

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: P157189

Luminaire Tested: **UTLD-E02-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157189
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-T4-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816.9 lumens
Efficiency: N/A
Efficacy: 92.5 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



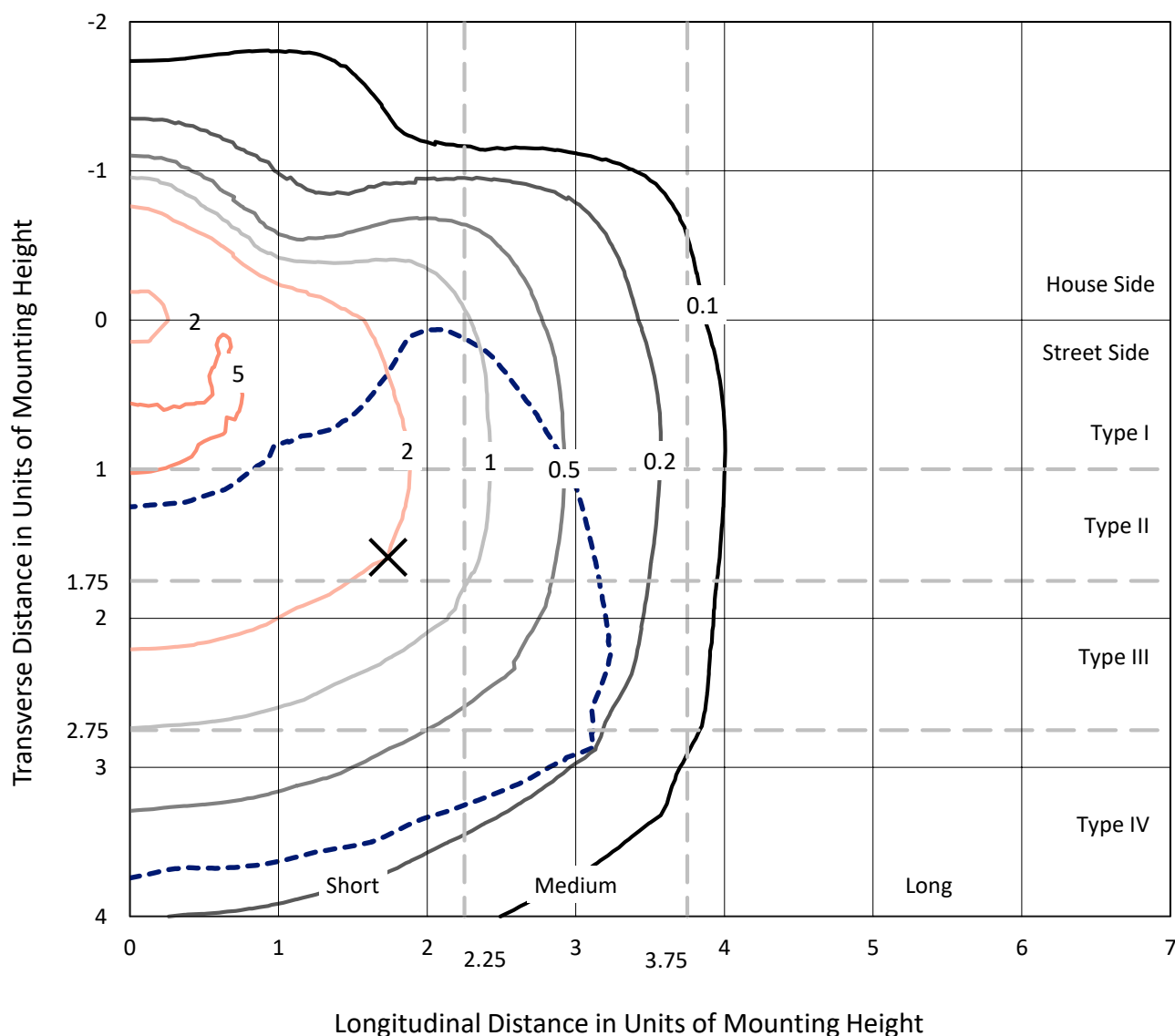
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

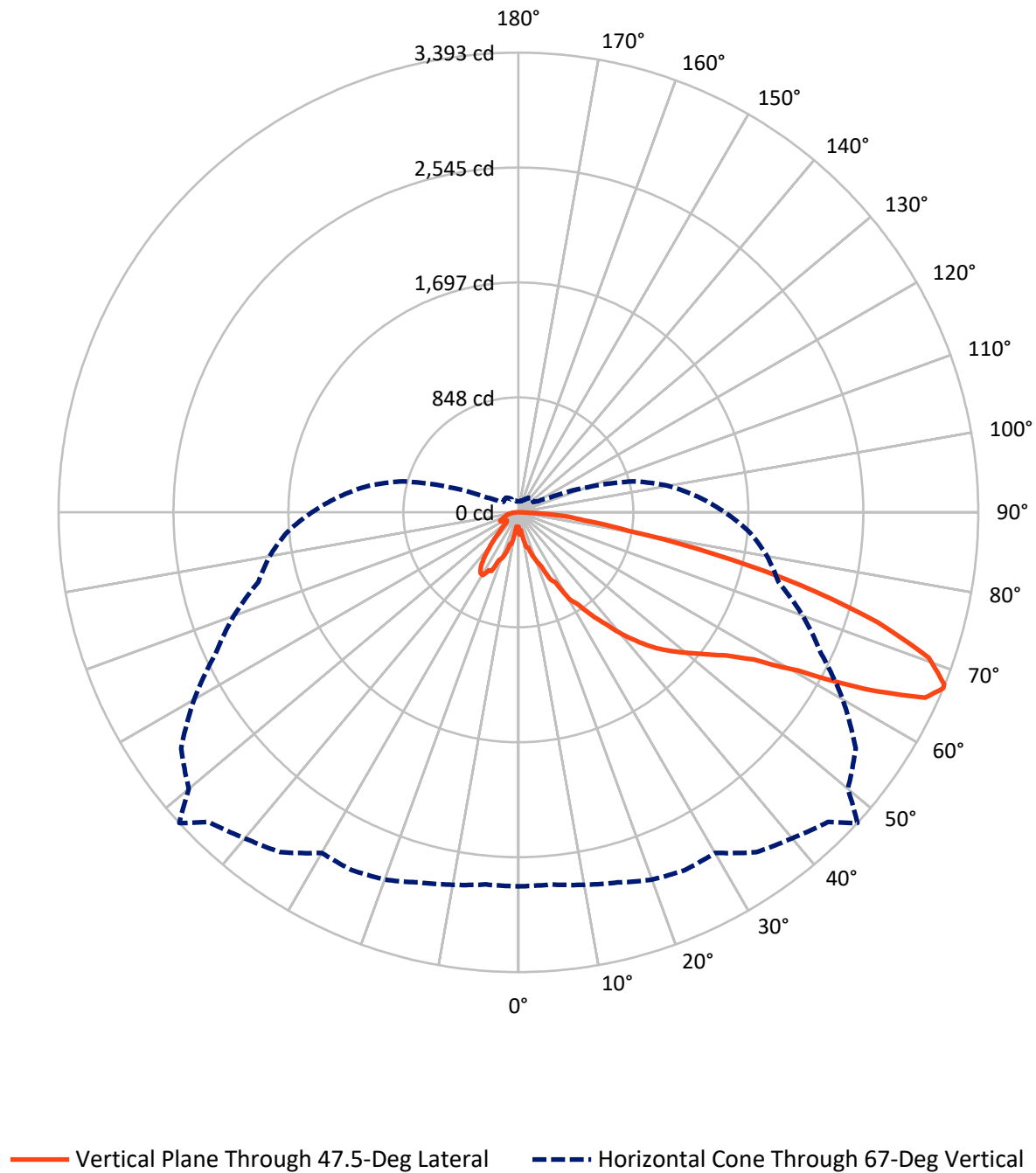


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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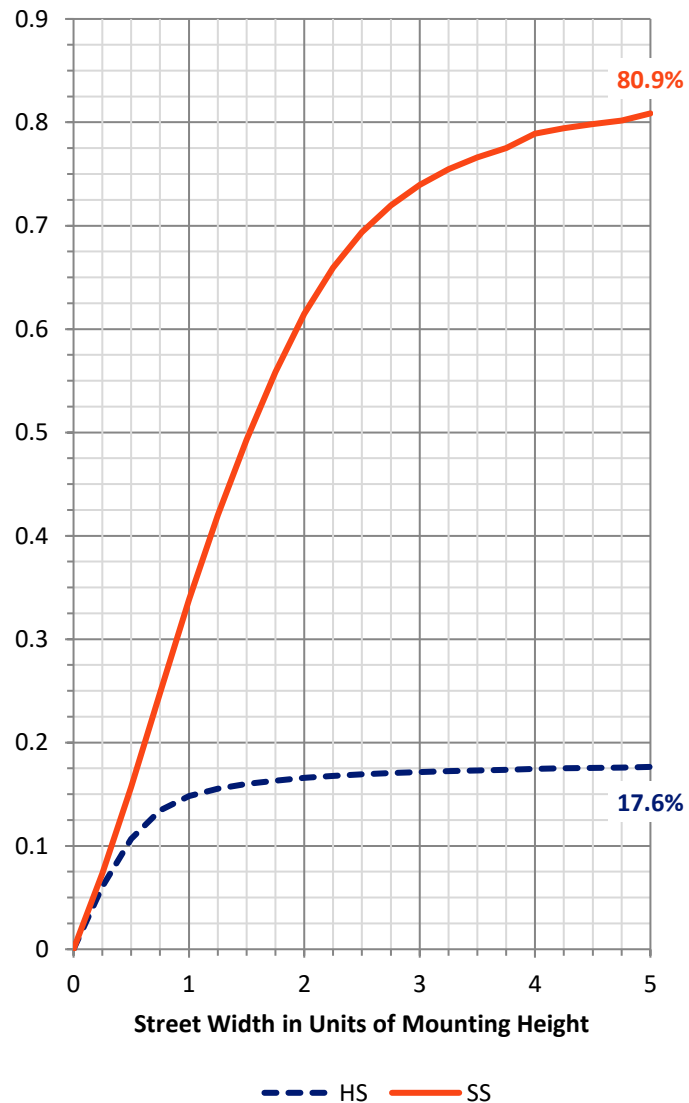
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.6	0.0	864.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3952.3	0.0	3952.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	4816.9	0.0	4816.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.3
10°-20°	79.0	1.6
20°-30°	232.8	4.8
30°-40°	457.7	9.5
40°-50°	639.1	13.3
50°-60°	891.0	18.5
60°-70°	1427.8	29.6
70°-80°	916.0	19.0
80°-90°	159.3	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°	4816.9	100.0
0°-180°	4816.9	100.0

Coefficient of Utilization



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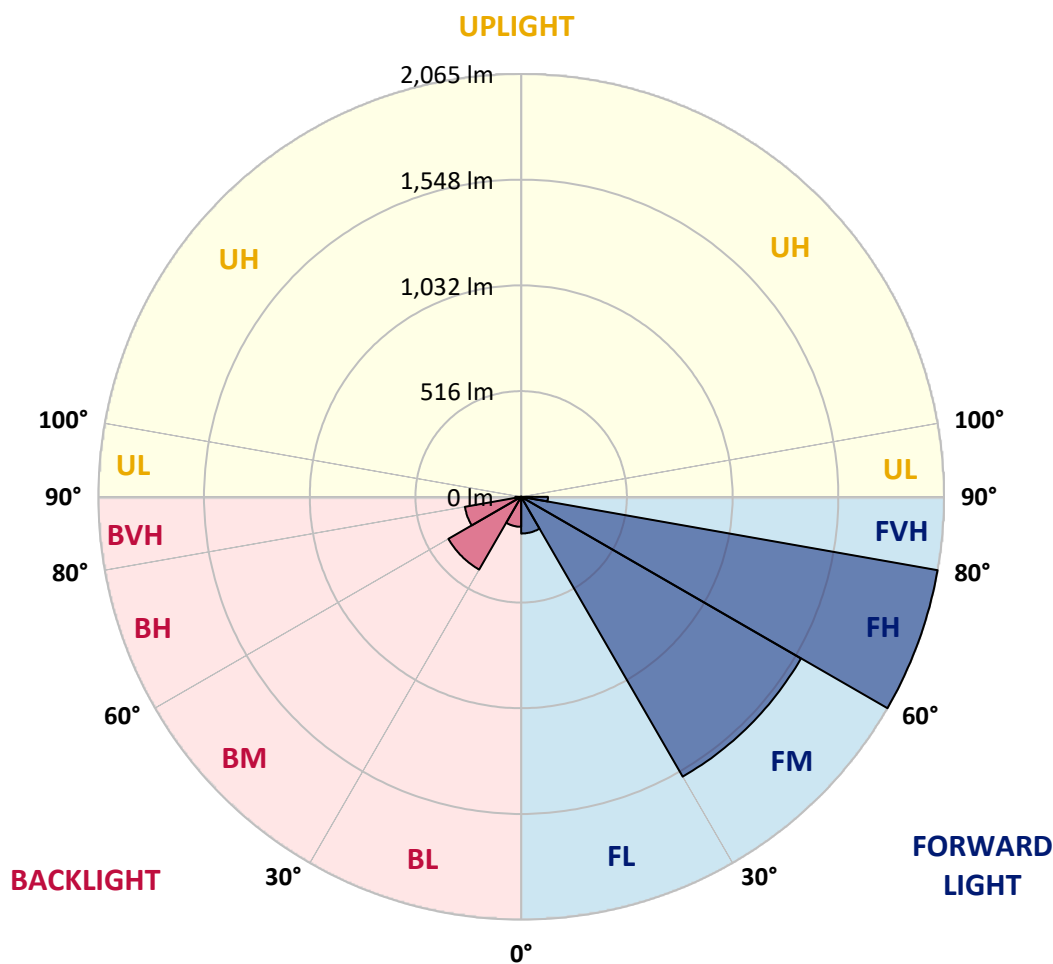
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.4	3.7			
FM	(30°-60°)	1577.7	32.8			
FH	(60°-80°)	2064.6	42.9			G2/5000
FVH	(80°-90°)	130.6	2.7			G2/225
BL	(0°-30°)	146.5	3.0	B1/500		
BM	(30°-60°)	410.2	8.5	B1/1000		
BH	(60°-80°)	279.2	5.8	B1/500		G1/500
BVH	(80°-90°)	28.7	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°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	166.2	167.1	166.2	167.1	167.1	166.2	166.2	166.2	169.0	160.7	164.4
5°	131.5	132.4	132.4	132.4	132.4	132.4	133.3	136.1	133.3	134.3	134.3
7.5°	200.9	202.8	202.8	200.9	201.9	201.9	200.9	143.4	138.8	136.1	133.3
10°	205.5	207.3	207.3	203.7	204.6	205.5	205.5	204.6	202.8	196.4	195.5
12.5°	278.6	279.5	278.6	277.7	275.8	266.7	244.8	212.8	202.8	256.7	261.2
15°	298.7	297.8	295.9	291.4	288.6	284.1	278.6	324.2	318.8	275.8	270.4
17.5°	379.0	379.0	377.2	376.3	364.4	360.8	349.8	343.4	337.0	327.9	333.4
20°	459.4	454.8	414.7	392.7	379.0	420.1	419.2	407.4	417.4	383.6	382.7
22.5°	488.6	485.9	482.2	470.4	466.7	495.0	467.6	459.4	468.5	432.9	432.0
25°	602.8	601.9	585.5	576.3	548.0	533.4	543.4	536.1	510.6	509.6	547.1
27.5°	652.1	645.7	633.9	618.3	646.7	634.8	636.6	574.5	622.9	598.2	588.2
30°	779.1	781.8	760.8	768.1	761.7	705.1	686.8	704.2	701.5	682.3	743.5
32.5°	938.0	937.1	914.3	873.2	817.4	806.5	817.4	801.9	796.4	792.8	811.1
35°	1113.4	1100.6	1022.0	1002.9	971.8	949.0	939.8	900.6	917.0	872.2	933.4
37.5°	1198.3	1200.1	1170.0	1170.0	1137.1	1103.3	1061.3	1065.9	1030.3	1002.9	1045.8
40°	1324.4	1328.9	1300.6	1285.1	1270.5	1217.5	1189.2	1168.2	1167.3	1142.6	1186.4
42.5°	1385.6	1392.9	1367.3	1359.1	1369.1	1334.4	1288.7	1287.8	1293.3	1259.5	1310.7
45°	1448.6	1457.7	1431.2	1442.2	1431.2	1425.7	1364.5	1395.6	1411.1	1373.7	1429.4
47.5°	1522.6	1534.4	1524.4	1518.0	1507.0	1507.0	1462.3	1483.3	1506.1	1474.1	1532.6
50°	1614.8	1623.0	1612.1	1609.3	1592.9	1590.1	1560.9	1575.5	1593.8	1560.9	1630.3
52.5°	1737.2	1739.0	1731.7	1715.3	1690.6	1696.1	1678.7	1679.7	1687.0	1665.0	1741.8
55°	1891.5	1893.4	1892.5	1854.1	1876.9	1834.9	1806.6	1812.1	1808.4	1791.1	1864.1
57.5°	2084.3	2096.1	2101.6	2067.8	2088.8	2011.2	1994.8	1984.7	1997.5	1958.2	2047.7
60°	2391.2	2409.4	2400.3	2394.8	2378.4	2306.2	2285.2	2314.4	2300.7	2266.0	2372.9
62.5°	2784.8	2780.2	2803.1	2799.4	2804.0	2731.8	2682.5	2753.8	2777.5	2791.2	2872.5
65°	2886.2	2887.1	2916.3	2923.6	2959.3	2951.9	2918.2	3042.4	3082.6	3140.1	3298.1
67°	2760.1	2756.5	2791.2	2827.7	2884.4	2912.7	2901.7	3061.6	3140.1	3231.4	3393.1
67.5°	2720.9	2713.6	2751.0	2798.5	2857.0	2891.7	2883.4	3048.8	3131.0	3230.5	3388.5
70°	2464.2	2438.6	2486.1	2550.1	2603.0	2682.5	2686.2	2843.3	2957.4	3064.3	3211.3
72.5°	2135.4	2101.6	2144.5	2193.0	2232.2	2324.5	2330.0	2432.3	2549.2	2635.9	2772.0
75°	1695.2	1651.3	1691.5	1715.3	1729.9	1804.8	1811.2	1900.7	1986.5	2053.2	2158.2
77.5°	1048.5	1019.3	1052.2	1091.5	1140.8	1173.7	1191.9	1246.7	1340.8	1415.7	1472.3
80°	525.2	546.2	580.9	633.9	675.0	732.5	756.3	759.9	799.2	793.7	829.3
82.5°	365.3	388.2	437.5	471.3	484.1	502.3	531.6	522.4	495.9	491.4	487.7
85°	93.2	145.2	266.7	323.3	336.1	355.3	381.8	397.3	356.2	322.4	328.8
87.5°	25.6	31.1	91.3	135.2	146.1	107.8	139.7	167.1	108.7	72.2	75.8
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	148.0	131.5	124.2	113.3	110.5	109.6	107.8	107.8	106.9	106.9	106.9
5°	137.0	151.6	164.4	168.1	160.7	119.6	116.0	109.6	108.7	108.7	109.6
7.5°	134.3	136.1	137.0	131.5	153.4	154.4	111.4	109.6	109.6	109.6	110.5
10°	195.5	145.2	182.7	189.1	193.6	225.6	222.9	169.0	162.6	166.2	171.7
12.5°	263.0	270.4	241.1	195.5	200.0	201.9	226.5	175.4	165.3	171.7	207.3
15°	269.4	268.5	281.3	315.1	274.0	265.8	283.1	243.0	241.1	226.5	264.9
17.5°	381.8	327.0	317.8	320.6	293.2	280.4	260.3	282.2	255.7	248.4	243.0
20°	396.4	363.5	347.1	404.6	440.2	402.8	382.7	389.1	366.3	352.6	349.8
22.5°	431.1	469.5	485.0	448.5	448.5	443.0	483.2	453.9	441.1	426.5	420.1
25°	561.7	499.6	548.0	587.3	568.1	553.5	523.3	533.4	492.3	491.4	473.1
27.5°	614.7	651.2	633.9	637.5	607.4	654.0	633.9	611.9	573.6	566.3	575.4
30°	750.8	713.3	729.8	742.6	728.9	726.1	705.1	674.1	646.7	626.6	623.8
32.5°	806.5	832.1	824.8	809.2	854.9	868.6	855.8	782.7	758.1	706.0	706.0
35°	917.0	904.2	968.2	952.6	934.4	917.0	905.1	854.9	801.0	746.2	731.6
37.5°	1038.5	1052.2	1050.4	1020.2	989.2	957.2	944.4	896.0	835.7	786.4	720.6
40°	1163.6	1138.0	1125.2	1098.8	1042.1	1013.8	994.6	967.2	875.0	819.3	723.4
42.5°	1280.5	1263.2	1202.9	1163.6	1122.5	1081.4	1027.5	1005.6	912.4	841.2	714.2
45°	1388.3	1358.2	1293.3	1243.1	1175.5	1142.6	1066.8	1025.7	953.5	843.0	689.6
47.5°	1478.7	1447.7	1381.9	1297.0	1234.8	1187.4	1116.1	1080.5	992.8	864.0	689.6
50°	1566.4	1530.8	1459.5	1339.9	1284.2	1204.7	1166.3	1116.1	1042.1	895.1	710.6
52.5°	1662.3	1619.4	1534.4	1398.3	1334.4	1256.8	1215.7	1173.7	1106.1	938.0	745.3
55°	1781.0	1729.9	1619.4	1487.8	1396.5	1326.2	1286.9	1243.1	1172.7	987.3	788.2
57.5°	1951.8	1879.7	1749.1	1628.5	1517.1	1456.8	1401.1	1340.8	1279.6	1074.1	858.5
60°	2244.1	2165.6	1997.5	1888.8	1767.3	1687.0	1598.4	1550.9	1456.8	1239.4	974.5
62.5°	2730.0	2629.5	2470.6	2266.0	2092.5	1929.0	1836.7	1768.2	1628.5	1384.6	1123.4
65°	3090.8	2951.0	2738.2	2474.3	2266.0	2022.2	1932.6	1792.0	1624.9	1394.7	1166.3
67°	3173.9	3037.8	2763.8	2464.2	2234.1	1986.5	1864.1	1716.2	1523.5	1328.0	1125.2
67.5°	3172.1	3038.7	2750.1	2446.9	2215.8	1968.3	1836.7	1686.0	1489.7	1307.0	1112.5
70°	2990.3	2882.5	2571.1	2265.1	2024.0	1794.7	1622.1	1480.5	1294.2	1149.0	980.0
72.5°	2545.5	2479.7	2193.9	1916.2	1693.4	1501.5	1370.0	1229.4	1061.3	949.0	826.6
75°	1987.5	1894.3	1617.5	1401.1	1221.1	1093.3	988.2	862.2	729.8	664.9	618.3
77.5°	1324.4	1233.0	974.5	761.7	633.9	526.1	445.7	356.2	276.7	284.1	306.0
80°	719.7	646.7	465.8	336.1	274.0	221.9	186.3	142.5	104.1	125.1	142.5
82.5°	437.5	383.6	297.8	232.9	190.9	161.7	131.5	97.7	74.9	84.9	103.2
85°	304.1	268.5	212.8	167.1	136.1	108.7	84.9	63.0	59.4	64.8	74.0
87.5°	101.4	126.0	95.9	77.6	74.9	67.6	56.6	45.7	35.6	44.8	57.5
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°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	107.8	108.7	113.3	116.0	116.0	113.3	131.5	129.7	158.0	159.8	167.1
5°	116.9	117.8	153.4	166.2	167.1	144.3	112.3	107.8	105.9	105.0	107.8
7.5°	132.4	154.4	139.7	100.5	104.1	104.1	105.9	105.0	105.9	125.1	171.7
10°	221.9	166.2	157.1	134.3	108.7	116.9	169.0	169.9	172.6	179.9	180.8
12.5°	195.5	170.8	160.7	161.7	222.9	239.3	231.1	176.3	179.0	183.6	214.6
15°	226.5	223.8	236.6	233.8	227.4	242.0	239.3	285.9	294.1	251.2	252.1
17.5°	232.0	233.8	287.7	295.0	289.5	316.9	299.6	295.9	302.3	297.8	283.1
20°	349.8	389.1	377.2	317.8	327.9	363.5	354.4	304.1	348.0	351.6	326.1
22.5°	366.3	401.0	411.9	445.7	443.9	372.6	383.6	401.0	364.4	348.0	380.0
25°	491.4	525.2	542.5	494.1	447.5	486.8	465.8	399.1	415.6	388.2	388.2
27.5°	611.0	561.7	578.2	556.2	570.8	491.4	467.6	495.0	411.9	419.2	427.4
30°	637.5	625.6	637.5	611.0	572.7	559.0	507.8	485.0	491.4	430.2	424.7
32.5°	682.3	661.3	639.3	591.9	586.4	545.3	509.6	500.5	454.8	432.0	428.4
35°	676.8	628.4	612.9	582.7	539.8	506.9	472.2	446.6	412.8	406.4	401.9
37.5°	659.4	584.5	541.6	512.4	475.9	444.8	395.5	378.1	366.3	354.4	348.9
40°	633.0	538.9	466.7	422.0	384.5	351.6	319.7	303.2	295.0	299.6	305.1
42.5°	586.4	485.9	386.3	335.2	295.9	269.4	248.4	241.1	238.4	243.0	252.1
45°	549.8	419.2	311.5	253.0	220.1	202.8	188.2	182.7	186.3	190.0	194.5
47.5°	533.4	368.1	249.3	190.9	165.3	156.2	147.0	142.5	144.3	147.0	150.7
50°	528.8	338.9	208.2	150.7	133.3	124.2	117.8	116.0	116.9	116.0	117.8
52.5°	529.7	338.9	189.1	132.4	116.9	109.6	104.1	102.3	99.6	98.6	99.6
55°	548.9	348.0	184.5	128.8	114.2	105.9	100.5	99.6	95.9	93.2	92.2
57.5°	607.4	380.9	195.5	136.1	118.7	111.4	105.9	105.0	101.4	96.8	95.0
60°	723.4	453.0	224.7	152.5	130.6	124.2	120.6	119.6	114.2	107.8	102.3
62.5°	844.8	532.5	260.3	169.9	144.3	142.5	143.4	141.6	134.3	120.6	110.5
65°	898.7	563.5	274.0	171.7	144.3	148.0	150.7	151.6	139.7	123.3	110.5
67°	882.3	541.6	260.3	160.7	135.2	138.8	139.7	140.7	128.8	115.1	103.2
67.5°	874.1	532.5	255.7	158.9	134.3	137.0	136.1	136.1	125.1	113.3	101.4
70°	789.1	470.4	225.6	147.0	125.1	121.5	114.2	114.2	105.9	99.6	93.2
72.5°	669.5	399.1	196.4	139.7	118.7	108.7	100.5	99.6	94.1	91.3	87.7
75°	511.5	310.5	172.6	132.4	112.3	100.5	91.3	92.2	86.8	85.9	84.0
77.5°	304.1	211.0	149.8	123.3	106.9	95.0	84.9	86.8	80.4	79.5	79.5
80°	151.6	140.7	124.2	106.9	93.2	84.0	74.0	74.0	69.4	68.5	71.2
82.5°	114.2	105.9	92.2	81.3	73.1	63.0	49.3	54.8	54.8	56.6	58.5
85°	84.9	75.8	65.8	57.5	53.0	47.5	38.4	42.0	42.9	46.6	48.4
87.5°	63.9	53.9	45.7	42.0	40.2	36.5	28.3	33.8	34.7	34.7	36.5
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):

	160°	165°	170°	175°	180°
0°	106.9	106.9	106.9	106.9	106.9
2.5°	168.1	166.2	164.4	163.5	163.5
5°	105.9	103.2	103.2	103.2	102.3
7.5°	176.3	179.0	178.1	178.1	177.2
10°	180.8	179.9	180.8	179.9	180.8
12.5°	246.6	253.9	258.5	260.3	258.5
15°	260.3	259.4	260.3	261.2	260.3
17.5°	314.2	322.4	324.2	323.3	323.3
20°	309.6	316.9	317.8	322.4	317.8
22.5°	364.4	362.6	367.2	365.3	363.5
25°	382.7	366.3	406.4	409.2	406.4
27.5°	425.6	398.2	401.9	401.9	398.2
30°	442.1	430.2	432.9	436.6	435.7
32.5°	409.2	413.7	447.5	453.9	453.0
35°	402.8	409.2	404.6	410.1	428.4
37.5°	378.1	381.8	389.1	395.5	396.4
40°	329.7	344.3	355.3	359.9	363.5
42.5°	263.0	278.6	288.6	293.2	289.5
45°	204.6	214.6	222.9	225.6	222.9
47.5°	157.1	160.7	163.5	164.4	167.1
50°	120.6	120.6	121.5	119.6	119.6
52.5°	101.4	98.6	98.6	96.8	96.8
55°	92.2	90.4	89.5	87.7	87.7
57.5°	92.2	88.6	85.9	83.1	83.1
60°	95.9	89.5	84.0	81.3	80.4
62.5°	99.6	91.3	84.0	80.4	79.5
65°	97.7	90.4	84.0	80.4	79.5
67°	94.1	88.6	84.0	80.4	80.4
67.5°	93.2	88.6	84.0	80.4	79.5
70°	89.5	87.7	83.1	79.5	78.5
72.5°	85.9	84.0	79.5	75.8	74.9
75°	82.2	79.5	75.8	73.1	72.2
77.5°	77.6	74.0	70.3	66.7	64.8
80°	70.3	65.8	61.2	58.5	54.8
82.5°	59.4	58.5	53.0	49.3	45.7
85°	49.3	48.4	44.8	40.2	35.6
87.5°	37.4	38.4	35.6	31.1	21.9
90°	0.0	0.0	0.0	0.0	0.0

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