63.3	60.3	57.5	54.8	51.0	47.6	45.3	43.4	43.1	42.9
35°	55.2	53.1	51.5	51.3	48.9	45.2	42.7	39.7	38.1	37.6	37.8
37.5°	49.0	46.2	42.7	43.9	43.2	40.6	37.3	34.3	32.7	32.3	32.3
40°	45.2	42.2	38.1	36.0	38.1	37.6	32.3	29.4	27.8	27.6	27.2
42.5°	41.5	38.5	33.9	30.4	31.5	33.0	27.9	25.1	23.6	23.2	22.7
45°	38.8	35.7	30.6	26.5	24.4	27.8	23.9	20.4	19.5	18.8	18.5
47.5°	36.4	33.4	27.6	23.0	19.5	20.0	19.2	16.7	15.6	14.9	14.8
50°	34.3	31.1	25.0	19.7	16.2	14.8	15.5	13.2	12.3	11.6	11.2
52.5°	31.8	28.8	22.1	17.0	13.5	11.6	11.8	10.4	9.5	9.0	8.8
55°	29.9	26.9	19.9	14.9	12.0	9.5	8.4	8.1	7.6	7.2	7.0
57.5°	27.2	24.4	17.6	12.7	10.2	7.7	6.5	6.5	6.3	6.0	5.8
59°	25.7	23.2	16.2	11.4	9.3	6.7	5.8	6.0	5.8	5.4	5.3
60°	24.4	22.1	15.1	10.5	8.8	6.2	5.3	5.6	5.4	5.1	4.9
62.5°	21.6	20.0	13.0	8.8	7.7	4.9	4.4	4.7	4.7	4.6	4.4
65°	19.0	17.2	11.1	7.4	7.2	4.2	3.5	4.2	4.4	4.0	3.7
67.5°	16.5	14.8	9.7	6.0	6.7	3.3	2.6	3.5	4.7	3.7	3.3
70°	14.1	12.3	7.6	4.7	7.0	2.3	2.1	3.2	5.6	4.0	3.2
72.5°	10.9	9.5	5.3	3.5	7.6	1.6	1.6	2.6	6.3	4.4	3.0
75°	7.6	6.2	3.2	2.1	6.2	1.1	1.1	2.5	6.0	4.0	2.8
77.5°	4.4	3.3	1.1	0.2	3.2	0.0	0.2	1.8	4.2	2.5	1.2
80°	1.6	0.7	0.0	0.0	1.9	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1025.6	1049.3	1070.6	1102.7	1140.9	1184.8	1222.6	1263.2	1301.3	1317.1	1328.0
5°	785.8	815.2	849.4	896.7	959.6	1037.2	1109.7	1191.8	1280.1	1324.2	1365.7
7.5°	555.6	585.5	628.0	678.3	754.4	846.6	941.5	1054.9	1174.4	1244.2	1312.9
10°	399.5	436.2	476.0	544.7	622.0	709.5	807.3	933.8	1067.0	1144.4	1227.2
12.5°	271.9	313.7	373.8	450.8	541.7	627.5	712.4	833.1	987.8	1064.4	1153.2
15°	163.1	186.3	249.9	339.0	450.5	557.3	650.3	771.4	936.3	1030.1	1122.4
17.5°	100.5	111.3	145.9	219.0	336.1	471.2	598.6	750.5	943.7	1057.9	1156.7
20°	80.1	84.4	95.4	129.4	222.7	376.3	540.5	746.3	1003.9	1144.5	1250.5
22.5°	69.6	73.6	81.0	94.0	140.1	281.7	485.3	750.1	1090.4	1274.4	1398.2
25°	61.3	64.9	71.9	82.6	102.6	198.4	426.2	767.4	1203.1	1435.6	1567.1
27.5°	54.8	57.8	64.3	74.2	88.1	138.5	359.3	788.3	1336.7	1600.5	1730.2
30°	48.9	51.5	57.3	66.4	76.5	106.5	285.8	802.5	1470.4	1730.2	1846.7
32.5°	43.8	45.7	51.0	58.7	66.4	84.9	217.2	800.2	1569.7	1838.1	1930.5
35°	38.5	40.4	45.0	51.7	57.8	70.1	170.8	757.5	1656.2	1950.1	2026.5
37.5°	32.7	35.2	39.5	45.5	49.7	61.7	138.1	706.0	1743.9	2078.0	2133.6
40°	27.8	30.2	34.1	40.6	43.2	58.5	106.2	643.3	1842.5	2221.1	2251.0
42.5°	23.0	25.3	29.4	35.0	40.8	50.4	78.6	571.6	1937.2	2343.4	2358.0
45°	18.6	20.9	25.1	30.8	43.6	41.8	60.8	494.8	2013.7	2445.2	2449.9
47.5°	14.8	16.9	21.3	29.0	40.6	33.4	43.4	434.5	2077.8	2524.6	2512.1
50°	11.4	13.2	17.8	33.2	35.5	27.6	32.9	414.4	2135.3	2573.8	2541.5
52.5°	9.0	10.5	14.6	31.1	27.6	22.8	27.6	433.2	2214.0	2614.6	2558.0
55°	7.2	8.8	11.4	17.8	18.8	19.3	23.6	450.8	2349.9	2710.2	2655.6
57.5°	6.0	7.6	9.3	12.5	14.2	16.3	20.9	452.8	2510.0	2869.1	2817.4
59°	5.4	6.9	8.4	11.1	12.5	14.9	19.7	442.2	2566.4	2926.9	2901.1
60°	5.1	6.5	7.9	10.2	11.6	14.1	19.0	432.2	2568.9	2924.8	2936.8
62.5°	4.4	5.8	7.0	8.6	9.8	12.0	17.0	395.1	2464.9	2829.0	2915.3
65°	3.9	5.1	6.3	7.4	8.4	10.7	15.5	327.4	2287.2	2674.5	2768.6
67.5°	3.5	4.4	5.8	6.5	7.6	9.5	13.7	233.4	2065.2	2485.6	2546.6
70°	3.2	4.2	5.3	6.0	6.9	8.3	11.8	134.1	1743.9	2209.0	2252.4
72.5°	3.0	4.0	4.7	5.6	6.2	7.4	10.7	63.1	1276.9	1769.6	1882.9
75°	2.6	3.7	4.4	5.3	5.8	6.7	9.1	30.2	849.3	1280.6	1409.4
77.5°	1.6	3.0	4.0	4.7	5.1	5.8	7.6	17.4	542.0	886.4	1044.0
80°	0.0	1.1	3.0	4.0	4.4	4.9	5.8	13.7	290.0	506.4	607.8
82.5°	0.0	0.0	2.1	3.2	3.0	3.3	4.4	8.6	130.8	331.0	373.0
85°	0.0	0.0	0.7	2.5	2.1	1.6	3.0	3.0	28.6	167.5	209.0
87.5°	0.0	0.0	0.0	0.2	1.1	0.7	1.2	0.4	0.2	12.5	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1366.2	1379.2	1401.2	1411.5	1406.4	1384.8	1359.0	1332.6	1317.1	1323.3
5°	1450.2	1517.2	1555.8	1568.7	1547.2	1498.7	1435.3	1351.6	1321.9	1313.8
7.5°	1450.2	1576.2	1656.0	1670.1	1622.3	1527.2	1408.2	1277.6	1234.2	1218.4
10°	1399.2	1570.8	1682.0	1704.3	1637.6	1495.4	1336.0	1186.9	1135.4	1119.1
12.5°	1341.8	1526.5	1643.7	1674.5	1619.6	1463.7	1285.9	1125.6	1064.9	1050.7
15°	1306.4	1472.0	1569.0	1591.3	1568.1	1445.3	1273.9	1107.1	1035.8	1022.0
17.5°	1319.1	1429.8	1464.8	1477.8	1493.4	1438.8	1306.4	1147.5	1057.2	1044.2
20°	1366.7	1385.3	1367.2	1383.6	1425.8	1445.1	1383.9	1245.3	1136.8	1119.4
22.5°	1447.6	1362.3	1311.5	1318.0	1369.3	1466.0	1502.4	1384.8	1259.7	1237.9
25°	1541.8	1380.9	1280.6	1274.8	1327.5	1493.6	1610.7	1536.7	1405.0	1380.9
27.5°	1660.2	1422.8	1274.3	1268.5	1312.9	1519.4	1700.7	1686.8	1558.1	1517.0
30°	1751.6	1463.9	1293.1	1279.7	1327.5	1537.4	1772.9	1814.2	1680.1	1652.8
32.5°	1817.2	1512.4	1323.6	1304.3	1368.6	1568.3	1828.6	1930.9	1792.9	1751.6
35°	1867.1	1565.1	1373.0	1341.2	1425.2	1615.2	1880.8	2055.2	1913.0	1867.8
37.5°	1913.9	1639.1	1450.2	1412.2	1514.0	1690.8	1936.0	2196.1	2047.3	1993.3
40°	1979.1	1723.0	1569.2	1535.4	1663.2	1793.8	2004.9	2343.1	2200.0	2132.1
42.5°	2044.3	1813.0	1691.0	1700.1	1849.3	1918.9	2093.8	2498.4	2350.8	2278.4
45°	2103.8	1905.8	1864.5	1906.6	2022.1	2056.2	2182.2	2588.2	2471.2	2401.2
47.5°	2156.9	2021.8	2036.9	2149.2	2218.6	2180.5	2248.3	2665.8	2560.8	2499.1
50°	2218.6	2171.9	2264.1	2423.0	2444.8	2293.0	2308.4	2757.5	2665.6	2616.0
52.5°	2286.1	2330.1	2515.8	2655.9	2648.9	2415.1	2368.9	2860.3	2809.2	2762.6
55°	2362.7	2457.8	2737.5	2873.9	2867.9	2551.5	2469.1	2987.4	2989.1	2947.0
57.5°	2476.5	2567.9	2887.9	3050.1	3060.2	2709.0	2638.9	3129.8	3151.9	3123.8
59°	2558.0	2639.2	2947.5	3123.8	3164.6	2830.8	2762.9	3212.4	3197.8	3172.1
60°	2618.5	2684.6	2977.0	3162.3	3225.2	2913.4	2854.5	3260.9	3203.2	3172.1
62.5°	2768.0	2783.3	3030.3	3205.9	3295.0	3096.9	3112.2	3343.5	3165.4	3114.6
65°	2837.8	2845.7	3029.6	3127.8	3227.5	3239.8	3345.9	3345.9	3073.2	2995.1
67.5°	2808.6	2770.5	2879.3	2869.1	2968.6	3154.9	3433.8	3223.3	2896.7	2795.8
70°	2571.4	2424.6	2376.3	2380.7	2456.8	2744.1	3259.8	2862.3	2562.8	2444.8
72.5°	2139.5	1787.5	1668.1	1804.4	1824.2	2108.9	2778.1	2155.5	1889.9	1779.4
75°	1720.9	1260.0	1066.0	1209.8	1243.5	1543.3	2149.0	1342.5	1103.9	1017.8
77.5°	1236.3	904.5	764.9	754.9	798.5	978.8	1524.9	675.6	563.5	525.9
80°	702.3	595.3	641.0	604.8	626.8	612.0	724.5	296.3	242.7	226.9
82.5°	423.9	351.9	381.0	317.2	401.4	349.6	279.1	94.9	82.4	78.4
85°	275.8	192.3	100.2	67.1	138.3	223.4	62.4	25.8	19.9	15.8
87.5°	95.1	49.0	4.9	2.1	14.8	41.7	2.3	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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