

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: P301682

Luminaire Tested: **GAA-AF-01-LED-U-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-01-LED-U-T2R-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.1 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

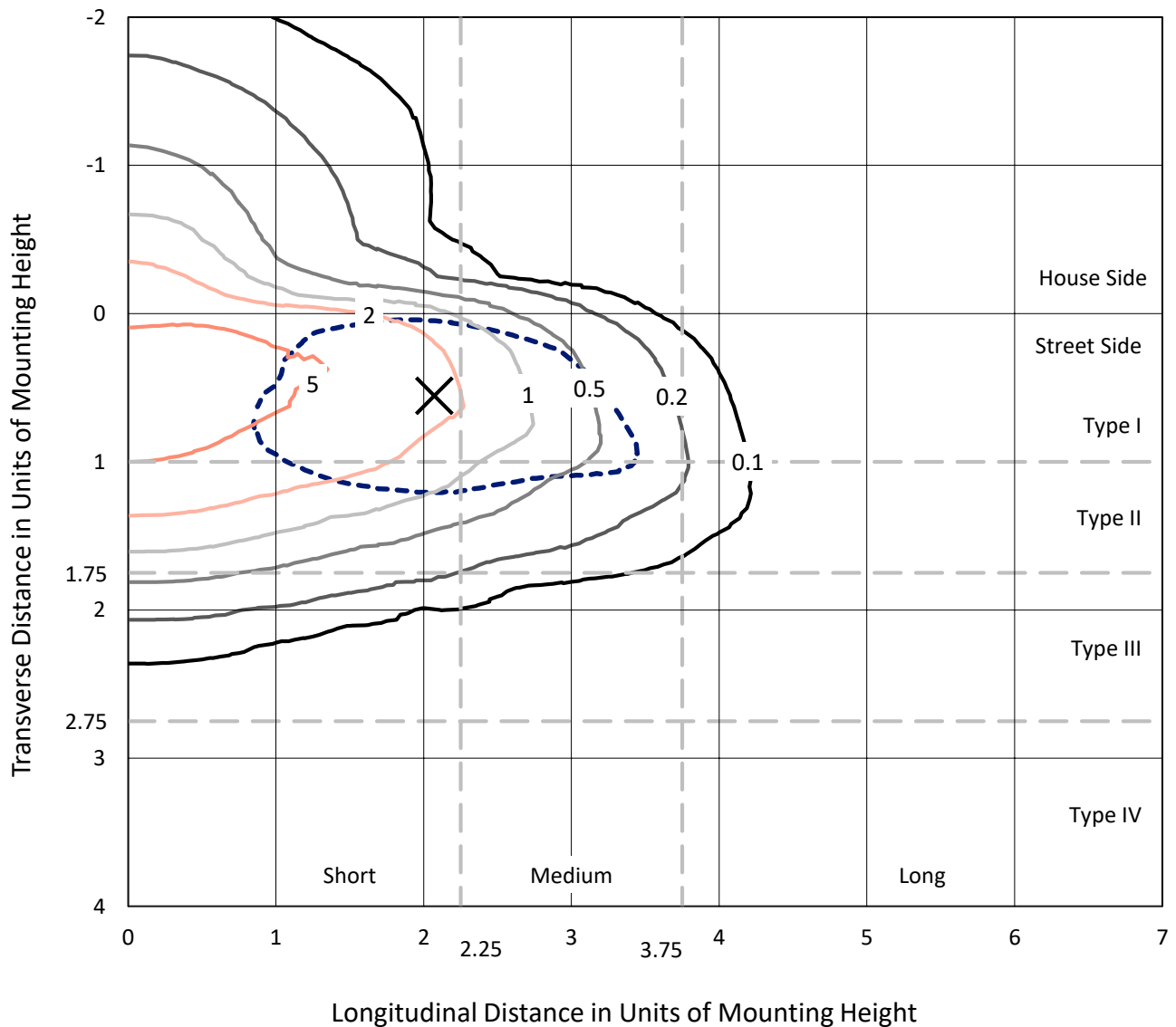
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

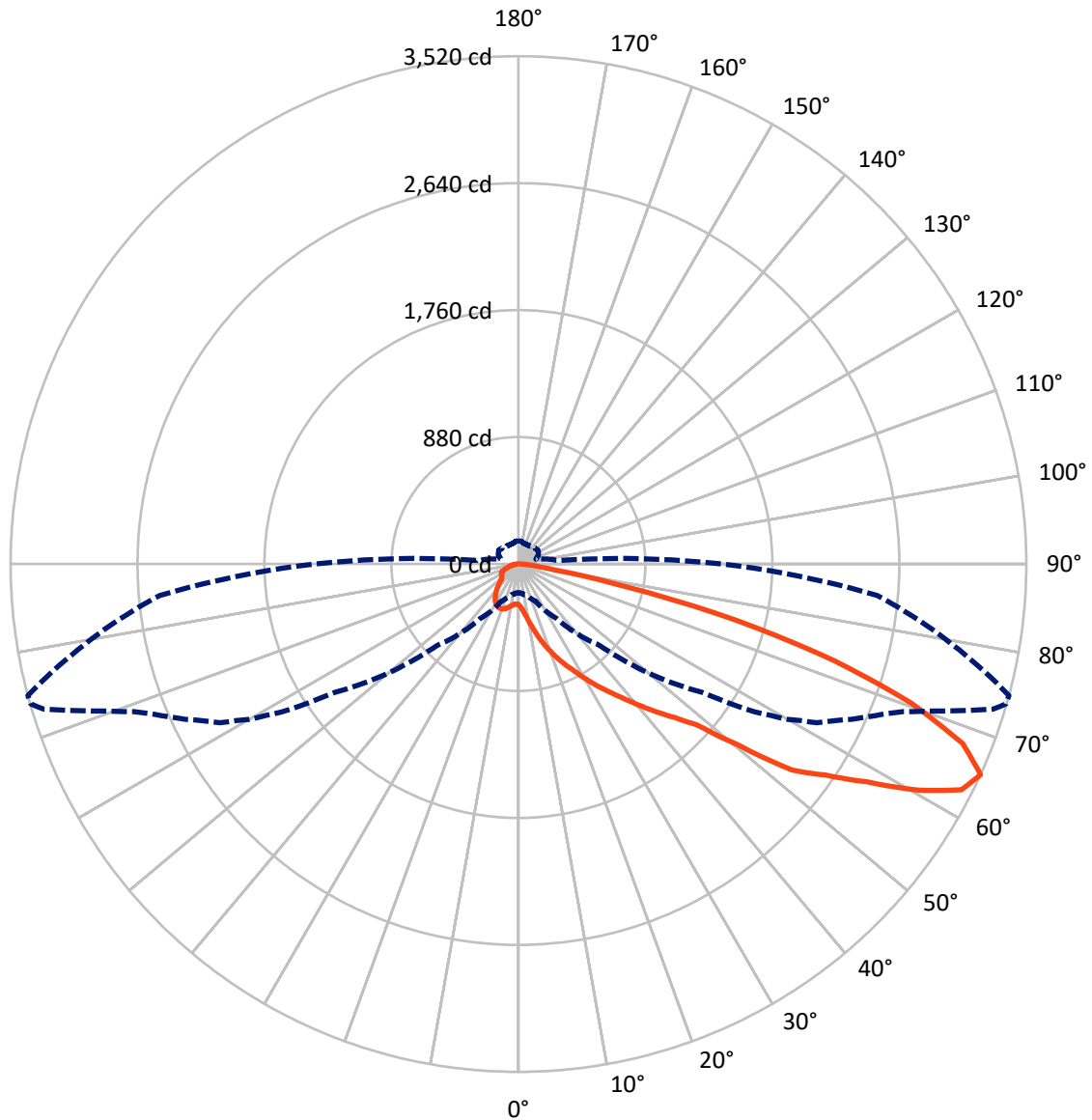
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.2	0.0	536.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	2941.9	0.0	2941.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	3478.1	0.0	3478.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	1.0
10°-20°	136.5	3.9
20°-30°	280.1	8.1
30°-40°	471.2	13.5
40°-50°	651.1	18.7
50°-60°	812.7	23.4
60°-70°	731.4	21.0
70°-80°	306.6	8.8
80°-90°	53.6	1.5
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°	3478.1	100.0
0°-180°	3478.1	100.0

Coefficient of Utilization



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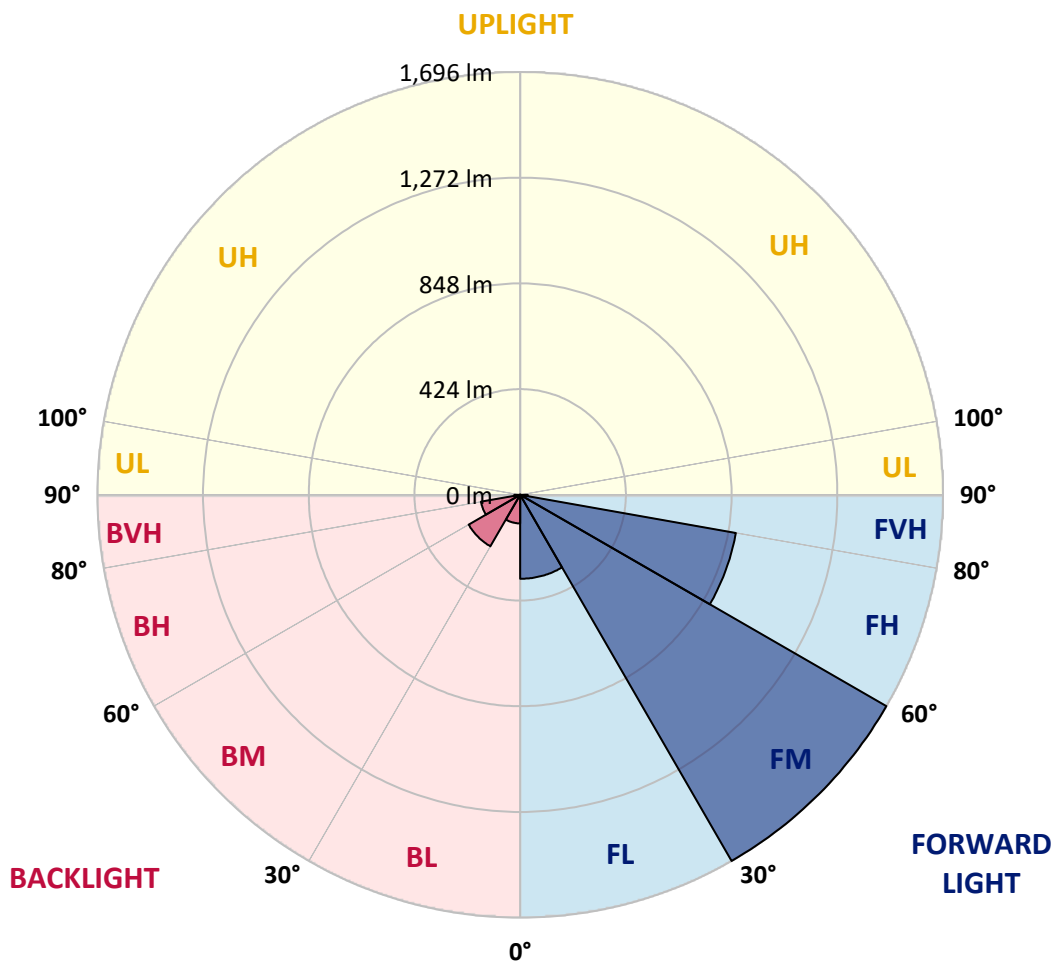
CATALOG NUMBER: GAA-AF-01-LED-U-T2R-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.8	9.7			
FM	(30°-60°)	1696.4	48.8			
FH	(60°-80°)	878.6	25.3			G1/1800
FVH	(80°-90°)	30.1	0.9			G1/100
BL	(0°-30°)	114.7	3.3	B1/500		
BM	(30°-60°)	238.7	6.9	B1/1000		
BH	(60°-80°)	159.4	4.6	B1/500		G1/500
BVH	(80°-90°)	23.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	358.9	354.9	355.9	349.3	341.3	330.7	319.0	318.9	319.0	317.9	313.6
5°	497.6	492.9	491.1	476.2	454.5	423.6	390.0	386.4	384.9	381.1	372.4
7.5°	598.9	596.3	593.5	582.3	562.5	528.0	482.8	475.1	467.7	465.9	456.0
10°	664.3	663.6	657.7	654.7	642.4	612.4	568.5	561.0	553.0	550.2	539.8
12.5°	715.9	715.8	713.0	713.8	703.1	681.4	643.5	636.8	630.9	622.3	614.9
15°	751.7	751.8	756.0	760.6	758.9	744.3	708.7	705.7	700.7	694.7	686.0
17.5°	781.0	781.8	786.1	794.5	803.5	802.4	774.2	771.8	767.3	759.3	754.7
20°	847.2	850.3	842.1	842.1	843.1	847.5	834.0	832.0	825.8	821.5	817.9
22.5°	958.9	962.6	944.0	925.1	906.4	892.9	879.4	881.9	877.6	874.7	872.5
25°	1104.1	1107.0	1076.8	1044.9	1007.0	957.6	924.2	922.7	920.4	918.6	917.6
27.5°	1240.8	1242.0	1213.5	1166.7	1122.7	1051.8	969.6	967.8	965.1	961.6	958.6
30°	1357.7	1357.4	1328.0	1283.4	1236.3	1157.8	1038.6	1033.0	1024.8	1015.4	1008.2
32.5°	1458.9	1458.4	1426.3	1380.1	1330.7	1262.9	1133.1	1121.6	1108.8	1090.5	1079.5
35°	1538.6	1538.3	1508.0	1459.8	1403.1	1361.8	1241.5	1227.3	1211.0	1186.5	1169.5
37.5°	1568.7	1568.7	1551.8	1518.9	1468.8	1440.5	1361.8	1344.7	1327.2	1299.4	1280.3
40°	1551.1	1551.4	1555.0	1549.0	1524.6	1502.9	1474.1	1463.9	1448.9	1423.9	1403.9
42.5°	1492.0	1493.8	1517.9	1547.3	1559.5	1556.1	1573.6	1569.1	1558.5	1539.3	1523.4
45°	1417.1	1422.7	1449.0	1504.7	1569.2	1602.0	1657.1	1657.6	1655.6	1645.3	1633.1
47.5°	1314.2	1322.1	1356.9	1432.1	1546.5	1646.6	1741.9	1746.3	1750.5	1743.7	1738.1
50°	1177.6	1187.0	1239.0	1338.7	1500.2	1692.9	1902.1	1922.2	1940.9	1938.6	1942.4
52.5°	1031.2	1042.3	1105.9	1217.1	1420.7	1703.6	2004.5	2037.2	2070.0	2096.8	2125.3
55°	899.2	893.3	957.0	1074.0	1290.0	1655.3	2096.5	2136.0	2172.6	2205.5	2239.4
57.5°	720.2	730.0	793.8	909.6	1117.0	1519.1	2159.9	2217.7	2270.2	2324.7	2372.8
60°	526.5	536.2	605.5	723.0	929.2	1312.7	2111.5	2199.1	2283.2	2366.6	2431.8
62.5°	317.9	325.2	386.2	498.2	716.5	1067.9	1895.8	2010.7	2134.5	2234.3	2334.2
65°	197.9	202.0	224.5	286.1	460.1	797.3	1549.0	1674.2	1807.6	1934.2	2038.1
67.5°	162.0	163.5	167.6	180.7	252.7	519.9	1152.9	1263.8	1384.2	1506.6	1622.2
70°	145.7	144.7	144.7	145.5	162.0	279.5	754.8	827.1	927.3	1033.9	1139.5
72.5°	131.5	130.5	128.7	126.3	132.2	170.5	390.2	444.7	516.9	611.6	712.8
75°	118.2	116.9	114.8	111.6	115.7	128.7	187.3	210.2	245.5	295.8	352.3
77.5°	104.4	102.7	100.7	98.5	103.7	100.1	109.8	118.0	131.5	147.7	168.9
80°	88.7	87.3	86.6	85.5	91.7	76.2	77.6	82.6	90.5	99.3	109.1
82.5°	69.5	69.5	72.1	72.6	79.5	54.8	58.0	62.4	66.5	71.1	75.7
85°	45.8	46.1	55.0	58.5	62.7	36.9	43.5	44.9	48.3	50.9	52.8
87.5°	14.3	15.5	33.6	37.2	36.0	20.9	26.7	27.3	29.6	31.5	33.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	313.6	311.6	309.8	309.7	308.4	306.5	307.2	304.4	304.5	303.1	301.4
5°	368.8	367.4	360.9	359.0	354.1	351.0	350.5	343.9	343.1	339.3	335.2
7.5°	448.1	443.8	434.6	430.1	421.7	415.5	412.6	403.8	399.5	389.7	385.2
10°	531.2	525.8	514.4	508.2	500.1	490.1	484.6	472.0	467.0	458.0	447.1
12.5°	608.3	602.9	591.2	586.4	575.7	565.0	559.1	544.8	538.3	523.8	515.3
15°	679.6	674.1	663.9	659.0	648.3	639.6	631.6	617.5	610.0	596.4	585.3
17.5°	748.7	742.9	734.1	729.6	719.3	710.4	701.8	688.4	680.7	667.2	657.2
20°	812.9	808.6	802.2	796.3	785.9	777.9	767.7	756.1	744.9	735.0	725.5
22.5°	868.9	867.2	860.3	857.7	848.8	841.9	833.0	821.7	813.6	801.1	792.2
25°	917.1	916.7	913.3	912.5	906.3	899.7	897.7	888.3	880.9	869.9	860.7
27.5°	958.6	959.1	958.3	960.6	958.9	956.0	956.2	953.0	948.7	939.5	931.5
30°	1004.7	1002.1	1003.6	1006.9	1007.8	1008.2	1013.6	1015.4	1015.1	1009.0	1005.0
32.5°	1069.9	1063.7	1057.9	1057.4	1060.7	1062.0	1071.2	1076.0	1080.1	1081.6	1082.3
35°	1153.0	1140.5	1128.5	1122.1	1116.5	1118.0	1124.5	1132.3	1141.3	1147.6	1155.0
37.5°	1257.7	1242.4	1221.2	1206.1	1202.2	1194.0	1198.3	1204.4	1213.3	1223.0	1235.8
40°	1384.7	1361.5	1337.6	1317.5	1306.7	1291.5	1291.3	1290.2	1295.6	1304.7	1322.8
42.5°	1506.8	1486.2	1460.9	1439.8	1425.7	1405.4	1401.3	1390.6	1393.1	1401.0	1418.6
45°	1621.2	1604.3	1588.8	1564.5	1552.4	1530.5	1523.6	1510.9	1503.9	1507.5	1525.1
47.5°	1732.0	1721.2	1705.0	1689.2	1680.0	1660.4	1651.5	1642.5	1633.4	1633.1	1651.5
50°	1948.0	1942.3	1923.2	1906.7	1911.2	1887.1	1888.6	1864.2	1875.3	1876.6	1915.3
52.5°	2151.0	2171.1	2185.3	2202.5	2213.7	2215.9	2223.3	2234.3	2247.6	2274.0	2309.9
55°	2267.2	2292.4	2307.1	2320.3	2342.0	2346.6	2358.9	2373.6	2385.3	2414.9	2445.4
57.5°	2405.4	2452.1	2474.8	2495.7	2525.0	2536.2	2556.8	2572.8	2587.9	2623.0	2659.9
60°	2490.4	2547.4	2593.7	2626.7	2663.5	2689.8	2721.0	2746.0	2781.5	2823.5	2878.5
62.5°	2422.8	2506.4	2567.9	2624.6	2674.5	2724.9	2769.5	2816.3	2870.2	2933.8	3019.1
65°	2153.3	2238.4	2343.6	2402.5	2468.6	2546.3	2614.1	2689.8	2763.4	2855.9	2982.0
67.5°	1733.5	1832.4	1950.7	2010.1	2086.0	2172.7	2248.8	2341.3	2427.3	2539.3	2695.3
70°	1249.5	1377.4	1476.9	1538.9	1627.5	1716.9	1790.3	1898.0	1969.1	2084.0	2245.2
72.5°	791.2	892.1	1013.9	1092.1	1170.8	1261.4	1336.4	1429.3	1495.6	1600.3	1746.3
75°	425.4	499.8	606.8	681.1	765.4	842.7	930.6	992.8	1041.9	1124.7	1243.3
77.5°	199.3	244.6	298.8	355.9	413.1	472.6	530.6	581.0	602.1	649.5	719.4
80°	121.0	135.7	151.4	169.1	193.0	212.2	237.7	256.1	257.5	272.5	293.8
82.5°	80.8	86.2	91.0	95.5	101.6	106.4	111.8	118.2	120.8	124.3	131.2
85°	55.1	57.8	58.7	61.6	60.9	62.6	64.7	66.9	68.0	67.8	71.0
87.5°	33.9	35.2	35.9	36.5	36.0	35.4	36.4	37.6	37.8	36.9	37.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	301.8	300.3	298.8	297.8	297.5	288.8	285.0	282.5	277.2	272.9	269.5
5°	332.9	329.7	327.3	324.3	322.7	300.6	292.5	287.0	277.7	272.3	267.3
7.5°	382.9	374.2	369.1	363.3	358.4	318.6	305.2	296.5	283.6	276.4	270.8
10°	439.7	430.7	422.6	413.7	406.0	342.4	323.0	309.5	292.5	283.2	275.7
12.5°	503.1	494.2	484.0	472.6	462.8	372.7	345.7	326.5	303.2	290.7	280.4
15°	578.0	562.3	550.0	536.9	525.3	409.0	372.2	345.6	314.6	297.7	283.8
17.5°	647.6	631.2	614.4	602.9	589.5	449.6	398.9	365.0	324.0	302.1	284.5
20°	715.6	697.7	683.2	667.7	653.7	491.7	427.4	382.1	330.1	302.2	280.4
22.5°	775.6	764.3	748.2	731.4	717.3	533.9	454.0	396.6	332.4	298.5	273.1
25°	843.7	831.9	812.1	797.9	782.2	576.9	480.2	407.8	331.1	291.4	261.9
27.5°	916.5	903.3	883.1	868.3	849.2	621.4	504.2	415.8	326.1	279.9	246.9
30°	992.3	980.3	960.4	945.5	926.2	668.7	531.1	421.3	316.3	263.9	229.5
32.5°	1073.9	1063.8	1044.1	1028.4	1007.8	719.9	556.1	422.9	301.3	245.0	211.1
35°	1151.2	1144.3	1127.7	1113.0	1091.6	768.3	582.6	422.1	283.5	224.2	194.3
37.5°	1238.3	1234.2	1226.0	1207.4	1181.2	834.0	614.4	418.6	261.8	203.6	181.4
40°	1331.2	1331.5	1322.6	1309.9	1285.6	913.7	652.3	411.9	238.0	185.5	169.7
42.5°	1429.4	1434.6	1430.3	1421.2	1397.8	994.0	697.5	403.7	215.0	167.9	158.2
45°	1542.0	1548.3	1554.9	1541.6	1518.9	1100.0	757.1	393.0	190.1	153.2	150.3
47.5°	1672.0	1681.8	1687.7	1687.9	1665.2	1231.4	853.9	386.5	168.1	143.4	146.5
50°	1946.0	1949.2	1963.2	1987.5	1970.1	1535.5	1023.0	382.6	153.1	137.3	143.7
52.5°	2341.0	2375.4	2399.6	2398.0	2374.2	1728.6	1116.1	362.2	144.2	135.0	142.4
55°	2501.8	2544.8	2589.6	2601.4	2583.0	1893.4	1204.2	341.8	139.9	136.6	142.9
57.5°	2716.2	2788.6	2850.0	2875.9	2849.2	2104.3	1320.1	331.1	138.6	141.1	146.0
60°	2966.5	3056.1	3136.8	3183.2	3183.2	2346.6	1440.3	326.6	136.8	147.7	151.3
62.5°	3127.4	3258.9	3380.8	3448.8	3446.8	2515.3	1493.7	311.5	132.7	152.3	158.5
65°	3128.1	3284.5	3439.7	3516.1	3520.0	2494.6	1405.6	275.1	125.1	153.0	165.8
67.5°	2867.3	3034.0	3215.0	3300.4	3320.2	2296.4	1216.8	226.2	112.8	146.4	168.4
70°	2421.6	2584.5	2769.2	2853.2	2888.2	1957.5	980.0	174.3	97.0	131.9	163.0
72.5°	1907.8	2067.5	2196.1	2257.5	2284.8	1496.3	713.6	131.7	79.5	111.1	148.3
75°	1350.8	1470.6	1538.9	1552.6	1556.8	902.0	433.6	98.0	65.5	86.4	125.3
77.5°	762.4	813.8	808.1	814.2	763.6	348.2	188.8	70.1	54.0	65.7	97.1
80°	297.7	306.9	288.3	282.5	259.1	129.6	83.3	48.9	43.1	49.7	68.0
82.5°	131.2	135.5	131.5	132.5	126.8	66.9	49.9	35.4	32.9	36.4	45.1
85°	72.3	73.6	73.3	75.4	72.3	26.7	23.7	21.7	23.1	24.7	29.0
87.5°	35.2	35.6	34.4	36.2	35.1	13.5	11.7	12.4	13.5	13.8	13.8
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):

	135°	145°	155°	165°	175°	180°
0°	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	267.0	265.7	265.9	265.5	264.9	264.9
5°	264.7	263.4	263.4	263.1	262.2	262.4
7.5°	267.0	264.9	264.1	262.9	261.8	261.8
10°	269.7	265.9	263.6	261.6	260.1	260.1
12.5°	271.6	265.7	261.9	259.3	257.8	257.8
15°	272.3	264.5	259.3	256.1	254.8	254.7
17.5°	270.2	260.1	253.7	250.1	248.4	247.9
20°	263.6	252.0	244.3	240.2	237.9	237.1
22.5°	253.7	240.5	231.5	227.2	224.2	223.7
25°	239.9	225.7	216.8	212.7	211.1	210.5
27.5°	223.7	210.5	203.0	200.3	198.9	198.7
30°	208.4	197.2	191.6	189.6	187.8	187.5
32.5°	194.1	187.0	184.9	182.1	177.8	177.3
35°	183.9	183.2	181.8	175.5	170.2	168.7
37.5°	177.6	183.7	176.2	163.8	160.0	159.7
40°	174.0	178.6	165.6	161.4	161.6	161.4
42.5°	165.8	170.5	165.9	164.0	165.3	165.6
45°	157.5	162.8	168.4	167.1	170.2	170.2
47.5°	153.0	160.8	168.2	168.2	172.9	174.5
50°	147.7	159.2	165.6	167.9	171.6	170.2
52.5°	147.3	156.4	161.8	165.9	167.6	166.1
55°	147.8	154.1	158.0	162.7	164.6	164.8
57.5°	148.5	152.8	155.4	157.5	163.5	163.5
60°	150.1	151.6	153.1	154.3	162.0	162.1
62.5°	152.8	150.5	150.1	151.3	161.2	160.5
65°	156.9	148.8	146.4	147.5	160.3	158.4
67.5°	162.5	146.4	141.6	142.4	159.7	155.4
70°	167.6	142.4	135.7	134.8	153.4	145.9
72.5°	168.1	137.8	127.4	125.0	133.4	126.1
75°	159.8	134.6	118.4	111.1	110.1	109.1
77.5°	144.1	132.8	107.8	96.5	94.5	95.1
80°	120.5	126.1	95.1	81.7	92.3	91.2
82.5°	90.1	111.3	80.8	72.3	72.1	63.7
85°	50.1	86.8	65.8	54.2	37.7	36.5
87.5°	14.0	48.3	46.1	30.6	20.9	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

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