

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: P324065

Luminaire Tested: **GAN-SA1A-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

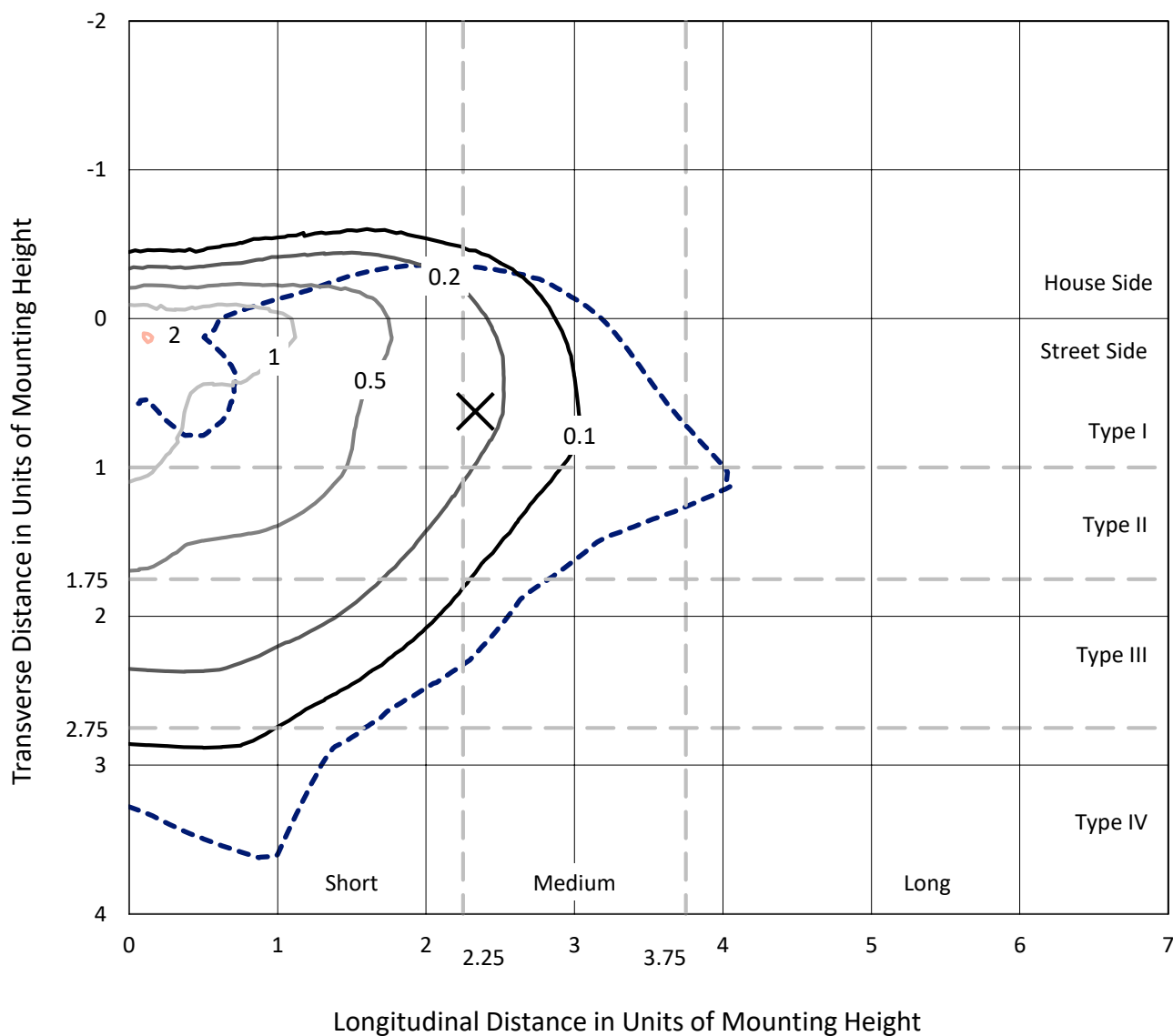
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

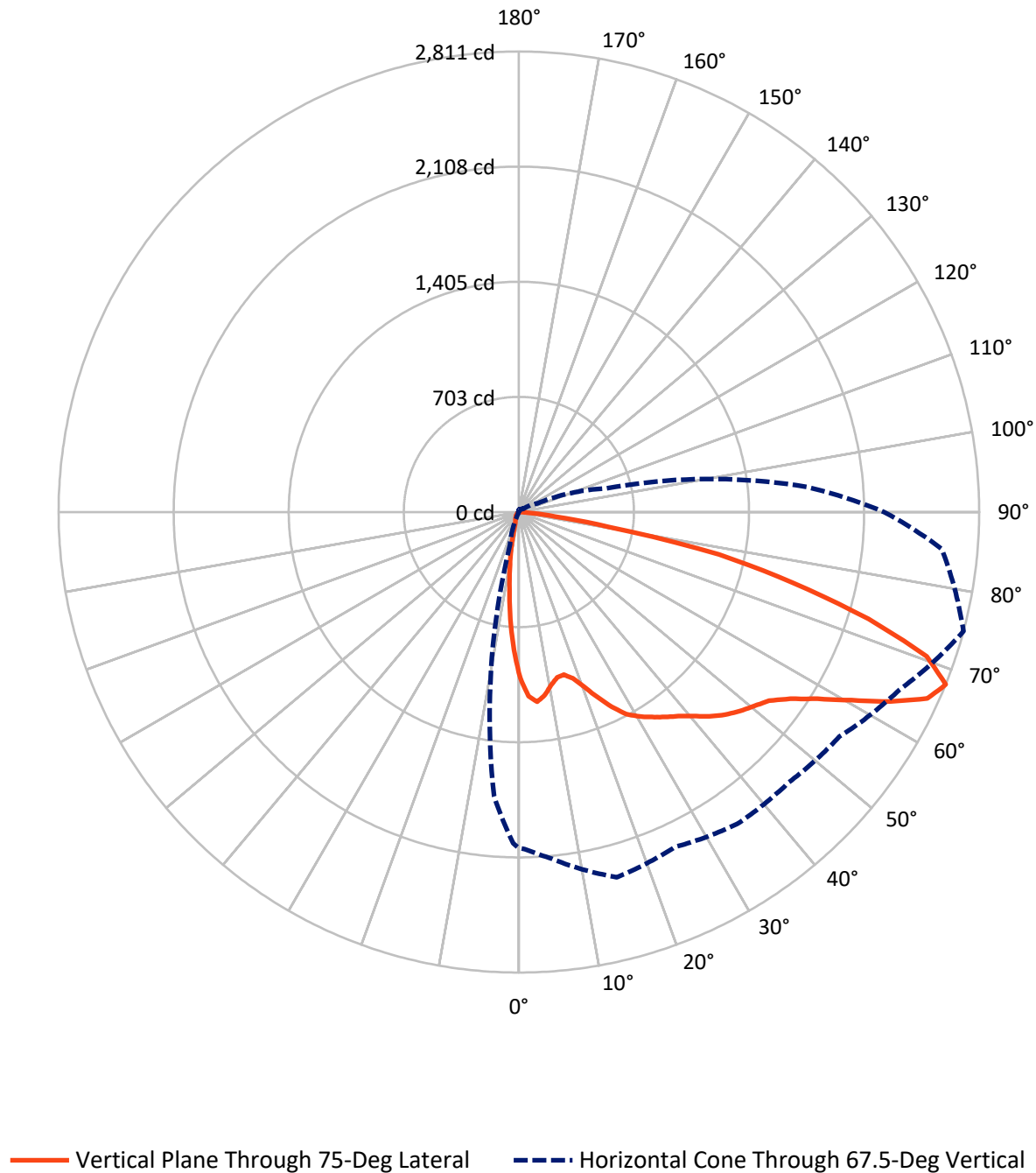
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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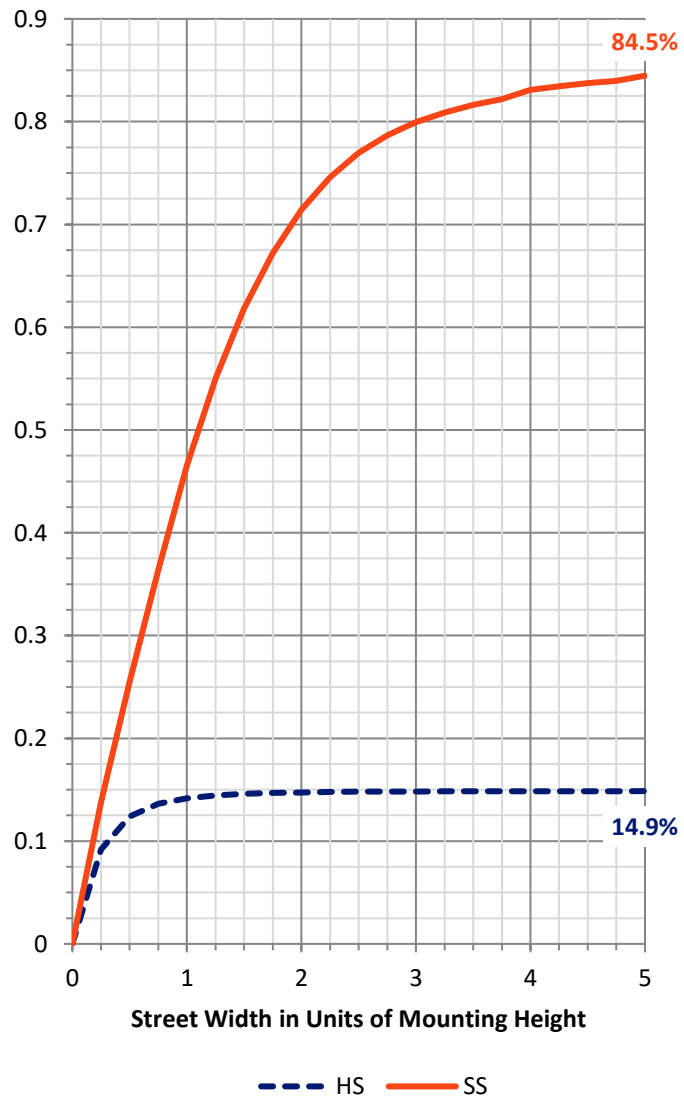
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.1	0.0	454.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	2571.9	0.0	2571.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	3026.0	0.0	3026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	2.5
10°-20°	151.6	5.0
20°-30°	214.5	7.1
30°-40°	315.4	10.4
40°-50°	453.3	15.0
50°-60°	638.1	21.1
60°-70°	745.3	24.6
70°-80°	380.2	12.6
80°-90°	50.5	1.7
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°	3026.0	100.0
0°-180°	3026.0	100.0

Coefficient of Utilization



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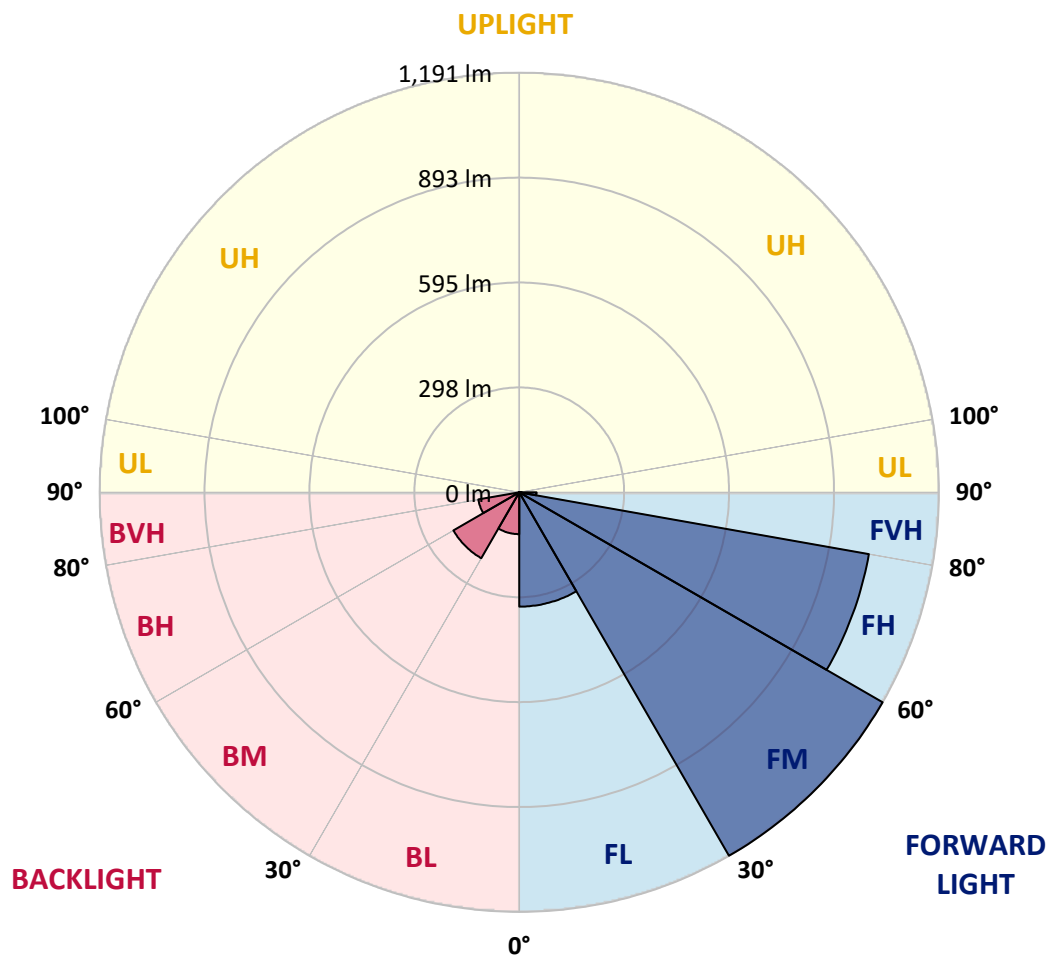
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.4	10.7			
FM	(30°-60°)	1191.0	39.4			
FH	(60°-80°)	1007.6	33.3			G1/1800
FVH	(80°-90°)	49.0	1.6			G1/100
BL	(0°-30°)	118.7	3.9	B1/500		
BM	(30°-60°)	215.9	7.1	B0/220		
BH	(60°-80°)	118.0	3.9	B1/500		G1/500
BVH	(80°-90°)	1.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	1100.5	1102.2	1111.1	1131.7	1154.2	1155.9	1171.1	1155.5	1150.2	1125.0	1098.9
5°	1108.8	1115.4	1145.9	1206.5	1259.1	1276.1	1288.1	1257.4	1225.2	1163.5	1097.7
7.5°	1041.8	1052.9	1100.9	1214.7	1308.7	1350.3	1358.2	1310.2	1231.2	1129.7	1030.8
10°	956.1	968.7	1026.6	1166.5	1295.7	1366.9	1377.8	1314.9	1201.4	1074.9	958.4
12.5°	886.7	901.5	960.7	1112.4	1250.8	1329.7	1351.2	1299.0	1175.6	1036.1	909.0
15°	854.8	871.7	933.9	1077.4	1201.1	1263.2	1280.9	1258.4	1161.2	1029.9	897.5
17.5°	873.1	891.5	955.7	1080.4	1154.4	1180.9	1195.2	1204.4	1161.2	1067.1	931.0
20°	948.4	968.2	1036.1	1110.9	1115.7	1105.8	1121.1	1153.4	1174.7	1137.6	1011.6
22.5°	1052.4	1075.7	1152.4	1163.2	1096.7	1059.3	1061.3	1111.9	1199.2	1227.0	1123.4
25°	1179.3	1207.7	1285.7	1241.2	1104.6	1031.7	1030.9	1077.8	1223.2	1316.6	1248.0
27.5°	1305.3	1336.6	1405.1	1336.4	1137.2	1026.6	1025.2	1067.5	1246.5	1396.3	1384.0
30°	1410.9	1441.3	1500.4	1405.4	1172.3	1038.4	1031.5	1078.5	1260.4	1448.1	1483.2
32.5°	1497.0	1521.3	1569.1	1452.8	1209.8	1061.2	1046.3	1108.1	1284.1	1491.8	1574.4
35°	1591.6	1617.2	1636.3	1498.0	1252.0	1094.0	1072.7	1154.9	1320.5	1536.2	1674.3
37.5°	1699.5	1725.0	1722.7	1539.2	1305.4	1148.3	1134.7	1229.2	1377.1	1580.2	1785.8
40°	1805.1	1831.2	1812.6	1584.4	1368.2	1237.9	1227.9	1340.7	1452.9	1636.6	1916.5
42.5°	1904.1	1932.3	1892.4	1627.1	1443.1	1350.9	1368.1	1484.3	1547.8	1706.0	2029.2
45°	1983.8	2012.6	1959.4	1668.7	1521.9	1487.9	1539.7	1643.5	1661.9	1764.6	2105.3
47.5°	2041.7	2068.9	2005.8	1710.3	1622.8	1655.5	1745.7	1810.3	1765.0	1815.5	2159.4
50°	2078.6	2099.9	2019.4	1762.3	1755.3	1851.0	1960.2	1991.8	1862.1	1861.3	2225.0
52.5°	2102.2	2111.8	2029.5	1816.6	1893.4	2063.9	2170.4	2180.3	1962.0	1911.8	2313.4
55°	2183.1	2190.9	2100.6	1882.4	2007.7	2250.4	2360.5	2351.3	2075.1	2010.6	2417.8
57.5°	2321.3	2329.5	2247.5	1977.0	2100.2	2365.6	2498.2	2514.7	2207.7	2149.3	2529.6
60°	2390.7	2405.9	2376.7	2096.9	2189.7	2439.3	2592.1	2644.7	2373.4	2332.2	2638.0
62.5°	2327.8	2349.9	2392.3	2229.7	2278.8	2479.9	2621.4	2691.3	2543.1	2545.4	2704.8
65°	2202.2	2219.8	2291.8	2302.6	2330.4	2474.9	2549.1	2626.2	2647.0	2741.2	2701.2
67.5°	2050.6	2057.1	2118.2	2308.3	2255.5	2324.1	2332.1	2389.1	2564.9	2810.6	2592.7
70°	1832.2	1835.8	1889.1	2116.3	1938.3	1953.4	1941.5	1953.1	2205.1	2641.6	2318.8
72.5°	1474.6	1483.6	1559.5	1757.6	1412.1	1368.7	1462.1	1457.0	1698.2	2231.7	1722.2
75°	1085.7	1101.3	1215.9	1415.7	991.1	896.5	964.7	982.9	1207.3	1726.3	1077.0
77.5°	760.2	771.8	882.7	1040.7	717.3	641.0	616.4	638.0	796.9	1248.8	542.6
80°	437.9	442.2	513.0	600.9	483.4	553.0	501.0	515.9	477.5	555.6	233.4
82.5°	286.5	287.3	314.9	357.6	301.0	349.8	258.9	331.0	293.7	223.2	76.0
85°	154.8	155.7	182.6	253.9	170.4	96.3	56.6	116.3	181.6	51.2	20.8
87.5°	17.1	15.6	55.0	92.3	47.3	8.7	3.0	13.0	29.1	3.3	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°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	1085.6	1073.7	1044.0	1012.6	987.4	963.7	939.9	910.8	888.3	883.7	876.3
5°	1062.3	1024.6	962.4	899.9	849.6	786.1	745.8	714.4	683.8	681.9	675.7
7.5°	981.2	931.6	844.0	757.6	686.8	626.3	565.2	524.4	492.2	480.9	474.2
10°	903.2	847.5	738.1	639.5	576.2	522.8	479.8	437.1	398.4	371.7	359.7
12.5°	848.7	787.1	666.6	581.6	536.3	485.5	433.0	379.7	335.1	303.0	283.4
15°	827.7	761.9	642.6	558.6	502.7	438.5	371.4	310.5	261.0	231.9	214.3
17.5°	852.8	776.2	640.8	530.7	452.5	372.7	298.6	226.6	180.0	158.0	146.6
20°	916.4	821.8	640.0	496.4	392.9	294.7	202.3	149.1	120.8	108.5	103.2
22.5°	1006.4	880.0	645.8	462.6	330.8	210.6	139.6	109.5	95.0	88.4	85.4
25°	1122.3	961.7	662.0	431.9	272.5	157.1	108.8	91.7	81.6	76.4	74.3
27.5°	1245.7	1055.7	687.2	405.2	225.1	125.3	93.2	78.6	71.2	67.7	65.7
30°	1347.4	1164.7	712.7	375.6	190.6	109.2	85.3	71.7	63.2	60.9	59.1
32.5°	1436.5	1247.1	730.8	348.8	168.1	97.0	77.1	64.1	58.3	53.9	51.9
35°	1528.6	1315.8	730.2	330.0	152.7	87.9	70.2	57.3	50.5	45.3	43.7
37.5°	1628.4	1393.3	717.7	313.9	145.9	80.6	66.4	53.8	46.9	41.7	39.7
40°	1745.2	1474.7	705.0	298.9	144.1	74.7	63.6	50.9	43.6	38.6	36.6
42.5°	1859.0	1548.1	693.8	287.7	136.0	74.5	61.2	48.7	41.0	36.1	33.8
45°	1950.1	1616.5	691.6	281.0	127.6	77.1	59.9	47.3	39.0	34.1	32.0
47.5°	2025.8	1690.8	705.4	276.2	119.5	70.4	63.1	46.3	37.1	32.4	30.0
50°	2115.8	1781.9	737.8	268.5	111.1	63.4	72.2	46.6	35.5	30.7	28.1
52.5°	2241.3	1908.1	785.4	255.4	99.5	56.9	71.1	46.9	33.8	28.8	26.2
55°	2382.1	2065.6	836.6	233.8	83.3	48.5	60.9	44.9	30.5	26.8	24.4
57.5°	2530.0	2208.5	867.0	208.0	66.2	41.9	48.7	40.9	26.9	24.1	22.5
60°	2553.3	2262.8	853.0	176.3	52.6	36.4	36.1	41.6	24.1	21.2	20.1
62.5°	2495.5	2194.6	785.8	148.1	44.0	32.0	29.7	36.3	21.8	18.9	17.8
65°	2384.4	2010.1	676.9	133.5	40.9	27.4	24.7	25.5	19.1	16.5	15.5
67.5°	2229.9	1763.9	555.7	125.1	40.4	23.5	21.1	19.4	16.5	14.3	13.5
70°	1913.9	1469.4	443.4	120.6	39.3	19.8	17.8	15.8	13.8	12.2	11.5
72.5°	1408.7	1041.3	344.9	115.5	39.6	15.8	15.5	13.0	11.0	9.5	9.2
75°	813.9	594.9	226.2	93.6	37.7	12.2	12.9	9.2	7.7	6.6	6.6
77.5°	433.8	362.8	86.2	39.0	13.8	7.7	7.3	5.4	4.9	4.0	3.9
80°	189.1	159.7	25.9	10.9	7.6	4.2	2.7	2.4	2.2	1.7	1.6
82.5°	66.9	57.8	8.5	5.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	10.9	0.0	1.3	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°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	861.1	857.9	839.3	840.0	843.3	848.0	836.8	842.0	855.9	869.2	874.3
5°	665.8	666.6	655.2	662.3	668.6	672.9	654.8	655.1	666.1	681.2	689.1
7.5°	469.2	468.0	468.6	485.4	497.3	488.7	495.4	472.0	473.5	484.2	476.2
10°	348.8	333.0	324.1	336.7	349.8	345.0	333.4	325.8	331.1	343.0	342.2
12.5°	274.1	251.4	238.1	229.1	239.8	230.9	230.6	224.0	216.9	218.2	237.2
15°	206.1	189.6	173.9	159.4	159.1	156.1	140.8	123.6	122.1	123.0	132.9
17.5°	141.8	136.2	129.7	117.3	114.0	101.3	86.4	79.6	76.1	77.7	81.0
20°	99.6	97.5	98.2	91.5	86.7	74.7	65.9	63.2	62.6	64.2	65.8
22.5°	82.6	78.7	78.3	75.3	70.5	61.8	57.1	55.5	54.8	56.2	57.3
25°	72.2	68.4	66.8	64.9	59.9	53.9	51.0	49.6	48.9	49.7	50.5
27.5°	63.6	60.1	58.6	57.3	52.5	48.2	45.9	44.6	44.0	44.3	45.0
30°	57.2	54.0	52.2	50.6	46.4	43.4	41.4	40.1	39.6	39.6	40.3
32.5°	50.5	48.7	47.0	45.0	41.1	39.1	37.1	35.7	35.1	35.3	35.8
35°	42.0	41.4	41.9	40.0	36.7	35.0	33.0	31.4	31.0	31.1	31.7
37.5°	37.3	34.7	36.3	35.3	33.4	31.1	28.5	27.1	26.4	26.8	27.1
40°	34.3	31.1	30.0	31.0	30.7	26.9	24.7	23.2	22.6	22.8	23.1
42.5°	31.7	28.0	25.4	25.2	26.9	23.5	21.1	19.8	19.1	19.1	19.4
45°	29.2	25.2	22.1	19.6	22.6	19.9	17.6	16.5	15.6	15.6	15.8
47.5°	27.4	22.9	19.2	16.1	17.1	16.3	14.5	13.3	12.5	12.5	12.6
50°	25.7	20.6	16.6	13.5	12.8	13.5	11.8	10.5	9.9	9.7	10.0
52.5°	23.8	18.3	14.2	11.5	10.0	10.2	9.2	8.3	7.6	7.6	7.9
55°	21.9	16.5	12.3	9.7	8.3	7.6	7.3	6.7	6.2	6.2	6.5
57.5°	20.1	14.5	10.5	8.0	6.6	6.0	6.0	5.6	5.2	5.2	5.4
60°	18.3	12.5	8.6	6.6	5.2	5.0	5.2	4.7	4.4	4.4	4.7
62.5°	16.3	10.6	7.0	5.4	4.2	4.0	4.4	4.2	3.9	3.9	4.2
65°	13.9	9.0	5.6	4.2	3.2	3.2	3.7	3.4	3.2	3.2	3.4
67.5°	11.8	7.6	4.3	3.0	2.3	2.4	3.2	2.9	2.7	2.7	3.0
70°	9.7	5.9	3.0	1.9	1.3	1.9	2.4	2.4	2.4	2.4	2.7
72.5°	7.3	4.0	1.7	0.7	0.6	1.3	2.0	2.3	2.2	2.2	2.6
75°	4.7	2.3	0.6	0.0	0.0	0.7	1.6	1.9	1.9	1.7	2.2
77.5°	2.7	0.7	0.0	0.0	0.0	0.0	1.0	0.9	0.7	0.6	1.0
80°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	894.5	911.4	935.2	960.4	999.3	1030.1	1060.3	1086.3	1096.3	1100.5
5°	708.0	732.8	767.6	812.3	882.4	945.5	1009.4	1073.8	1101.8	1108.8
7.5°	508.0	539.7	584.0	640.0	722.2	803.9	893.2	987.6	1030.9	1041.8
10°	376.0	414.7	465.4	524.5	602.9	686.9	784.2	892.2	941.6	956.1
12.5°	266.8	319.1	387.0	458.8	526.8	601.8	700.2	819.2	871.1	886.7
15°	156.7	207.3	287.7	383.9	470.9	546.9	646.9	781.8	839.0	854.8
17.5°	89.9	115.1	175.9	283.1	401.2	506.4	630.1	791.1	858.5	873.1
20°	68.7	76.7	101.3	182.3	319.8	466.7	630.1	843.9	926.9	948.4
22.5°	60.1	65.9	76.0	108.8	235.4	424.2	637.5	920.1	1028.6	1052.4
25°	53.3	58.6	67.2	81.9	160.5	373.6	654.8	1013.7	1148.5	1179.3
27.5°	47.7	52.8	60.5	71.7	109.8	312.5	678.2	1123.5	1280.6	1305.3
30°	42.7	47.4	54.5	62.4	84.7	243.3	698.1	1227.0	1384.4	1410.9
32.5°	38.0	42.3	48.6	54.5	69.4	179.9	700.2	1309.0	1470.6	1497.0
35°	33.5	37.4	43.1	47.7	57.5	142.1	666.8	1380.1	1556.7	1591.6
37.5°	29.2	33.0	38.0	41.4	50.6	115.8	615.8	1459.4	1667.2	1699.5
40°	25.2	28.5	33.7	36.0	47.9	89.0	560.3	1542.5	1775.6	1805.1
42.5°	21.5	24.7	29.7	34.1	42.0	66.5	500.4	1620.5	1873.1	1904.1
45°	17.9	21.2	26.2	36.1	34.8	49.7	436.3	1672.3	1950.1	1983.8
47.5°	14.5	18.2	25.1	34.4	27.8	36.6	385.6	1721.3	2008.4	2041.7
50°	11.6	15.3	28.2	30.7	22.8	28.0	364.4	1765.2	2046.7	2078.6
52.5°	9.5	12.9	26.7	23.5	19.1	23.1	375.9	1836.3	2082.1	2102.2
55°	7.9	10.2	16.1	16.3	16.2	19.6	390.0	1938.3	2173.7	2183.1
57.5°	6.9	8.2	11.2	12.6	13.6	17.5	390.3	2084.8	2315.5	2321.3
60°	5.9	7.2	9.3	10.2	11.8	15.6	376.1	2136.0	2371.2	2390.7
62.5°	5.2	6.3	7.7	8.5	9.9	14.0	342.9	2061.9	2294.7	2327.8
65°	4.6	5.7	6.5	7.2	8.7	12.6	288.1	1913.7	2167.7	2202.2
67.5°	4.0	5.0	5.7	6.5	7.9	11.2	212.2	1741.5	2021.9	2050.6
70°	3.6	4.4	5.2	5.7	6.9	9.5	128.7	1477.7	1820.3	1832.2
72.5°	3.4	4.0	4.7	5.2	6.0	8.3	65.2	1086.0	1455.2	1474.6
75°	3.0	3.6	4.3	4.6	5.3	7.2	26.5	713.3	1054.6	1085.7
77.5°	2.4	3.3	3.9	4.2	4.6	5.9	13.5	455.8	740.1	760.2
80°	0.9	2.4	3.3	3.4	3.9	4.3	8.9	249.6	429.3	437.9
82.5°	0.0	1.6	2.6	2.4	2.7	3.3	5.7	118.7	283.4	286.5
85°	0.0	0.7	2.0	1.6	1.1	2.3	2.0	25.9	148.6	154.8
87.5°	0.0	0.0	0.1	0.7	0.6	0.9	0.3	0.1	13.5	17.1
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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