

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: P324105

Luminaire Tested: **GAN-SA1A-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324105
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3295 lumens
Efficiency: N/A
Efficacy: 96.9 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

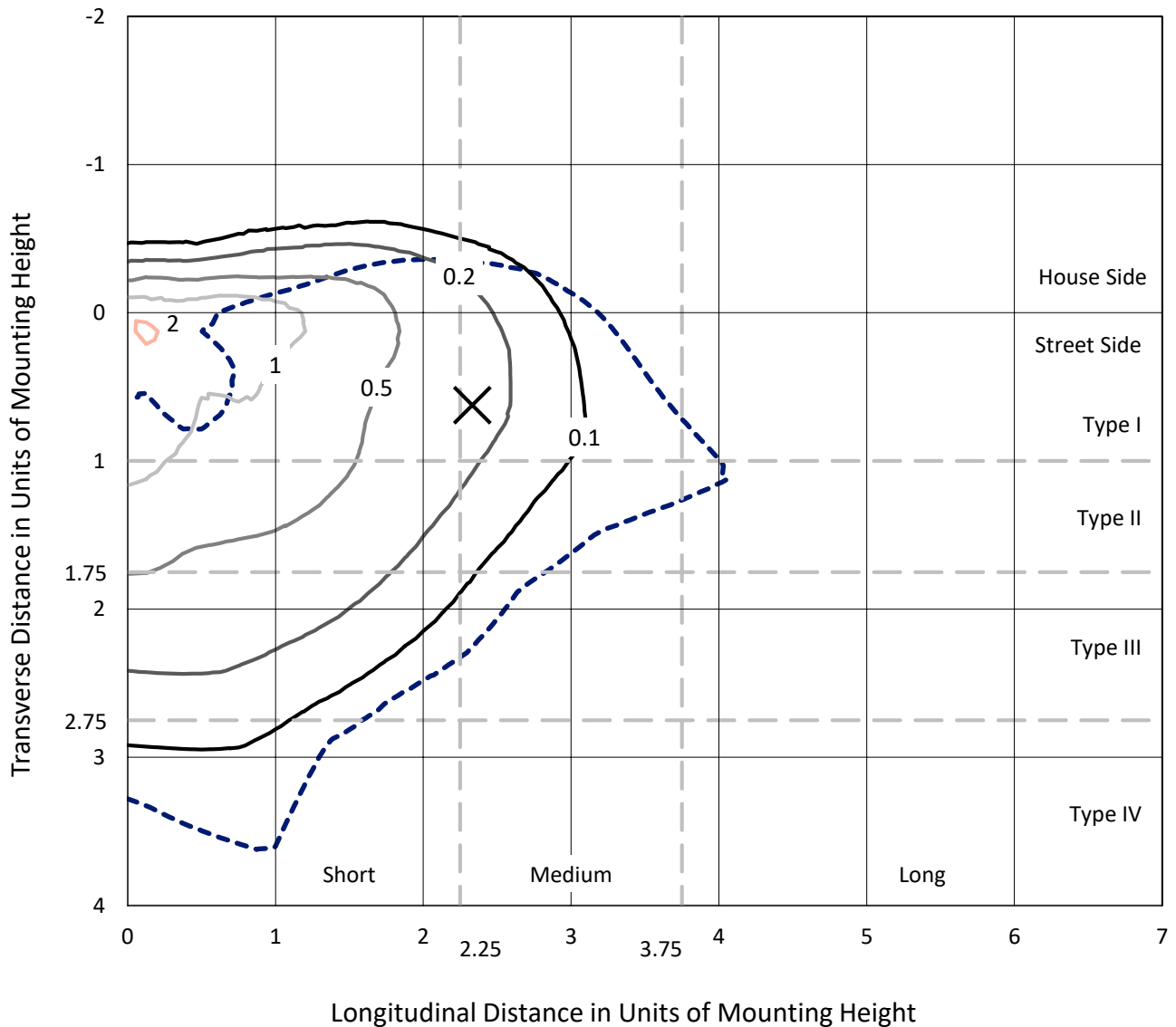
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

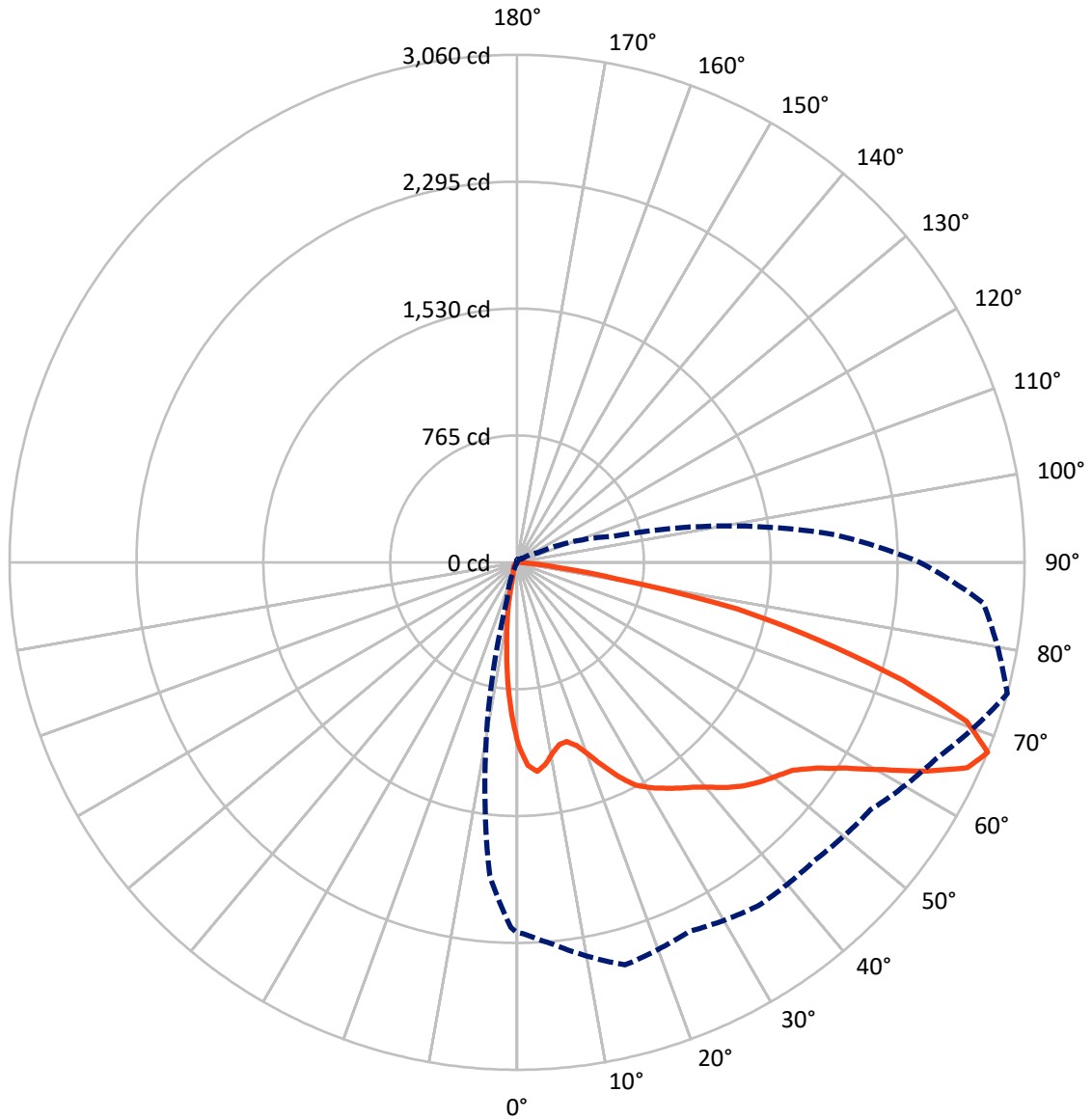
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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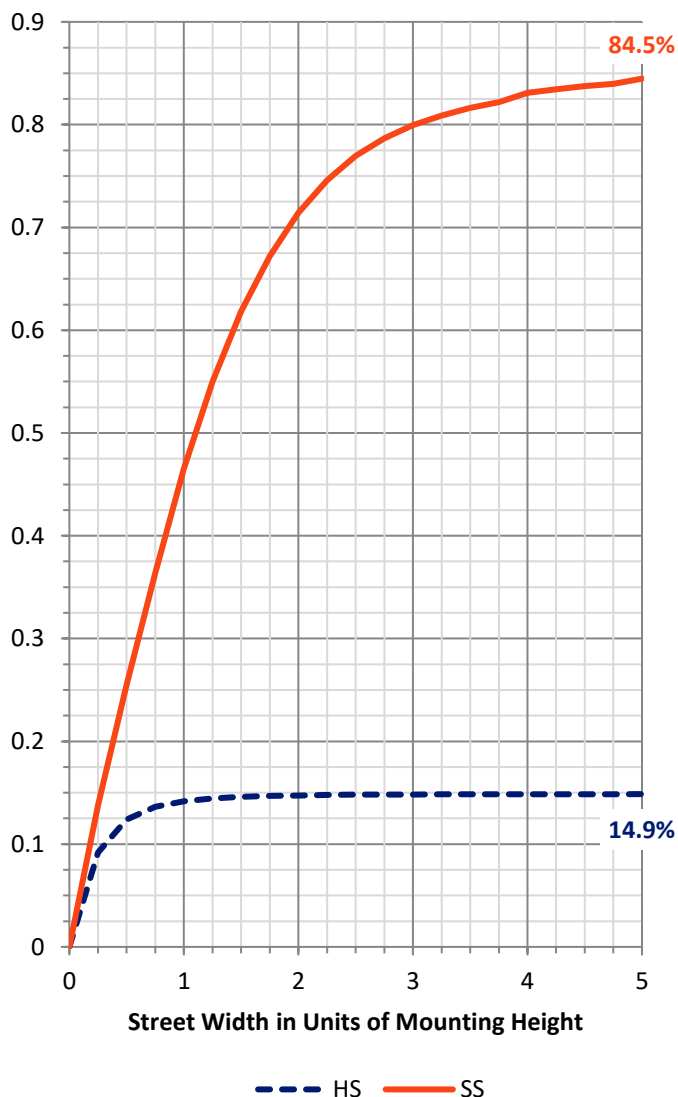
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.5	0.0	494.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	2800.5	0.0	2800.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	3295.0	0.0	3295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	2.5
10°-20°	165.1	5.0
20°-30°	233.6	7.1
30°-40°	343.4	10.4
40°-50°	493.6	15.0
50°-60°	694.9	21.1
60°-70°	811.5	24.6
70°-80°	414.0	12.6
80°-90°	55.0	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°	3295.0	100.0
0°-180°	3295.0	100.0

Coefficient of Utilization

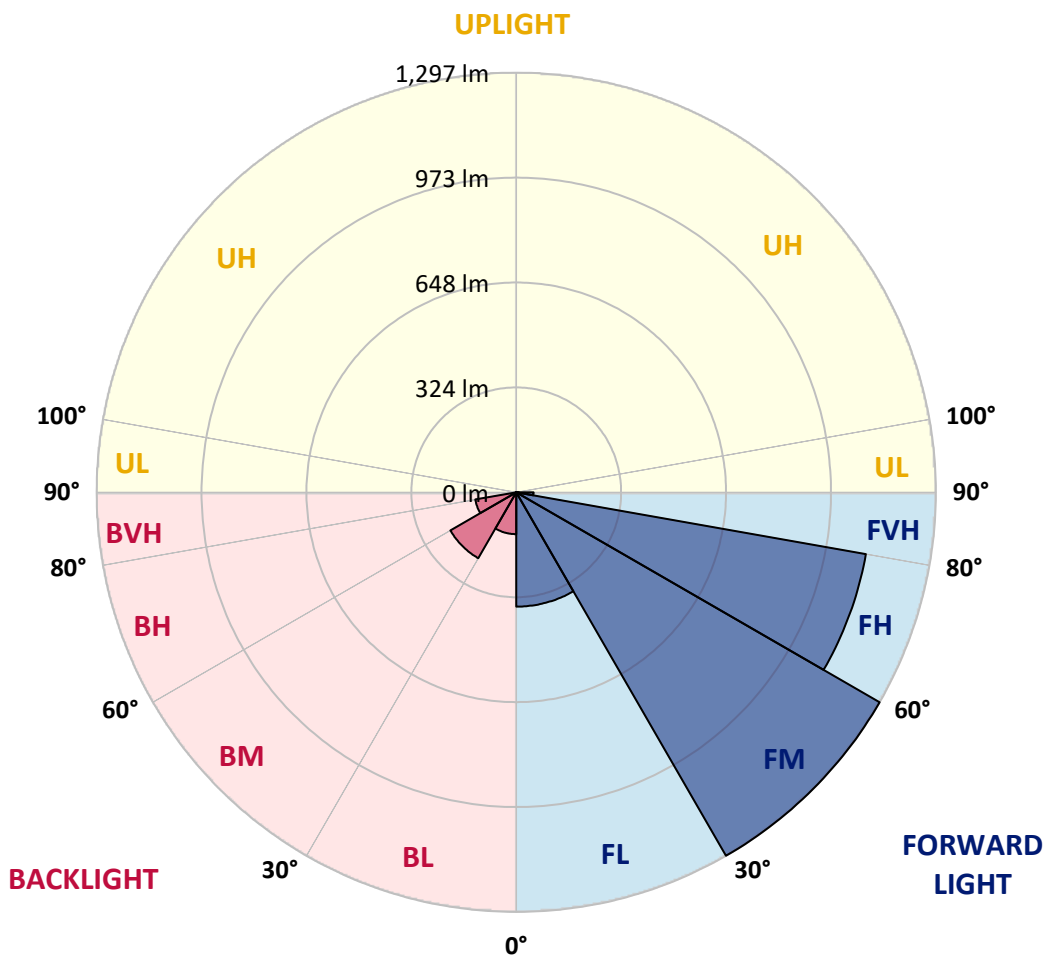


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.2	10.7			
FM (30°-60°)	1296.9	39.4			
FH (60°-80°)	1097.1	33.3			G1/1800
FVH (80°-90°)	53.3	1.6			G1/100
BL (0°-30°)	129.3	3.9	B1/500		
BM (30°-60°)	235.0	7.1	B1/1000		
BH (60°-80°)	128.4	3.9	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	1198.3	1200.2	1209.8	1232.3	1256.8	1258.7	1275.2	1258.2	1252.5	1225.0	1196.6
5°	1207.3	1214.5	1247.8	1313.8	1371.1	1389.5	1402.6	1369.2	1334.1	1267.0	1195.3
7.5°	1134.4	1146.5	1198.8	1322.7	1425.1	1470.4	1478.9	1426.6	1340.6	1230.1	1122.4
10°	1041.1	1054.8	1117.9	1270.2	1410.9	1488.5	1500.3	1431.8	1308.2	1170.5	1043.6
12.5°	965.6	981.6	1046.1	1211.2	1362.0	1447.9	1471.3	1414.5	1280.1	1128.2	989.8
15°	930.8	949.2	1016.9	1173.2	1307.9	1375.4	1394.8	1370.3	1264.5	1121.5	977.3
17.5°	950.7	970.7	1040.6	1176.4	1257.0	1285.9	1301.5	1311.5	1264.5	1161.9	1013.8
20°	1032.7	1054.2	1128.2	1209.7	1214.8	1204.1	1220.8	1255.9	1279.1	1238.7	1101.5
22.5°	1146.0	1171.3	1254.8	1266.7	1194.2	1153.5	1155.7	1210.8	1305.8	1336.1	1223.3
25°	1284.1	1315.0	1400.0	1351.6	1202.8	1123.4	1122.6	1173.6	1331.9	1433.7	1358.9
27.5°	1421.3	1455.4	1530.0	1455.2	1238.2	1117.9	1116.3	1162.4	1357.3	1520.5	1507.0
30°	1536.4	1569.5	1633.8	1530.3	1276.5	1130.7	1123.2	1174.4	1372.5	1576.8	1615.0
32.5°	1630.0	1656.6	1708.5	1582.0	1317.4	1155.5	1139.3	1206.6	1398.2	1624.4	1714.3
35°	1733.0	1761.0	1781.7	1631.1	1363.3	1191.3	1168.0	1257.6	1437.9	1672.8	1823.1
37.5°	1850.6	1878.4	1875.9	1676.1	1421.5	1250.4	1235.6	1338.5	1499.5	1720.7	1944.5
40°	1965.6	1994.0	1973.7	1725.2	1489.9	1348.0	1337.1	1459.9	1582.1	1782.1	2086.9
42.5°	2073.3	2104.1	2060.7	1771.8	1571.3	1471.0	1489.7	1616.3	1685.4	1857.6	2209.6
45°	2160.1	2191.5	2133.6	1817.0	1657.2	1620.2	1676.5	1789.6	1809.7	1921.4	2292.5
47.5°	2223.2	2252.8	2184.1	1862.3	1767.1	1802.7	1900.8	1971.2	1921.9	1976.9	2351.3
50°	2263.4	2286.5	2199.0	1918.9	1911.3	2015.6	2134.5	2168.8	2027.6	2026.8	2422.8
52.5°	2289.0	2299.5	2209.9	1978.1	2061.8	2247.4	2363.3	2374.1	2136.4	2081.7	2519.1
55°	2377.2	2385.7	2287.3	2049.7	2186.2	2450.4	2570.3	2560.3	2259.5	2189.3	2632.7
57.5°	2527.7	2536.6	2447.3	2152.8	2286.8	2575.9	2720.3	2738.3	2403.9	2340.4	2754.5
60°	2603.2	2619.8	2587.9	2283.3	2384.4	2656.2	2822.5	2879.8	2584.4	2539.6	2872.5
62.5°	2534.7	2558.8	2605.0	2428.0	2481.3	2700.3	2854.4	2930.6	2769.2	2771.7	2945.2
65°	2398.0	2417.2	2495.5	2507.2	2537.5	2694.9	2775.7	2859.7	2882.3	2984.9	2941.3
67.5°	2232.8	2240.0	2306.5	2513.5	2456.0	2530.7	2539.4	2601.5	2792.9	3060.4	2823.2
70°	1995.1	1999.0	2057.1	2304.5	2110.6	2127.0	2114.1	2126.7	2401.1	2876.4	2524.9
72.5°	1605.7	1615.5	1698.1	1913.8	1537.6	1490.3	1592.1	1586.5	1849.2	2430.1	1875.2
75°	1182.2	1199.2	1323.9	1541.5	1079.2	976.2	1050.5	1070.3	1314.6	1879.8	1172.7
77.5°	827.7	840.4	961.2	1133.2	781.1	698.0	671.2	694.7	867.7	1359.8	590.8
80°	476.8	481.5	558.6	654.3	526.3	602.2	545.5	561.8	519.9	605.0	254.1
82.5°	312.0	312.8	342.9	389.4	327.8	380.9	281.9	360.4	319.8	243.0	82.7
85°	168.6	169.5	198.9	276.4	185.6	104.9	61.7	126.6	197.8	55.7	22.6
87.5°	18.6	17.0	59.9	100.5	51.5	9.5	3.3	14.2	31.7	3.6	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°	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	1182.1	1169.1	1136.8	1102.6	1075.1	1049.4	1023.5	991.8	967.3	962.3	954.2
5°	1156.8	1115.7	1048.0	979.9	925.1	856.0	812.1	777.9	744.5	742.5	735.8
7.5°	1068.4	1014.4	919.0	824.9	747.8	681.9	615.5	571.0	536.0	523.7	516.3
10°	983.5	922.8	803.7	696.3	627.5	569.3	522.4	475.9	433.8	404.7	391.6
12.5°	924.2	857.1	725.8	633.2	583.9	528.7	471.5	413.5	364.9	330.0	308.6
15°	901.3	829.6	699.7	608.3	547.4	477.5	404.4	338.1	284.2	252.6	233.4
17.5°	928.6	845.2	697.7	577.8	492.8	405.8	325.1	246.8	196.0	172.0	159.7
20°	997.9	894.9	696.9	540.5	427.8	320.9	220.2	162.3	131.6	118.2	112.4
22.5°	1095.9	958.2	703.2	503.7	360.3	229.3	152.0	119.3	103.5	96.3	93.0
25°	1222.0	1047.2	720.8	470.3	296.7	171.1	118.5	99.9	88.8	83.2	80.9
27.5°	1356.4	1149.6	748.3	441.3	245.1	136.4	101.5	85.5	77.6	73.7	71.5
30°	1467.2	1268.2	776.1	409.0	207.6	118.9	92.9	78.0	68.8	66.3	64.3
32.5°	1564.2	1358.0	795.7	379.8	183.1	105.7	84.0	69.8	63.5	58.7	56.5
35°	1664.5	1432.7	795.1	359.3	166.2	95.7	76.5	62.4	54.9	49.3	47.6
37.5°	1773.2	1517.2	781.5	341.8	158.9	87.7	72.3	58.5	51.0	45.4	43.2
40°	1900.4	1605.8	767.6	325.4	156.9	81.3	69.3	55.4	47.5	42.0	39.8
42.5°	2024.3	1685.8	755.5	313.3	148.1	81.2	66.6	53.1	44.6	39.3	36.8
45°	2123.4	1760.2	753.1	305.9	138.9	84.0	65.2	51.5	42.5	37.1	34.8
47.5°	2205.8	1841.1	768.1	300.8	130.2	76.6	68.7	50.4	40.4	35.3	32.6
50°	2303.9	1940.3	803.4	292.4	121.0	69.0	78.7	50.7	38.7	33.4	30.6
52.5°	2440.6	2077.7	855.2	278.1	108.3	62.0	77.4	51.0	36.8	31.4	28.6
55°	2593.9	2249.2	910.9	254.6	90.7	52.8	66.3	48.9	33.2	29.2	26.5
57.5°	2755.0	2404.8	944.0	226.5	72.1	45.6	53.1	44.5	29.3	26.2	24.5
60°	2780.2	2464.0	928.9	192.0	57.3	39.6	39.3	45.3	26.2	23.1	21.9
62.5°	2717.3	2389.7	855.7	161.2	47.9	34.8	32.3	39.5	23.7	20.6	19.4
65°	2596.4	2188.8	737.0	145.3	44.5	29.8	26.8	27.8	20.8	18.0	16.9
67.5°	2428.1	1920.7	605.2	136.3	44.0	25.6	22.9	21.1	18.0	15.6	14.7
70°	2084.1	1600.1	482.8	131.3	42.8	21.5	19.4	17.2	15.0	13.3	12.5
72.5°	1533.9	1133.8	375.5	125.8	43.1	17.2	16.9	14.2	12.0	10.3	10.0
75°	886.3	647.8	246.3	101.9	41.1	13.3	14.0	10.0	8.4	7.2	7.2
77.5°	472.3	395.1	93.8	42.5	15.0	8.4	8.0	5.9	5.3	4.4	4.2
80°	205.9	173.9	28.3	11.9	8.3	4.5	3.0	2.7	2.3	1.9	1.7
82.5°	72.9	62.9	9.2	5.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	11.9	0.0	1.4	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°	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	937.6	934.2	913.9	914.7	918.3	923.4	911.2	916.9	932.0	946.5	952.0
5°	725.0	725.8	713.5	721.1	728.0	732.7	713.0	713.3	725.3	741.7	750.3
7.5°	510.9	509.6	510.3	528.5	541.5	532.1	539.4	514.0	515.6	527.3	518.5
10°	379.8	362.6	352.9	366.7	380.9	375.7	363.1	354.8	360.6	373.5	372.6
12.5°	298.4	273.8	259.3	249.4	261.1	251.5	251.1	244.0	236.2	237.6	258.3
15°	224.5	206.5	189.3	173.6	173.3	170.0	153.3	134.5	133.0	133.9	144.7
17.5°	154.4	148.3	141.3	127.7	124.1	110.4	94.1	86.6	82.9	84.6	88.2
20°	108.5	106.1	106.9	99.6	94.4	81.3	71.8	68.8	68.2	69.9	71.6
22.5°	89.9	85.7	85.2	81.9	76.8	67.3	62.1	60.4	59.6	61.2	62.4
25°	78.7	74.5	72.7	70.7	65.2	58.7	55.6	54.0	53.2	54.2	54.9
27.5°	69.3	65.4	63.8	62.4	57.1	52.4	49.9	48.5	47.9	48.2	49.0
30°	62.3	58.8	56.8	55.1	50.6	47.3	45.1	43.7	43.1	43.1	43.9
32.5°	54.9	53.1	51.2	49.0	44.8	42.6	40.4	38.9	38.2	38.4	39.0
35°	45.7	45.1	45.6	43.5	40.0	38.1	35.9	34.2	33.7	33.9	34.5
37.5°	40.6	37.8	39.5	38.4	36.4	33.9	31.1	29.5	28.7	29.2	29.5
40°	37.3	33.9	32.6	33.7	33.4	29.3	26.8	25.3	24.7	24.8	25.1
42.5°	34.5	30.4	27.6	27.5	29.3	25.6	22.9	21.5	20.8	20.8	21.1
45°	31.8	27.5	24.0	21.4	24.7	21.7	19.2	18.0	17.0	17.0	17.2
47.5°	29.8	25.0	20.9	17.5	18.6	17.8	15.8	14.5	13.6	13.6	13.7
50°	27.9	22.5	18.1	14.7	13.9	14.7	12.8	11.4	10.8	10.6	10.9
52.5°	25.9	20.0	15.5	12.5	10.9	11.1	10.0	9.1	8.3	8.3	8.6
55°	23.9	18.0	13.4	10.6	9.1	8.3	8.0	7.3	6.7	6.7	7.0
57.5°	21.9	15.8	11.4	8.7	7.2	6.6	6.6	6.1	5.6	5.6	5.9
60°	20.0	13.6	9.4	7.2	5.6	5.5	5.6	5.2	4.8	4.8	5.2
62.5°	17.8	11.6	7.6	5.9	4.5	4.4	4.8	4.5	4.2	4.2	4.5
65°	15.1	9.8	6.1	4.5	3.4	3.4	4.1	3.7	3.4	3.4	3.7
67.5°	12.8	8.3	4.7	3.3	2.5	2.7	3.4	3.1	3.0	3.0	3.3
70°	10.6	6.4	3.3	2.0	1.4	2.0	2.7	2.7	2.7	2.7	3.0
72.5°	8.0	4.4	1.9	0.8	0.6	1.4	2.2	2.5	2.3	2.3	2.8
75°	5.2	2.5	0.6	0.0	0.0	0.8	1.7	2.0	2.0	1.9	2.3
77.5°	3.0	0.8	0.0	0.0	0.0	0.0	1.1	0.9	0.8	0.6	1.1
80°	0.8	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°	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	974.0	992.4	1018.3	1045.8	1088.1	1121.6	1154.6	1182.8	1193.8	1198.3
5°	770.9	797.9	835.9	884.6	960.9	1029.6	1099.2	1169.3	1199.7	1207.3
7.5°	553.2	587.7	635.9	696.9	786.4	875.3	972.6	1075.4	1122.6	1134.4
10°	409.4	451.6	506.8	571.1	656.5	748.0	854.0	971.5	1025.3	1041.1
12.5°	290.5	347.5	421.4	499.6	573.6	655.3	762.5	892.0	948.5	965.6
15°	170.6	225.7	313.3	418.0	512.7	595.5	704.4	851.3	913.6	930.8
17.5°	97.9	125.3	191.5	308.3	436.9	551.5	686.2	861.5	934.8	950.7
20°	74.8	83.5	110.4	198.5	348.2	508.2	686.2	918.9	1009.3	1032.7
22.5°	65.4	71.8	82.7	118.5	256.3	461.9	694.1	1001.9	1120.1	1146.0
25°	58.1	63.8	73.2	89.1	174.8	406.8	713.0	1103.9	1250.6	1284.1
27.5°	52.0	57.4	65.9	78.0	119.6	340.3	738.5	1223.4	1394.5	1421.3
30°	46.5	51.7	59.3	67.9	92.2	264.9	760.1	1336.1	1507.5	1536.4
32.5°	41.4	46.0	52.9	59.3	75.5	195.9	762.5	1425.4	1601.3	1630.0
35°	36.5	40.7	47.0	52.0	62.6	154.7	726.1	1502.8	1695.1	1733.0
37.5°	31.8	35.9	41.4	45.1	55.1	126.1	670.6	1589.1	1815.5	1850.6
40°	27.5	31.1	36.7	39.2	52.1	96.9	610.1	1679.7	1933.5	1965.6
42.5°	23.4	26.8	32.3	37.1	45.7	72.4	544.9	1764.6	2039.6	2073.3
45°	19.5	23.1	28.6	39.3	37.9	54.2	475.1	1820.9	2123.4	2160.1
47.5°	15.8	19.8	27.3	37.5	30.3	39.8	419.9	1874.3	2187.0	2223.2
50°	12.6	16.7	30.7	33.4	24.8	30.4	396.8	1922.1	2228.6	2263.4
52.5°	10.3	14.0	29.0	25.6	20.8	25.1	409.3	1999.5	2267.2	2289.0
55°	8.6	11.1	17.5	17.8	17.6	21.4	424.7	2110.6	2366.9	2377.2
57.5°	7.5	8.9	12.2	13.7	14.8	19.0	425.0	2270.1	2521.3	2527.7
60°	6.4	7.8	10.1	11.1	12.8	17.0	409.6	2325.9	2582.0	2603.2
62.5°	5.6	6.9	8.4	9.2	10.8	15.3	373.4	2245.2	2498.7	2534.7
65°	5.0	6.2	7.0	7.8	9.5	13.7	313.7	2083.8	2360.4	2398.0
67.5°	4.4	5.5	6.2	7.0	8.6	12.2	231.0	1896.3	2201.6	2232.8
70°	3.9	4.8	5.6	6.2	7.5	10.3	140.2	1609.1	1982.2	1995.1
72.5°	3.7	4.4	5.2	5.6	6.6	9.1	71.0	1182.5	1584.6	1605.7
75°	3.3	3.9	4.7	5.0	5.8	7.8	28.9	776.7	1148.3	1182.2
77.5°	2.7	3.6	4.2	4.5	5.0	6.4	14.7	496.4	805.9	827.7
80°	0.9	2.7	3.6	3.7	4.2	4.7	9.7	271.7	467.5	476.8
82.5°	0.0	1.7	2.8	2.7	3.0	3.6	6.2	129.2	308.6	312.0
85°	0.0	0.8	2.2	1.7	1.2	2.5	2.2	28.3	161.9	168.6
87.5°	0.0	0.0	0.2	0.8	0.6	0.9	0.3	0.2	14.7	18.6
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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