

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: P157166

Luminaire Tested: **UTLD-F02-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157166
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-T3-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566.6 lumens
Efficiency: N/A
Efficacy: 83.0 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



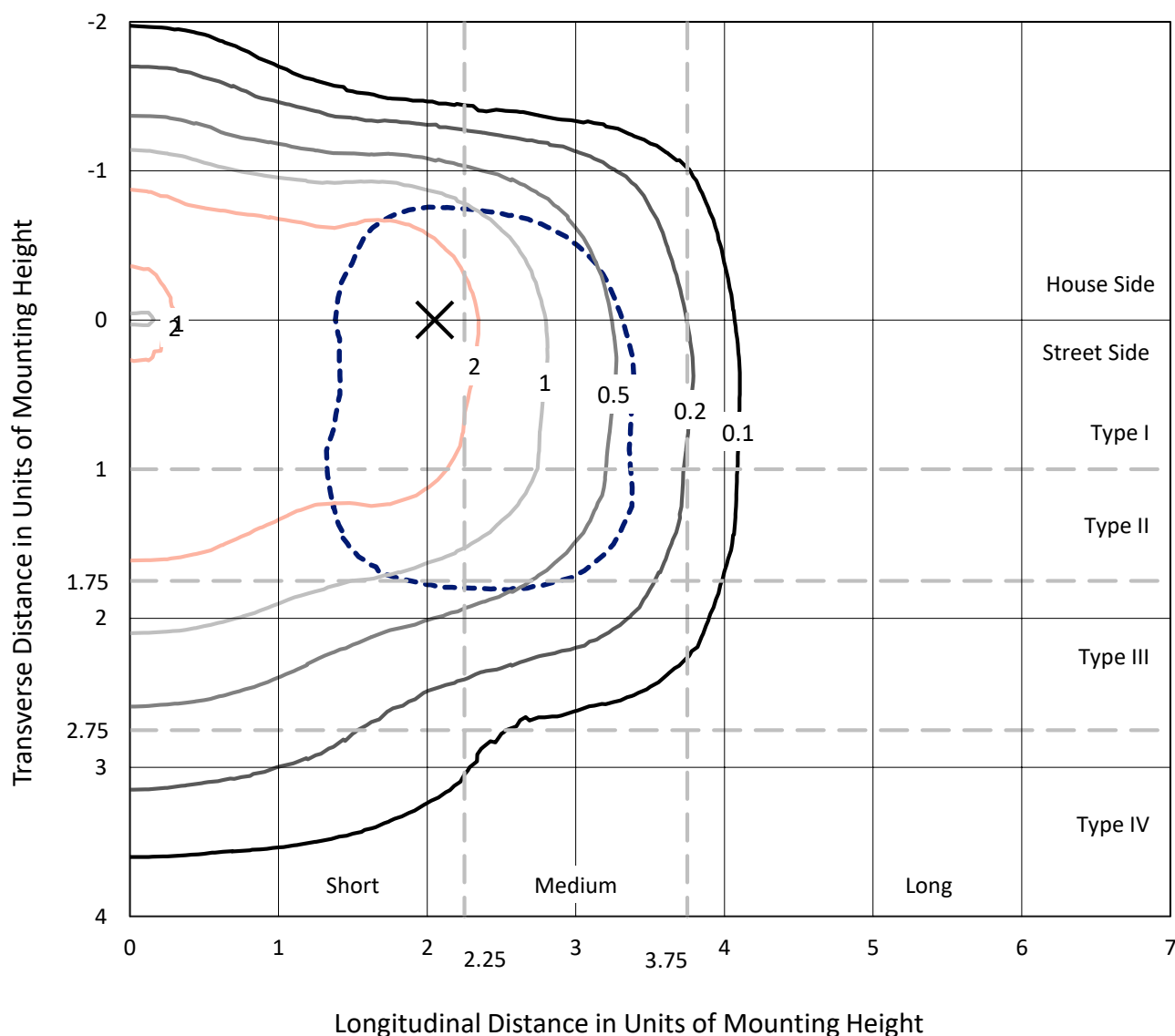
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

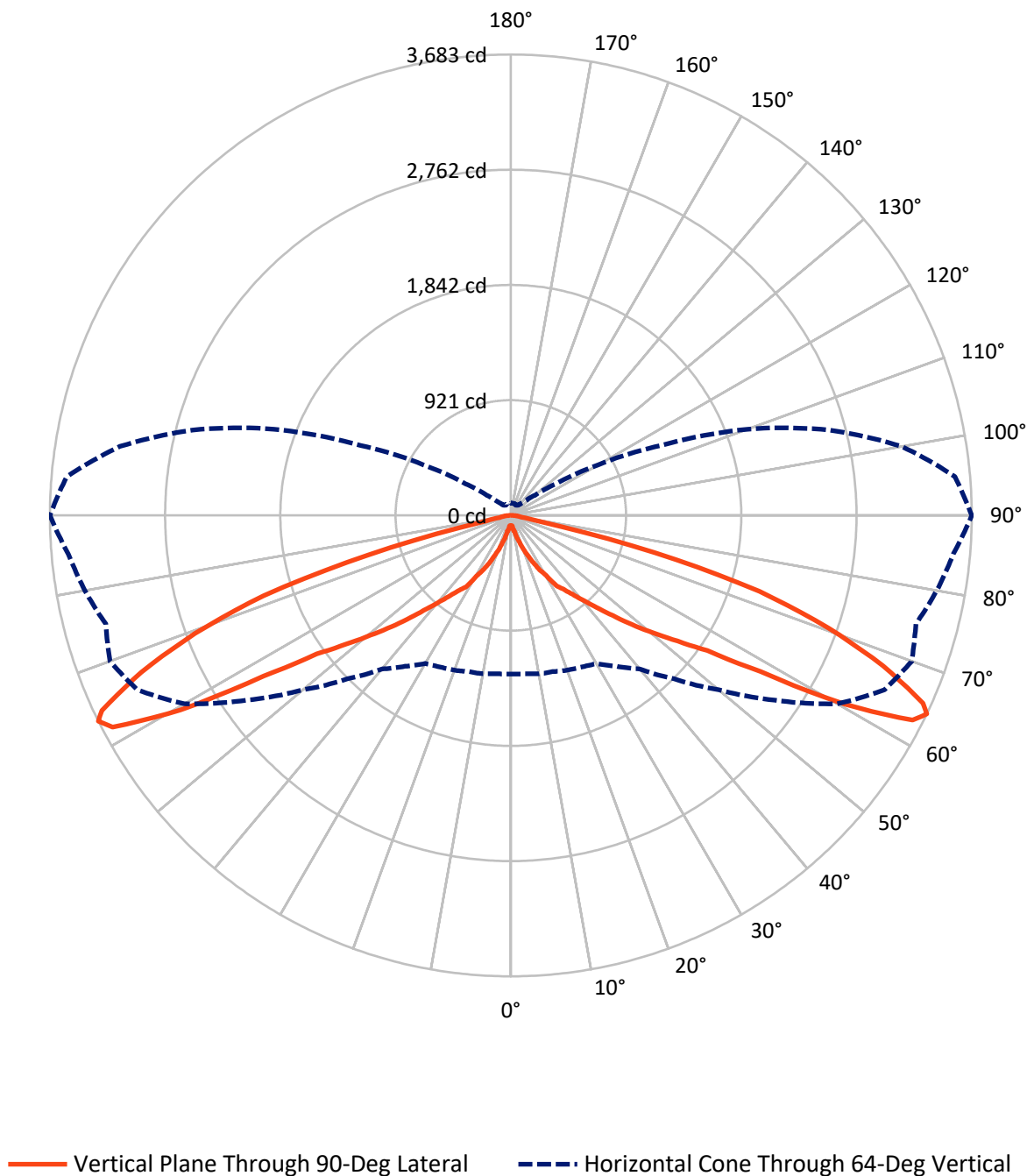


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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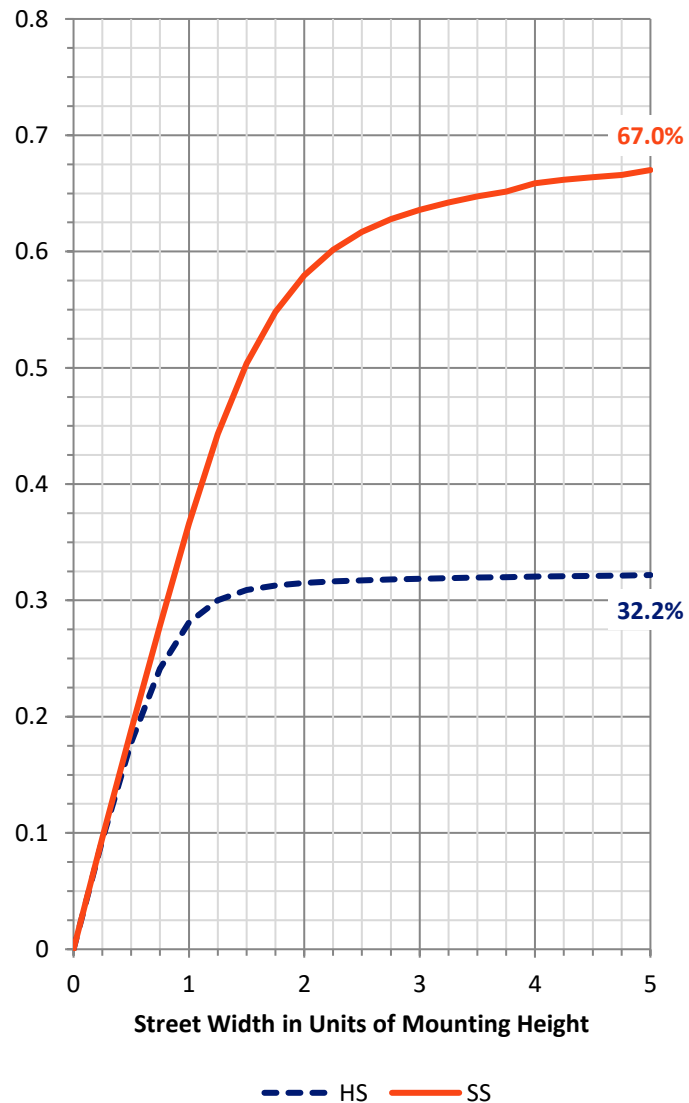
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.1	0.0	1484.1
	% Fixture	32.5	0.0	32.5
Street Side	Lumens	3082.5	0.0	3082.5
	% Fixture	67.5	0.0	67.5
Total	Lumens	4566.6	0.0	4566.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.2
10°-20°	60.0	1.3
20°-30°	176.8	3.9
30°-40°	373.7	8.2
40°-50°	655.1	14.3
50°-60°	1043.2	22.8
60°-70°	1463.0	32.0
70°-80°	662.6	14.5
80°-90°	121.0	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°	4566.6	100.0
0°-180°	4566.6	100.0

Coefficient of Utilization



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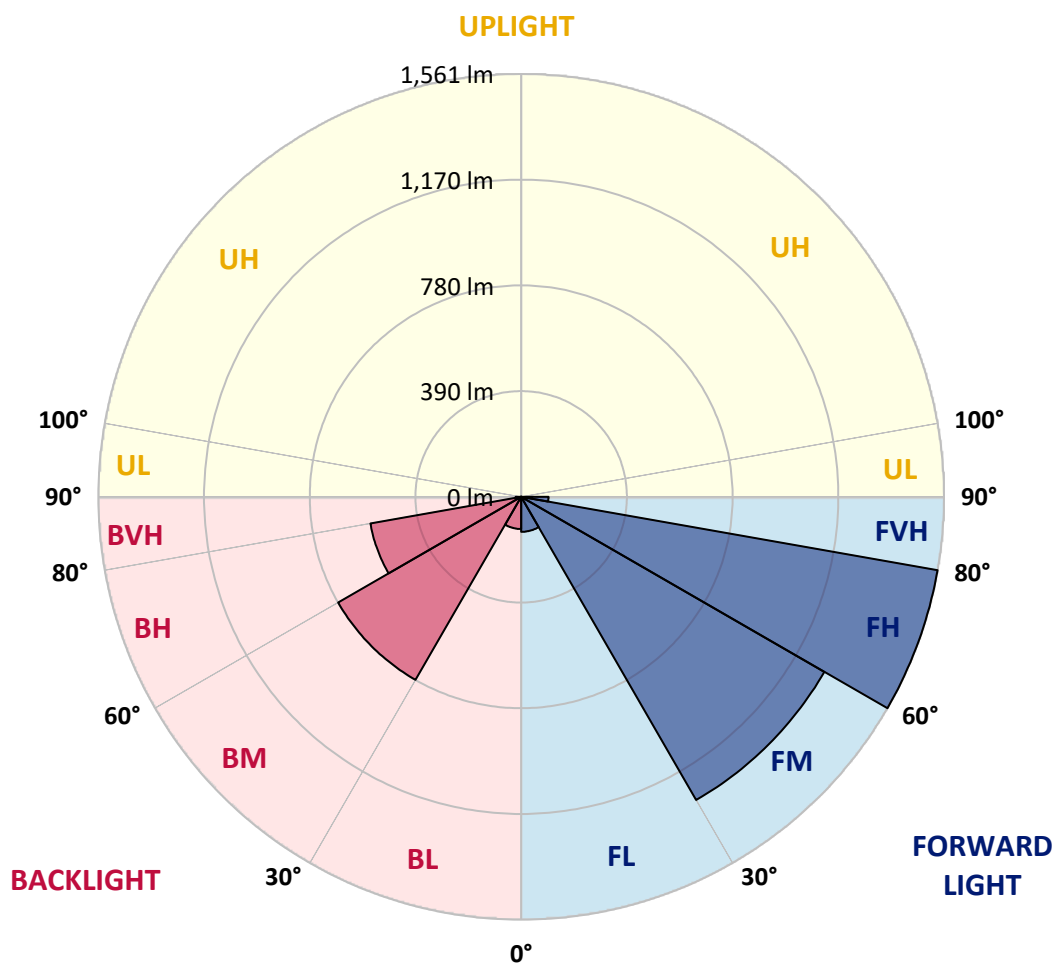
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.2	2.8			
FM	(30°-60°)	1292.0	28.3			
FH	(60°-80°)	1560.5	34.2			G1/1800
FVH	(80°-90°)	100.8	2.2			G2/225
BL	(0°-30°)	118.8	2.6	B1/500		
BM	(30°-60°)	780.0	17.1	B1/1000		
BH	(60°-80°)	565.1	12.4	B2/1000		G2/1000
BVH	(80°-90°)	20.2	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°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	132.1	133.8	133.0	133.8	134.7	133.8	133.8	133.0	133.8	134.7	134.7
5°	107.6	108.4	108.4	107.6	108.4	108.4	108.4	108.4	108.4	108.4	108.4
7.5°	160.9	161.8	162.6	160.9	160.9	161.8	160.1	137.2	111.0	109.3	107.6
10°	160.9	161.8	161.8	160.1	160.9	161.8	161.8	160.9	155.9	155.0	155.0
12.5°	206.7	207.5	208.4	208.4	208.4	202.5	194.8	163.5	159.3	200.8	204.1
15°	209.2	209.2	209.2	205.8	205.8	202.5	205.0	242.3	239.7	210.9	207.5
17.5°	257.5	257.5	257.5	256.7	250.7	250.7	252.4	244.0	244.8	245.7	289.7
20°	313.4	315.1	292.2	267.7	258.4	288.0	288.9	283.8	311.7	277.8	292.2
22.5°	327.8	327.8	327.0	319.3	321.0	341.4	328.7	317.7	324.4	306.6	331.2
25°	389.7	389.7	384.6	377.8	367.6	358.3	368.5	366.8	351.5	349.8	390.5
27.5°	417.6	405.7	403.2	394.7	417.6	412.5	421.0	382.9	415.1	407.4	429.5
30°	479.4	478.6	470.1	477.8	477.8	458.3	443.0	460.8	467.6	453.2	503.2
32.5°	567.5	566.7	556.5	550.6	509.1	504.9	514.2	516.7	515.9	520.1	535.4
35°	663.3	662.4	606.5	595.5	580.2	576.9	576.0	562.5	578.6	558.2	598.9
37.5°	726.8	733.6	701.4	693.8	674.3	652.2	634.5	642.9	623.4	620.9	650.6
40°	853.9	856.4	827.6	803.9	786.9	737.0	719.2	714.1	707.3	698.8	738.6
42.5°	973.3	969.9	944.5	925.9	904.7	856.4	804.7	798.8	797.1	789.5	824.2
45°	1089.3	1091.9	1062.2	1053.8	1019.9	989.4	918.2	919.1	914.0	905.5	936.9
47.5°	1195.2	1201.2	1185.1	1158.8	1131.7	1107.1	1052.9	1049.5	1037.7	1040.2	1077.5
50°	1284.2	1295.2	1279.9	1260.4	1235.9	1218.9	1187.6	1180.0	1173.2	1180.0	1220.6
52.5°	1345.2	1354.5	1360.4	1335.8	1335.8	1313.8	1303.6	1296.0	1298.6	1318.9	1367.2
55°	1375.7	1384.1	1396.8	1379.9	1417.2	1385.0	1375.7	1386.7	1403.6	1440.0	1508.6
57.5°	1375.7	1380.7	1396.8	1400.2	1422.2	1399.4	1416.3	1440.0	1476.5	1540.0	1636.6
60°	1346.9	1351.1	1370.6	1373.1	1393.4	1388.4	1402.8	1470.5	1523.9	1628.9	1783.9
62.5°	1301.1	1303.6	1322.3	1327.4	1348.5	1358.7	1380.7	1479.0	1573.9	1756.8	2005.9
64°	1268.1	1269.8	1285.0	1292.6	1316.4	1335.8	1366.3	1472.2	1601.8	1846.6	2168.5
65°	1245.2	1245.2	1263.8	1267.2	1290.9	1316.4	1349.4	1456.1	1603.5	1880.5	2238.8
67.5°	1155.4	1151.2	1169.8	1178.3	1187.6	1207.9	1228.3	1339.2	1503.6	1827.1	2220.2
70°	1003.8	993.6	1002.9	996.2	991.1	981.8	971.6	1048.7	1165.6	1490.9	1880.5
72.5°	703.9	703.9	696.3	712.4	724.2	736.1	695.4	704.8	768.3	978.4	1325.7
75°	472.7	477.8	491.3	530.3	568.4	603.1	616.7	617.5	564.2	580.2	804.7
77.5°	280.4	291.4	301.6	347.3	396.4	469.3	533.7	596.3	610.7	602.3	582.8
80°	126.2	129.6	144.0	161.8	192.3	242.3	336.3	436.2	549.8	606.5	594.6
82.5°	43.2	47.4	56.8	67.8	80.5	102.5	152.5	205.8	314.3	445.6	554.0
85°	14.4	16.1	22.0	30.5	33.9	39.0	51.7	76.2	124.5	175.3	333.7
87.5°	5.9	7.6	10.2	15.2	16.9	16.9	17.8	22.9	22.9	22.9	91.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	111.0	102.5	90.6	88.1	84.7	83.9	83.0	83.0	82.2	83.0	83.0
5°	118.6	125.4	130.4	127.1	94.0	89.8	83.0	82.2	83.0	83.0	87.2
7.5°	107.6	107.6	102.5	117.7	118.6	88.1	81.3	83.0	83.9	84.7	98.3
10°	116.0	147.4	146.5	149.1	170.3	166.9	124.5	122.0	122.8	128.8	170.3
12.5°	206.7	191.4	150.8	157.6	155.9	172.8	133.0	127.9	131.3	163.5	159.3
15°	207.5	238.0	243.1	214.3	203.3	215.2	194.0	184.7	178.7	212.6	183.0
17.5°	246.5	244.0	249.0	229.6	216.9	213.5	233.8	228.7	219.4	204.1	189.7
20°	272.8	291.4	297.3	335.4	312.6	303.3	310.0	292.2	282.1	286.3	285.5
22.5°	334.6	360.9	341.4	349.0	355.8	379.5	371.0	343.9	350.7	352.4	341.4
25°	354.1	397.3	425.2	439.6	444.7	429.5	450.6	419.3	429.5	415.1	425.2
27.5°	438.8	441.3	463.4	458.3	493.0	510.8	509.9	493.0	497.2	505.7	516.7
30°	463.4	472.7	516.7	532.0	551.4	565.0	548.9	555.7	543.0	560.8	563.3
32.5°	540.4	532.0	548.1	612.4	657.3	680.2	657.3	670.9	656.5	662.4	632.8
35°	586.2	626.0	637.0	667.5	701.4	733.6	726.8	724.2	722.6	734.4	672.6
37.5°	680.2	688.7	694.6	733.6	764.1	806.4	808.1	798.8	814.9	781.0	727.6
40°	742.0	755.6	763.2	789.5	851.3	885.2	910.6	892.0	914.8	847.1	809.0
42.5°	834.4	828.4	842.0	882.7	958.9	979.2	1014.8	1002.9	1037.7	964.8	889.4
45°	955.5	950.4	953.0	979.2	1082.6	1097.0	1132.5	1141.9	1158.8	1068.2	991.1
47.5°	1091.9	1094.4	1094.4	1120.7	1205.4	1234.2	1274.8	1302.8	1296.9	1178.3	1101.2
50°	1245.2	1257.1	1239.3	1275.7	1339.2	1390.9	1413.8	1473.9	1451.9	1331.6	1246.0
52.5°	1414.6	1434.1	1418.0	1448.5	1508.6	1573.9	1612.0	1668.7	1630.6	1529.8	1379.0
55°	1582.3	1616.2	1634.9	1667.9	1745.0	1806.8	1823.8	1904.2	1850.9	1751.8	1524.7
57.5°	1758.5	1830.5	1897.4	1942.3	2071.9	2143.9	2180.4	2354.9	2289.6	2184.6	1833.9
60°	1986.4	2204.9	2387.1	2487.9	2659.0	2732.7	2878.4	3063.0	3016.4	2861.4	2387.9
62.5°	2360.0	2748.8	3026.6	3156.2	3196.9	3292.6	3429.0	3603.5	3531.5	3174.0	2679.3
64°	2573.4	3012.2	3294.3	3408.6	3351.0	3456.1	3549.2	3683.1	3562.0	3171.5	2634.4
65°	2664.1	3110.5	3380.7	3489.1	3373.1	3459.5	3536.5	3620.4	3468.8	3088.4	2524.3
67.5°	2686.9	3117.2	3358.7	3423.0	3230.7	3205.3	3218.0	3209.6	3006.3	2659.0	2155.8
70°	2343.0	2755.5	3093.5	3175.7	2918.2	2781.8	2775.0	2693.7	2487.0	2213.4	1775.5
72.5°	1809.4	2169.4	2504.0	2614.9	2371.8	2264.2	2238.8	2078.7	1906.8	1653.5	1337.5
75°	1225.7	1517.1	1614.5	1621.3	1426.5	1368.9	1331.6	1186.8	1037.7	929.2	784.4
77.5°	720.0	840.3	751.4	661.6	518.4	367.6	273.6	227.9	249.0	248.2	233.8
80°	609.0	571.8	462.5	358.3	257.5	145.7	105.9	89.8	91.5	93.2	91.5
82.5°	654.8	697.1	591.3	420.1	315.1	185.5	89.8	64.4	73.7	81.3	77.9
85°	554.8	680.2	633.6	454.0	338.0	194.8	63.5	42.4	54.2	66.9	71.2
87.5°	215.2	314.3	255.0	175.3	117.7	65.2	37.3	30.5	38.1	53.4	58.4
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°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	83.9	86.4	90.6	90.6	88.1	90.6	102.5	116.9	125.4	132.1	139.8
5°	87.2	114.4	133.0	135.5	132.1	95.7	88.9	88.9	92.3	95.7	88.1
7.5°	122.0	116.0	81.3	86.4	87.2	88.1	87.2	89.8	90.6	120.3	137.2
10°	138.9	126.2	122.8	102.5	95.7	133.8	133.8	134.7	139.8	140.6	139.8
12.5°	135.5	129.6	130.4	173.7	187.2	178.7	144.8	133.8	139.8	160.1	179.6
15°	181.3	193.1	205.0	179.6	188.1	182.1	214.3	222.8	183.8	181.3	187.2
17.5°	193.1	232.9	234.6	224.5	253.3	226.2	220.2	222.8	219.4	203.3	229.6
20°	318.5	296.5	276.1	253.3	274.5	266.0	260.9	263.4	260.9	261.7	231.3
22.5°	338.0	328.7	346.5	337.1	317.7	296.5	304.9	299.9	271.9	301.6	278.7
25°	439.6	432.9	394.7	351.5	381.2	337.1	316.8	337.1	332.1	309.2	309.2
27.5°	462.5	460.8	454.0	461.7	405.7	382.0	406.6	348.1	351.5	359.2	357.5
30°	535.4	534.5	477.8	484.5	481.1	439.6	423.5	429.5	389.7	382.9	398.1
32.5°	613.3	562.5	547.2	552.3	512.5	485.4	476.9	443.9	428.6	421.0	396.4
35°	647.2	645.5	631.9	583.6	568.4	517.6	509.9	471.8	457.4	452.3	439.6
37.5°	692.1	690.4	676.0	650.6	614.1	554.0	527.7	502.3	470.1	449.8	465.9
40°	752.2	739.5	725.1	683.6	633.6	579.4	542.1	498.1	477.8	458.3	481.1
42.5°	858.9	802.2	766.6	714.1	647.2	581.9	540.4	498.1	459.1	453.2	456.6
45°	953.0	862.3	801.3	733.6	653.1	576.9	524.3	476.1	449.0	426.1	425.2
47.5°	1035.1	930.9	833.5	748.8	649.7	563.3	500.6	449.0	415.1	393.0	382.9
50°	1112.2	1002.9	866.6	753.9	635.3	537.0	466.7	411.7	369.3	344.8	342.2
52.5°	1189.3	1053.8	894.5	746.3	607.4	497.2	417.6	359.2	313.4	293.1	288.9
55°	1298.6	1082.6	908.9	719.2	563.3	443.0	359.2	297.3	251.6	241.4	235.5
57.5°	1528.1	1176.6	923.3	676.8	498.1	372.7	290.5	237.2	203.3	193.1	188.1
60°	1897.4	1356.2	956.3	612.4	409.1	293.9	221.9	177.9	155.0	149.1	146.5
62.5°	2071.1	1403.6	905.5	515.0	313.4	209.2	155.9	125.4	113.5	111.8	113.5
64°	2016.0	1323.1	807.3	439.6	249.9	161.8	120.3	100.0	93.2	92.3	95.7
65°	1918.6	1231.6	732.7	388.0	207.5	133.8	100.8	86.4	81.3	83.0	85.6
67.5°	1584.9	952.1	496.4	232.1	120.3	82.2	68.6	61.8	62.7	64.4	67.8
70°	1237.6	637.8	270.2	120.3	72.0	55.9	51.7	49.1	50.8	53.4	56.8
72.5°	848.8	356.6	128.8	68.6	53.4	44.9	44.0	43.2	44.9	47.4	50.8
75°	444.7	149.1	72.8	54.2	46.6	40.7	41.5	40.7	42.4	44.9	47.4
77.5°	140.6	80.5	61.0	50.0	44.0	38.1	39.0	39.8	41.5	43.2	44.9
80°	76.2	66.9	55.1	46.6	41.5	35.6	37.3	38.1	40.7	41.5	41.5
82.5°	69.5	58.4	48.3	42.4	39.8	34.7	38.1	38.1	38.1	38.1	38.1
85°	61.0	47.4	39.8	37.3	37.3	33.0	35.6	35.6	33.9	33.9	32.2
87.5°	47.4	34.7	33.9	37.3	34.7	23.7	30.5	28.8	26.3	26.3	25.4
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°	83.9	83.9	83.9	83.9
2.5°	138.9	139.8	136.4	136.4
5°	87.2	88.1	87.2	87.2
7.5°	142.3	140.6	145.7	140.6
10°	143.2	138.9	138.1	138.9
12.5°	186.4	186.4	187.2	187.2
15°	186.4	185.5	187.2	186.4
17.5°	233.8	235.5	236.3	235.5
20°	236.3	237.2	244.0	238.9
22.5°	280.4	285.5	285.5	284.6
25°	292.2	329.5	337.1	336.3
27.5°	335.4	339.7	340.5	339.7
30°	382.0	383.7	388.0	386.3
32.5°	402.4	429.5	434.5	432.9
35°	436.2	428.6	446.4	464.2
37.5°	456.6	454.0	458.3	457.4
40°	475.2	479.4	484.5	480.3
42.5°	457.4	454.9	457.4	455.7
45°	421.0	421.8	420.1	418.5
47.5°	375.3	375.3	373.6	373.6
50°	327.0	328.7	321.9	322.7
52.5°	276.1	277.8	272.8	267.7
55°	228.7	229.6	222.8	221.1
57.5°	184.7	187.2	181.3	178.7
60°	146.5	147.4	145.7	145.7
62.5°	116.0	114.4	112.7	113.5
64°	98.3	99.1	96.6	98.3
65°	88.1	89.8	88.1	89.8
67.5°	70.3	72.8	72.0	72.8
70°	60.1	61.0	60.1	60.1
72.5°	53.4	54.2	52.5	51.7
75°	50.0	49.1	48.3	47.4
77.5°	45.7	45.7	44.0	43.2
80°	40.7	39.8	38.1	36.4
82.5°	37.3	35.6	31.3	28.8
85°	31.3	28.8	23.7	18.6
87.5°	25.4	22.9	14.4	7.6
90°	0.0	0.0	0.0	0.0

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