

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: P157188

Luminaire Tested: **UTLD-E02-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157188
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-T4-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4451.1 lumens
Efficiency: N/A
Efficacy: 85.4 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



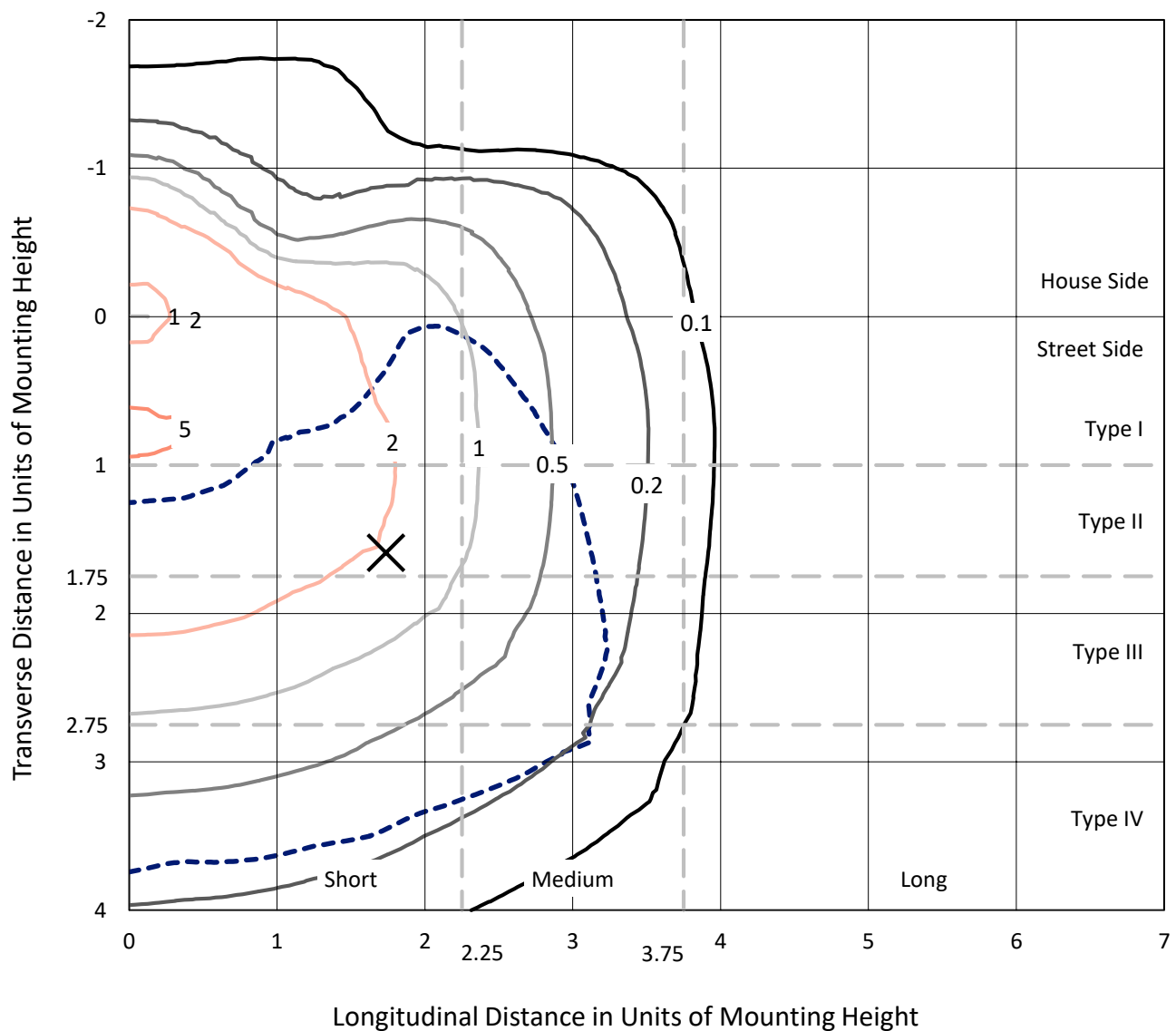
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Iso-Footcandle Lines of Horizontal Illumination

✘ Max cd

--- 1/2 Max cd



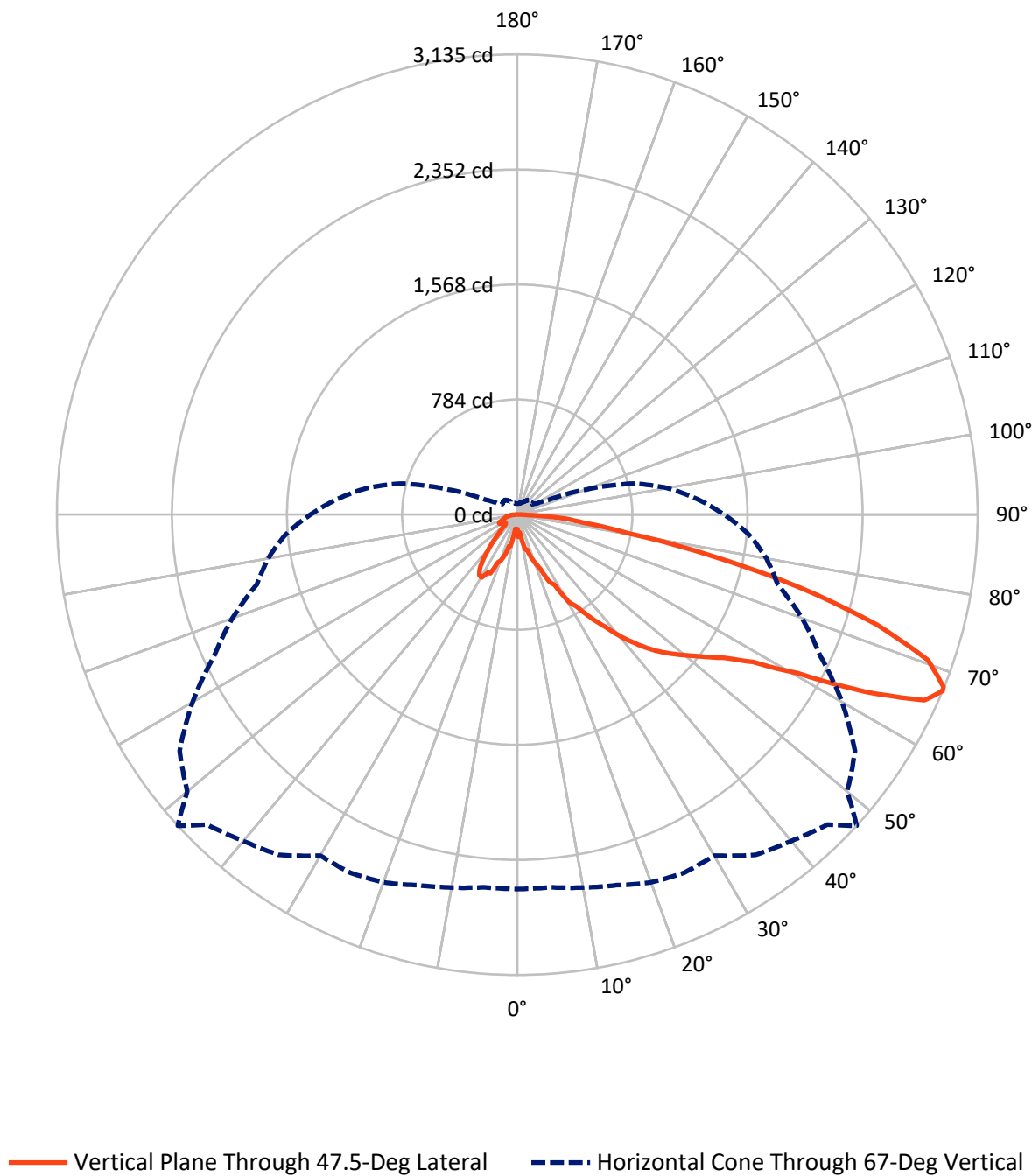
Based on 10 foot mounting height. Maximum calculated value = 5.6 fc

Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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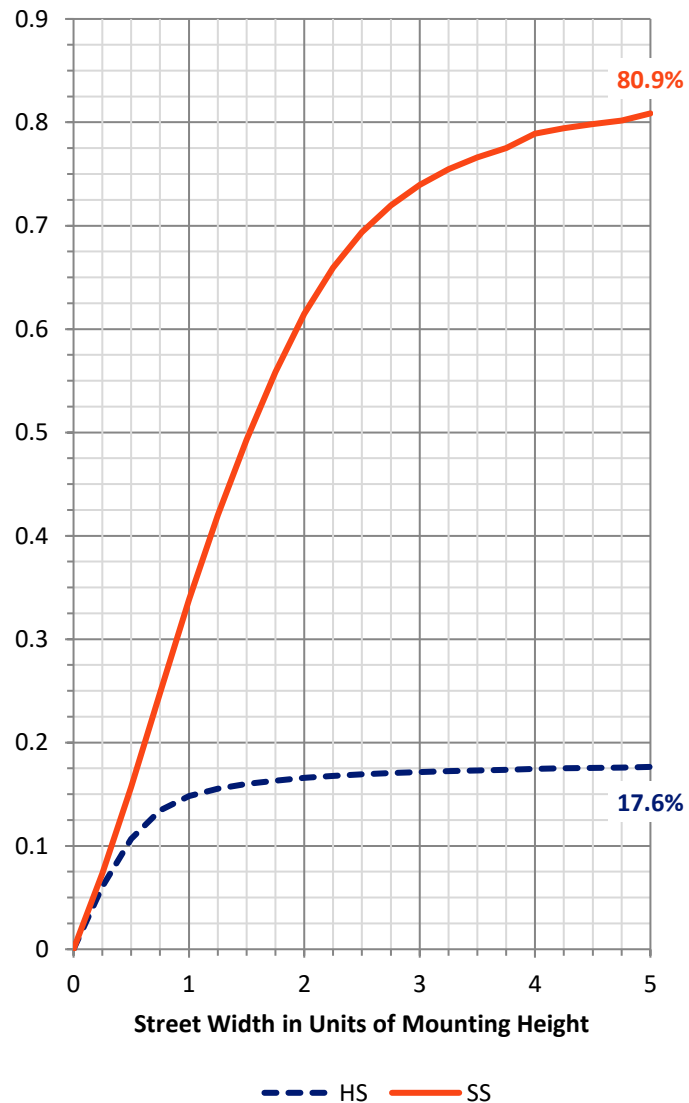
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.9	0.0	798.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3652.2	0.0	3652.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	4451.1	0.0	4451.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.3
10°-20°	73.0	1.6
20°-30°	215.1	4.8
30°-40°	423.0	9.5
40°-50°	590.6	13.3
50°-60°	823.4	18.5
60°-70°	1319.4	29.6
70°-80°	846.4	19.0
80°-90°	147.2	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°	4451.1	100.0
0°-180°	4451.1	100.0

Coefficient of Utilization



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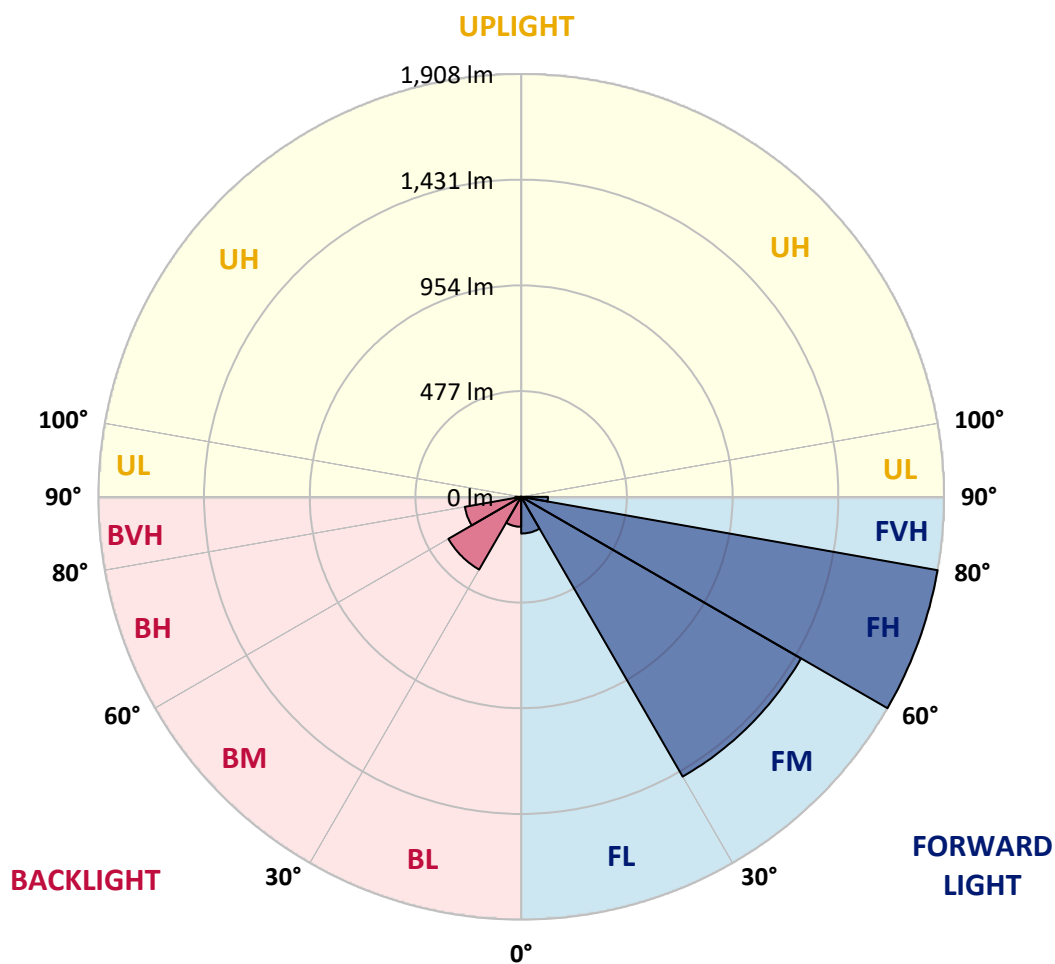
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.8	3.7			
FM	(30°-60°)	1457.9	32.8			
FH	(60°-80°)	1907.8	42.9			G2/5000
FVH	(80°-90°)	120.7	2.7			G2/225
BL	(0°-30°)	135.3	3.0	B1/500		
BM	(30°-60°)	379.1	8.5	B1/1000		
BH	(60°-80°)	258.0	5.8	B1/500		G1/500
BVH	(80°-90°)	26.5	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°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	153.6	154.5	153.6	154.5	154.5	153.6	153.6	153.6	156.1	148.5	151.9
5°	121.5	122.4	122.4	122.4	122.4	122.4	123.2	125.8	123.2	124.1	124.1
7.5°	185.7	187.4	187.4	185.7	186.5	186.5	185.7	132.5	128.3	125.8	123.2
10°	189.9	191.6	191.6	188.2	189.1	189.9	189.9	189.1	187.4	181.5	180.6
12.5°	257.4	258.3	257.4	256.6	254.9	246.4	226.2	196.6	187.4	237.2	241.4
15°	276.0	275.1	273.5	269.2	266.7	262.5	257.4	299.6	294.6	254.9	249.8
17.5°	350.3	350.3	348.6	347.7	336.8	333.4	323.2	317.3	311.4	303.0	308.1
20°	424.5	420.3	383.2	362.9	350.3	388.2	387.4	376.4	385.7	354.5	353.6
22.5°	451.5	449.0	445.6	434.7	431.3	457.4	432.1	424.5	433.0	400.1	399.2
25°	557.0	556.2	541.0	532.6	506.4	492.9	502.2	495.4	471.8	470.9	505.6
27.5°	602.6	596.7	585.7	571.4	597.5	586.6	588.3	530.9	575.6	552.8	543.5
30°	719.9	722.5	703.0	709.8	703.9	651.6	634.7	650.7	648.2	630.5	687.0
32.5°	866.8	865.9	844.8	806.9	755.4	745.2	755.4	741.0	736.0	732.6	749.5
35°	1028.8	1017.0	944.4	926.7	898.0	876.9	868.5	832.2	847.4	806.0	862.6
37.5°	1107.3	1109.0	1081.2	1081.2	1050.8	1019.5	980.7	984.9	952.0	926.7	966.4
40°	1223.8	1228.0	1201.8	1187.5	1174.0	1125.0	1098.9	1079.5	1078.6	1055.8	1096.3
42.5°	1280.3	1287.1	1263.5	1255.9	1265.1	1233.1	1190.9	1190.0	1195.1	1163.9	1211.1
45°	1338.6	1347.0	1322.5	1332.7	1322.5	1317.5	1260.9	1289.6	1304.0	1269.4	1320.8
47.5°	1406.9	1417.9	1408.6	1402.7	1392.6	1392.6	1351.2	1370.6	1391.7	1362.2	1416.2
50°	1492.2	1499.8	1489.6	1487.1	1471.9	1469.4	1442.4	1455.9	1472.8	1442.4	1506.5
52.5°	1605.3	1607.0	1600.2	1585.0	1562.2	1567.3	1551.3	1552.1	1558.9	1538.6	1609.5
55°	1747.9	1749.6	1748.7	1713.3	1734.4	1695.6	1669.4	1674.5	1671.1	1655.1	1722.6
57.5°	1926.0	1937.0	1942.0	1910.8	1930.2	1858.5	1843.3	1834.0	1845.8	1809.5	1892.2
60°	2209.6	2226.4	2218.0	2212.9	2197.8	2131.1	2111.7	2138.7	2126.0	2093.9	2192.7
62.5°	2573.3	2569.1	2590.2	2586.8	2591.1	2524.4	2478.8	2544.6	2566.6	2579.2	2654.4
65°	2667.0	2667.9	2694.9	2701.6	2734.5	2727.8	2696.6	2811.3	2848.5	2901.6	3047.7
67°	2550.5	2547.2	2579.2	2613.0	2665.3	2691.5	2681.4	2829.1	2901.6	2986.0	3135.4
67.5°	2514.2	2507.5	2542.1	2586.0	2640.0	2672.1	2664.5	2817.2	2893.2	2985.2	3131.2
70°	2277.1	2253.5	2297.3	2356.4	2405.4	2478.8	2482.2	2627.3	2732.8	2831.6	2967.5
72.5°	1973.3	1942.0	1981.7	2026.4	2062.7	2148.0	2153.0	2247.5	2355.6	2435.8	2561.5
75°	1566.4	1525.9	1563.1	1585.0	1598.5	1667.7	1673.6	1756.3	1835.7	1897.3	1994.4
77.5°	968.9	941.9	972.3	1008.6	1054.1	1084.5	1101.4	1152.0	1239.0	1308.2	1360.5
80°	485.3	504.7	536.8	585.7	623.7	676.9	698.8	702.2	738.5	733.4	766.3
82.5°	337.6	358.7	404.3	435.5	447.3	464.2	491.2	482.8	458.3	454.1	450.7
85°	86.1	134.2	246.4	298.8	310.6	328.3	352.8	367.1	329.2	297.9	303.8
87.5°	23.6	28.7	84.4	124.9	135.0	99.6	129.1	154.5	100.4	66.7	70.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	136.7	121.5	114.8	104.7	102.1	101.3	99.6	99.6	98.7	98.7	98.7
5°	126.6	140.1	151.9	155.3	148.5	110.6	107.2	101.3	100.4	100.4	101.3
7.5°	124.1	125.8	126.6	121.5	141.8	142.6	103.0	101.3	101.3	101.3	102.1
10°	180.6	134.2	168.8	174.7	178.9	208.5	205.9	156.1	150.2	153.6	158.7
12.5°	243.1	249.8	222.8	180.6	184.8	186.5	209.3	162.0	152.8	158.7	191.6
15°	249.0	248.1	259.9	291.2	253.2	245.6	261.6	224.5	222.8	209.3	244.8
17.5°	352.8	302.1	293.7	296.2	270.9	259.1	240.5	260.8	236.3	229.6	224.5
20°	366.3	335.9	320.7	373.9	406.8	372.2	353.6	359.5	338.4	325.8	323.2
22.5°	398.4	433.8	448.2	414.4	414.4	409.3	446.5	419.5	407.6	394.1	388.2
25°	519.1	461.7	506.4	542.7	525.0	511.5	483.6	492.9	454.9	454.1	437.2
27.5°	568.0	601.8	585.7	589.1	561.3	604.3	585.7	565.5	530.0	523.3	531.7
30°	693.8	659.2	674.3	686.2	673.5	671.0	651.6	622.9	597.5	579.0	576.4
32.5°	745.2	768.9	762.1	747.8	790.0	802.6	790.8	723.3	700.5	652.4	652.4
35°	847.4	835.6	894.6	880.3	863.4	847.4	836.4	790.0	740.2	689.5	676.0
37.5°	959.6	972.3	970.6	942.7	914.0	884.5	872.7	828.0	772.3	726.7	665.9
40°	1075.2	1051.6	1039.8	1015.3	963.0	936.8	919.1	893.8	808.5	757.1	668.4
42.5°	1183.3	1167.2	1111.5	1075.2	1037.3	999.3	949.5	929.2	843.1	777.3	660.0
45°	1282.9	1255.0	1195.1	1148.7	1086.2	1055.8	985.8	947.8	881.1	779.0	637.2
47.5°	1366.4	1337.7	1277.0	1198.5	1141.1	1097.2	1031.4	998.4	917.4	798.4	637.2
50°	1447.4	1414.5	1348.7	1238.1	1186.7	1113.2	1077.8	1031.4	963.0	827.1	656.6
52.5°	1536.1	1496.4	1417.9	1292.2	1233.1	1161.3	1123.4	1084.5	1022.1	866.8	688.7
55°	1645.8	1598.5	1496.4	1374.9	1290.5	1225.5	1189.2	1148.7	1083.7	912.4	728.4
57.5°	1803.6	1736.9	1616.2	1504.8	1401.9	1346.2	1294.7	1239.0	1182.4	992.5	793.4
60°	2073.7	2001.1	1845.8	1745.4	1633.1	1558.9	1477.0	1433.1	1346.2	1145.3	900.5
62.5°	2522.7	2429.8	2283.0	2093.9	1933.6	1782.5	1697.3	1634.0	1504.8	1279.5	1038.1
65°	2856.1	2726.9	2530.3	2286.4	2093.9	1868.6	1785.9	1655.9	1501.5	1288.8	1077.8
67°	2932.9	2807.1	2553.9	2277.1	2064.4	1835.7	1722.6	1585.9	1407.8	1227.2	1039.8
67.5°	2931.2	2808.0	2541.3	2261.1	2047.5	1818.8	1697.3	1558.0	1376.5	1207.8	1028.0
70°	2763.2	2663.6	2375.8	2093.1	1870.3	1658.4	1498.9	1368.1	1195.9	1061.7	905.6
72.5°	2352.2	2291.4	2027.3	1770.7	1564.8	1387.5	1266.0	1136.0	980.7	876.9	763.8
75°	1836.5	1750.4	1494.7	1294.7	1128.4	1010.3	913.2	796.7	674.3	614.4	571.4
77.5°	1223.8	1139.4	900.5	703.9	585.7	486.1	411.9	329.2	255.7	262.5	282.7
80°	665.1	597.5	430.4	310.6	253.2	205.1	172.2	131.7	96.2	115.6	131.7
82.5°	404.3	354.5	275.1	215.2	176.4	149.4	121.5	90.3	69.2	78.5	95.4
85°	281.0	248.1	196.6	154.5	125.8	100.4	78.5	58.2	54.9	59.9	68.4
87.5°	93.7	116.5	88.6	71.7	69.2	62.5	52.3	42.2	32.9	41.4	53.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	99.6	100.4	104.7	107.2	107.2	104.7	121.5	119.8	146.0	147.7	154.5
5°	108.0	108.9	141.8	153.6	154.5	133.4	103.8	99.6	97.9	97.1	99.6
7.5°	122.4	142.6	129.1	92.8	96.2	96.2	97.9	97.1	97.9	115.6	158.7
10°	205.1	153.6	145.2	124.1	100.4	108.0	156.1	157.0	159.5	166.3	167.1
12.5°	180.6	157.8	148.5	149.4	205.9	221.1	213.5	162.9	165.4	169.6	198.3
15°	209.3	206.8	218.6	216.1	210.2	223.7	221.1	264.2	271.8	232.1	232.9
17.5°	214.4	216.1	265.9	272.6	267.5	292.9	276.8	273.5	279.4	275.1	261.6
20°	323.2	359.5	348.6	293.7	303.0	335.9	327.5	281.0	321.6	324.9	301.3
22.5°	338.4	370.5	380.6	411.9	410.2	344.3	354.5	370.5	336.8	321.6	351.1
25°	454.1	485.3	501.3	456.6	413.6	449.8	430.4	368.8	384.0	358.7	358.7
27.5°	564.6	519.1	534.2	514.0	527.5	454.1	432.1	457.4	380.6	387.4	395.0
30°	589.1	578.1	589.1	564.6	529.2	516.5	469.3	448.2	454.1	397.5	392.5
32.5°	630.5	611.0	590.8	546.9	541.8	503.9	470.9	462.5	420.3	399.2	395.8
35°	625.4	580.7	566.3	538.5	498.8	468.4	436.3	412.7	381.5	375.6	371.4
37.5°	609.4	540.2	500.5	473.5	439.7	411.0	365.4	349.4	338.4	327.5	322.4
40°	584.9	498.0	431.3	389.9	355.3	324.9	295.4	280.2	272.6	276.8	281.9
42.5°	541.8	449.0	357.0	309.7	273.5	249.0	229.6	222.8	220.3	224.5	232.9
45°	508.1	387.4	287.8	233.8	203.4	187.4	173.9	168.8	172.2	175.6	179.8
47.5°	492.9	340.1	230.4	176.4	152.8	144.3	135.9	131.7	133.4	135.9	139.3
50°	488.7	313.1	192.4	139.3	123.2	114.8	108.9	107.2	108.0	107.2	108.9
52.5°	489.5	313.1	174.7	122.4	108.0	101.3	96.2	94.5	92.0	91.2	92.0
55°	507.2	321.6	170.5	119.0	105.5	97.9	92.8	92.0	88.6	86.1	85.2
57.5°	561.3	351.9	180.6	125.8	109.7	103.0	97.9	97.1	93.7	89.5	87.8
60°	668.4	418.6	207.6	140.9	120.7	114.8	111.4	110.6	105.5	99.6	94.5
62.5°	780.7	492.0	240.5	157.0	133.4	131.7	132.5	130.8	124.1	111.4	102.1
65°	830.5	520.7	253.2	158.7	133.4	136.7	139.3	140.1	129.1	113.9	102.1
67°	815.3	500.5	240.5	148.5	124.9	128.3	129.1	130.0	119.0	106.3	95.4
67.5°	807.7	492.0	236.3	146.9	124.1	126.6	125.8	125.8	115.6	104.7	93.7
70°	729.2	434.7	208.5	135.9	115.6	112.3	105.5	105.5	97.9	92.0	86.1
72.5°	618.6	368.8	181.5	129.1	109.7	100.4	92.8	92.0	86.9	84.4	81.0
75°	472.6	287.0	159.5	122.4	103.8	92.8	84.4	85.2	80.2	79.3	77.6
77.5°	281.0	195.0	138.4	113.9	98.7	87.8	78.5	80.2	74.3	73.4	73.4
80°	140.1	130.0	114.8	98.7	86.1	77.6	68.4	68.4	64.1	63.3	65.8
82.5°	105.5	97.9	85.2	75.1	67.5	58.2	45.6	50.6	50.6	52.3	54.0
85°	78.5	70.1	60.8	53.2	49.0	43.9	35.4	38.8	39.7	43.0	44.7
87.5°	59.1	49.8	42.2	38.8	37.1	33.8	26.2	31.2	32.1	32.1	33.8
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):

	160°	165°	170°	175°	180°
0°	98.7	98.7	98.7	98.7	98.7
2.5°	155.3	153.6	151.9	151.1	151.1
5°	97.9	95.4	95.4	95.4	94.5
7.5°	162.9	165.4	164.6	164.6	163.7
10°	167.1	166.3	167.1	166.3	167.1
12.5°	227.9	234.6	238.8	240.5	238.8
15°	240.5	239.7	240.5	241.4	240.5
17.5°	290.3	297.9	299.6	298.8	298.8
20°	286.1	292.9	293.7	297.9	293.7
22.5°	336.8	335.1	339.3	337.6	335.9
25°	353.6	338.4	375.6	378.1	375.6
27.5°	393.3	368.0	371.4	371.4	368.0
30°	408.5	397.5	400.1	403.4	402.6
32.5°	378.1	382.3	413.6	419.5	418.6
35°	372.2	378.1	373.9	379.0	395.8
37.5°	349.4	352.8	359.5	365.4	366.3
40°	304.7	318.2	328.3	332.5	335.9
42.5°	243.1	257.4	266.7	270.9	267.5
45°	189.1	198.3	205.9	208.5	205.9
47.5°	145.2	148.5	151.1	151.9	154.5
50°	111.4	111.4	112.3	110.6	110.6
52.5°	93.7	91.2	91.2	89.5	89.5
55°	85.2	83.6	82.7	81.0	81.0
57.5°	85.2	81.9	79.3	76.8	76.8
60°	88.6	82.7	77.6	75.1	74.3
62.5°	92.0	84.4	77.6	74.3	73.4
65°	90.3	83.6	77.6	74.3	73.4
67°	86.9	81.9	77.6	74.3	74.3
67.5°	86.1	81.9	77.6	74.3	73.4
70°	82.7	81.0	76.8	73.4	72.6
72.5°	79.3	77.6	73.4	70.1	69.2
75°	76.0	73.4	70.1	67.5	66.7
77.5°	71.7	68.4	65.0	61.6	59.9
80°	65.0	60.8	56.5	54.0	50.6
82.5°	54.9	54.0	49.0	45.6	42.2
85°	45.6	44.7	41.4	37.1	32.9
87.5°	34.6	35.4	32.9	28.7	20.3
90°	0.0	0.0	0.0	0.0	0.0

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