

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: P157191

Luminaire Tested: **UTLD-E02-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157191
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-T4-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5411.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

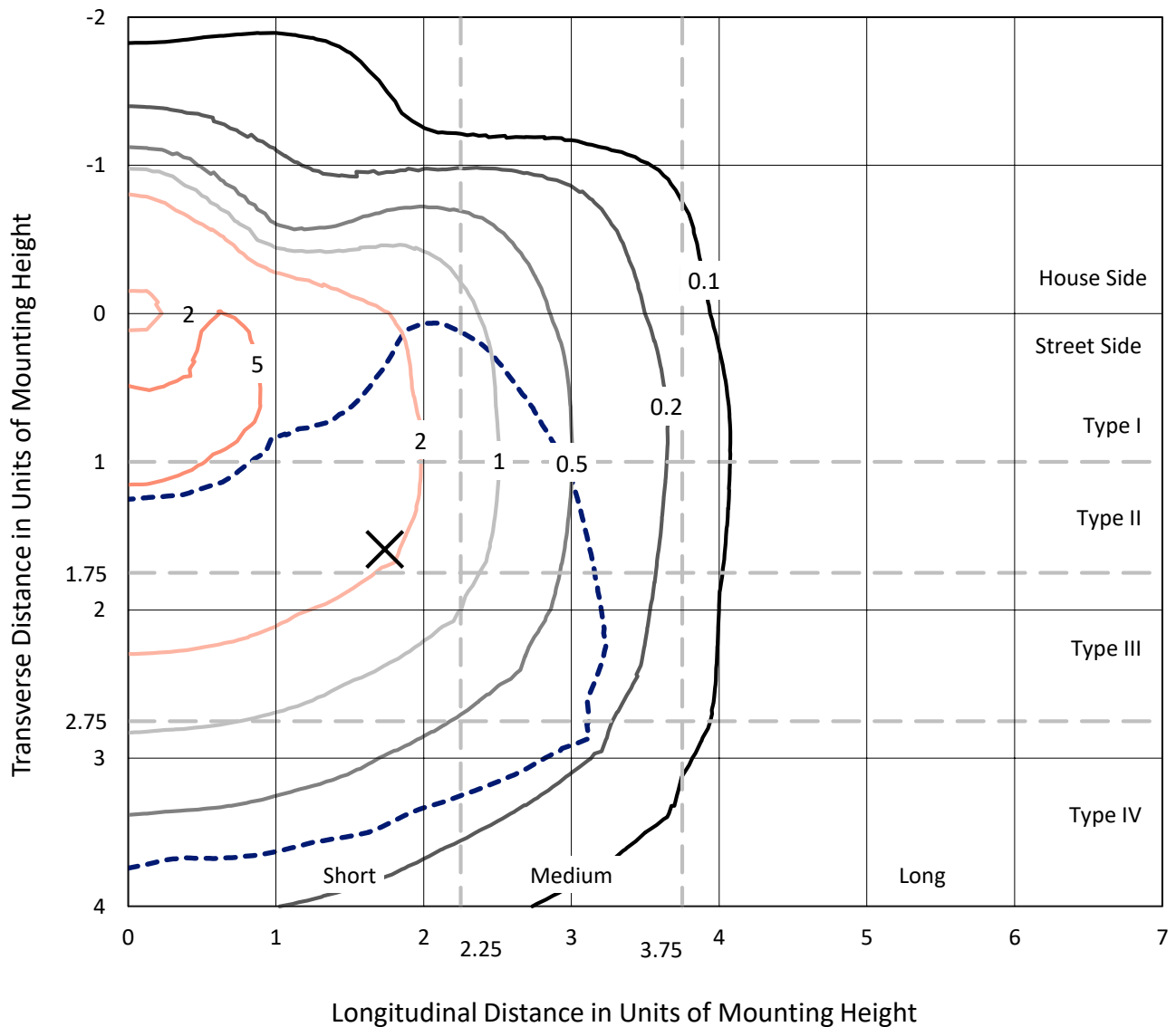


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

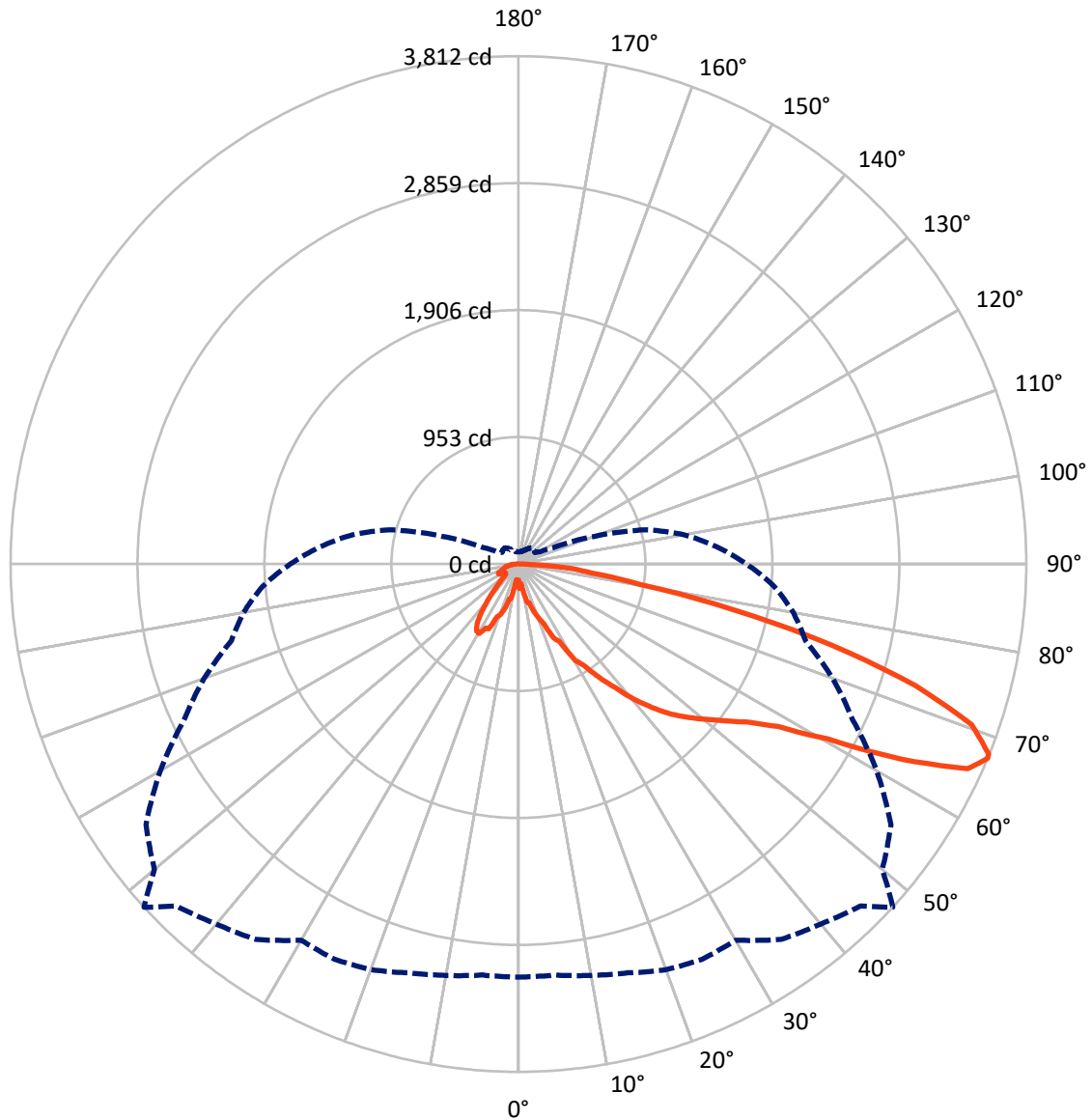


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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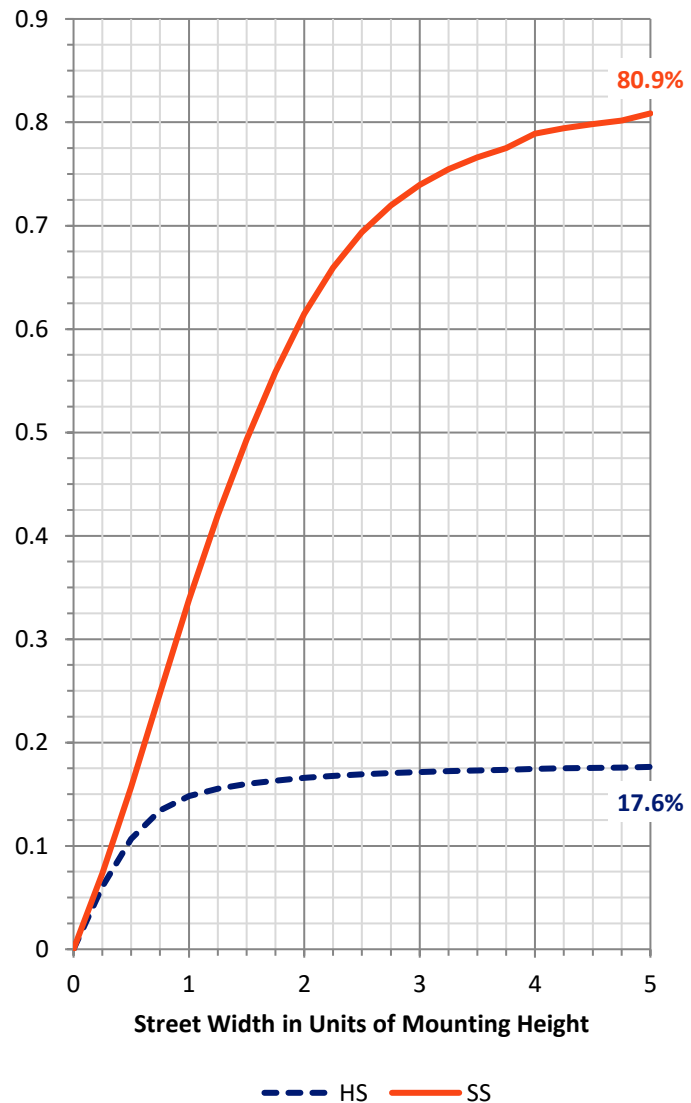
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.3	0.0	971.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	4440.3	0.0	4440.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	5411.6	0.0	5411.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.3
10°-20°	88.8	1.6
20°-30°	261.6	4.8
30°-40°	514.2	9.5
40°-50°	718.0	13.3
50°-60°	1001.0	18.5
60°-70°	1604.1	29.6
70°-80°	1029.0	19.0
80°-90°	179.0	3.3
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°	5411.6	100.0
0°-180°	5411.6	100.0

Coefficient of Utilization



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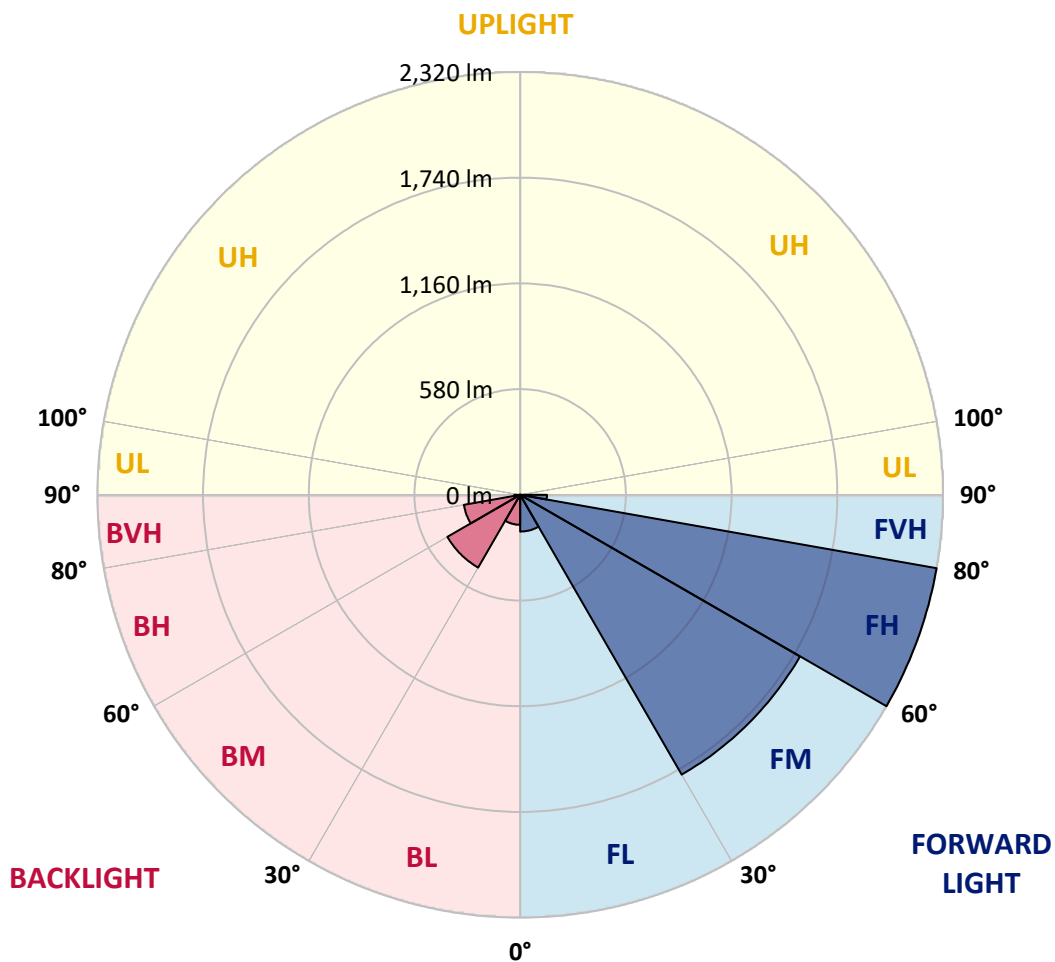
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.6	3.7			
FM (30°-60°)	1772.4	32.8			
FH (60°-80°)	2319.5	42.9			G2/5000
FVH (80°-90°)	146.7	2.7			G2/225
BL (0°-30°)	164.5	3.0	B1/500		
BM (30°-60°)	460.9	8.5	B1/1000		
BH (60°-80°)	313.6	5.8	B1/500		G1/500
BVH (80°-90°)	32.3	0.6			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°	25°	30°	35°	40°	45°	47.5°
0°	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1
2.5°	186.8	187.8	186.8	187.8	187.8	186.8	186.8	186.8	189.8	180.6	184.7
5°	147.8	148.8	148.8	148.8	148.8	148.8	149.8	152.9	149.8	150.8	150.8
7.5°	225.7	227.8	227.8	225.7	226.8	226.8	225.7	161.1	156.0	152.9	149.8
10°	230.9	232.9	232.9	228.8	229.8	230.9	230.9	229.8	227.8	220.6	219.6
12.5°	313.0	314.0	313.0	311.9	309.9	299.6	275.0	239.1	227.8	288.3	293.5
15°	335.5	334.5	332.5	327.3	324.2	319.1	313.0	364.3	358.1	309.9	303.7
17.5°	425.8	425.8	423.8	422.8	409.4	405.3	393.0	385.8	378.6	368.4	374.5
20°	516.1	511.0	465.9	441.2	425.8	472.0	471.0	457.6	468.9	431.0	429.9
22.5°	549.0	545.9	541.8	528.4	524.3	556.1	525.4	516.1	526.4	486.4	485.3
25°	677.2	676.2	657.7	647.5	615.7	599.2	610.5	602.3	573.6	572.6	614.6
27.5°	732.6	725.5	712.1	694.7	726.5	713.1	715.2	645.4	699.8	672.1	660.8
30°	875.3	878.3	854.7	863.0	855.8	792.2	771.6	791.1	788.0	766.5	835.2
32.5°	1053.8	1052.8	1027.1	981.0	918.4	906.1	918.4	900.9	894.8	890.7	911.2
35°	1250.8	1236.5	1148.2	1126.7	1091.8	1066.1	1055.9	1011.7	1030.2	979.9	1048.7
37.5°	1346.3	1348.3	1314.4	1314.4	1277.5	1239.5	1192.3	1197.5	1157.4	1126.7	1174.9
40°	1487.9	1493.0	1461.2	1443.7	1427.3	1367.8	1336.0	1312.4	1311.4	1283.7	1332.9
42.5°	1556.6	1564.8	1536.1	1526.8	1538.1	1499.1	1447.8	1446.8	1453.0	1415.0	1472.5
45°	1627.4	1637.7	1607.9	1620.2	1607.9	1601.8	1533.0	1567.9	1585.3	1543.3	1605.9
47.5°	1710.5	1723.9	1712.6	1705.4	1693.1	1693.1	1642.8	1666.4	1692.0	1656.1	1721.8
50°	1814.2	1823.4	1811.1	1808.0	1789.5	1786.4	1753.6	1770.0	1790.6	1753.6	1831.6
52.5°	1951.7	1953.7	1945.5	1927.0	1899.3	1905.5	1886.0	1887.0	1895.2	1870.6	1956.8
55°	2125.1	2127.1	2126.1	2083.0	2108.6	2061.4	2029.6	2035.8	2031.7	2012.2	2094.3
57.5°	2341.6	2354.9	2361.1	2323.1	2346.7	2259.5	2241.0	2229.7	2244.1	2200.0	2300.5
60°	2686.3	2706.9	2696.6	2690.4	2672.0	2590.9	2567.3	2600.2	2584.8	2545.8	2665.8
62.5°	3128.6	3123.5	3149.1	3145.0	3150.1	3069.1	3013.7	3093.7	3120.4	3135.8	3227.1
65°	3242.5	3243.5	3276.4	3284.6	3324.6	3316.4	3278.4	3418.0	3463.1	3527.8	3705.3
67°	3100.9	3096.8	3135.8	3176.8	3240.4	3272.3	3259.9	3439.5	3527.8	3630.4	3812.0
67.5°	3056.8	3048.6	3090.6	3144.0	3209.7	3248.6	3239.4	3425.1	3517.5	3629.3	3806.9
70°	2768.4	2739.7	2793.1	2864.9	2924.4	3013.7	3017.8	3194.3	3322.5	3442.6	3607.8
72.5°	2399.0	2361.1	2409.3	2463.7	2507.8	2611.4	2617.6	2732.5	2863.9	2961.3	3114.2
75°	1904.5	1855.2	1900.3	1927.0	1943.4	2027.6	2034.8	2135.3	2231.8	2306.7	2424.7
77.5°	1178.0	1145.1	1182.1	1226.2	1281.6	1318.5	1339.1	1400.6	1506.3	1590.5	1654.1
80°	590.0	613.6	652.6	712.1	758.3	822.9	849.6	853.7	897.8	891.7	931.7
82.5°	410.4	436.1	491.5	529.5	543.8	564.4	597.2	586.9	557.2	552.0	547.9
85°	104.7	163.2	299.6	363.2	377.6	399.2	428.9	446.4	400.2	362.2	369.4
87.5°	28.7	34.9	102.6	151.9	164.2	121.1	157.0	187.8	122.1	81.1	85.2
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1
2.5°	166.2	147.8	139.6	127.2	124.2	123.1	121.1	121.1	120.1	120.1	120.1
5°	153.9	170.3	184.7	188.8	180.6	134.4	130.3	123.1	122.1	122.1	123.1
7.5°	150.8	152.9	153.9	147.8	172.4	173.4	125.2	123.1	123.1	123.1	124.2
10°	219.6	163.2	205.2	212.4	217.5	253.4	250.4	189.8	182.6	186.8	192.9
12.5°	295.5	303.7	270.9	219.6	224.7	226.8	254.5	197.0	185.7	192.9	232.9
15°	302.7	301.7	316.0	354.0	307.8	298.6	318.1	272.9	270.9	254.5	297.6
17.5°	428.9	367.3	357.1	360.2	329.4	315.0	292.4	317.1	287.3	279.1	272.9
20°	445.3	408.4	389.9	454.6	494.6	452.5	429.9	437.1	411.5	396.1	393.0
22.5°	484.3	527.4	544.9	503.8	503.8	497.7	542.8	510.0	495.6	479.2	472.0
25°	631.1	561.3	615.7	659.8	638.2	621.8	588.0	599.2	553.1	552.0	531.5
27.5°	690.6	731.6	712.1	716.2	682.4	734.7	712.1	687.5	644.4	636.2	646.4
30°	843.5	801.4	819.9	834.2	818.8	815.8	792.2	757.3	726.5	703.9	700.8
32.5°	906.1	934.8	926.6	909.1	960.4	975.8	961.5	879.4	851.7	793.2	793.2
35°	1030.2	1015.8	1087.7	1070.2	1049.7	1030.2	1016.9	960.4	899.9	838.3	821.9
37.5°	1166.7	1182.1	1180.0	1146.2	1111.3	1075.4	1061.0	1006.6	938.9	883.5	809.6
40°	1307.3	1278.5	1264.2	1234.4	1170.8	1139.0	1117.4	1086.6	983.0	920.4	812.7
42.5°	1438.6	1419.1	1351.4	1307.3	1261.1	1214.9	1154.4	1129.7	1025.1	945.0	802.4
45°	1559.7	1525.8	1453.0	1396.5	1320.6	1283.7	1198.5	1152.3	1071.3	947.1	774.7
47.5°	1661.3	1626.4	1552.5	1457.1	1387.3	1333.9	1253.9	1213.9	1115.4	970.7	774.7
50°	1759.8	1719.8	1639.7	1505.3	1442.7	1353.4	1310.3	1253.9	1170.8	1005.6	798.3
52.5°	1867.5	1819.3	1723.9	1571.0	1499.1	1411.9	1365.7	1318.5	1242.6	1053.8	837.3
55°	2000.9	1943.4	1819.3	1671.5	1568.9	1489.9	1445.8	1396.5	1317.5	1109.2	885.5
57.5°	2192.8	2111.7	1965.0	1829.5	1704.4	1636.6	1574.0	1506.3	1437.6	1206.7	964.5
60°	2521.1	2432.9	2244.1	2122.0	1985.5	1895.2	1795.7	1742.3	1636.6	1392.4	1094.9
62.5°	3067.0	2954.2	2775.6	2545.8	2350.8	2167.1	2063.5	1986.5	1829.5	1555.6	1262.1
65°	3472.3	3315.3	3076.3	2779.7	2545.8	2271.8	2171.2	2013.2	1825.4	1566.9	1310.3
67°	3565.7	3412.8	3105.0	2768.4	2509.9	2231.8	2094.3	1928.1	1711.5	1492.0	1264.2
67.5°	3563.7	3413.9	3089.6	2748.9	2489.3	2211.3	2063.5	1894.2	1673.6	1468.4	1249.8
70°	3359.5	3238.4	2888.5	2544.7	2273.8	2016.3	1822.4	1663.3	1454.0	1290.8	1101.0
72.5°	2859.8	2785.9	2464.7	2152.8	1902.4	1686.9	1539.2	1381.1	1192.3	1066.1	928.6
75°	2232.8	2128.1	1817.2	1574.0	1371.9	1228.2	1110.2	968.6	819.9	747.0	694.7
77.5°	1487.9	1385.2	1094.9	855.8	712.1	591.0	500.7	400.2	310.9	319.1	343.7
80°	808.6	726.5	523.3	377.6	307.8	249.3	209.3	160.1	117.0	140.6	160.1
82.5°	491.5	431.0	334.5	261.7	214.5	181.6	147.8	109.8	84.1	95.4	115.9
85°	341.7	301.7	239.1	187.8	152.9	122.1	95.4	70.8	66.7	72.9	83.1
87.5°	113.9	141.6	107.7	87.2	84.1	75.9	63.6	51.3	40.0	50.3	64.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1
2.5°	121.1	122.1	127.2	130.3	130.3	127.2	147.8	145.7	177.5	179.6	187.8
5°	131.3	132.4	172.4	186.8	187.8	162.1	126.2	121.1	119.0	118.0	121.1
7.5°	148.8	173.4	157.0	112.9	117.0	117.0	119.0	118.0	119.0	140.6	192.9
10°	249.3	186.8	176.5	150.8	122.1	131.3	189.8	190.9	193.9	202.1	203.2
12.5°	219.6	191.9	180.6	181.6	250.4	268.8	259.6	198.0	201.1	206.2	241.1
15°	254.5	251.4	265.8	262.7	255.5	271.9	268.8	321.2	330.4	282.2	283.2
17.5°	260.6	262.7	323.2	331.4	325.3	356.1	336.6	332.5	339.6	334.5	318.1
20°	393.0	437.1	423.8	357.1	368.4	408.4	398.1	341.7	390.9	395.1	366.3
22.5°	411.5	450.5	462.8	500.7	498.7	418.7	431.0	450.5	409.4	390.9	426.9
25°	552.0	590.0	609.5	555.1	502.8	546.9	523.3	448.4	466.9	436.1	436.1
27.5°	686.5	631.1	649.5	624.9	641.3	552.0	525.4	556.1	462.8	471.0	480.2
30°	716.2	702.9	716.2	686.5	643.4	628.0	570.5	544.9	552.0	483.3	477.1
32.5°	766.5	742.9	718.3	664.9	658.8	612.6	572.6	562.3	511.0	485.3	481.2
35°	760.3	706.0	688.5	654.7	606.4	569.5	530.5	501.8	463.8	456.6	451.5
37.5°	740.8	656.7	608.5	575.6	534.6	499.7	444.3	424.8	411.5	398.1	392.0
40°	711.1	605.4	524.3	474.1	432.0	395.1	359.1	340.7	331.4	336.6	342.7
42.5°	658.8	545.9	434.0	376.6	332.5	302.7	279.1	270.9	267.8	272.9	283.2
45°	617.7	471.0	349.9	284.2	247.3	227.8	211.4	205.2	209.3	213.4	218.6
47.5°	599.2	413.5	280.1	214.5	185.7	175.5	165.2	160.1	162.1	165.2	169.3
50°	594.1	380.7	234.0	169.3	149.8	139.6	132.4	130.3	131.3	130.3	132.4
52.5°	595.1	380.7	212.4	148.8	131.3	123.1	117.0	114.9	111.8	110.8	111.8
55°	616.7	390.9	207.3	144.7	128.3	119.0	112.9	111.8	107.7	104.7	103.6
57.5°	682.4	427.9	219.6	152.9	133.4	125.2	119.0	118.0	113.9	108.8	106.7
60°	812.7	508.9	252.4	171.4	146.7	139.6	135.4	134.4	128.3	121.1	114.9
62.5°	949.1	598.2	292.4	190.9	162.1	160.1	161.1	159.0	150.8	135.4	124.2
65°	1009.7	633.1	307.8	192.9	162.1	166.2	169.3	170.3	157.0	138.5	124.2
67°	991.2	608.5	292.4	180.6	151.9	156.0	157.0	158.0	144.7	129.3	115.9
67.5°	982.0	598.2	287.3	178.5	150.8	153.9	152.9	152.9	140.6	127.2	113.9
70°	886.6	528.4	253.4	165.2	140.6	136.5	128.3	128.3	119.0	111.8	104.7
72.5°	752.1	448.4	220.6	157.0	133.4	122.1	112.9	111.8	105.7	102.6	98.5
75°	574.6	348.9	193.9	148.8	126.2	112.9	102.6	103.6	97.5	96.5	94.4
77.5°	341.7	237.0	168.3	138.5	120.1	106.7	95.4	97.5	90.3	89.3	89.3
80°	170.3	158.0	139.6	120.1	104.7	94.4	83.1	83.1	78.0	77.0	80.0
82.5°	128.3	119.0	103.6	91.3	82.1	70.8	55.4	61.6	61.6	63.6	65.7
85°	95.4	85.2	73.9	64.6	59.5	53.4	43.1	47.2	48.2	52.3	54.4
87.5°	71.8	60.5	51.3	47.2	45.1	41.0	31.8	38.0	39.0	39.0	41.0
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):

	160°	165°	170°	175°	180°
0°	120.1	120.1	120.1	120.1	120.1
2.5°	188.8	186.8	184.7	183.7	183.7
5°	119.0	115.9	115.9	115.9	114.9
7.5°	198.0	201.1	200.1	200.1	199.1
10°	203.2	202.1	203.2	202.1	203.2
12.5°	277.0	285.3	290.4	292.4	290.4
15°	292.4	291.4	292.4	293.5	292.4
17.5°	353.0	362.2	364.3	363.2	363.2
20°	347.8	356.1	357.1	362.2	357.1
22.5°	409.4	407.4	412.5	410.4	408.4
25°	429.9	411.5	456.6	459.7	456.6
27.5°	478.2	447.4	451.5	451.5	447.4
30°	496.6	483.3	486.4	490.5	489.5
32.5°	459.7	464.8	502.8	510.0	508.9
35°	452.5	459.7	454.6	460.7	481.2
37.5°	424.8	428.9	437.1	444.3	445.3
40°	370.4	386.8	399.2	404.3	408.4
42.5°	295.5	313.0	324.2	329.4	325.3
45°	229.8	241.1	250.4	253.4	250.4
47.5°	176.5	180.6	183.7	184.7	187.8
50°	135.4	135.4	136.5	134.4	134.4
52.5°	113.9	110.8	110.8	108.8	108.8
55°	103.6	101.6	100.6	98.5	98.5
57.5°	103.6	99.5	96.5	93.4	93.4
60°	107.7	100.6	94.4	91.3	90.3
62.5°	111.8	102.6	94.4	90.3	89.3
65°	109.8	101.6	94.4	90.3	89.3
67°	105.7	99.5	94.4	90.3	90.3
67.5°	104.7	99.5	94.4	90.3	89.3
70°	100.6	98.5	93.4	89.3	88.2
72.5°	96.5	94.4	89.3	85.2	84.1
75°	92.3	89.3	85.2	82.1	81.1
77.5°	87.2	83.1	79.0	74.9	72.9
80°	79.0	73.9	68.7	65.7	61.6
82.5°	66.7	65.7	59.5	55.4	51.3
85°	55.4	54.4	50.3	45.1	40.0
87.5°	42.1	43.1	40.0	34.9	24.6
90°	0.0	0.0	0.0	0.0	0.0

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