

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: P157178

Luminaire Tested: **UTLD-E01-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157178
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-E01-LED-E-U-T4-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
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



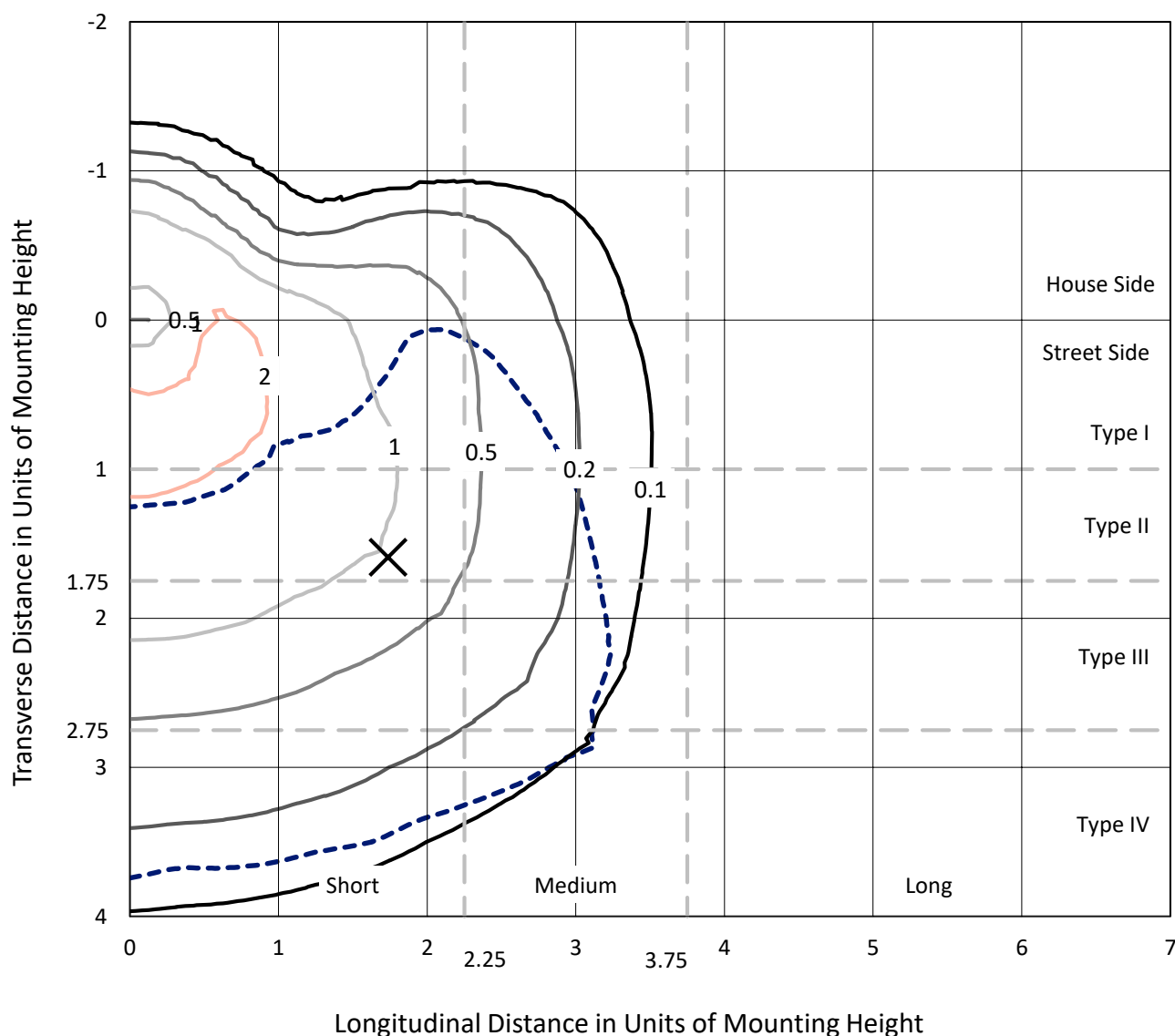
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

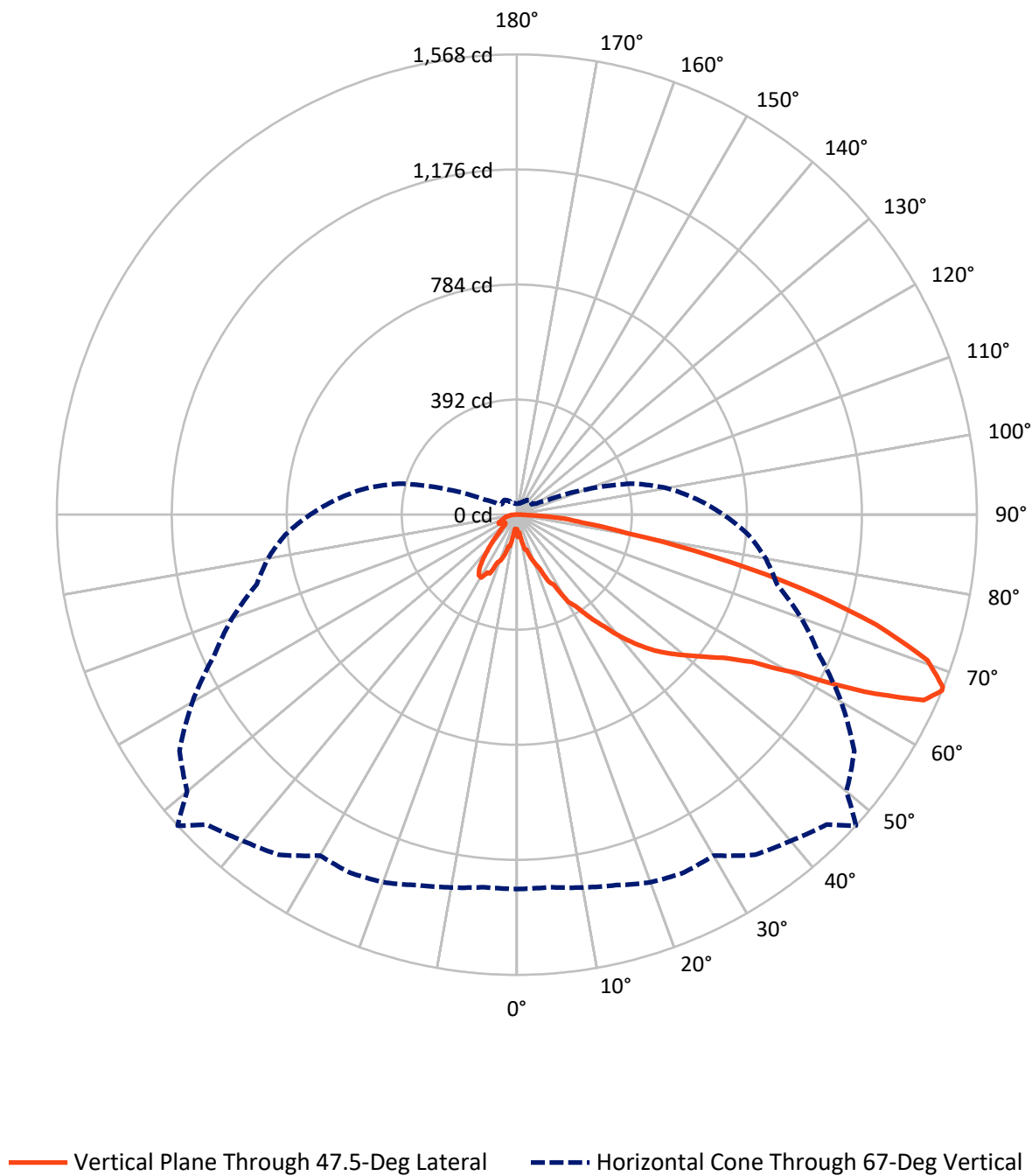


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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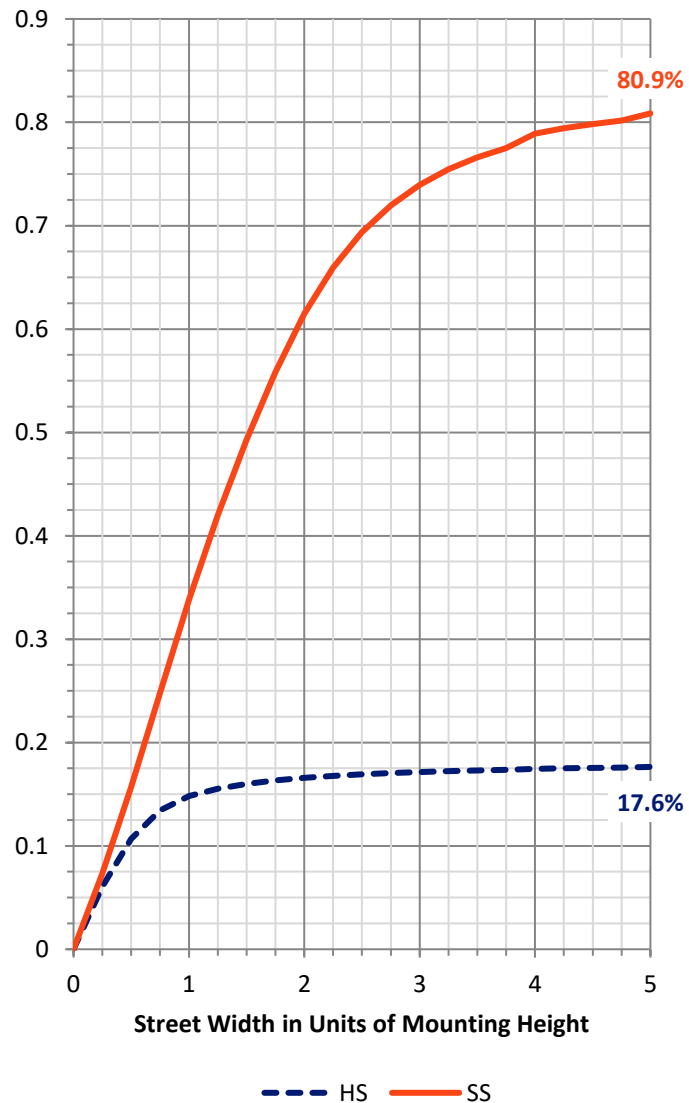
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.5	0.0	399.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	1826.1	0.0	1826.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	2225.6	0.0	2225.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.3
10°-20°	36.5	1.6
20°-30°	107.6	4.8
30°-40°	211.5	9.5
40°-50°	295.3	13.3
50°-60°	411.7	18.5
60°-70°	659.7	29.6
70°-80°	423.2	19.0
80°-90°	73.6	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°	2225.6	100.0
0°-180°	2225.6	100.0

Coefficient of Utilization



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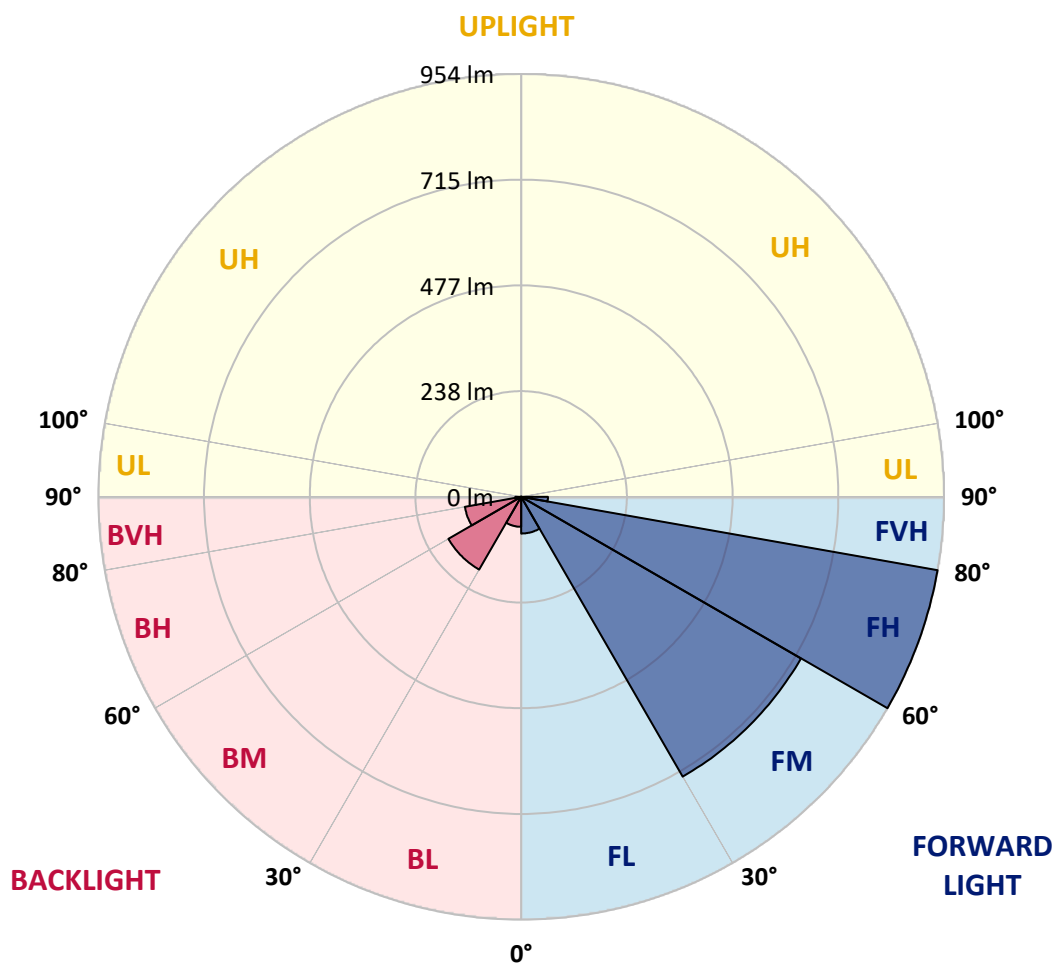
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.9	3.7			
FM	(30°-60°)	728.9	32.8			
FH	(60°-80°)	953.9	42.9			G1/1800
FVH	(80°-90°)	60.3	2.7			G1/100
BL	(0°-30°)	67.7	3.0	B0/110		
BM	(30°-60°)	189.5	8.5	B0/220		
BH	(60°-80°)	129.0	5.8	B1/500		G1/500
BVH	(80°-90°)	13.3	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	76.8	77.2	76.8	77.2	77.2	76.8	76.8	76.8	78.1	74.3	76.0
5°	60.8	61.2	61.2	61.2	61.2	61.2	61.6	62.9	61.6	62.0	62.0
7.5°	92.8	93.7	93.7	92.8	93.3	93.3	92.8	66.3	64.1	62.9	61.6
10°	94.9	95.8	95.8	94.1	94.5	94.9	94.9	94.5	93.7	90.7	90.3
12.5°	128.7	129.1	128.7	128.3	127.4	123.2	113.1	98.3	93.7	118.6	120.7
15°	138.0	137.6	136.7	134.6	133.4	131.2	128.7	149.8	147.3	127.4	124.9
17.5°	175.1	175.1	174.3	173.9	168.4	166.7	161.6	158.7	155.7	151.5	154.0
20°	212.3	210.2	191.6	181.5	175.1	194.1	193.7	188.2	192.9	177.2	176.8
22.5°	225.8	224.5	222.8	217.3	215.6	228.7	216.1	212.3	216.5	200.0	199.6
25°	278.5	278.1	270.5	266.3	253.2	246.4	251.1	247.7	235.9	235.5	252.8
27.5°	301.3	298.4	292.9	285.7	298.8	293.3	294.1	265.4	287.8	276.4	271.8
30°	360.0	361.2	351.5	354.9	351.9	325.8	317.3	325.4	324.1	315.2	343.5
32.5°	433.4	433.0	422.4	403.4	377.7	372.6	377.7	370.5	368.0	366.3	374.7
35°	514.4	508.5	472.2	463.4	449.0	438.5	434.2	416.1	423.7	403.0	431.3
37.5°	553.7	554.5	540.6	540.6	525.4	509.8	490.4	492.5	476.0	463.4	483.2
40°	611.9	614.0	600.9	593.7	587.0	562.5	549.4	539.7	539.3	527.9	548.2
42.5°	640.2	643.5	631.7	627.9	632.6	616.5	595.4	595.0	597.5	581.9	605.6
45°	669.3	673.5	661.3	666.3	661.3	658.7	630.5	644.8	652.0	634.7	660.4
47.5°	703.5	709.0	704.3	701.4	696.3	696.3	675.6	685.3	695.9	681.1	708.1
50°	746.1	749.9	744.8	743.6	736.0	734.7	721.2	727.9	736.4	721.2	753.3
52.5°	802.6	803.5	800.1	792.5	781.1	783.6	775.6	776.0	779.4	769.3	804.7
55°	874.0	874.8	874.4	856.7	867.2	847.8	834.7	837.2	835.6	827.5	861.3
57.5°	963.0	968.5	971.0	955.4	965.1	929.2	921.6	917.0	922.9	904.8	946.1
60°	1104.8	1113.2	1109.0	1106.5	1098.9	1065.5	1055.8	1069.3	1063.0	1047.0	1096.3
62.5°	1286.7	1284.6	1295.1	1293.4	1295.5	1262.2	1239.4	1272.3	1283.3	1289.6	1327.2
65°	1333.5	1333.9	1347.4	1350.8	1367.3	1363.9	1348.3	1405.7	1424.2	1450.8	1523.8
67°	1275.3	1273.6	1289.6	1306.5	1332.7	1345.7	1340.7	1414.5	1450.8	1493.0	1567.7
67.5°	1257.1	1253.7	1271.1	1293.0	1320.0	1336.0	1332.2	1408.6	1446.6	1492.6	1565.6
70°	1138.5	1126.7	1148.7	1178.2	1202.7	1239.4	1241.1	1313.7	1366.4	1415.8	1483.7
72.5°	986.6	971.0	990.8	1013.2	1031.4	1074.0	1076.5	1123.8	1177.8	1217.9	1280.8
75°	783.2	763.0	781.5	792.5	799.3	833.9	836.8	878.2	917.8	948.6	997.2
77.5°	484.5	470.9	486.1	504.3	527.1	542.3	550.7	576.0	619.5	654.1	680.3
80°	242.6	252.4	268.4	292.9	311.9	338.4	349.4	351.1	369.2	366.7	383.2
82.5°	168.8	179.3	202.1	217.7	223.7	232.1	245.6	241.4	229.1	227.0	225.3
85°	43.0	67.1	123.2	149.4	155.3	164.2	176.4	183.6	164.6	149.0	151.9
87.5°	11.8	14.3	42.2	62.5	67.5	49.8	64.6	77.2	50.2	33.3	35.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	68.4	60.8	57.4	52.3	51.1	50.6	49.8	49.8	49.4	49.4	49.4
5°	63.3	70.1	76.0	77.6	74.3	55.3	53.6	50.6	50.2	50.2	50.6
7.5°	62.0	62.9	63.3	60.8	70.9	71.3	51.5	50.6	50.6	50.6	51.1
10°	90.3	67.1	84.4	87.4	89.5	104.2	103.0	78.1	75.1	76.8	79.3
12.5°	121.5	124.9	111.4	90.3	92.4	93.3	104.7	81.0	76.4	79.3	95.8
15°	124.5	124.1	130.0	145.6	126.6	122.8	130.8	112.3	111.4	104.7	122.4
17.5°	176.4	151.1	146.9	148.1	135.5	129.6	120.3	130.4	118.2	114.8	112.3
20°	183.1	168.0	160.4	186.9	203.4	186.1	176.8	179.8	169.2	162.9	161.6
22.5°	199.2	216.9	224.1	207.2	207.2	204.7	223.2	209.7	203.8	197.1	194.1
25°	259.5	230.8	253.2	271.3	262.5	255.7	241.8	246.4	227.5	227.0	218.6
27.5°	284.0	300.9	292.9	294.6	280.6	302.1	292.9	282.7	265.0	261.6	265.9
30°	346.9	329.6	337.2	343.1	336.8	335.5	325.8	311.4	298.8	289.5	288.2
32.5°	372.6	384.4	381.1	373.9	395.0	401.3	395.4	361.7	350.3	326.2	326.2
35°	423.7	417.8	447.3	440.1	431.7	423.7	418.2	395.0	370.1	344.8	338.0
37.5°	479.8	486.1	485.3	471.4	457.0	442.3	436.3	414.0	386.1	363.3	333.0
40°	537.6	525.8	519.9	507.7	481.5	468.4	459.6	446.9	404.3	378.5	334.2
42.5°	591.6	583.6	555.8	537.6	518.6	499.6	474.7	464.6	421.6	388.7	330.0
45°	641.4	627.5	597.5	574.3	543.1	527.9	492.9	473.9	440.6	389.5	318.6
47.5°	683.2	668.9	638.5	599.2	570.5	548.6	515.7	499.2	458.7	399.2	318.6
50°	723.7	707.3	674.3	619.1	593.3	556.6	538.9	515.7	481.5	413.6	328.3
52.5°	768.0	748.2	709.0	646.1	616.5	580.7	561.7	542.3	511.0	433.4	344.3
55°	822.9	799.3	748.2	687.4	645.2	612.7	594.6	574.3	541.8	456.2	364.2
57.5°	901.8	868.5	808.1	752.4	700.9	673.1	647.3	619.5	591.2	496.3	396.7
60°	1036.8	1000.6	922.9	872.7	816.6	779.4	738.5	716.5	673.1	572.6	450.3
62.5°	1261.3	1214.9	1141.5	1047.0	966.8	891.3	848.6	817.0	752.4	639.7	519.1
65°	1428.0	1363.5	1265.1	1143.2	1047.0	934.3	892.9	828.0	750.7	644.4	538.9
67°	1466.4	1403.6	1277.0	1138.5	1032.2	917.8	861.3	792.9	703.9	613.6	519.9
67.5°	1465.6	1404.0	1270.6	1130.5	1023.8	909.4	848.6	779.0	688.3	603.9	514.0
70°	1381.6	1331.8	1187.9	1046.5	935.1	829.2	749.5	684.1	598.0	530.9	452.8
72.5°	1176.1	1145.7	1013.6	885.3	782.4	693.8	633.0	568.0	490.4	438.5	381.9
75°	918.3	875.2	747.4	647.3	564.2	505.1	456.6	398.4	337.2	307.2	285.7
77.5°	611.9	569.7	450.3	351.9	292.9	243.1	205.9	164.6	127.9	131.2	141.4
80°	332.5	298.8	215.2	155.3	126.6	102.5	86.1	65.8	48.1	57.8	65.8
82.5°	202.1	177.2	137.6	107.6	88.2	74.7	60.8	45.2	34.6	39.2	47.7
85°	140.5	124.1	98.3	77.2	62.9	50.2	39.2	29.1	27.4	30.0	34.2
87.5°	46.8	58.2	44.3	35.9	34.6	31.2	26.2	21.1	16.5	20.7	26.6
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°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	49.8	50.2	52.3	53.6	53.6	52.3	60.8	59.9	73.0	73.8	77.2
5°	54.0	54.4	70.9	76.8	77.2	66.7	51.9	49.8	49.0	48.5	49.8
7.5°	61.2	71.3	64.6	46.4	48.1	48.1	49.0	48.5	49.0	57.8	79.3
10°	102.5	76.8	72.6	62.0	50.2	54.0	78.1	78.5	79.8	83.1	83.6
12.5°	90.3	78.9	74.3	74.7	103.0	110.6	106.8	81.4	82.7	84.8	99.2
15°	104.7	103.4	109.3	108.0	105.1	111.8	110.6	132.1	135.9	116.0	116.5
17.5°	107.2	108.0	132.9	136.3	133.8	146.4	138.4	136.7	139.7	137.6	130.8
20°	161.6	179.8	174.3	146.9	151.5	168.0	163.7	140.5	160.8	162.5	150.7
22.5°	169.2	185.3	190.3	205.9	205.1	172.2	177.2	185.3	168.4	160.8	175.6
25°	227.0	242.6	250.7	228.3	206.8	224.9	215.2	184.4	192.0	179.3	179.3
27.5°	282.3	259.5	267.1	257.0	263.7	227.0	216.1	228.7	190.3	193.7	197.5
30°	294.6	289.1	294.6	282.3	264.6	258.3	234.6	224.1	227.0	198.8	196.2
32.5°	315.2	305.5	295.4	273.5	270.9	251.9	235.5	231.3	210.2	199.6	197.9
35°	312.7	290.3	283.2	269.2	249.4	234.2	218.2	206.4	190.7	187.8	185.7
37.5°	304.7	270.1	250.2	236.7	219.9	205.5	182.7	174.7	169.2	163.7	161.2
40°	292.4	249.0	215.6	195.0	177.7	162.5	147.7	140.1	136.3	138.4	140.9
42.5°	270.9	224.5	178.5	154.9	136.7	124.5	114.8	111.4	110.1	112.3	116.5
45°	254.0	193.7	143.9	116.9	101.7	93.7	86.9	84.4	86.1	87.8	89.9
47.5°	246.4	170.1	115.2	88.2	76.4	72.2	67.9	65.8	66.7	67.9	69.6
50°	244.3	156.6	96.2	69.6	61.6	57.4	54.4	53.6	54.0	53.6	54.4
52.5°	244.8	156.6	87.4	61.2	54.0	50.6	48.1	47.3	46.0	45.6	46.0
55°	253.6	160.8	85.2	59.5	52.7	49.0	46.4	46.0	44.3	43.0	42.6
57.5°	280.6	176.0	90.3	62.9	54.9	51.5	49.0	48.5	46.8	44.7	43.9
60°	334.2	209.3	103.8	70.5	60.3	57.4	55.7	55.3	52.7	49.8	47.3
62.5°	390.3	246.0	120.3	78.5	66.7	65.8	66.3	65.4	62.0	55.7	51.1
65°	415.2	260.4	126.6	79.3	66.7	68.4	69.6	70.1	64.6	57.0	51.1
67°	407.6	250.2	120.3	74.3	62.5	64.1	64.6	65.0	59.5	53.2	47.7
67.5°	403.8	246.0	118.2	73.4	62.0	63.3	62.9	62.9	57.8	52.3	46.8
70°	364.6	217.3	104.2	67.9	57.8	56.1	52.7	52.7	49.0	46.0	43.0
72.5°	309.3	184.4	90.7	64.6	54.9	50.2	46.4	46.0	43.5	42.2	40.5
75°	236.3	143.5	79.8	61.2	51.9	46.4	42.2	42.6	40.1	39.7	38.8
77.5°	140.5	97.5	69.2	57.0	49.4	43.9	39.2	40.1	37.1	36.7	36.7
80°	70.1	65.0	57.4	49.4	43.0	38.8	34.2	34.2	32.1	31.6	32.9
82.5°	52.7	49.0	42.6	37.6	33.8	29.1	22.8	25.3	25.3	26.2	27.0
85°	39.2	35.0	30.4	26.6	24.5	21.9	17.7	19.4	19.8	21.5	22.4
87.5°	29.5	24.9	21.1	19.4	18.6	16.9	13.1	15.6	16.0	16.0	16.9
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°	49.4	49.4	49.4	49.4	49.4
2.5°	77.6	76.8	76.0	75.5	75.5
5°	49.0	47.7	47.7	47.7	47.3
7.5°	81.4	82.7	82.3	82.3	81.9
10°	83.6	83.1	83.6	83.1	83.6
12.5°	113.9	117.3	119.4	120.3	119.4
15°	120.3	119.8	120.3	120.7	120.3
17.5°	145.2	149.0	149.8	149.4	149.4
20°	143.1	146.4	146.9	149.0	146.9
22.5°	168.4	167.5	169.6	168.8	168.0
25°	176.8	169.2	187.8	189.1	187.8
27.5°	196.6	184.0	185.7	185.7	184.0
30°	204.2	198.8	200.0	201.7	201.3
32.5°	189.1	191.2	206.8	209.7	209.3
35°	186.1	189.1	186.9	189.5	197.9
37.5°	174.7	176.4	179.8	182.7	183.1
40°	152.3	159.1	164.2	166.3	168.0
42.5°	121.5	128.7	133.4	135.5	133.8
45°	94.5	99.2	103.0	104.2	103.0
47.5°	72.6	74.3	75.5	76.0	77.2
50°	55.7	55.7	56.1	55.3	55.3
52.5°	46.8	45.6	45.6	44.7	44.7
55°	42.6	41.8	41.4	40.5	40.5
57.5°	42.6	40.9	39.7	38.4	38.4
60°	44.3	41.4	38.8	37.6	37.1
62.5°	46.0	42.2	38.8	37.1	36.7
65°	45.2	41.8	38.8	37.1	36.7
67°	43.5	40.9	38.8	37.1	37.1
67.5°	43.0	40.9	38.8	37.1	36.7
70°	41.4	40.5	38.4	36.7	36.3
72.5°	39.7	38.8	36.7	35.0	34.6
75°	38.0	36.7	35.0	33.8	33.3
77.5°	35.9	34.2	32.5	30.8	30.0
80°	32.5	30.4	28.3	27.0	25.3
82.5°	27.4	27.0	24.5	22.8	21.1
85°	22.8	22.4	20.7	18.6	16.5
87.5°	17.3	17.7	16.5	14.3	10.1
90°	0.0	0.0	0.0	0.0	0.0

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