

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: P157195

Luminaire Tested: **UTLD-F02-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157195
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-F02-LED-E-U-T4
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.7 lumens
Efficiency: N/A
Efficacy: 79.2 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): 55
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



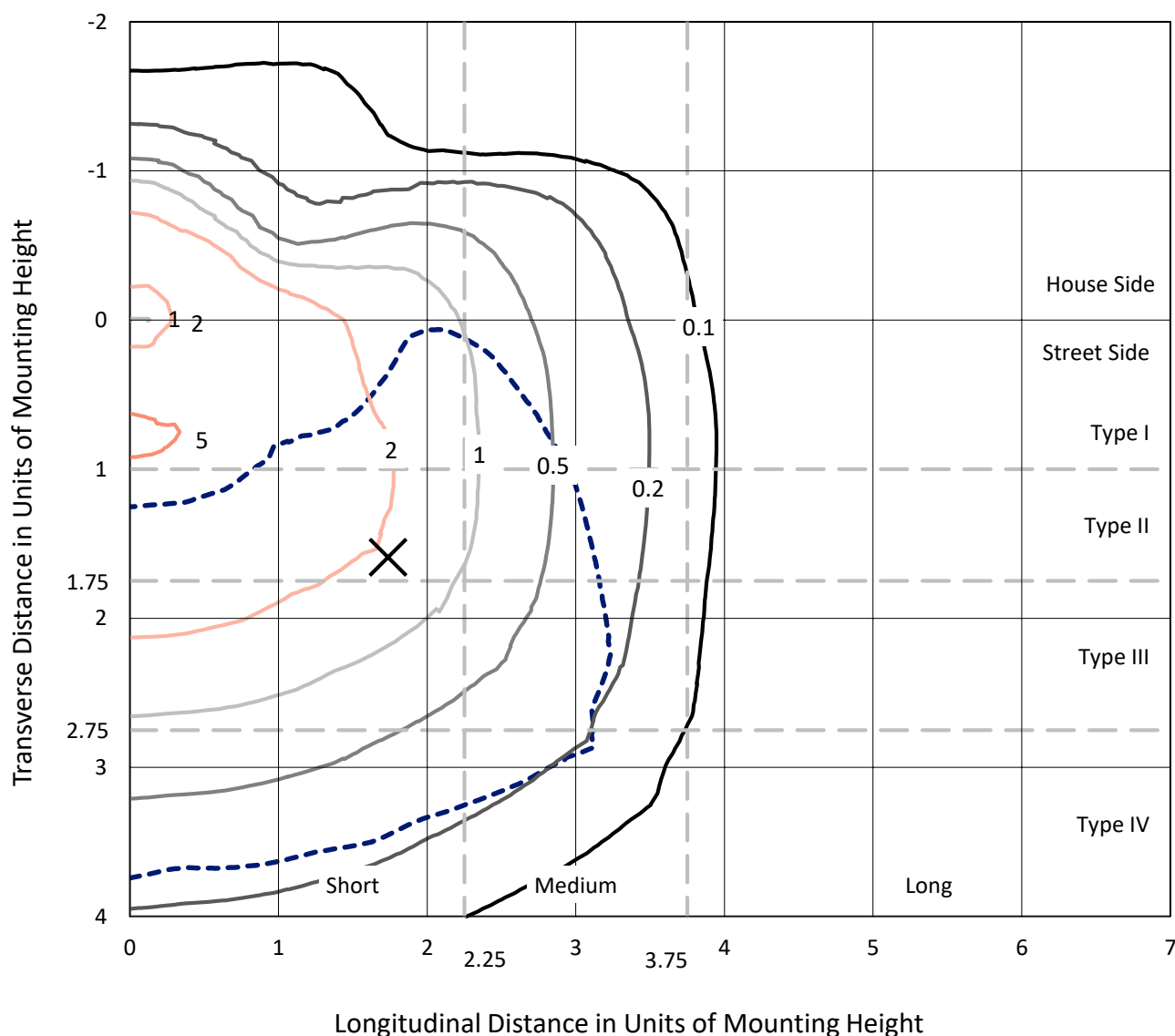
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

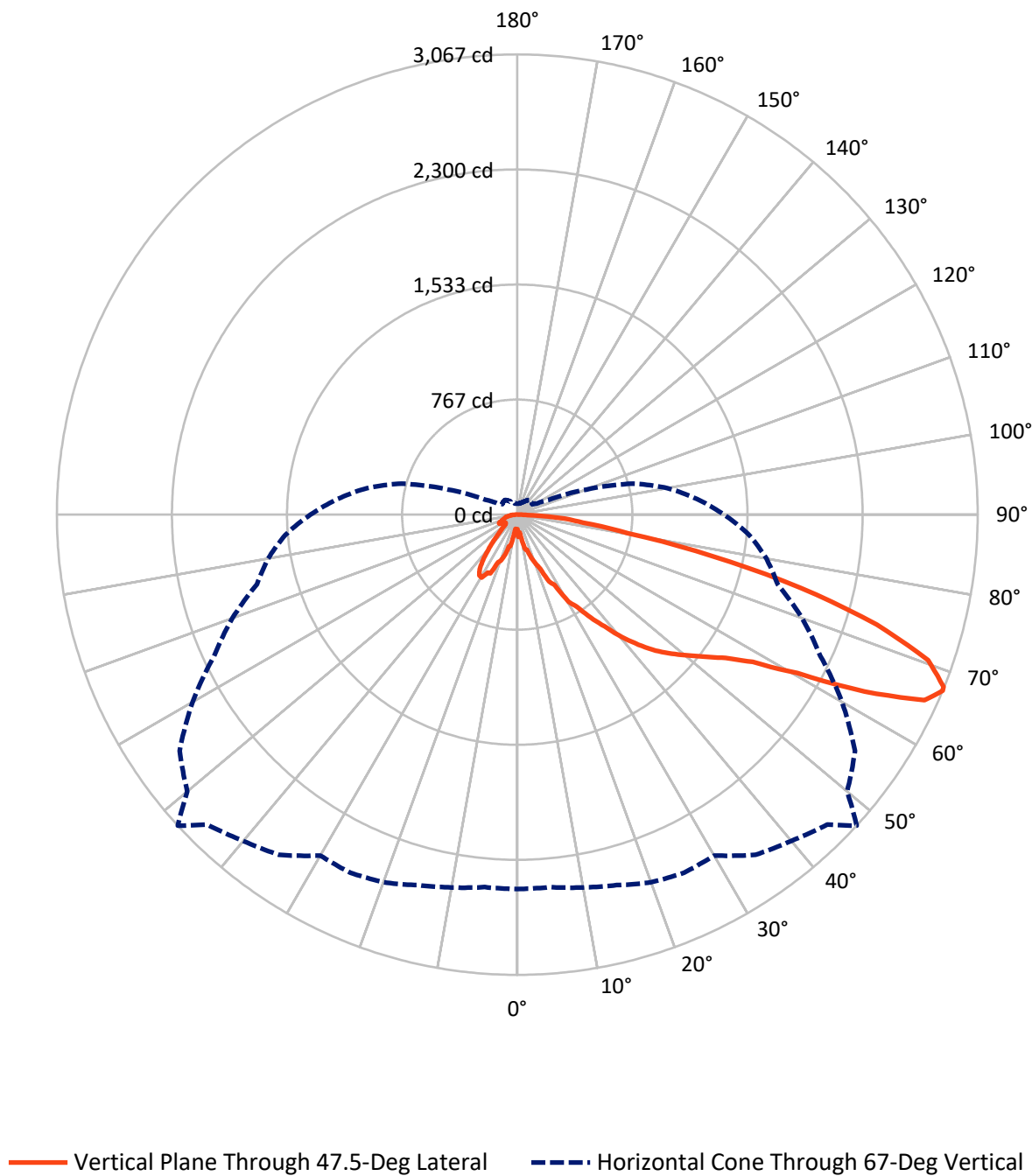


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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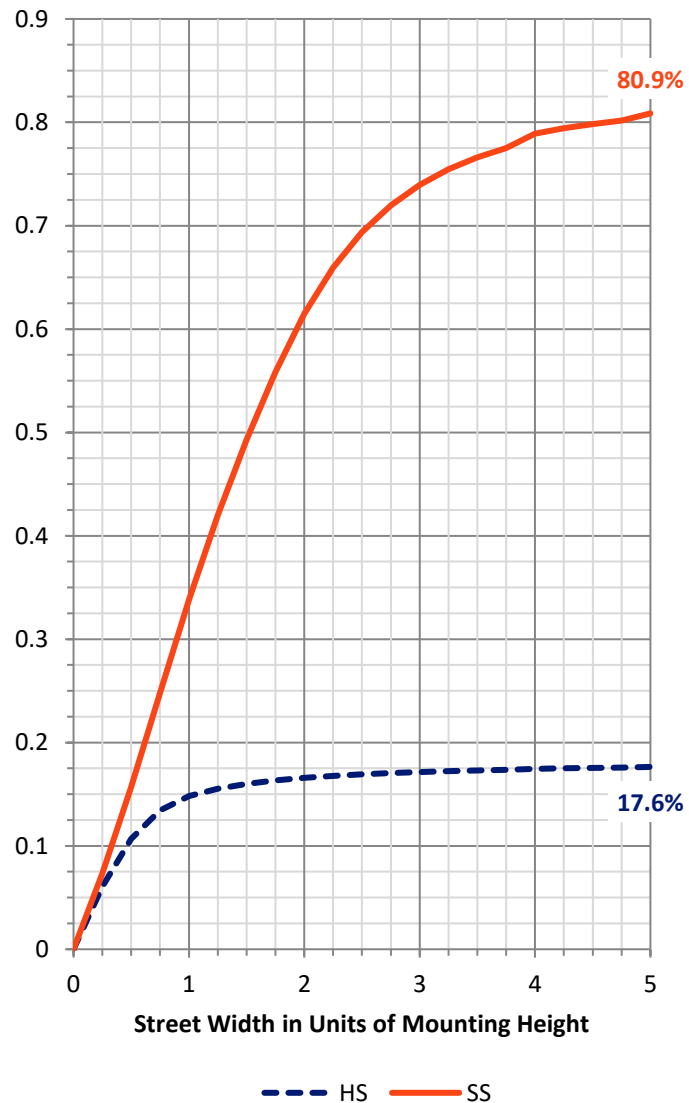
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.4	0.0	781.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3572.3	0.0	3572.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	4353.7	0.0	4353.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.3
10°-20°	71.4	1.6
20°-30°	210.4	4.8
30°-40°	413.7	9.5
40°-50°	577.7	13.3
50°-60°	805.4	18.5
60°-70°	1290.5	29.6
70°-80°	827.9	19.0
80°-90°	144.0	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°	4353.7	100.0
0°-180°	4353.7	100.0

Coefficient of Utilization



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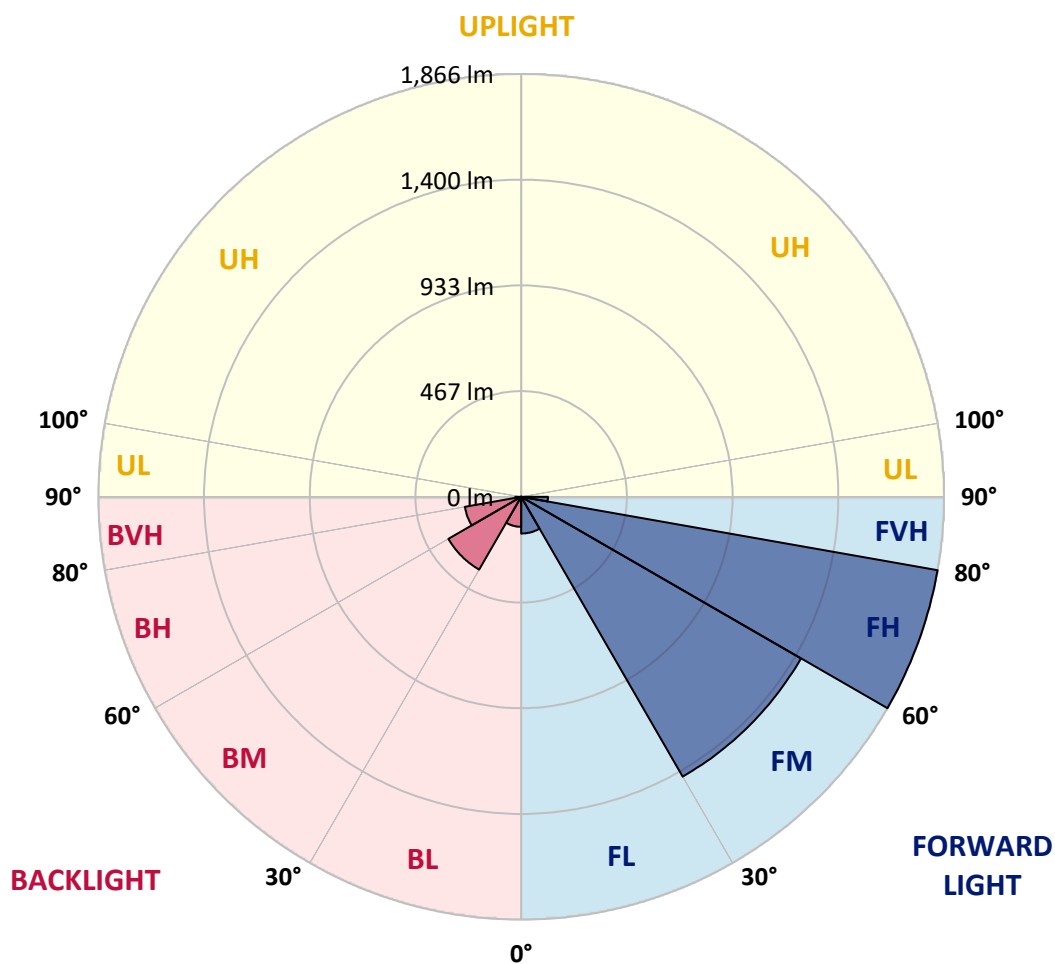
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.2	3.7			
FM	(30°-60°)	1426.0	32.8			
FH	(60°-80°)	1866.1	42.9			G2/5000
FVH	(80°-90°)	118.1	2.7			G2/225
BL	(0°-30°)	132.4	3.0	B1/500		
BM	(30°-60°)	370.8	8.5	B1/1000		
BH	(60°-80°)	252.3	5.8	B1/500		G1/500
BVH	(80°-90°)	26.0	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°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2.5°	150.2	151.1	150.2	151.1	151.1	150.2	150.2	150.2	152.7	145.3	148.6
5°	118.9	119.7	119.7	119.7	119.7	119.7	120.5	123.0	120.5	121.4	121.4
7.5°	181.6	183.3	183.3	181.6	182.4	182.4	181.6	129.6	125.5	123.0	120.5
10°	185.7	187.4	187.4	184.1	184.9	185.7	185.7	184.9	183.3	177.5	176.7
12.5°	251.8	252.6	251.8	251.0	249.3	241.1	221.2	192.3	183.3	232.0	236.1
15°	269.9	269.1	267.5	263.3	260.9	256.7	251.8	293.1	288.1	249.3	244.4
17.5°	342.6	342.6	340.9	340.1	329.4	326.1	316.2	310.4	304.6	296.4	301.3
20°	415.2	411.1	374.8	355.0	342.6	379.7	378.9	368.2	377.3	346.7	345.9
22.5°	441.7	439.2	435.9	425.1	421.8	447.4	422.7	415.2	423.5	391.3	390.5
25°	544.8	544.0	529.2	520.9	495.3	482.1	491.2	484.6	461.5	460.6	494.5
27.5°	589.4	583.6	572.9	558.9	584.5	573.7	575.4	519.3	563.0	540.7	531.6
30°	704.2	706.6	687.7	694.3	688.5	637.3	620.8	636.5	634.0	616.7	672.0
32.5°	847.8	847.0	826.4	789.2	738.8	728.9	738.8	724.8	719.9	716.6	733.1
35°	1006.3	994.8	923.8	906.4	878.4	857.7	849.5	814.0	828.8	788.4	843.7
37.5°	1083.1	1084.7	1057.5	1057.5	1027.8	997.2	959.3	963.4	931.2	906.4	945.2
40°	1197.0	1201.1	1175.5	1161.5	1148.3	1100.4	1074.8	1055.8	1055.0	1032.7	1072.4
42.5°	1252.3	1258.9	1235.8	1228.4	1237.5	1206.1	1164.8	1164.0	1168.9	1138.4	1184.6
45°	1309.3	1317.5	1293.6	1303.5	1293.6	1288.6	1233.3	1261.4	1275.4	1241.6	1291.9
47.5°	1376.2	1386.9	1377.8	1372.0	1362.1	1362.1	1321.7	1340.7	1361.3	1332.4	1385.2
50°	1459.5	1467.0	1457.1	1454.6	1439.7	1437.2	1410.8	1424.0	1440.5	1410.8	1473.6
52.5°	1570.1	1571.8	1565.2	1550.3	1528.0	1533.0	1517.3	1518.1	1524.7	1504.9	1574.3
55°	1709.7	1711.3	1710.5	1675.8	1696.5	1658.5	1632.9	1637.8	1634.5	1618.9	1684.9
57.5°	1883.8	1894.6	1899.5	1869.0	1888.0	1817.8	1802.9	1793.9	1805.4	1769.9	1850.8
60°	2161.2	2177.7	2169.5	2164.5	2149.7	2084.5	2065.5	2091.9	2079.5	2048.1	2144.7
62.5°	2517.0	2512.9	2533.5	2530.2	2534.4	2469.1	2424.6	2489.0	2510.4	2522.8	2596.3
65°	2608.7	2609.5	2635.9	2642.5	2674.7	2668.1	2637.6	2749.8	2786.1	2838.2	2981.0
67°	2494.7	2491.4	2522.8	2555.8	2607.0	2632.6	2622.7	2767.2	2838.2	2920.7	3066.8
67.5°	2459.2	2452.6	2486.5	2529.4	2582.2	2613.6	2606.2	2755.6	2829.9	2919.9	3062.7
70°	2227.3	2204.2	2247.1	2304.9	2352.7	2424.6	2427.9	2569.9	2673.0	2769.6	2902.5
72.5°	1930.1	1899.5	1938.3	1982.1	2017.6	2101.0	2105.9	2198.4	2304.0	2382.5	2505.5
75°	1532.2	1492.5	1528.9	1550.3	1563.5	1631.2	1637.0	1717.9	1795.5	1855.8	1950.7
77.5°	947.7	921.3	951.0	986.5	1031.1	1060.8	1077.3	1126.8	1211.9	1279.6	1330.7
80°	474.7	493.7	525.0	572.9	610.1	662.1	683.5	686.8	722.3	717.4	749.6
82.5°	330.2	350.8	395.4	426.0	437.5	454.0	480.5	472.2	448.3	444.1	440.8
85°	84.2	131.3	241.1	292.2	303.8	321.1	345.1	359.1	322.0	291.4	297.2
87.5°	23.1	28.1	82.6	122.2	132.1	97.4	126.3	151.1	98.2	65.2	68.5
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°	70°	75°	80°	85°	90°	95°	100°
0°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2.5°	133.7	118.9	112.3	102.4	99.9	99.1	97.4	97.4	96.6	96.6	96.6
5°	123.8	137.0	148.6	151.9	145.3	108.1	104.8	99.1	98.2	98.2	99.1
7.5°	121.4	123.0	123.8	118.9	138.7	139.5	100.7	99.1	99.1	99.1	99.9
10°	176.7	131.3	165.1	170.9	175.0	203.9	201.4	152.7	146.9	150.2	155.2
12.5°	237.8	244.4	217.9	176.7	180.8	182.4	204.7	158.5	149.4	155.2	187.4
15°	243.5	242.7	254.3	284.8	247.7	240.2	255.9	219.6	217.9	204.7	239.4
17.5°	345.1	295.5	287.3	289.8	265.0	253.4	235.3	255.1	231.1	224.5	219.6
20°	358.3	328.6	313.7	365.7	397.9	364.1	345.9	351.7	331.0	318.7	316.2
22.5°	389.6	424.3	438.4	405.3	405.3	400.4	436.7	410.3	398.7	385.5	379.7
25°	507.7	451.6	495.3	530.8	513.5	500.3	473.0	482.1	445.0	444.1	427.6
27.5°	555.6	588.6	572.9	576.2	549.0	591.1	572.9	553.1	518.4	511.8	520.1
30°	678.6	644.7	659.6	671.2	658.8	656.3	637.3	609.2	584.5	566.3	563.8
32.5°	728.9	752.1	745.4	731.4	772.7	785.1	773.5	707.5	685.2	638.1	638.1
35°	828.8	817.3	875.1	861.0	844.5	828.8	818.1	772.7	724.0	674.5	661.2
37.5°	938.6	951.0	949.4	922.1	894.0	865.2	853.6	809.8	755.4	710.8	651.3
40°	1051.7	1028.6	1017.0	993.1	941.9	916.3	899.0	874.2	790.9	740.5	653.8
42.5°	1157.4	1141.7	1087.2	1051.7	1014.6	977.4	928.7	908.9	824.7	760.3	645.6
45°	1254.8	1227.6	1168.9	1123.5	1062.5	1032.7	964.2	927.1	861.8	762.0	623.3
47.5°	1336.5	1308.5	1249.0	1172.2	1116.1	1073.2	1008.8	976.6	897.3	780.9	623.3
50°	1415.8	1383.6	1319.2	1211.0	1160.7	1088.9	1054.2	1008.8	941.9	809.0	642.3
52.5°	1502.5	1463.7	1386.9	1263.9	1206.1	1135.9	1098.8	1060.8	999.7	847.8	673.6
55°	1609.8	1563.5	1463.7	1344.8	1262.2	1198.7	1163.2	1123.5	1060.0	892.4	712.4
57.5°	1764.1	1698.9	1580.9	1471.9	1371.2	1316.7	1266.4	1211.9	1156.6	970.8	776.0
60°	2028.3	1957.3	1805.4	1707.2	1597.4	1524.7	1444.7	1401.7	1316.7	1120.2	880.8
62.5°	2467.5	2376.7	2233.0	2048.1	1891.3	1743.5	1660.1	1598.2	1471.9	1251.5	1015.4
65°	2793.6	2667.3	2474.9	2236.3	2048.1	1827.7	1746.8	1619.7	1468.6	1260.6	1054.2
67°	2868.7	2745.7	2498.0	2227.3	2019.2	1795.5	1684.9	1551.2	1377.0	1200.3	1017.0
67.5°	2867.0	2746.5	2485.7	2211.6	2002.7	1779.0	1660.1	1523.9	1346.4	1181.3	1005.5
70°	2702.8	2605.4	2323.9	2047.3	1829.4	1622.2	1466.1	1338.2	1169.8	1038.5	885.8
72.5°	2300.7	2241.3	1982.9	1732.0	1530.5	1357.2	1238.3	1111.2	959.3	857.7	747.1
75°	1796.3	1712.1	1462.0	1266.4	1103.7	988.2	893.2	779.3	659.6	601.0	558.9
77.5°	1197.0	1114.5	880.8	688.5	572.9	475.5	402.9	322.0	250.1	256.7	276.6
80°	650.5	584.5	421.0	303.8	247.7	200.6	168.4	128.8	94.1	113.1	128.8
82.5°	395.4	346.7	269.1	210.5	172.5	146.1	118.9	88.3	67.7	76.8	93.3
85°	274.9	242.7	192.3	151.1	123.0	98.2	76.8	57.0	53.7	58.6	66.9
87.5°	91.6	113.9	86.7	70.2	67.7	61.1	51.2	41.3	32.2	40.5	52.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2.5°	97.4	98.2	102.4	104.8	104.8	102.4	118.9	117.2	142.8	144.5	151.1
5°	105.7	106.5	138.7	150.2	151.1	130.4	101.5	97.4	95.8	94.9	97.4
7.5°	119.7	139.5	126.3	90.8	94.1	94.1	95.8	94.9	95.8	113.1	155.2
10°	200.6	150.2	142.0	121.4	98.2	105.7	152.7	153.5	156.0	162.6	163.5
12.5°	176.7	154.4	145.3	146.1	201.4	216.3	208.9	159.3	161.8	165.9	194.0
15°	204.7	202.3	213.8	211.3	205.6	218.8	216.3	258.4	265.8	227.0	227.8
17.5°	209.7	211.3	260.0	266.6	261.7	286.5	270.8	267.5	273.2	269.1	255.9
20°	316.2	351.7	340.9	287.3	296.4	328.6	320.3	274.9	314.5	317.8	294.7
22.5°	331.0	362.4	372.3	402.9	401.2	336.8	346.7	362.4	329.4	314.5	343.4
25°	444.1	474.7	490.4	446.6	404.5	440.0	421.0	360.8	375.6	350.8	350.8
27.5°	552.3	507.7	522.6	502.7	516.0	444.1	422.7	447.4	372.3	378.9	386.3
30°	576.2	565.5	576.2	552.3	517.6	505.2	459.0	438.4	444.1	388.8	383.9
32.5°	616.7	597.7	577.9	534.9	530.0	492.8	460.6	452.4	411.1	390.5	387.2
35°	611.7	568.0	553.9	526.7	487.9	458.2	426.8	403.7	373.1	367.4	363.2
37.5°	596.0	528.3	489.5	463.1	430.1	402.0	357.5	341.8	331.0	320.3	315.4
40°	572.1	487.1	421.8	381.4	347.5	317.8	288.9	274.1	266.6	270.8	275.7
42.5°	530.0	439.2	349.2	303.0	267.5	243.5	224.5	217.9	215.5	219.6	227.8
45°	497.0	378.9	281.5	228.7	199.0	183.3	170.1	165.1	168.4	171.7	175.8
47.5°	482.1	332.7	225.4	172.5	149.4	141.2	132.9	128.8	130.4	132.9	136.2
50°	478.0	306.3	188.2	136.2	120.5	112.3	106.5	104.8	105.7	104.8	106.5
52.5°	478.8	306.3	170.9	119.7	105.7	99.1	94.1	92.5	90.0	89.2	90.0
55°	496.1	314.5	166.8	116.4	103.2	95.8	90.8	90.0	86.7	84.2	83.4
57.5°	549.0	344.2	176.7	123.0	107.3	100.7	95.8	94.9	91.6	87.5	85.9
60°	653.8	409.5	203.1	137.9	118.1	112.3	109.0	108.1	103.2	97.4	92.5
62.5°	763.6	481.3	235.3	153.5	130.4	128.8	129.6	128.0	121.4	109.0	99.9
65°	812.3	509.3	247.7	155.2	130.4	133.7	136.2	137.0	126.3	111.4	99.9
67°	797.5	489.5	235.3	145.3	122.2	125.5	126.3	127.1	116.4	104.0	93.3
67.5°	790.0	481.3	231.1	143.6	121.4	123.8	123.0	123.0	113.1	102.4	91.6
70°	713.3	425.1	203.9	132.9	113.1	109.8	103.2	103.2	95.8	90.0	84.2
72.5°	605.1	360.8	177.5	126.3	107.3	98.2	90.8	90.0	85.0	82.6	79.3
75°	462.3	280.7	156.0	119.7	101.5	90.8	82.6	83.4	78.4	77.6	75.9
77.5°	274.9	190.7	135.4	111.4	96.6	85.9	76.8	78.4	72.6	71.8	71.8
80°	137.0	127.1	112.3	96.6	84.2	75.9	66.9	66.9	62.7	61.9	64.4
82.5°	103.2	95.8	83.4	73.5	66.0	57.0	44.6	49.5	49.5	51.2	52.8
85°	76.8	68.5	59.4	52.0	47.9	42.9	34.7	38.0	38.8	42.1	43.8
87.5°	57.8	48.7	41.3	38.0	36.3	33.0	25.6	30.5	31.4	31.4	33.0
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°	96.6	96.6	96.6	96.6	96.6
2.5°	151.9	150.2	148.6	147.8	147.8
5°	95.8	93.3	93.3	93.3	92.5
7.5°	159.3	161.8	161.0	161.0	160.2
10°	163.5	162.6	163.5	162.6	163.5
12.5°	222.9	229.5	233.6	235.3	233.6
15°	235.3	234.4	235.3	236.1	235.3
17.5°	284.0	291.4	293.1	292.2	292.2
20°	279.9	286.5	287.3	291.4	287.3
22.5°	329.4	327.7	331.9	330.2	328.6
25°	345.9	331.0	367.4	369.8	367.4
27.5°	384.7	359.9	363.2	363.2	359.9
30°	399.6	388.8	391.3	394.6	393.8
32.5°	369.8	374.0	404.5	410.3	409.5
35°	364.1	369.8	365.7	370.7	387.2
37.5°	341.8	345.1	351.7	357.5	358.3
40°	298.0	311.2	321.1	325.3	328.6
42.5°	237.8	251.8	260.9	265.0	261.7
45°	184.9	194.0	201.4	203.9	201.4
47.5°	142.0	145.3	147.8	148.6	151.1
50°	109.0	109.0	109.8	108.1	108.1
52.5°	91.6	89.2	89.2	87.5	87.5
55°	83.4	81.7	80.9	79.3	79.3
57.5°	83.4	80.1	77.6	75.1	75.1
60°	86.7	80.9	75.9	73.5	72.6
62.5°	90.0	82.6	75.9	72.6	71.8
65°	88.3	81.7	75.9	72.6	71.8
67°	85.0	80.1	75.9	72.6	72.6
67.5°	84.2	80.1	75.9	72.6	71.8
70°	80.9	79.3	75.1	71.8	71.0
72.5°	77.6	75.9	71.8	68.5	67.7
75°	74.3	71.8	68.5	66.0	65.2
77.5°	70.2	66.9	63.6	60.3	58.6
80°	63.6	59.4	55.3	52.8	49.5
82.5°	53.7	52.8	47.9	44.6	41.3
85°	44.6	43.8	40.5	36.3	32.2
87.5°	33.8	34.7	32.2	28.1	19.8
90°	0.0	0.0	0.0	0.0	0.0

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