

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: P179076

Luminaire Tested: **VERD-A01-E-U-T4-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26294)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A01-E-U-T4-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K LED AND TYPE IV OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5609 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

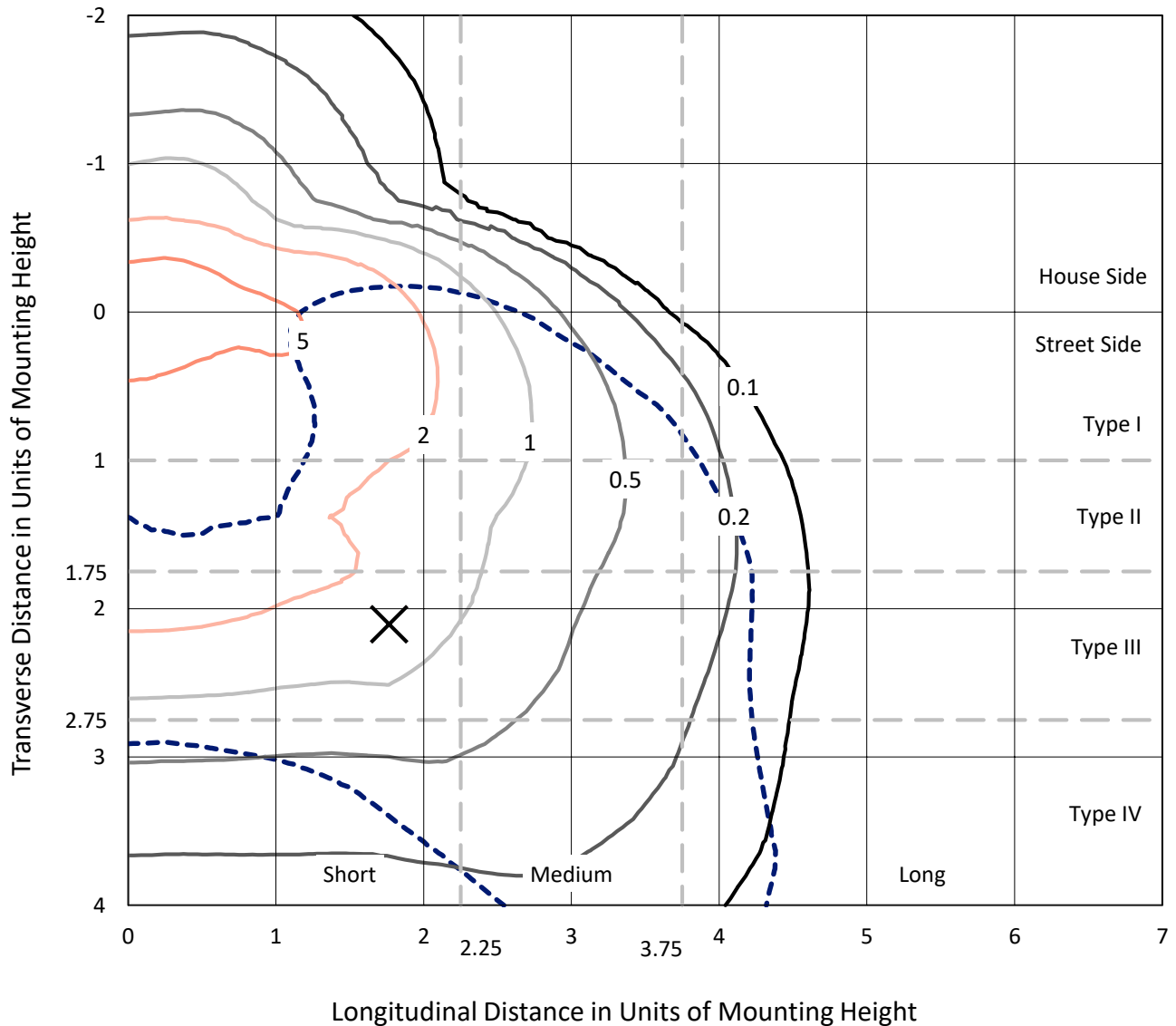
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

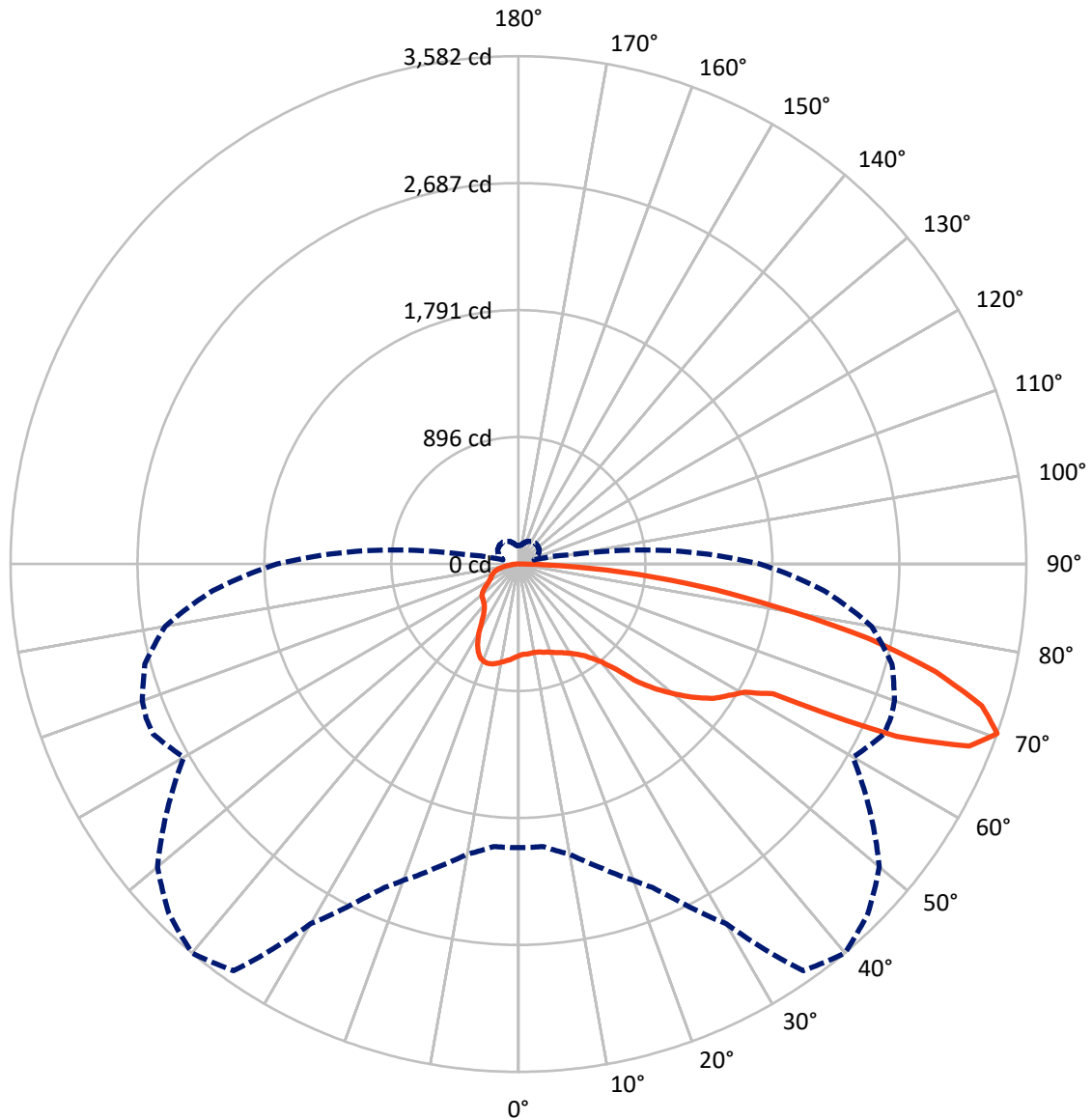
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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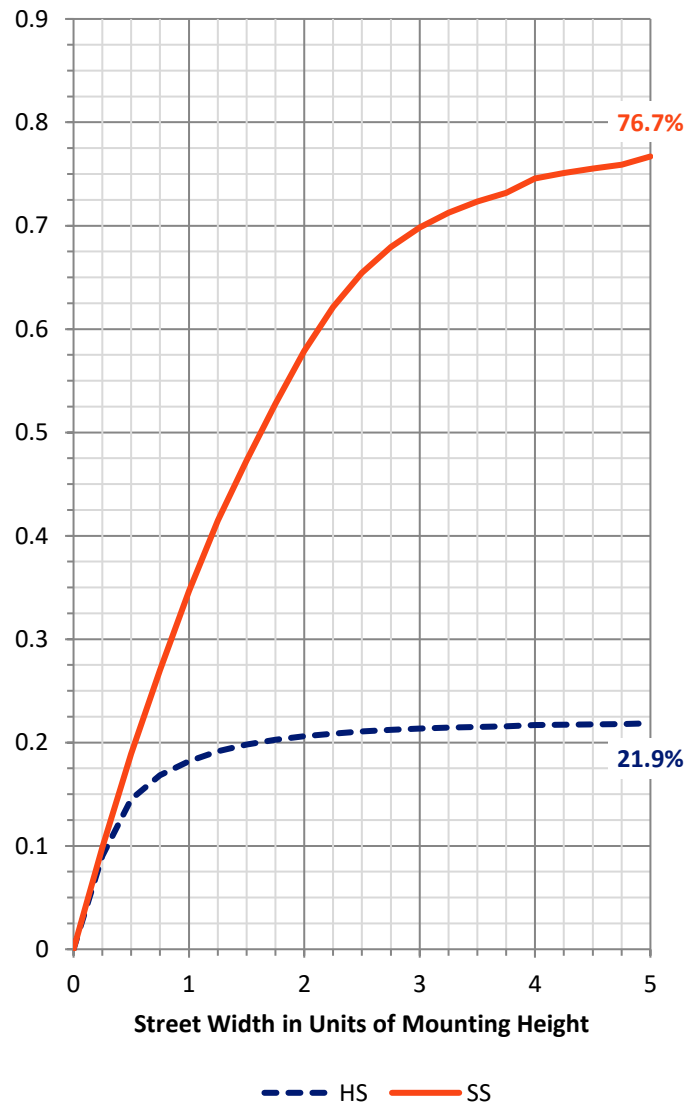
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.5	0.0	1242.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4366.5	0.0	4366.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	5609.0	0.0	5609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.1
10°-20°	196.5	3.5
20°-30°	328.9	5.9
30°-40°	463.7	8.3
40°-50°	726.2	12.9
50°-60°	1062.0	18.9
60°-70°	1473.0	26.3
70°-80°	1103.7	19.7
80°-90°	192.1	3.4
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°	5609.0	100.0
0°-180°	5609.0	100.0

Coefficient of Utilization



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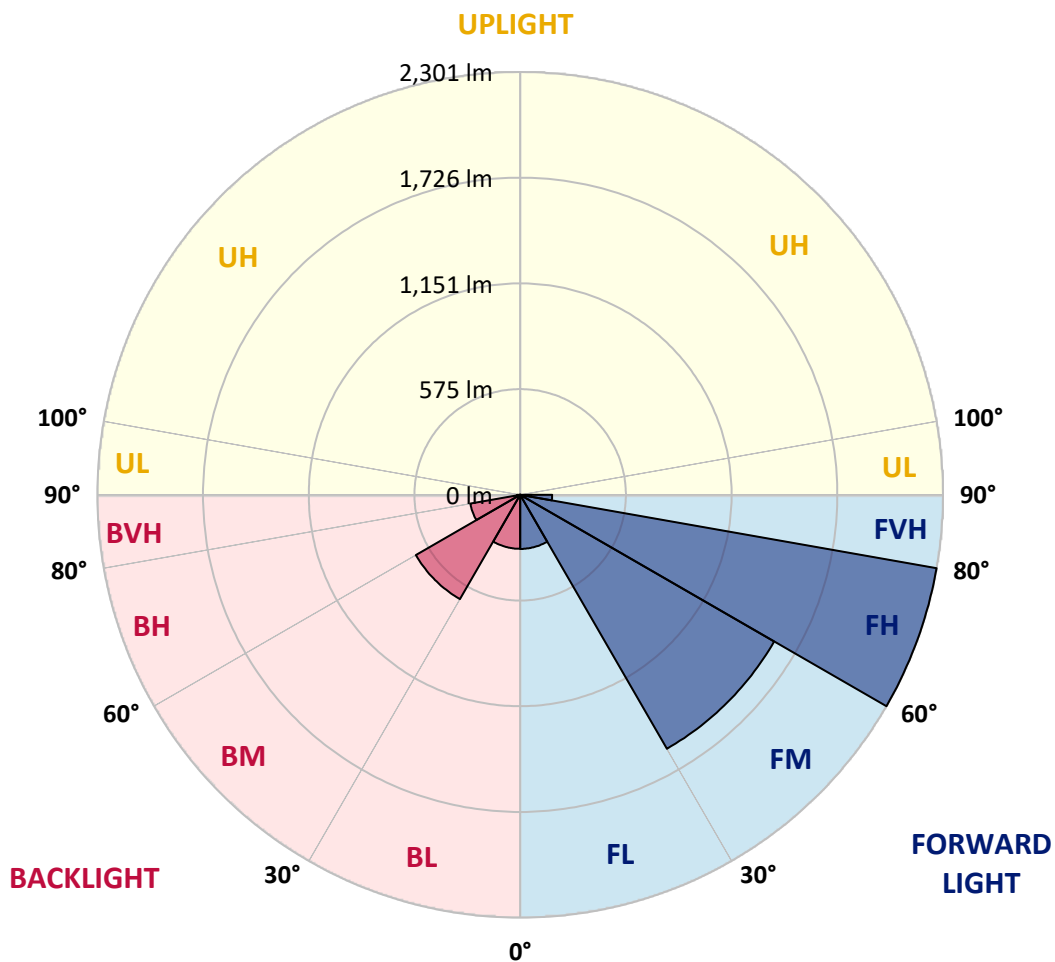
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.4	5.2			
FM	(30°-60°)	1596.3	28.5			
FH	(60°-80°)	2301.3	41.0			G2/5000
FVH	(80°-90°)	174.4	3.1			G2/225
BL	(0°-30°)	293.9	5.2	B1/500		
BM	(30°-60°)	655.6	11.7	B1/1000		
BH	(60°-80°)	275.4	4.9	B1/500		G1/500
BVH	(80°-90°)	17.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	641.0	640.4	637.3	636.0	632.3	634.2	637.9	641.0	639.7	637.9	639.1
5°	639.1	637.9	635.4	633.5	629.8	630.4	634.2	636.0	638.5	637.9	639.1
7.5°	631.1	629.8	626.1	625.5	622.4	623.0	624.9	628.0	632.9	635.4	636.0
10°	626.1	623.6	620.5	620.5	617.4	618.0	619.9	623.0	629.2	633.5	635.4
12.5°	623.6	621.8	619.9	620.5	618.7	619.9	621.8	625.5	631.7	637.3	638.5
15°	628.0	628.0	625.5	626.7	626.7	629.2	631.1	633.5	638.5	645.3	649.7
17.5°	639.7	640.4	637.9	640.4	640.4	642.2	644.1	645.3	647.2	653.4	660.8
20°	644.7	646.6	646.0	650.3	653.4	655.3	656.5	659.0	659.6	663.9	670.8
22.5°	658.4	657.1	657.1	663.3	663.3	665.8	667.7	668.9	672.0	678.8	683.8
25°	673.3	671.4	672.0	677.0	675.7	676.4	678.2	680.7	683.8	692.5	701.8
27.5°	683.2	682.6	683.2	686.9	690.0	691.3	693.1	695.6	702.4	709.9	720.4
30°	704.9	704.9	699.3	701.8	703.7	704.9	708.0	714.8	722.9	731.6	742.1
32.5°	740.9	741.5	734.1	731.6	729.1	728.5	730.3	742.1	747.7	758.3	769.4
35°	778.1	772.5	768.8	772.5	773.8	772.5	773.2	780.0	783.7	793.0	802.9
37.5°	878.0	864.4	858.2	855.1	840.2	829.0	825.3	827.8	830.9	843.3	853.8
40°	1023.2	1023.2	1007.1	997.8	973.0	955.0	941.9	918.4	904.7	909.1	919.0
42.5°	1180.8	1172.8	1162.8	1140.5	1124.4	1102.0	1085.9	1051.8	1027.6	1017.6	999.0
45°	1305.6	1310.5	1314.2	1296.2	1283.2	1273.3	1265.2	1250.3	1219.9	1191.4	1151.7
47.5°	1422.8	1428.4	1427.8	1388.1	1398.0	1399.3	1397.4	1380.6	1348.4	1320.4	1274.5
50°	1538.9	1550.7	1537.0	1471.9	1486.7	1490.5	1491.1	1477.4	1453.2	1443.9	1422.2
52.5°	1682.8	1672.3	1610.2	1569.9	1561.8	1564.3	1563.7	1561.2	1562.4	1564.9	1560.0
55°	1848.5	1764.7	1684.1	1663.0	1648.7	1638.8	1631.9	1620.8	1627.6	1672.9	1671.0
57.5°	1872.1	1869.0	1864.6	1777.8	1753.6	1746.7	1733.1	1723.2	1689.0	1748.6	1775.3
60°	2243.8	2280.4	2239.4	2210.3	2157.5	2080.6	1988.1	1884.5	1783.4	1833.6	1873.3
62.5°	2647.1	2647.1	2695.5	2663.2	2629.7	2566.4	2532.3	2398.9	2207.2	2014.8	2019.8
65°	2689.9	2706.1	2745.1	2822.1	2855.0	2872.4	2895.9	2883.5	2912.7	2931.3	2596.8
67.5°	2418.8	2438.6	2488.9	2607.4	2723.4	2780.5	2847.5	2992.1	3258.3	3428.3	3383.7
70°	1999.9	2000.5	2077.5	2214.0	2374.7	2469.6	2604.9	2929.4	3502.2	3582.2	3486.7
72.5°	1481.2	1480.5	1563.1	1684.7	1846.0	1980.7	2119.0	2589.4	3327.2	3418.4	3377.4
75°	1043.7	1048.7	1116.9	1228.0	1369.5	1477.4	1609.6	2107.3	2814.0	3039.9	3104.4
77.5°	727.9	745.2	788.1	880.5	999.6	1086.5	1189.5	1605.3	2216.5	2524.9	2623.5
80°	462.9	478.4	516.9	598.8	703.0	780.0	861.3	1172.8	1649.3	1848.5	1939.1
82.5°	264.3	274.9	309.0	374.2	453.6	514.4	577.1	788.7	1169.0	1295.6	1271.4
85°	129.7	136.5	158.9	202.9	263.1	306.5	350.6	477.2	667.1	739.0	702.4
87.5°	34.7	37.2	46.5	66.4	90.6	108.6	124.7	176.8	218.4	189.3	141.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	637.9	634.8	636.6	637.3	637.3	639.1	641.0	642.2	639.7	646.0	643.5
5°	638.5	635.4	639.7	641.6	641.6	642.9	646.6	647.8	649.1	653.4	652.2
7.5°	637.3	638.5	643.5	647.8	648.4	649.1	655.9	655.9	662.1	662.7	663.9
10°	638.5	643.5	649.1	657.1	659.0	659.6	665.8	669.5	677.0	674.5	680.1
12.5°	644.1	652.8	659.0	670.8	675.1	677.0	685.7	693.7	702.4	699.9	704.9
15°	654.6	665.8	675.1	689.4	695.0	699.3	711.1	724.1	731.0	732.8	740.3
17.5°	666.4	679.5	691.9	706.8	714.8	721.0	734.7	752.1	758.9	766.3	774.4
20°	677.6	692.5	704.3	720.4	730.3	739.0	757.6	776.3	786.8	799.2	808.5
22.5°	690.0	704.3	717.3	734.1	745.9	757.6	781.8	801.1	817.8	832.7	845.1
25°	709.9	720.4	735.9	753.3	767.6	783.1	807.9	829.0	852.0	869.3	883.6
27.5°	731.0	739.7	757.0	778.7	793.6	809.1	832.7	859.4	887.3	910.9	930.1
30°	752.7	765.1	786.8	809.1	823.4	838.3	863.8	898.5	932.6	963.7	980.4
32.5°	779.4	796.7	823.4	847.0	859.4	873.1	903.5	943.8	992.2	1025.7	1027.6
35°	817.8	838.9	866.9	891.7	903.5	918.4	954.3	1002.7	1064.2	1091.5	1077.8
37.5°	869.3	895.4	922.1	949.4	963.0	981.0	1023.2	1094.0	1162.2	1174.6	1139.3
40°	938.8	964.3	994.7	1026.3	1046.8	1071.0	1126.9	1239.8	1301.2	1284.5	1224.3
42.5°	1013.9	1049.9	1087.1	1132.4	1162.2	1187.7	1273.3	1407.3	1440.2	1409.2	1318.0
45°	1138.0	1158.5	1195.7	1249.7	1283.8	1325.4	1448.3	1587.3	1605.9	1543.8	1419.7
47.5°	1257.8	1255.9	1292.5	1368.8	1417.9	1482.4	1638.8	1769.1	1767.2	1688.4	1530.8
50°	1402.4	1401.1	1418.5	1511.6	1581.1	1657.4	1854.1	1949.6	1918.0	1816.9	1636.9
52.5°	1542.0	1555.0	1589.8	1665.5	1736.2	1834.2	2038.4	2094.2	2058.2	1933.5	1726.3
55°	1671.7	1699.0	1745.5	1842.9	1932.9	2057.0	2217.7	2240.7	2178.6	2024.1	1790.8
57.5°	1795.8	1833.6	1898.1	2030.9	2159.4	2272.9	2370.4	2367.9	2276.0	2093.6	1832.4
60°	1911.8	1968.3	2051.4	2222.1	2367.9	2454.1	2518.0	2480.2	2351.1	2138.3	1846.6
62.5°	2045.8	2104.8	2200.3	2429.3	2557.1	2616.1	2634.7	2558.4	2393.3	2147.0	1822.4
65°	2300.2	2318.9	2390.2	2634.1	2717.2	2739.6	2709.8	2592.5	2401.4	2118.4	1732.5
67.5°	3123.0	2664.5	2578.8	2790.4	2820.8	2810.3	2739.6	2591.9	2356.1	2003.0	1515.9
70°	3323.5	3023.8	2724.7	2842.6	2841.9	2822.7	2727.8	2529.2	2166.2	1701.4	1084.0
72.5°	3244.7	2960.5	2707.3	2789.8	2811.5	2812.2	2616.1	2271.1	1753.6	1158.5	502.0
75°	3038.0	2772.4	2666.3	2658.9	2619.8	2509.4	2169.3	1709.5	1064.2	461.7	74.5
77.5°	2571.4	2322.6	2142.0	1960.8	1862.2	1705.2	1273.3	767.0	350.0	55.8	47.8
80°	1818.7	1487.4	1103.3	837.7	706.1	483.4	165.7	60.8	50.3	35.4	30.4
82.5°	1076.6	733.4	321.4	74.5	57.1	52.7	44.1	37.9	32.3	21.7	19.2
85°	549.2	290.4	42.2	34.7	32.9	31.0	26.7	23.6	18.0	11.8	13.0
87.5°	73.8	22.3	12.4	12.4	11.8	11.8	11.2	8.7	5.6	3.7	3.7
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	643.5	645.3	647.2	648.4	649.7	650.3	652.2	652.2	654.6	657.7	660.2
5°	652.2	656.5	656.5	657.7	661.5	661.5	665.2	664.6	668.9	673.9	674.5
7.5°	665.2	671.4	670.2	671.4	675.7	677.0	679.5	677.6	683.8	687.5	688.1
10°	683.2	686.9	688.1	690.0	693.7	696.8	697.5	695.6	700.6	700.6	701.2
12.5°	713.0	714.2	718.6	719.2	719.2	724.1	721.7	719.2	719.8	715.5	712.3
15°	749.0	748.3	755.2	754.5	752.1	754.5	749.0	744.0	739.0	727.9	718.6
17.5°	783.1	783.7	788.7	786.8	784.9	782.5	775.0	765.7	752.1	733.4	717.3
20°	817.2	817.8	817.2	815.4	812.9	801.1	789.9	775.0	755.8	729.7	707.4
22.5°	852.6	852.6	846.4	842.7	837.7	817.2	799.2	776.9	748.3	714.8	683.8
25°	889.8	890.4	876.2	868.1	859.4	827.8	799.8	766.3	725.4	681.9	643.5
27.5°	932.6	922.1	897.9	883.6	866.9	824.7	782.5	739.7	688.1	634.2	584.5
30°	969.2	943.2	905.3	883.6	858.2	806.7	749.0	691.9	631.7	569.6	508.8
32.5°	1000.9	956.8	901.6	871.2	837.1	771.3	704.3	629.8	560.9	490.8	442.4
35°	1030.7	966.8	894.8	855.7	812.3	728.5	647.8	563.4	491.4	433.1	392.2
37.5°	1067.9	977.3	882.4	833.3	781.2	683.2	594.5	511.9	447.4	400.2	373.5
40°	1115.7	989.7	865.0	804.2	742.1	632.9	536.7	461.7	411.4	377.3	365.5
42.5°	1172.8	1003.4	837.7	762.0	690.0	569.6	475.3	415.7	381.6	364.9	358.0
45°	1233.0	1017.6	804.8	713.6	631.7	506.3	421.9	377.3	360.5	354.9	351.2
47.5°	1304.3	1036.9	766.3	657.1	566.5	443.7	376.7	346.9	346.9	347.5	346.9
50°	1377.5	1056.1	728.5	596.9	495.2	382.2	339.4	328.9	332.6	337.6	339.4
52.5°	1439.6	1073.5	716.1	573.4	433.1	328.9	308.4	307.8	312.7	318.9	320.8
55°	1473.1	1076.6	726.6	569.6	419.5	292.9	277.4	281.7	286.7	293.5	293.5
57.5°	1491.7	1053.0	674.5	487.7	363.0	261.2	248.2	254.4	256.3	262.5	266.2
60°	1467.5	1002.1	499.5	341.3	268.1	223.4	219.0	228.3	232.1	239.5	243.9
62.5°	1401.1	866.9	313.4	220.9	199.2	195.5	199.8	208.5	215.9	223.4	227.1
65°	1243.5	577.7	174.4	173.1	177.5	181.2	193.0	201.0	207.9	214.7	213.5
67.5°	894.2	215.9	145.2	152.6	160.1	173.7	186.2	196.7	199.2	202.9	202.9
70°	377.3	113.6	129.7	139.0	152.6	166.9	179.3	181.8	188.0	188.0	189.3
72.5°	85.0	92.5	111.7	124.7	139.6	152.6	163.8	169.4	171.3	179.9	178.1
75°	67.0	76.3	99.3	110.5	118.5	129.7	142.7	148.3	153.9	160.1	164.4
77.5°	48.4	60.2	81.9	89.4	97.4	109.8	116.0	124.7	129.7	133.4	134.0
80°	34.1	48.4	63.3	67.6	72.6	74.5	81.3	94.9	98.7	104.9	106.7
82.5°	25.4	33.5	37.9	39.1	40.3	45.9	47.2	54.6	58.3	68.3	73.8
85°	18.6	19.2	14.9	14.3	14.3	17.4	19.9	26.1	31.6	38.5	42.2
87.5°	4.3	5.0	5.6	6.2	6.8	8.7	11.8	18.0	26.1	33.5	35.4
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
2.5°	660.8	665.8	667.1	667.7	670.2	670.8	671.4	672.0
5°	675.1	681.3	682.6	683.2	686.9	687.5	687.5	688.8
7.5°	688.1	693.1	694.4	695.0	698.1	699.9	699.9	701.2
10°	699.9	701.8	701.2	701.2	704.3	704.3	704.3	704.3
12.5°	708.0	705.5	702.4	700.6	698.7	695.6	693.7	691.9
15°	708.6	699.3	693.1	688.8	681.9	672.6	667.1	662.1
17.5°	698.7	682.6	673.9	665.8	650.9	636.0	625.5	616.8
20°	678.2	650.9	639.1	627.3	604.4	583.3	570.3	560.9
22.5°	644.1	605.6	588.2	574.0	544.2	520.0	506.3	497.7
25°	596.3	546.1	523.1	502.6	475.9	457.3	446.1	438.7
27.5°	527.4	479.0	461.0	445.5	421.9	405.2	393.4	389.1
30°	461.0	425.1	411.4	399.0	379.8	363.6	351.2	345.6
32.5°	405.2	382.2	372.9	364.9	350.6	334.5	321.4	316.5
35°	368.0	354.9	348.7	342.5	328.3	312.7	297.2	290.4
37.5°	360.5	351.2	346.2	341.3	329.5	310.3	292.3	284.8
40°	357.4	350.0	347.5	344.4	330.7	313.4	293.5	284.8
42.5°	354.3	351.8	348.1	343.1	328.3	311.5	295.4	286.1
45°	351.2	348.7	343.8	338.8	323.9	305.3	289.8	280.5
47.5°	346.2	340.7	335.1	329.5	315.2	296.0	278.0	269.9
50°	332.0	323.3	319.6	312.1	296.0	276.7	260.0	255.0
52.5°	311.5	300.9	297.2	289.2	272.4	251.9	235.8	229.6
55°	287.9	280.5	278.0	271.2	255.0	233.9	220.3	214.1
57.5°	268.7	266.8	266.2	263.1	249.4	232.1	221.5	217.2
60°	247.0	247.0	249.4	251.9	242.0	222.1	208.5	204.8
62.5°	227.1	224.6	225.2	225.2	215.3	198.6	187.4	181.8
65°	209.1	203.5	202.3	197.9	185.5	168.2	157.0	154.5
67.5°	196.7	189.3	186.8	183.1	170.0	154.5	144.0	140.2
70°	183.7	175.0	172.5	168.2	155.1	140.2	131.5	128.4
72.5°	171.3	160.7	158.9	155.1	141.5	128.4	117.9	113.6
75°	157.0	139.6	133.4	126.0	109.2	94.3	85.6	82.5
77.5°	126.6	121.6	117.3	111.7	95.6	80.7	72.6	68.9
80°	103.0	101.1	98.7	96.2	79.4	63.9	43.4	38.5
82.5°	74.5	71.4	73.8	75.7	61.4	37.9	29.8	26.7
85°	41.6	39.1	38.5	42.2	34.7	26.7	19.2	16.8
87.5°	36.0	33.5	31.6	29.8	21.1	18.0	14.9	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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