

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: P157165

Luminaire Tested: **UTLD-F02-LED-E-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157165
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33662)
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-T3
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - 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



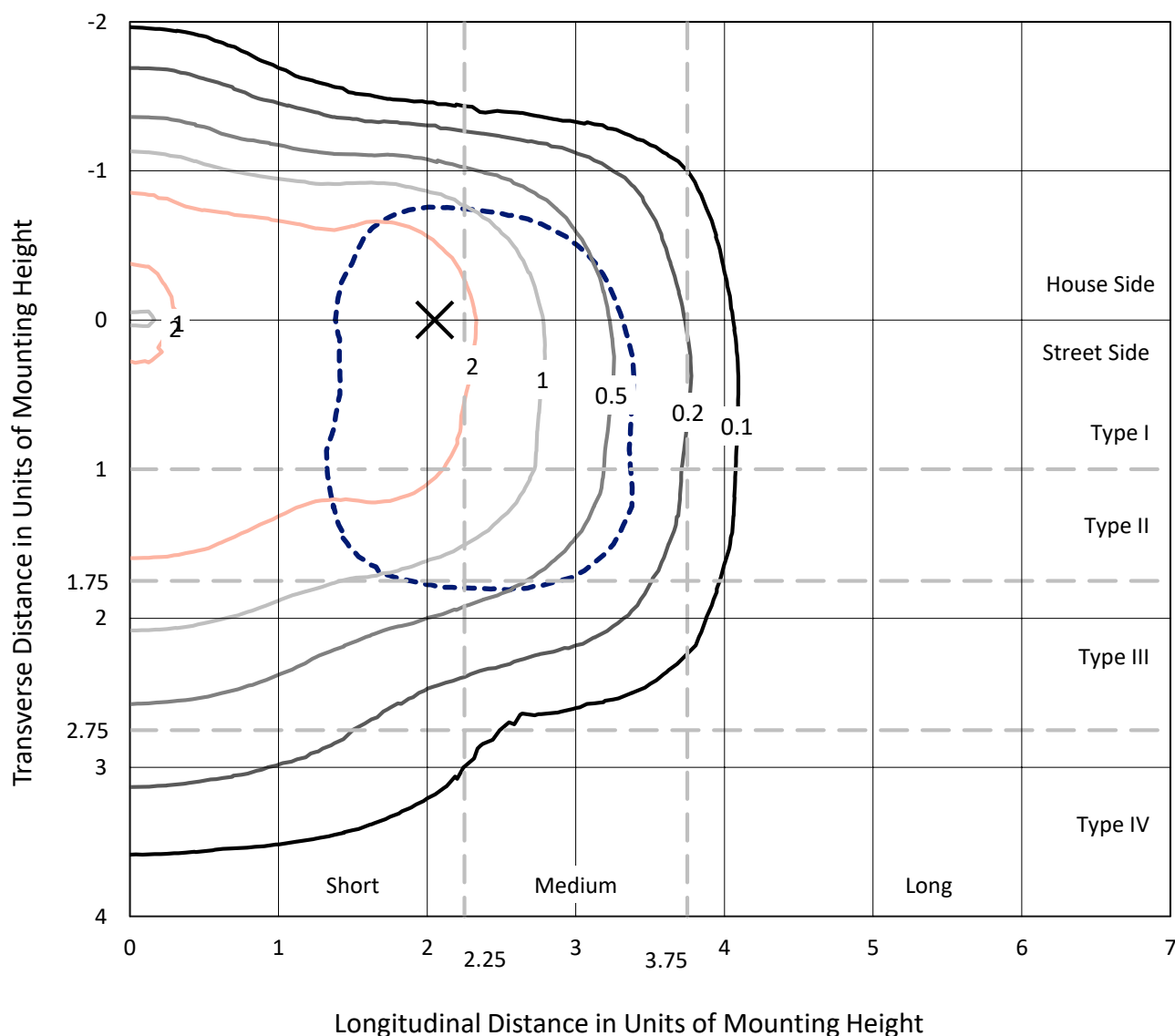
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

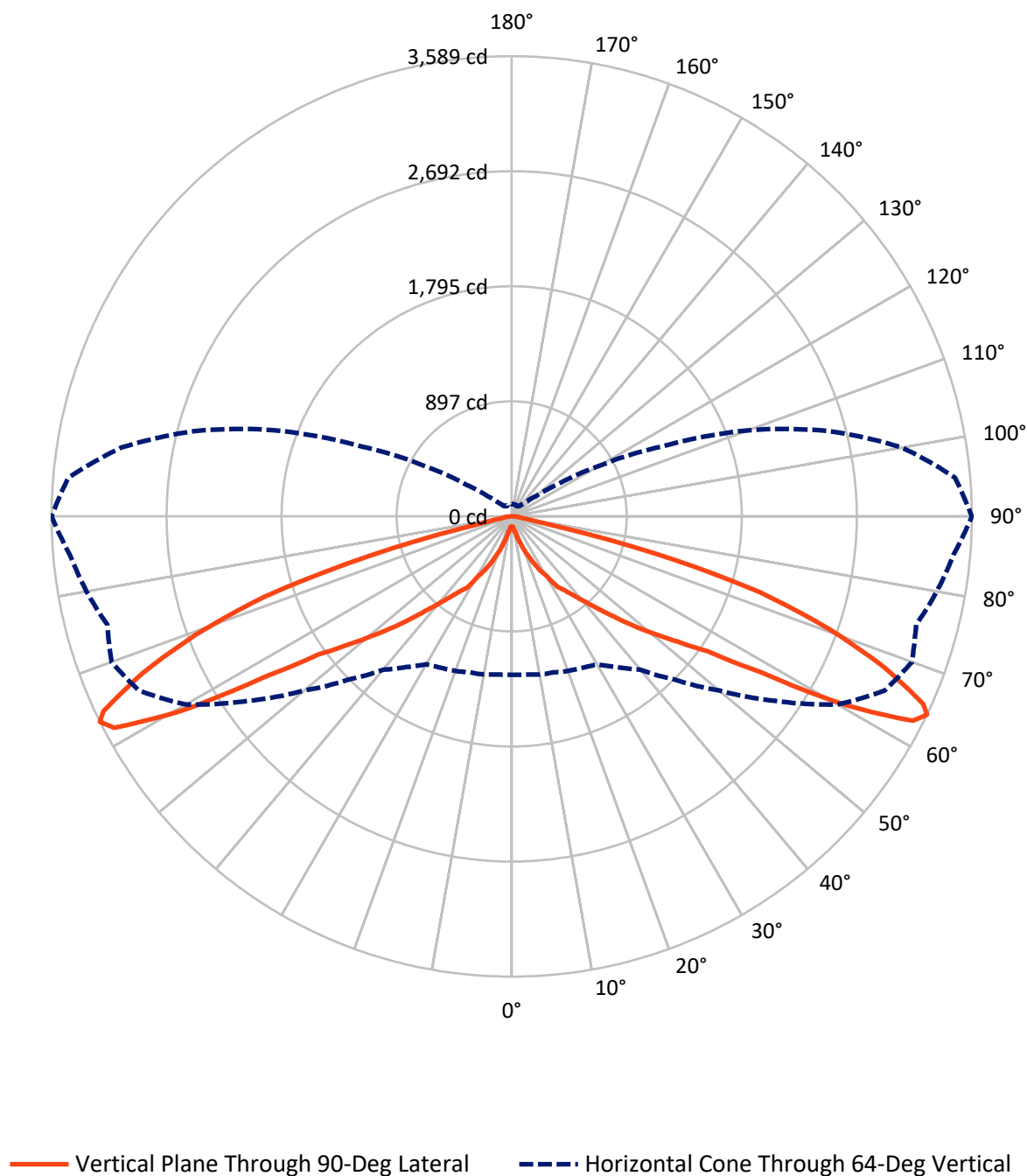


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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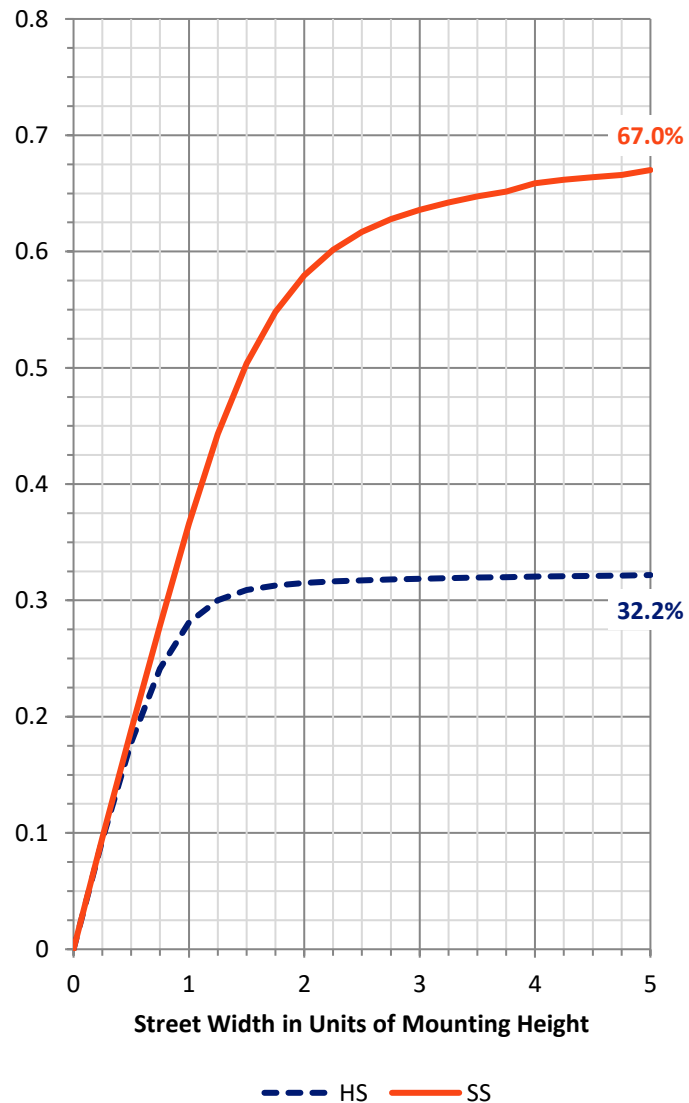
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1446.3	0.0	1446.3
	% Fixture	32.5	0.0	32.5
Street Side	Lumens	3004.1	0.0	3004.1
	% Fixture	67.5	0.0	67.5
Total	Lumens	4450.4	0.0	4450.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.2
10°-20°	58.5	1.3
20°-30°	172.3	3.9
30°-40°	364.2	8.2
40°-50°	638.4	14.3
50°-60°	1016.7	22.8
60°-70°	1425.7	32.0
70°-80°	645.8	14.5
80°-90°	117.9	2.6
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°	4450.4	100.0
0°-180°	4450.4	100.0

Coefficient of Utilization



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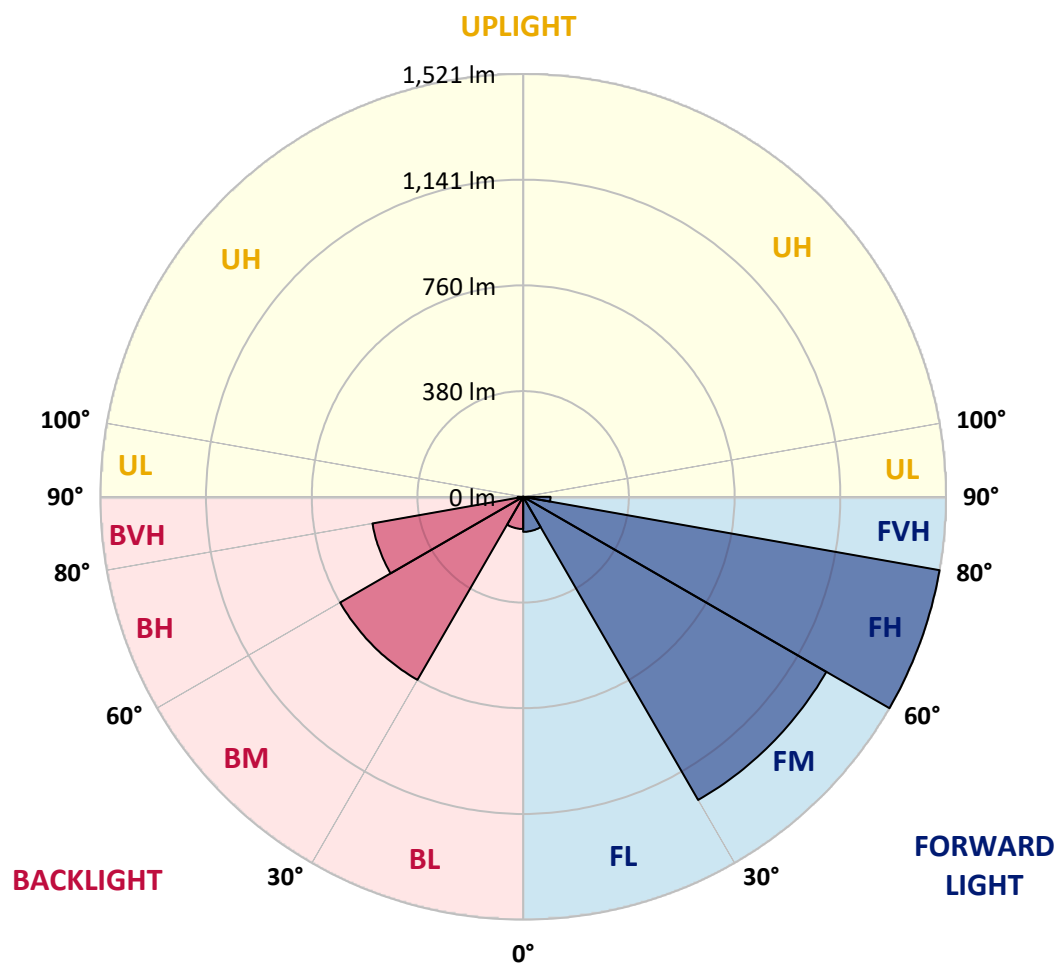
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.9	2.8			
FM	(30°-60°)	1259.1	28.3			
FH	(60°-80°)	1520.8	34.2			G1/1800
FVH	(80°-90°)	98.2	2.2			G1/100
BL	(0°-30°)	115.8	2.6	B1/500		
BM	(30°-60°)	760.2	17.1	B1/1000		
BH	(60°-80°)	550.7	12.4	B2/1000		G2/1000
BVH	(80°-90°)	19.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
2.5°	128.8	130.4	129.6	130.4	131.3	130.4	130.4	129.6	130.4	131.3	131.3
5°	104.8	105.7	105.7	104.8	105.7	105.7	105.7	105.7	105.7	105.7	105.7
7.5°	156.8	157.7	158.5	156.8	156.8	157.7	156.0	133.7	108.1	106.5	104.8
10°	156.8	157.7	157.7	156.0	156.8	157.7	157.7	156.8	151.9	151.1	151.1
12.5°	201.4	202.3	203.1	203.1	203.1	197.3	189.9	159.3	155.2	195.6	199.0
15°	203.9	203.9	203.9	200.6	200.6	197.3	199.8	236.1	233.6	205.6	202.3
17.5°	251.0	251.0	251.0	250.1	244.4	244.4	246.0	237.8	238.6	239.4	282.3
20°	305.4	307.1	284.8	260.9	251.8	280.7	281.5	276.6	303.8	270.8	284.8
22.5°	319.5	319.5	318.7	311.2	312.9	332.7	320.3	309.6	316.2	298.8	322.8
25°	379.7	379.7	374.8	368.2	358.3	349.2	359.1	357.5	342.6	340.9	380.6
27.5°	407.0	395.4	392.9	384.7	407.0	402.0	410.3	373.1	404.5	397.1	418.5
30°	467.2	466.4	458.2	465.6	465.6	446.6	431.7	449.1	455.7	441.7	490.4
32.5°	553.1	552.3	542.4	536.6	496.1	492.0	501.1	503.6	502.7	506.9	521.7
35°	646.4	645.6	591.1	580.3	565.5	562.2	561.4	548.1	563.8	544.0	583.6
37.5°	708.3	714.9	683.5	676.1	657.1	635.7	618.3	626.6	607.6	605.1	634.0
40°	832.1	834.6	806.5	783.4	766.9	718.2	700.9	695.9	689.3	681.1	719.9
42.5°	948.5	945.2	920.5	902.3	881.7	834.6	784.2	778.5	776.8	769.4	803.2
45°	1061.6	1064.1	1035.2	1027.0	993.9	964.2	894.9	895.7	890.7	882.5	913.0
47.5°	1164.8	1170.6	1154.9	1129.3	1102.9	1079.0	1026.1	1022.8	1011.3	1013.7	1050.1
50°	1251.5	1262.2	1247.4	1228.4	1204.4	1187.9	1157.4	1150.0	1143.4	1150.0	1189.6
52.5°	1310.9	1320.0	1325.8	1301.9	1301.9	1280.4	1270.5	1263.1	1265.5	1285.3	1332.4
55°	1340.7	1348.9	1361.3	1344.8	1381.1	1349.7	1340.7	1351.4	1367.9	1403.4	1470.3
57.5°	1340.7	1345.6	1361.3	1364.6	1386.1	1363.8	1380.3	1403.4	1438.9	1500.8	1594.9
60°	1312.6	1316.7	1335.7	1338.2	1358.0	1353.0	1367.1	1433.1	1485.1	1587.5	1738.6
62.5°	1268.0	1270.5	1288.6	1293.6	1314.2	1324.1	1345.6	1441.4	1533.8	1712.1	1954.8
64°	1235.8	1237.5	1252.3	1259.8	1282.9	1301.9	1331.6	1434.8	1561.1	1799.6	2113.3
65°	1213.5	1213.5	1231.7	1235.0	1258.1	1282.9	1315.1	1419.1	1562.7	1832.7	2181.9
67.5°	1126.0	1121.9	1140.0	1148.3	1157.4	1177.2	1197.0	1305.2	1465.3	1780.7	2163.7
70°	978.2	968.3	977.4	970.8	965.9	956.8	946.9	1022.0	1135.9	1452.9	1832.7
72.5°	686.0	686.0	678.6	694.3	705.8	717.4	677.8	686.8	748.8	953.5	1291.9
75°	460.6	465.6	478.8	516.8	553.9	587.8	601.0	601.8	549.8	565.5	784.2
77.5°	273.2	284.0	293.9	338.5	386.3	457.3	520.1	581.2	595.2	586.9	568.0
80°	123.0	126.3	140.3	157.7	187.4	236.1	327.7	425.1	535.8	591.1	579.5
82.5°	42.1	46.2	55.3	66.0	78.4	99.9	148.6	200.6	306.3	434.2	539.9
85°	14.0	15.7	21.5	29.7	33.0	38.0	50.4	74.3	121.4	170.9	325.3
87.5°	5.8	7.4	9.9	14.9	16.5	16.5	17.3	22.3	22.3	22.3	89.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
2.5°	108.1	99.9	88.3	85.9	82.6	81.7	80.9	80.9	80.1	80.9	80.9
5°	115.6	122.2	127.1	123.8	91.6	87.5	80.9	80.1	80.9	80.9	85.0
7.5°	104.8	104.8	99.9	114.7	115.6	85.9	79.3	80.9	81.7	82.6	95.8
10°	113.1	143.6	142.8	145.3	165.9	162.6	121.4	118.9	119.7	125.5	165.9
12.5°	201.4	186.6	146.9	153.5	151.9	168.4	129.6	124.7	128.0	159.3	155.2
15°	202.3	232.0	236.9	208.9	198.1	209.7	189.0	180.0	174.2	207.2	178.3
17.5°	240.2	237.8	242.7	223.7	211.3	208.0	227.8	222.9	213.8	199.0	184.9
20°	265.8	284.0	289.8	326.9	304.6	295.5	302.1	284.8	274.9	279.0	278.2
22.5°	326.1	351.7	332.7	340.1	346.7	369.8	361.6	335.2	341.8	343.4	332.7
25°	345.1	387.2	414.4	428.4	433.4	418.5	439.2	408.6	418.5	404.5	414.4
27.5°	427.6	430.1	451.6	446.6	480.5	497.8	497.0	480.5	484.6	492.8	503.6
30°	451.6	460.6	503.6	518.4	537.4	550.6	534.9	541.5	529.2	546.5	549.0
32.5°	526.7	518.4	534.1	596.9	640.6	662.9	640.6	653.8	639.8	645.6	616.7
35°	571.3	610.1	620.8	650.5	683.5	714.9	708.3	705.8	704.2	715.7	655.5
37.5°	662.9	671.2	676.9	714.9	744.6	785.9	787.6	778.5	794.2	761.1	709.1
40°	723.2	736.4	743.8	769.4	829.7	862.7	887.4	869.3	891.6	825.5	788.4
42.5°	813.1	807.4	820.6	860.2	934.5	954.3	989.0	977.4	1011.3	940.3	866.8
45°	931.2	926.2	928.7	954.3	1055.0	1069.1	1103.7	1112.8	1129.3	1041.0	965.9
47.5°	1064.1	1066.6	1066.6	1092.2	1174.7	1202.8	1242.4	1269.7	1263.9	1148.3	1073.2
50°	1213.5	1225.1	1207.7	1243.2	1305.2	1355.5	1377.8	1436.4	1414.9	1297.7	1214.3
52.5°	1378.6	1397.6	1381.9	1411.6	1470.3	1533.8	1571.0	1626.3	1589.1	1490.9	1344.0
55°	1542.1	1575.1	1593.3	1625.5	1700.6	1760.8	1777.4	1855.8	1803.8	1707.2	1485.9
57.5°	1713.8	1784.0	1849.2	1892.9	2019.2	2089.4	2124.9	2295.0	2231.4	2129.0	1787.3
60°	1935.9	2148.8	2326.3	2424.6	2591.3	2663.1	2805.1	2985.1	2939.7	2788.6	2327.2
62.5°	2299.9	2678.8	2949.6	3075.9	3115.5	3208.8	3341.7	3511.8	3441.6	3093.2	2611.1
64°	2507.9	2935.6	3210.5	3321.9	3265.8	3368.1	3458.9	3589.4	3471.3	3090.8	2567.4
65°	2596.3	3031.3	3294.7	3400.3	3287.2	3371.4	3446.6	3528.3	3380.5	3009.9	2460.1
67.5°	2618.6	3037.9	3273.2	3335.9	3148.6	3123.8	3136.2	3127.9	2929.8	2591.3	2101.0
70°	2283.4	2685.4	3014.8	3094.9	2843.9	2711.0	2704.4	2625.2	2423.7	2157.1	1730.3
72.5°	1763.3	2114.2	2440.3	2548.4	2311.5	2206.6	2181.9	2025.8	1858.3	1611.4	1303.5
75°	1194.5	1478.5	1573.5	1580.1	1390.2	1334.0	1297.7	1156.6	1011.3	905.6	764.4
77.5°	701.7	818.9	732.2	644.7	505.2	358.3	266.6	222.1	242.7	241.9	227.8
80°	593.6	557.2	450.7	349.2	251.0	142.0	103.2	87.5	89.2	90.8	89.2
82.5°	638.1	679.4	576.2	409.5	307.1	180.8	87.5	62.7	71.8	79.3	75.9
85°	540.7	662.9	617.5	442.5	329.4	189.9	61.9	41.3	52.8	65.2	69.3
87.5°	209.7	306.3	248.5	170.9	114.7	63.6	36.3	29.7	37.1	52.0	57.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
2.5°	81.7	84.2	88.3	88.3	85.9	88.3	99.9	113.9	122.2	128.8	136.2
5°	85.0	111.4	129.6	132.1	128.8	93.3	86.7	86.7	90.0	93.3	85.9
7.5°	118.9	113.1	79.3	84.2	85.0	85.9	85.0	87.5	88.3	117.2	133.7
10°	135.4	123.0	119.7	99.9	93.3	130.4	130.4	131.3	136.2	137.0	136.2
12.5°	132.1	126.3	127.1	169.2	182.4	174.2	141.2	130.4	136.2	156.0	175.0
15°	176.7	188.2	199.8	175.0	183.3	177.5	208.9	217.1	179.1	176.7	182.4
17.5°	188.2	227.0	228.7	218.8	246.8	220.4	214.6	217.1	213.8	198.1	223.7
20°	310.4	288.9	269.1	246.8	267.5	259.2	254.3	256.7	254.3	255.1	225.4
22.5°	329.4	320.3	337.6	328.6	309.6	288.9	297.2	292.2	265.0	293.9	271.6
25°	428.4	421.8	384.7	342.6	371.5	328.6	308.7	328.6	323.6	301.3	301.3
27.5°	450.7	449.1	442.5	449.9	395.4	372.3	396.3	339.3	342.6	350.0	348.4
30°	521.7	520.9	465.6	472.2	468.9	428.4	412.8	418.5	379.7	373.1	388.0
32.5°	597.7	548.1	533.3	538.2	499.4	473.0	464.8	432.6	417.7	410.3	386.3
35°	630.7	629.0	615.8	568.8	553.9	504.4	497.0	459.8	445.8	440.8	428.4
37.5°	674.5	672.8	658.8	634.0	598.5	539.9	514.3	489.5	458.2	438.4	454.0
40°	733.1	720.7	706.6	666.2	617.5	564.7	528.3	485.4	465.6	446.6	468.9
42.5°	837.1	781.8	747.1	695.9	630.7	567.1	526.7	485.4	447.4	441.7	445.0
45°	928.7	840.4	780.9	714.9	636.5	562.2	511.0	463.9	437.5	415.2	414.4
47.5°	1008.8	907.3	812.3	729.8	633.2	549.0	487.9	437.5	404.5	383.0	373.1
50°	1083.9	977.4	844.5	734.7	619.1	523.4	454.9	401.2	359.9	336.0	333.5
52.5°	1159.0	1027.0	871.8	727.3	591.9	484.6	407.0	350.0	305.4	285.6	281.5
55°	1265.5	1055.0	885.8	700.9	549.0	431.7	350.0	289.8	245.2	235.3	229.5
57.5°	1489.2	1146.7	899.8	659.6	485.4	363.2	283.2	231.1	198.1	188.2	183.3
60°	1849.2	1321.7	932.0	596.9	398.7	286.5	216.3	173.4	151.1	145.3	142.8
62.5°	2018.4	1367.9	882.5	501.9	305.4	203.9	151.9	122.2	110.6	109.0	110.6
64°	1964.7	1289.5	786.7	428.4	243.5	157.7	117.2	97.4	90.8	90.0	93.3
65°	1869.8	1200.3	714.1	378.1	202.3	130.4	98.2	84.2	79.3	80.9	83.4
67.5°	1544.6	927.9	483.8	226.2	117.2	80.1	66.9	60.3	61.1	62.7	66.0
70°	1206.1	621.6	263.3	117.2	70.2	54.5	50.4	47.9	49.5	52.0	55.3
72.5°	827.2	347.5	125.5	66.9	52.0	43.8	42.9	42.1	43.8	46.2	49.5
75°	433.4	145.3	71.0	52.8	45.4	39.6	40.5	39.6	41.3	43.8	46.2
77.5°	137.0	78.4	59.4	48.7	42.9	37.1	38.0	38.8	40.5	42.1	43.8
80°	74.3	65.2	53.7	45.4	40.5	34.7	36.3	37.1	39.6	40.5	40.5
82.5°	67.7	57.0	47.1	41.3	38.8	33.8	37.1	37.1	37.1	37.1	37.1
85°	59.4	46.2	38.8	36.3	36.3	32.2	34.7	34.7	33.0	33.0	31.4
87.5°	46.2	33.8	33.0	36.3	33.8	23.1	29.7	28.1	25.6	25.6	24.8
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):

	165°	170°	175°	180°
0°	81.7	81.7	81.7	81.7
2.5°	135.4	136.2	132.9	132.9
5°	85.0	85.9	85.0	85.0
7.5°	138.7	137.0	142.0	137.0
10°	139.5	135.4	134.6	135.4
12.5°	181.6	181.6	182.4	182.4
15°	181.6	180.8	182.4	181.6
17.5°	227.8	229.5	230.3	229.5
20°	230.3	231.1	237.8	232.8
22.5°	273.2	278.2	278.2	277.4
25°	284.8	321.1	328.6	327.7
27.5°	326.9	331.0	331.9	331.0
30°	372.3	374.0	378.1	376.4
32.5°	392.1	418.5	423.5	421.8
35°	425.1	417.7	435.1	452.4
37.5°	445.0	442.5	446.6	445.8
40°	463.1	467.2	472.2	468.1
42.5°	445.8	443.3	445.8	444.1
45°	410.3	411.1	409.5	407.8
47.5°	365.7	365.7	364.1	364.1
50°	318.7	320.3	313.7	314.5
52.5°	269.1	270.8	265.8	260.9
55°	222.9	223.7	217.1	215.5
57.5°	180.0	182.4	176.7	174.2
60°	142.8	143.6	142.0	142.0
62.5°	113.1	111.4	109.8	110.6
64°	95.8	96.6	94.1	95.8
65°	85.9	87.5	85.9	87.5
67.5°	68.5	71.0	70.2	71.0
70°	58.6	59.4	58.6	58.6
72.5°	52.0	52.8	51.2	50.4
75°	48.7	47.9	47.1	46.2
77.5°	44.6	44.6	42.9	42.1
80°	39.6	38.8	37.1	35.5
82.5°	36.3	34.7	30.5	28.1
85°	30.5	28.1	23.1	18.2
87.5°	24.8	22.3	14.0	7.4
90°	0.0	0.0	0.0	0.0

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