

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: P157194

Luminaire Tested: **UTLD-F02-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157194
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-T4-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3976.5 lumens
Efficiency: N/A
Efficacy: 72.3 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

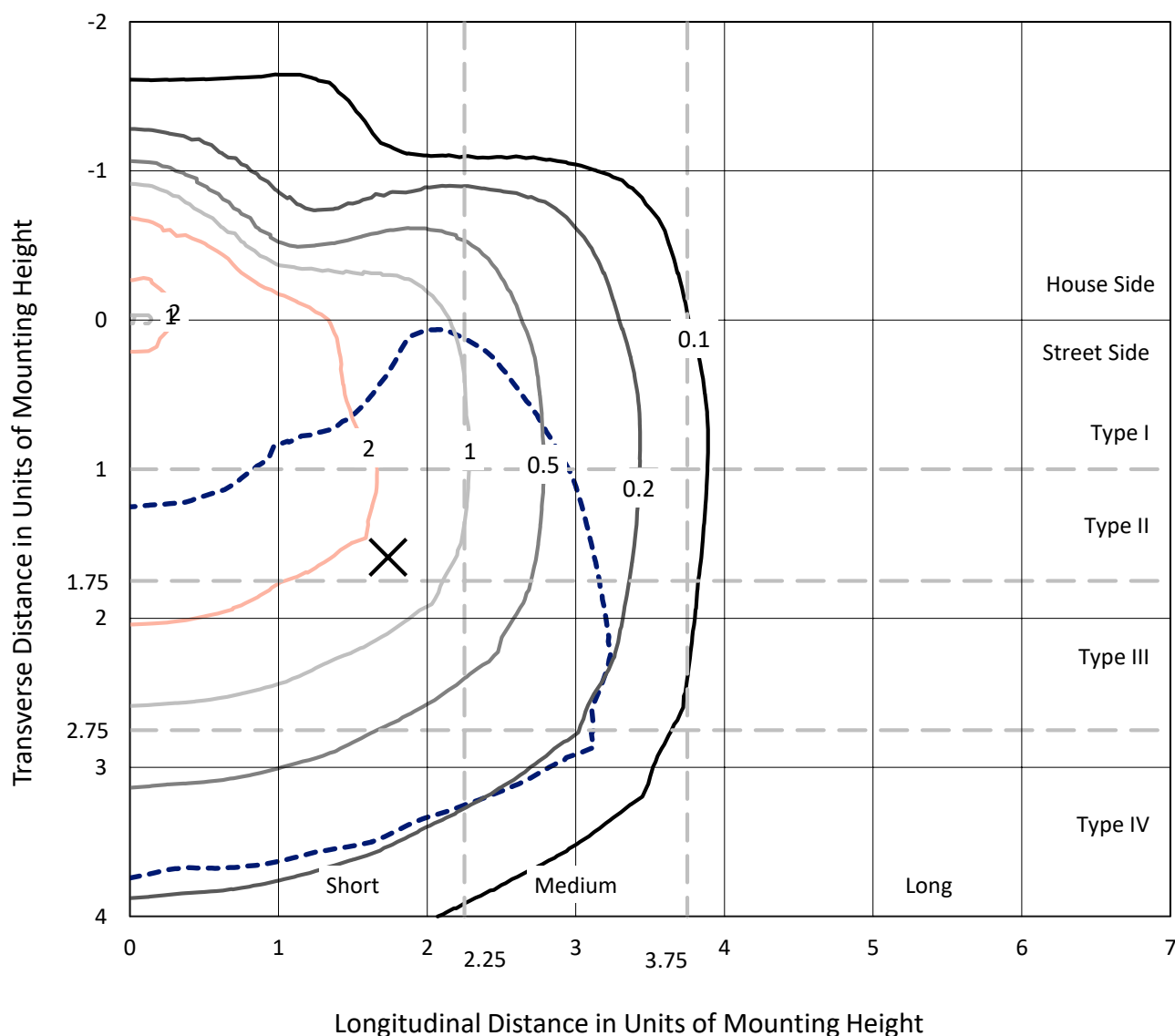


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

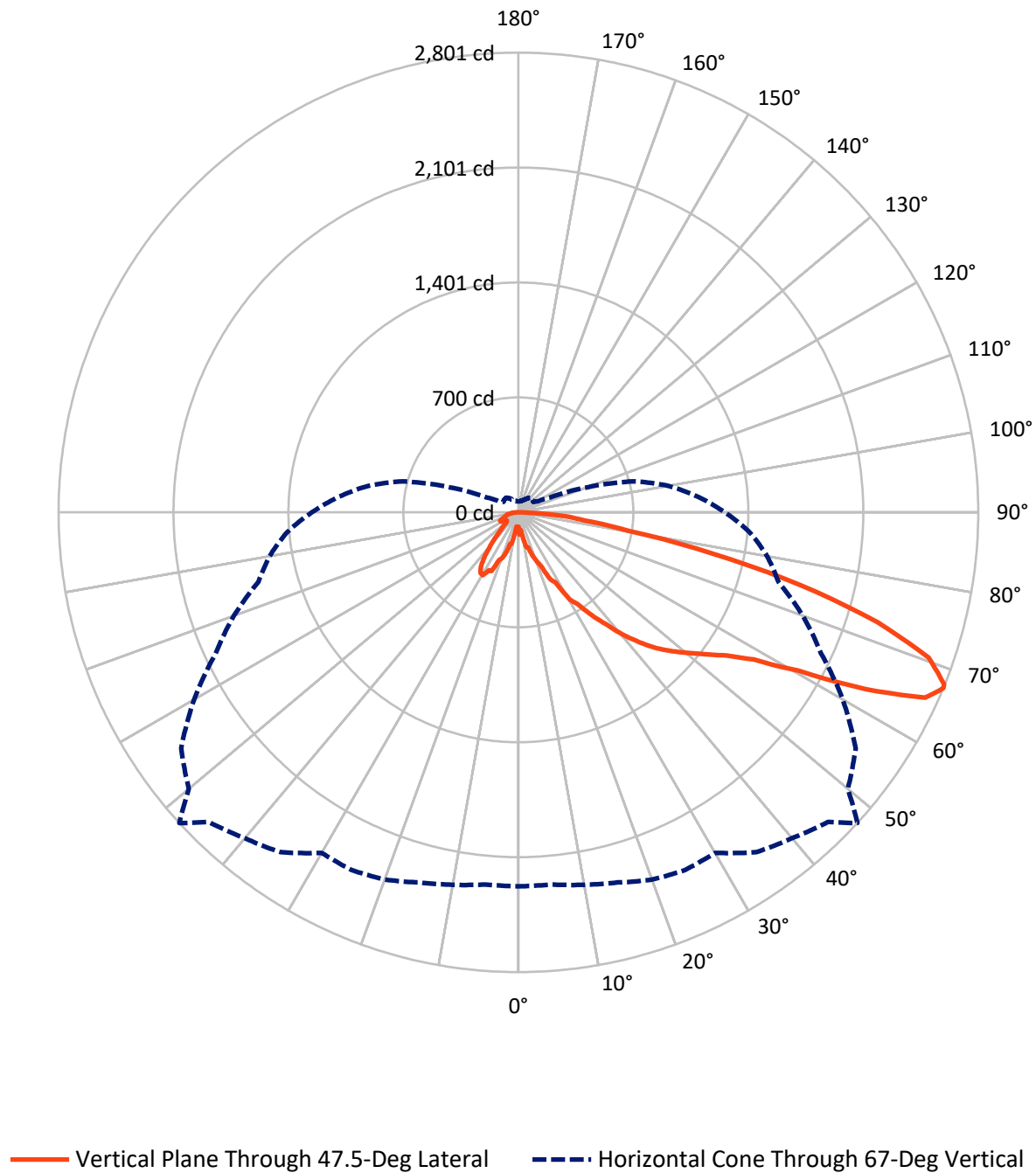


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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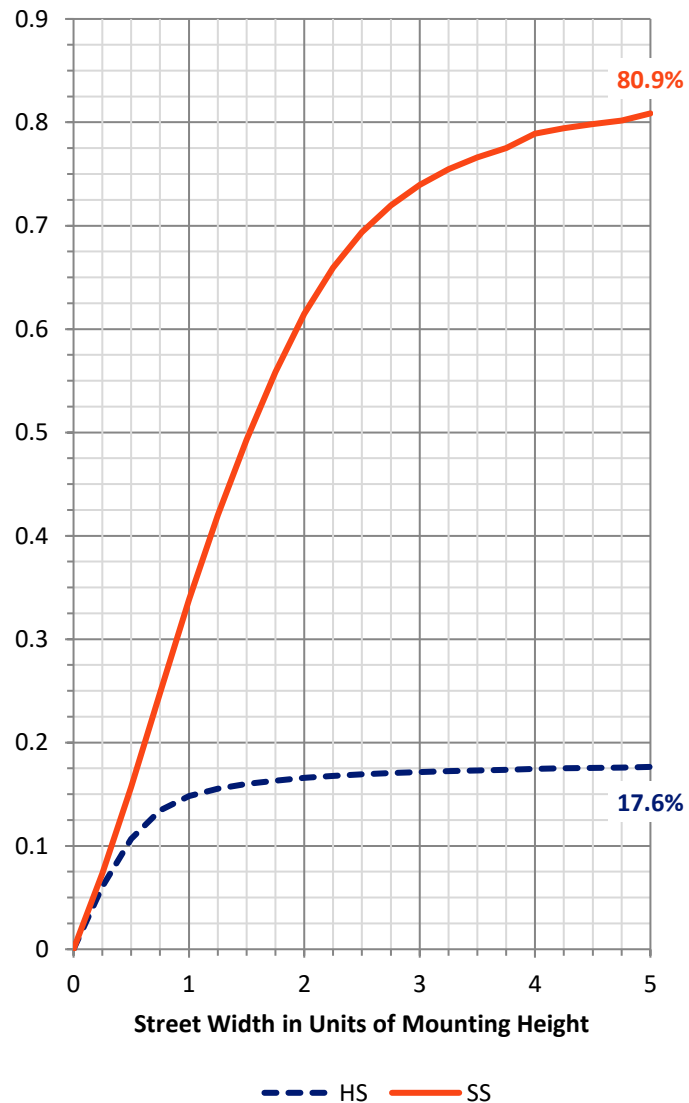
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.7	0.0	713.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3262.8	0.0	3262.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	3976.5	0.0	3976.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.3
10°-20°	65.2	1.6
20°-30°	192.2	4.8
30°-40°	377.9	9.5
40°-50°	527.6	13.3
50°-60°	735.6	18.5
60°-70°	1178.7	29.6
70°-80°	756.2	19.0
80°-90°	131.5	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°	3976.5	100.0
0°-180°	3976.5	100.0

Coefficient of Utilization



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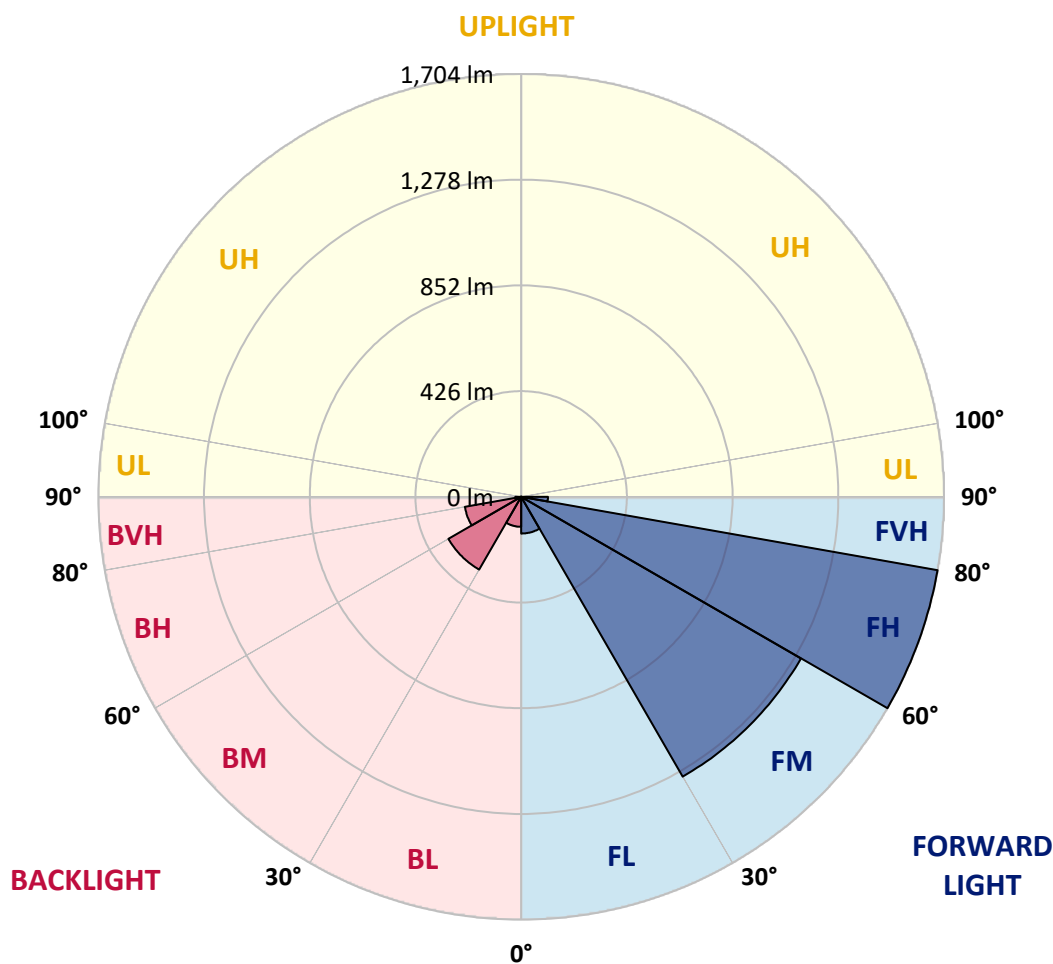
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.1	3.7			
FM	(30°-60°)	1302.4	32.8			
FH	(60°-80°)	1704.4	42.9			G1/1800
FVH	(80°-90°)	107.8	2.7			G2/225
BL	(0°-30°)	120.9	3.0	B1/500		
BM	(30°-60°)	338.6	8.5	B1/1000		
BH	(60°-80°)	230.5	5.8	B1/500		G1/500
BVH	(80°-90°)	23.7	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°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
2.5°	137.2	138.0	137.2	138.0	138.0	137.2	137.2	137.2	139.5	132.7	135.7
5°	108.6	109.3	109.3	109.3	109.3	109.3	110.1	112.3	110.1	110.8	110.8
7.5°	165.9	167.4	167.4	165.9	166.6	166.6	165.9	118.4	114.6	112.3	110.1
10°	169.6	171.2	171.2	168.1	168.9	169.6	169.6	168.9	167.4	162.1	161.4
12.5°	230.0	230.7	230.0	229.2	227.7	220.2	202.1	175.7	167.4	211.9	215.6
15°	246.6	245.8	244.3	240.5	238.3	234.5	230.0	267.7	263.1	227.7	223.2
17.5°	312.9	312.9	311.4	310.6	300.8	297.8	288.8	283.5	278.2	270.7	275.2
20°	379.3	375.5	342.3	324.2	312.9	346.8	346.1	336.3	344.6	316.7	315.9
22.5°	403.4	401.1	398.1	388.3	385.3	408.7	386.0	379.3	386.8	357.4	356.6
25°	497.6	496.9	483.3	475.8	452.4	440.3	448.6	442.6	421.5	420.7	451.6
27.5°	538.4	533.1	523.3	510.5	533.8	524.0	525.5	474.3	514.2	493.9	485.6
30°	643.2	645.4	628.1	634.1	628.8	582.1	567.0	581.3	579.1	563.2	613.8
32.5°	774.4	773.6	754.7	720.8	674.8	665.8	674.8	662.0	657.5	654.5	669.5
35°	919.1	908.6	843.7	827.9	802.2	783.4	775.9	743.4	757.0	720.1	770.6
37.5°	989.2	990.7	965.9	965.9	938.7	910.8	876.1	879.9	850.5	827.9	863.3
40°	1093.3	1097.1	1073.7	1060.9	1048.8	1005.1	981.7	964.4	963.6	943.2	979.4
42.5°	1143.8	1149.8	1128.7	1121.9	1130.2	1101.6	1063.9	1063.1	1067.7	1039.8	1082.0
45°	1195.8	1203.4	1181.5	1190.6	1181.5	1177.0	1126.5	1152.1	1164.9	1134.0	1180.0
47.5°	1256.9	1266.7	1258.4	1253.1	1244.1	1244.1	1207.1	1224.5	1243.3	1216.9	1265.2
50°	1333.1	1339.8	1330.8	1328.5	1315.0	1312.7	1288.6	1300.6	1315.7	1288.6	1345.9
52.5°	1434.1	1435.6	1429.6	1416.0	1395.6	1400.2	1385.8	1386.6	1392.6	1374.5	1437.9
55°	1561.5	1563.0	1562.3	1530.6	1549.5	1514.8	1491.4	1495.9	1492.9	1478.6	1538.9
57.5°	1720.6	1730.4	1734.9	1707.0	1724.4	1660.3	1646.7	1638.4	1649.0	1616.6	1690.5
60°	1974.0	1989.0	1981.5	1977.0	1963.4	1903.8	1886.5	1910.6	1899.3	1870.7	1958.9
62.5°	2298.9	2295.2	2314.0	2311.0	2314.8	2255.2	2214.5	2273.3	2292.9	2304.2	2371.3
65°	2382.6	2383.4	2407.5	2413.5	2442.9	2436.9	2409.0	2511.6	2544.7	2592.2	2722.7
67°	2278.6	2275.6	2304.2	2334.4	2381.1	2404.5	2395.4	2527.4	2592.2	2667.6	2801.1
67.5°	2246.1	2240.1	2271.0	2310.2	2358.5	2387.1	2380.4	2516.8	2584.7	2666.9	2797.3
70°	2034.3	2013.2	2052.4	2105.1	2148.9	2214.5	2217.5	2347.2	2441.4	2529.6	2651.0
72.5°	1762.8	1734.9	1770.4	1810.3	1842.8	1918.9	1923.4	2007.9	2104.4	2176.0	2288.4
75°	1399.4	1363.2	1396.4	1416.0	1428.1	1489.9	1495.2	1569.1	1639.9	1695.0	1781.7
77.5°	865.6	841.5	868.6	901.0	941.7	968.9	984.0	1029.2	1106.9	1168.7	1215.4
80°	433.5	450.9	479.5	523.3	557.2	604.7	624.3	627.3	659.7	655.2	684.6
82.5°	301.6	320.4	361.2	389.1	399.6	414.7	438.8	431.3	409.4	405.6	402.6
85°	76.9	119.9	220.2	266.9	277.5	293.3	315.2	328.0	294.1	266.2	271.4
87.5°	21.1	25.6	75.4	111.6	120.6	89.0	115.4	138.0	89.7	59.6	62.6
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°	70°	75°	80°	85°	90°	95°	100°
0°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
2.5°	122.1	108.6	102.5	93.5	91.2	90.5	89.0	89.0	88.2	88.2	88.2
5°	113.1	125.2	135.7	138.7	132.7	98.8	95.8	90.5	89.7	89.7	90.5
7.5°	110.8	112.3	113.1	108.6	126.7	127.4	92.0	90.5	90.5	90.5	91.2
10°	161.4	119.9	150.8	156.1	159.8	186.2	184.0	139.5	134.2	137.2	141.8
12.5°	217.2	223.2	199.1	161.4	165.1	166.6	187.0	144.8	136.5	141.8	171.2
15°	222.4	221.7	232.2	260.1	226.2	219.4	233.7	200.6	199.1	187.0	218.7
17.5°	315.2	269.9	262.4	264.7	242.0	231.5	214.9	233.0	211.1	205.1	200.6
20°	327.2	300.1	286.5	334.0	363.4	332.5	315.9	321.2	302.4	291.0	288.8
22.5°	355.9	387.6	400.4	370.2	370.2	365.7	398.9	374.7	364.2	352.1	346.8
25°	463.7	412.4	452.4	484.8	469.0	456.9	432.0	440.3	406.4	405.6	390.6
27.5°	507.4	537.6	523.3	526.3	501.4	539.9	523.3	505.2	473.5	467.5	475.0
30°	619.8	588.9	602.4	613.0	601.7	599.4	582.1	556.4	533.8	517.2	515.0
32.5°	665.8	686.9	680.9	668.0	705.7	717.0	706.5	646.2	625.8	582.8	582.8
35°	757.0	746.5	799.2	786.4	771.3	757.0	747.2	705.7	661.3	616.0	603.9
37.5°	857.3	868.6	867.1	842.2	816.6	790.2	779.6	739.7	689.9	649.2	594.9
40°	960.6	939.5	928.9	907.1	860.3	836.9	821.1	798.5	722.3	676.3	597.2
42.5°	1057.1	1042.8	993.0	960.6	926.7	892.7	848.2	830.1	753.2	694.4	589.6
45°	1146.1	1121.2	1067.7	1026.2	970.4	943.2	880.7	846.7	787.2	695.9	569.3
47.5°	1220.7	1195.1	1140.8	1070.7	1019.4	980.2	921.4	892.0	819.6	713.3	569.3
50°	1293.1	1263.7	1204.9	1106.1	1060.1	994.5	962.8	921.4	860.3	738.9	586.6
52.5°	1372.3	1336.8	1266.7	1154.4	1101.6	1037.5	1003.6	968.9	913.1	774.4	615.3
55°	1470.3	1428.1	1336.8	1228.3	1152.9	1094.8	1062.4	1026.2	968.1	815.1	650.7
57.5°	1611.3	1551.7	1443.9	1344.4	1252.4	1202.6	1156.6	1106.9	1056.3	886.7	708.8
60°	1852.6	1787.7	1649.0	1559.3	1459.0	1392.6	1319.5	1280.3	1202.6	1023.2	804.5
62.5°	2253.7	2170.7	2039.6	1870.7	1727.4	1592.4	1516.3	1459.7	1344.4	1143.1	927.4
65°	2551.5	2436.2	2260.5	2042.6	1870.7	1669.3	1595.5	1479.3	1341.4	1151.3	962.8
67°	2620.1	2507.8	2281.6	2034.3	1844.3	1639.9	1538.9	1416.8	1257.7	1096.3	928.9
67.5°	2618.6	2508.5	2270.3	2019.9	1829.2	1624.9	1516.3	1391.9	1229.8	1079.0	918.4
70°	2468.6	2379.6	2122.5	1869.9	1670.8	1481.6	1339.1	1222.2	1068.4	948.5	809.0
72.5°	2101.4	2047.1	1811.1	1581.9	1397.9	1239.6	1131.0	1014.9	876.1	783.4	682.4
75°	1640.7	1563.8	1335.3	1156.6	1008.1	902.5	815.8	711.8	602.4	548.9	510.5
77.5°	1093.3	1017.9	804.5	628.8	523.3	434.3	367.9	294.1	228.5	234.5	252.6
80°	594.1	533.8	384.5	277.5	226.2	183.2	153.8	117.6	86.0	103.3	117.6
82.5°	361.2	316.7	245.8	192.3	157.6	133.5	108.6	80.7	61.8	70.1	85.2
85°	251.1	221.7	175.7	138.0	112.3	89.7	70.1	52.0	49.0	53.5	61.1
87.5°	83.7	104.1	79.2	64.1	61.8	55.8	46.7	37.7	29.4	36.9	47.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
2.5°	89.0	89.7	93.5	95.8	95.8	93.5	108.6	107.1	130.4	131.9	138.0
5°	96.5	97.3	126.7	137.2	138.0	119.1	92.7	89.0	87.5	86.7	89.0
7.5°	109.3	127.4	115.4	82.9	86.0	86.0	87.5	86.7	87.5	103.3	141.8
10°	183.2	137.2	129.7	110.8	89.7	96.5	139.5	140.2	142.5	148.5	149.3
12.5°	161.4	141.0	132.7	133.5	184.0	197.5	190.8	145.5	147.8	151.6	177.2
15°	187.0	184.7	195.3	193.0	187.7	199.8	197.5	236.0	242.8	207.3	208.1
17.5°	191.5	193.0	237.5	243.5	239.0	261.6	247.3	244.3	249.6	245.8	233.7
20°	288.8	321.2	311.4	262.4	270.7	300.1	292.5	251.1	287.3	290.3	269.2
22.5°	302.4	331.0	340.1	367.9	366.4	307.6	316.7	331.0	300.8	287.3	313.7
25°	405.6	433.5	447.9	407.9	369.5	401.9	384.5	329.5	343.1	320.4	320.4
27.5°	504.4	463.7	477.3	459.2	471.2	405.6	386.0	408.7	340.1	346.1	352.9
30°	526.3	516.5	526.3	504.4	472.8	461.4	419.2	400.4	405.6	355.1	350.6
32.5°	563.2	545.9	527.8	488.6	484.1	450.1	420.7	413.2	375.5	356.6	353.6
35°	558.7	518.7	505.9	481.0	445.6	418.5	389.8	368.7	340.8	335.5	331.8
37.5°	544.4	482.6	447.1	423.0	392.8	367.2	326.5	312.2	302.4	292.5	288.0
40°	522.5	444.9	385.3	348.3	317.4	290.3	263.9	250.3	243.5	247.3	251.8
42.5°	484.1	401.1	318.9	276.7	244.3	222.4	205.1	199.1	196.8	200.6	208.1
45°	453.9	346.1	257.1	208.9	181.7	167.4	155.3	150.8	153.8	156.8	160.6
47.5°	440.3	303.9	205.8	157.6	136.5	128.9	121.4	117.6	119.1	121.4	124.4
50°	436.6	279.7	171.9	124.4	110.1	102.5	97.3	95.8	96.5	95.8	97.3
52.5°	437.3	279.7	156.1	109.3	96.5	90.5	86.0	84.4	82.2	81.4	82.2
55°	453.2	287.3	152.3	106.3	94.2	87.5	82.9	82.2	79.2	76.9	76.2
57.5°	501.4	314.4	161.4	112.3	98.0	92.0	87.5	86.7	83.7	79.9	78.4
60°	597.2	374.0	185.5	125.9	107.8	102.5	99.5	98.8	94.2	89.0	84.4
62.5°	697.4	439.6	214.9	140.2	119.1	117.6	118.4	116.9	110.8	99.5	91.2
65°	741.9	465.2	226.2	141.8	119.1	122.1	124.4	125.2	115.4	101.8	91.2
67°	728.4	447.1	214.9	132.7	111.6	114.6	115.4	116.1	106.3	95.0	85.2
67.5°	721.6	439.6	211.1	131.2	110.8	113.1	112.3	112.3	103.3	93.5	83.7
70°	651.5	388.3	186.2	121.4	103.3	100.3	94.2	94.2	87.5	82.2	76.9
72.5°	552.7	329.5	162.1	115.4	98.0	89.7	82.9	82.2	77.7	75.4	72.4
75°	422.2	256.4	142.5	109.3	92.7	82.9	75.4	76.2	71.6	70.9	69.4
77.5°	251.1	174.2	123.7	101.8	88.2	78.4	70.1	71.6	66.4	65.6	65.6
80°	125.2	116.1	102.5	88.2	76.9	69.4	61.1	61.1	57.3	56.5	58.8
82.5°	94.2	87.5	76.2	67.1	60.3	52.0	40.7	45.2	45.2	46.7	48.3
85°	70.1	62.6	54.3	47.5	43.7	39.2	31.7	34.7	35.4	38.5	40.0
87.5°	52.8	44.5	37.7	34.7	33.2	30.2	23.4	27.9	28.7	28.7	30.2
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):

	160°	165°	170°	175°	180°
0°	88.2	88.2	88.2	88.2	88.2
2.5°	138.7	137.2	135.7	135.0	135.0
5°	87.5	85.2	85.2	85.2	84.4
7.5°	145.5	147.8	147.0	147.0	146.3
10°	149.3	148.5	149.3	148.5	149.3
12.5°	203.6	209.6	213.4	214.9	213.4
15°	214.9	214.1	214.9	215.6	214.9
17.5°	259.4	266.2	267.7	266.9	266.9
20°	255.6	261.6	262.4	266.2	262.4
22.5°	300.8	299.3	303.1	301.6	300.1
25°	315.9	302.4	335.5	337.8	335.5
27.5°	351.4	328.7	331.8	331.8	328.7
30°	364.9	355.1	357.4	360.4	359.7
32.5°	337.8	341.6	369.5	374.7	374.0
35°	332.5	337.8	334.0	338.5	353.6
37.5°	312.2	315.2	321.2	326.5	327.2
40°	272.2	284.3	293.3	297.1	300.1
42.5°	217.2	230.0	238.3	242.0	239.0
45°	168.9	177.2	184.0	186.2	184.0
47.5°	129.7	132.7	135.0	135.7	138.0
50°	99.5	99.5	100.3	98.8	98.8
52.5°	83.7	81.4	81.4	79.9	79.9
55°	76.2	74.6	73.9	72.4	72.4
57.5°	76.2	73.1	70.9	68.6	68.6
60°	79.2	73.9	69.4	67.1	66.4
62.5°	82.2	75.4	69.4	66.4	65.6
65°	80.7	74.6	69.4	66.4	65.6
67°	77.7	73.1	69.4	66.4	66.4
67.5°	76.9	73.1	69.4	66.4	65.6
70°	73.9	72.4	68.6	65.6	64.8
72.5°	70.9	69.4	65.6	62.6	61.8
75°	67.9	65.6	62.6	60.3	59.6
77.5°	64.1	61.1	58.1	55.0	53.5
80°	58.1	54.3	50.5	48.3	45.2
82.5°	49.0	48.3	43.7	40.7	37.7
85°	40.7	40.0	36.9	33.2	29.4
87.5°	30.9	31.7	29.4	25.6	18.1
90°	0.0	0.0	0.0	0.0	0.0

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