

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: P179081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179081
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-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K LED AND TYPE IV OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5732 lumens
Efficiency: N/A
Efficacy: 89.6 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

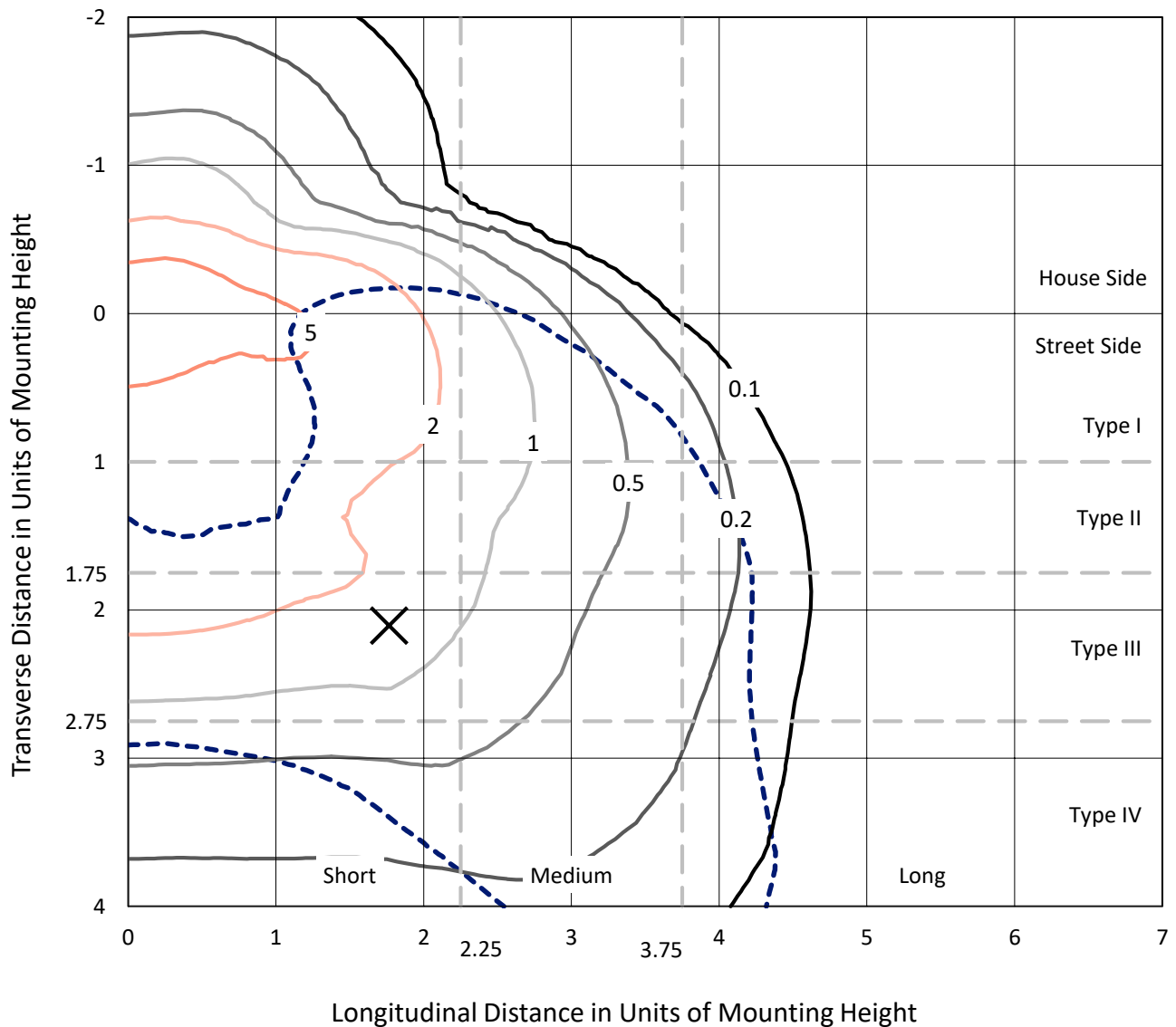
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

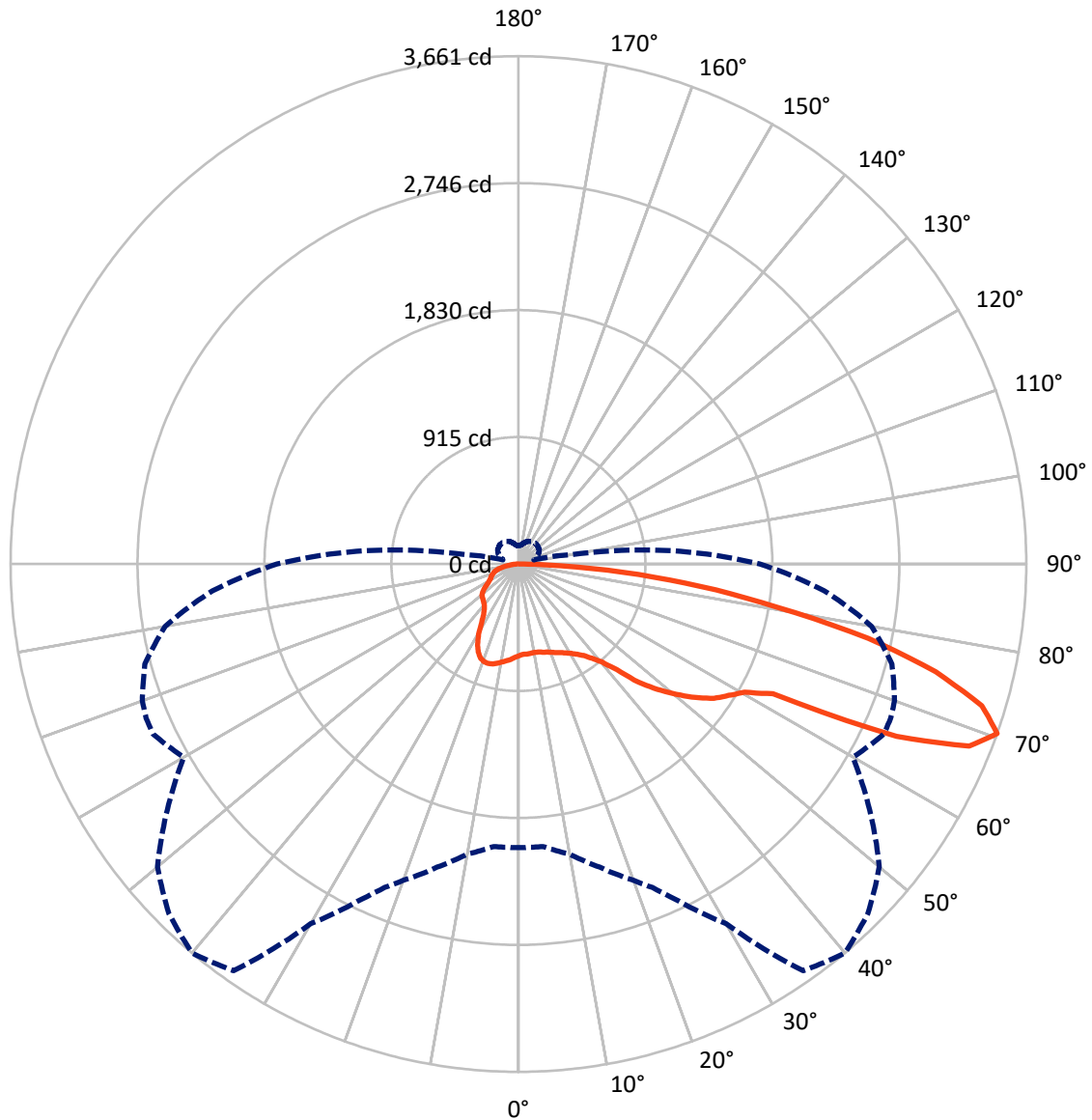


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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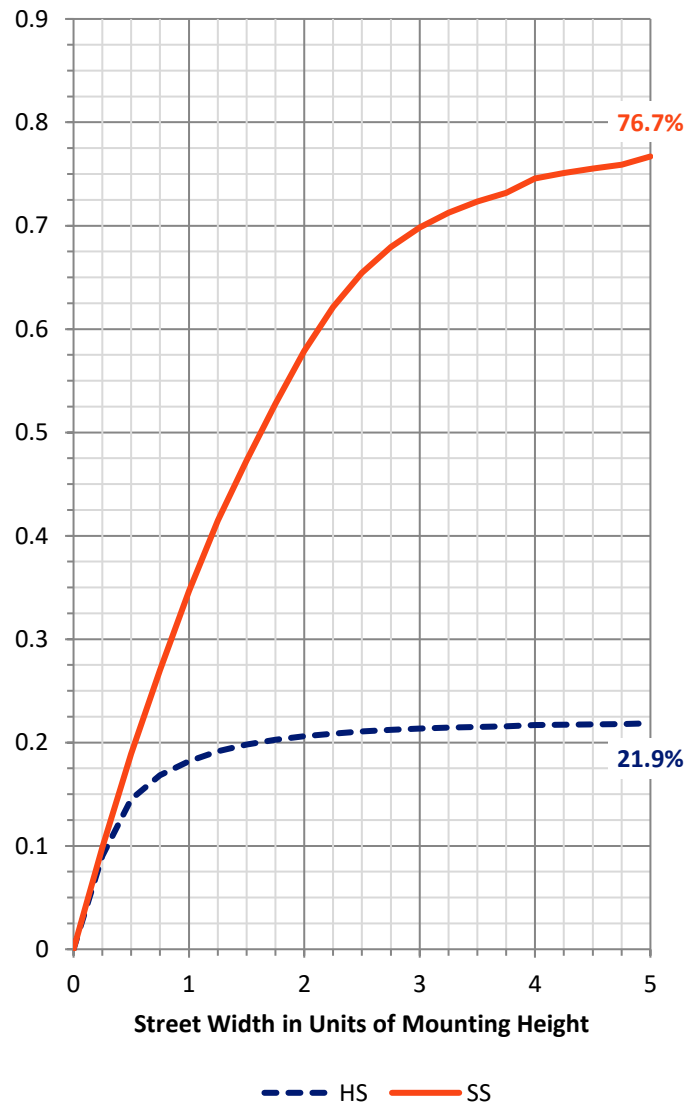
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.8	0.0	1269.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4462.2	0.0	4462.2
	% Fixture	77.8	0.0	77.8
Total	Lumens	5732.0	0.0	5732.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.1
10°-20°	200.8	3.5
20°-30°	336.1	5.9
30°-40°	473.9	8.3
40°-50°	742.1	12.9
50°-60°	1085.3	18.9
60°-70°	1505.3	26.3
70°-80°	1127.9	19.7
80°-90°	196.3	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°	5732.0	100.0
0°-180°	5732.0	100.0



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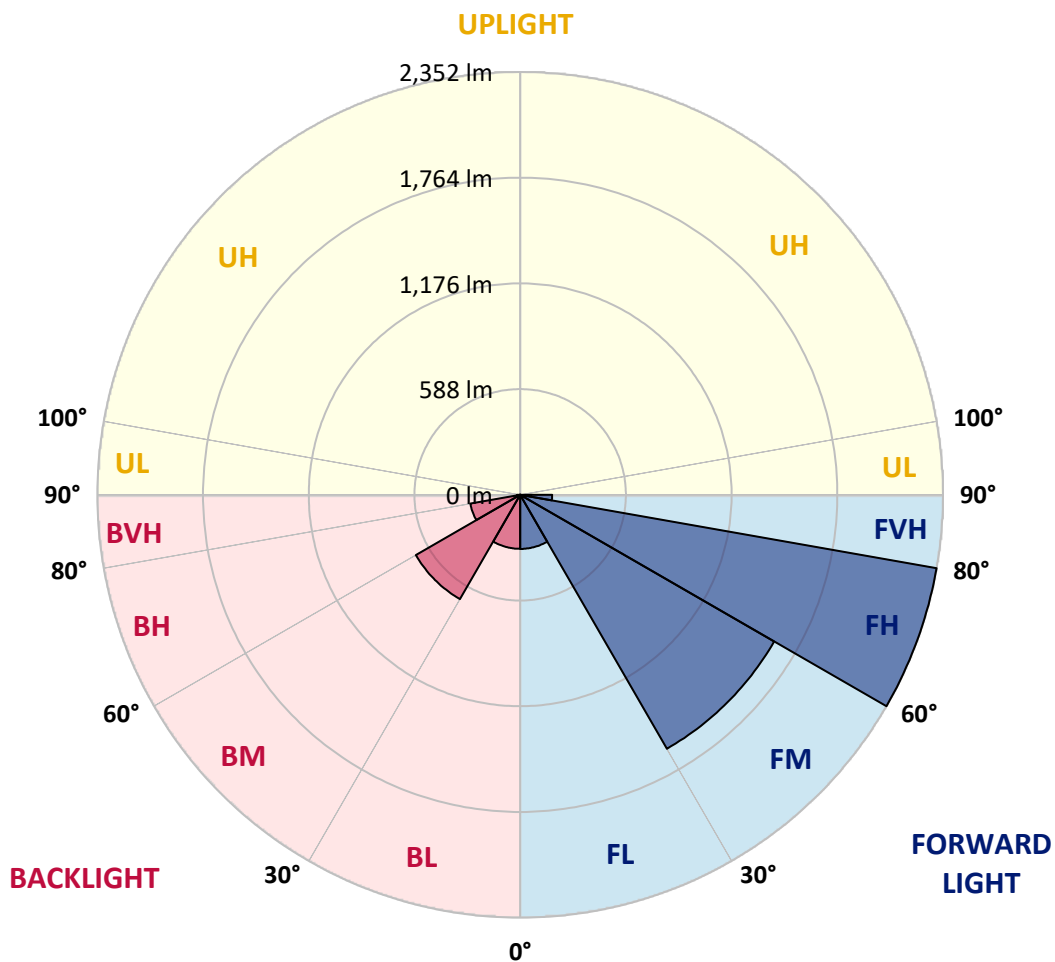
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.9	5.2			
FM	(30°-60°)	1631.3	28.5			
FH	(60°-80°)	2351.8	41.0			G2/5000
FVH	(80°-90°)	178.3	3.1			G2/225
BL	(0°-30°)	300.3	5.2	B1/500		
BM	(30°-60°)	670.0	11.7	B1/1000		
BH	(60°-80°)	281.4	4.9	B1/500		G1/500
BVH	(80°-90°)	18.1	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°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	655.0	654.4	651.2	650.0	646.2	648.1	651.9	655.0	653.8	651.9	653.1
5°	653.1	651.9	649.3	647.4	643.6	644.3	648.1	650.0	652.5	651.9	653.1
7.5°	644.9	643.6	639.8	639.2	636.0	636.7	638.6	641.7	646.8	649.3	650.0
10°	639.8	637.3	634.1	634.1	630.9	631.6	633.5	636.7	643.0	647.4	649.3
12.5°	637.3	635.4	633.5	634.1	632.2	633.5	635.4	639.2	645.5	651.2	652.5
15°	641.7	641.7	639.2	640.5	640.5	643.0	644.9	647.4	652.5	659.5	663.9
17.5°	653.8	654.4	651.9	654.4	654.4	656.3	658.2	659.5	661.4	667.7	675.3
20°	658.9	660.8	660.1	664.6	667.7	669.6	670.9	673.4	674.1	678.5	685.5
22.5°	672.8	671.5	671.5	677.9	677.9	680.4	682.3	683.6	686.8	693.7	698.8
25°	688.0	686.1	686.8	691.8	690.6	691.2	693.1	695.6	698.8	707.7	717.2
27.5°	698.2	697.5	698.2	702.0	705.1	706.4	708.3	710.8	717.8	725.4	736.2
30°	720.4	720.4	714.7	717.2	719.1	720.4	723.5	730.5	738.7	747.6	758.4
32.5°	757.1	757.8	750.2	747.6	745.1	744.5	746.4	758.4	764.1	774.9	786.3
35°	795.2	789.5	785.7	789.5	790.7	789.5	790.1	797.1	800.9	810.4	820.6
37.5°	897.3	883.3	877.0	873.8	858.6	847.2	843.4	845.9	849.1	861.8	872.5
40°	1045.7	1045.7	1029.2	1019.7	994.3	975.9	962.6	938.5	924.5	929.0	939.1
42.5°	1206.7	1198.5	1188.3	1165.5	1149.0	1126.2	1109.7	1074.8	1050.1	1040.0	1020.9
45°	1334.2	1339.3	1343.1	1324.7	1311.4	1301.2	1293.0	1277.8	1246.7	1217.5	1176.9
47.5°	1454.0	1459.7	1459.1	1418.5	1428.7	1429.9	1428.0	1410.9	1377.9	1349.4	1302.5
50°	1572.6	1584.7	1570.7	1504.1	1519.4	1523.2	1523.8	1509.8	1485.1	1475.6	1453.4
52.5°	1719.7	1709.0	1645.5	1604.3	1596.1	1598.6	1598.0	1595.4	1596.7	1599.2	1594.2
55°	1889.0	1803.4	1721.0	1699.4	1684.9	1674.7	1667.7	1656.3	1663.3	1709.6	1707.7
57.5°	1913.1	1910.0	1905.5	1816.8	1792.0	1785.0	1771.1	1760.9	1726.1	1786.9	1814.2
60°	2293.0	2330.4	2288.5	2258.7	2204.8	2126.2	2031.7	1925.8	1822.5	1873.8	1914.4
62.5°	2705.2	2705.2	2754.6	2721.6	2687.4	2622.7	2587.8	2451.5	2255.6	2059.0	2064.1
65°	2748.9	2765.4	2805.3	2884.0	2917.6	2935.3	2959.4	2946.8	2976.6	2995.6	2653.8
67.5°	2471.8	2492.1	2543.5	2664.6	2783.2	2841.5	2910.0	3057.7	3329.8	3503.5	3457.9
70°	2043.8	2044.4	2123.0	2262.5	2426.8	2523.8	2662.0	2993.7	3579.0	3660.8	3563.1
72.5°	1513.6	1513.0	1597.3	1721.6	1886.5	2024.1	2165.5	2646.2	3400.1	3493.4	3451.5
75°	1066.6	1071.7	1141.4	1254.9	1399.5	1509.8	1644.9	2153.5	2875.7	3106.6	3172.5
77.5°	743.8	761.6	805.3	899.8	1021.6	1110.3	1215.6	1640.5	2265.1	2580.2	2681.1
80°	473.1	488.9	528.2	611.9	718.5	797.1	880.2	1198.5	1685.5	1889.0	1981.6
82.5°	270.1	280.9	315.8	382.4	463.5	525.7	589.7	806.0	1194.7	1324.0	1299.3
85°	132.5	139.5	162.3	207.4	268.9	313.3	358.3	487.6	681.7	755.2	717.8
87.5°	35.5	38.0	47.6	67.9	92.6	111.0	127.5	180.7	223.2	193.4	144.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	651.9	648.7	650.6	651.2	651.2	653.1	655.0	656.3	653.8	660.1	657.6
5°	652.5	649.3	653.8	655.7	655.7	656.9	660.8	662.0	663.3	667.7	666.5
7.5°	651.2	652.5	657.6	662.0	662.7	663.3	670.3	670.3	676.6	677.2	678.5
10°	652.5	657.6	663.3	671.5	673.4	674.1	680.4	684.2	691.8	689.3	695.0
12.5°	658.2	667.1	673.4	685.5	689.9	691.8	700.7	708.9	717.8	715.3	720.4
15°	669.0	680.4	689.9	704.5	710.2	714.7	726.7	740.0	747.0	748.9	756.5
17.5°	681.0	694.4	707.0	722.3	730.5	736.8	750.8	768.6	775.5	783.1	791.4
20°	692.5	707.7	719.7	736.2	746.4	755.2	774.3	793.3	804.1	816.7	826.3
22.5°	705.1	719.7	733.0	750.2	762.2	774.3	799.0	818.6	835.8	851.0	863.7
25°	725.4	736.2	752.1	769.8	784.4	800.3	825.6	847.2	870.6	888.4	903.0
27.5°	747.0	755.9	773.6	795.8	811.0	826.9	851.0	878.3	906.8	930.9	950.5
30°	769.2	781.9	804.1	826.9	841.5	856.7	882.7	918.2	953.1	984.8	1001.9
32.5°	796.5	814.2	841.5	865.6	878.3	892.2	923.3	964.5	1014.0	1048.2	1050.1
35°	835.8	857.3	885.9	911.2	923.3	938.5	975.3	1024.7	1087.5	1115.4	1101.5
37.5°	888.4	915.0	942.3	970.2	984.2	1002.5	1045.7	1118.0	1187.7	1200.4	1164.2
40°	959.4	985.4	1016.5	1048.8	1069.8	1094.5	1151.6	1267.0	1329.7	1312.6	1251.1
42.5°	1036.2	1072.9	1111.0	1157.3	1187.7	1213.7	1301.2	1438.2	1471.8	1440.1	1346.9
45°	1163.0	1183.9	1221.9	1277.1	1312.0	1354.5	1480.0	1622.1	1641.1	1577.7	1450.9
47.5°	1285.4	1283.5	1320.9	1398.9	1449.0	1514.9	1674.7	1807.9	1806.0	1725.4	1564.4
50°	1433.1	1431.8	1449.6	1544.7	1615.7	1693.7	1894.7	1992.4	1960.1	1856.7	1672.8
52.5°	1575.8	1589.1	1624.6	1702.0	1774.3	1874.5	2083.1	2140.2	2103.4	1975.9	1764.1
55°	1708.3	1736.2	1783.8	1883.3	1975.3	2102.1	2266.3	2289.8	2226.4	2068.5	1830.1
57.5°	1835.1	1873.8	1939.8	2075.5	2206.7	2322.8	2422.3	2419.8	2326.0	2139.5	1872.6
60°	1953.7	2011.4	2096.4	2270.8	2419.8	2507.9	2573.3	2534.6	2402.7	2185.2	1887.1
62.5°	2090.7	2150.9	2248.6	2482.6	2613.2	2673.4	2692.5	2614.5	2445.8	2194.1	1862.4
65°	2350.7	2369.7	2442.6	2691.8	2776.8	2799.6	2769.2	2649.4	2454.0	2164.9	1770.5
67.5°	3191.5	2722.9	2635.4	2851.6	2882.7	2871.9	2799.6	2648.7	2407.8	2046.9	1549.2
70°	3396.3	3090.1	2784.4	2904.9	2904.3	2884.6	2787.6	2584.7	2213.7	1738.8	1107.8
72.5°	3315.8	3025.4	2766.7	2851.0	2873.2	2873.8	2673.4	2320.9	1792.0	1183.9	513.0
75°	3104.6	2833.2	2724.8	2717.2	2677.3	2564.4	2216.9	1747.0	1087.5	471.8	76.1
77.5°	2627.8	2373.5	2189.0	2003.8	1903.0	1742.6	1301.2	783.8	357.6	57.1	48.8
80°	1858.6	1520.0	1127.5	856.1	721.6	494.0	169.3	62.1	51.4	36.1	31.1
82.5°	1100.2	749.5	328.5	76.1	58.3	53.9	45.0	38.7	33.0	22.2	19.7
85°	561.2	296.8	43.1	35.5	33.6	31.7	27.3	24.1	18.4	12.0	13.3
87.5°	75.5	22.8	12.7	12.7	12.0	12.0	11.4	8.9	5.7	3.8	3.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	657.6	659.5	661.4	662.7	663.9	664.6	666.5	666.5	669.0	672.2	674.7
5°	666.5	670.9	670.9	672.2	676.0	676.0	679.8	679.1	683.6	688.7	689.3
7.5°	679.8	686.1	684.8	686.1	690.6	691.8	694.4	692.5	698.8	702.6	703.2
10°	698.2	702.0	703.2	705.1	708.9	712.1	712.8	710.8	715.9	715.9	716.6
12.5°	728.6	729.9	734.3	734.9	734.9	740.0	737.5	734.9	735.6	731.1	728.0
15°	765.4	764.7	771.7	771.1	768.6	771.1	765.4	760.3	755.2	743.8	734.3
17.5°	800.3	800.9	806.0	804.1	802.2	799.6	792.0	782.5	768.6	749.5	733.0
20°	835.1	835.8	835.1	833.2	830.7	818.6	807.2	792.0	772.4	745.7	722.9
22.5°	871.3	871.3	864.9	861.1	856.1	835.1	816.7	793.9	764.7	730.5	698.8
25°	909.3	910.0	895.4	887.1	878.3	845.9	817.4	783.1	741.3	696.9	657.6
27.5°	953.1	942.3	917.6	903.0	885.9	842.7	799.6	755.9	703.2	648.1	597.3
30°	990.5	963.9	925.2	903.0	877.0	824.4	765.4	707.0	645.5	582.1	520.0
32.5°	1022.8	977.8	921.4	890.3	855.4	788.2	719.7	643.6	573.2	501.6	452.1
35°	1053.3	988.0	914.4	874.5	830.1	744.5	662.0	575.8	502.2	442.6	400.8
37.5°	1091.3	998.7	901.7	851.6	798.4	698.2	607.5	523.1	457.2	409.0	381.7
40°	1140.1	1011.4	884.0	821.8	758.4	646.8	548.5	471.8	420.4	385.5	373.5
42.5°	1198.5	1025.4	856.1	778.7	705.1	582.1	485.7	424.9	390.0	372.9	365.9
45°	1260.0	1040.0	822.5	729.2	645.5	517.4	431.2	385.5	368.4	362.7	358.9
47.5°	1332.9	1059.6	783.1	671.5	579.0	453.4	384.9	354.5	354.5	355.1	354.5
50°	1407.7	1079.3	744.5	610.0	506.0	390.6	346.9	336.1	339.9	345.0	346.9
52.5°	1471.2	1097.0	731.8	585.9	442.6	336.1	315.2	314.5	319.6	325.9	327.8
55°	1505.4	1100.2	742.6	582.1	428.7	299.3	283.5	287.9	293.0	299.9	299.9
57.5°	1524.4	1076.1	689.3	498.4	371.0	267.0	253.6	260.0	261.9	268.2	272.0
60°	1499.7	1024.1	510.5	348.8	273.9	228.3	223.8	233.4	237.2	244.8	249.2
62.5°	1431.8	885.9	320.2	225.7	203.6	199.7	204.2	213.1	220.7	228.3	232.1
65°	1270.8	590.4	178.2	176.9	181.4	185.2	197.2	205.5	212.4	219.4	218.1
67.5°	913.8	220.7	148.4	156.0	163.6	177.6	190.2	201.0	203.6	207.4	207.4
70°	385.5	116.0	132.5	142.0	156.0	170.6	183.3	185.8	192.1	192.1	193.4
72.5°	86.9	94.5	114.1	127.5	142.7	156.0	167.4	173.1	175.0	183.9	182.0
75°	68.5	78.0	101.5	112.9	121.1	132.5	145.8	151.6	157.3	163.6	168.0
77.5°	49.5	61.5	83.7	91.3	99.6	112.2	118.6	127.5	132.5	136.3	137.0
80°	34.9	49.5	64.7	69.1	74.2	76.1	83.1	97.0	100.8	107.2	109.1
82.5°	26.0	34.2	38.7	39.9	41.2	46.9	48.2	55.8	59.6	69.8	75.5
85°	19.0	19.7	15.2	14.6	14.6	17.8	20.3	26.6	32.3	39.3	43.1
87.5°	4.4	5.1	5.7	6.3	7.0	8.9	12.0	18.4	26.6	34.2	36.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	675.3	680.4	681.7	682.3	684.8	685.5	686.1	686.8
5°	689.9	696.3	697.5	698.2	702.0	702.6	702.6	703.9
7.5°	703.2	708.3	709.6	710.2	713.4	715.3	715.3	716.6
10°	715.3	717.2	716.6	716.6	719.7	719.7	719.7	719.7
12.5°	723.5	721.0	717.8	715.9	714.0	710.8	708.9	707.0
15°	724.2	714.7	708.3	703.9	696.9	687.4	681.7	676.6
17.5°	714.0	697.5	688.7	680.4	665.2	650.0	639.2	630.3
20°	693.1	665.2	653.1	641.1	617.6	596.1	582.8	573.2
22.5°	658.2	618.9	601.1	586.6	556.1	531.4	517.4	508.6
25°	609.4	558.0	534.6	513.6	486.4	467.3	455.9	448.3
27.5°	539.0	489.5	471.2	455.3	431.2	414.1	402.0	397.6
30°	471.2	434.4	420.4	407.7	388.1	371.6	358.9	353.2
32.5°	414.1	390.6	381.1	372.9	358.3	341.8	328.5	323.4
35°	376.0	362.7	356.4	350.0	335.4	319.6	303.7	296.8
37.5°	368.4	358.9	353.8	348.8	336.7	317.1	298.7	291.1
40°	365.3	357.6	355.1	351.9	338.0	320.2	299.9	291.1
42.5°	362.1	359.5	355.7	350.7	335.4	318.3	301.8	292.3
45°	358.9	356.4	351.3	346.2	331.0	312.0	296.1	286.6
47.5°	353.8	348.1	342.4	336.7	322.1	302.5	284.1	275.8
50°	339.3	330.4	326.6	319.0	302.5	282.8	265.7	260.6
52.5°	318.3	307.5	303.7	295.5	278.4	257.5	241.0	234.6
55°	294.2	286.6	284.1	277.1	260.6	239.1	225.1	218.8
57.5°	274.6	272.7	272.0	268.9	254.9	237.2	226.4	221.9
60°	252.4	252.4	254.9	257.5	247.3	227.0	213.1	209.3
62.5°	232.1	229.6	230.2	230.2	220.0	202.9	191.5	185.8
65°	213.7	208.0	206.7	202.3	189.6	171.8	160.4	157.9
67.5°	201.0	193.4	190.9	187.1	173.7	157.9	147.1	143.3
70°	187.7	178.8	176.3	171.8	158.5	143.3	134.4	131.3
72.5°	175.0	164.2	162.3	158.5	144.6	131.3	120.5	116.0
75°	160.4	142.7	136.3	128.7	111.6	96.4	87.5	84.3
77.5°	129.4	124.3	119.8	114.1	97.7	82.4	74.2	70.4
80°	105.3	103.4	100.8	98.3	81.2	65.3	44.4	39.3
82.5°	76.1	72.9	75.5	77.4	62.8	38.7	30.4	27.3
85°	42.5	39.9	39.3	43.1	35.5	27.3	19.7	17.1
87.5°	36.8	34.2	32.3	30.4	21.6	18.4	15.2	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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