

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: P179335

Luminaire Tested: **UTLD-F02-LED-E-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179335
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34326)
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-T2-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2377.1 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

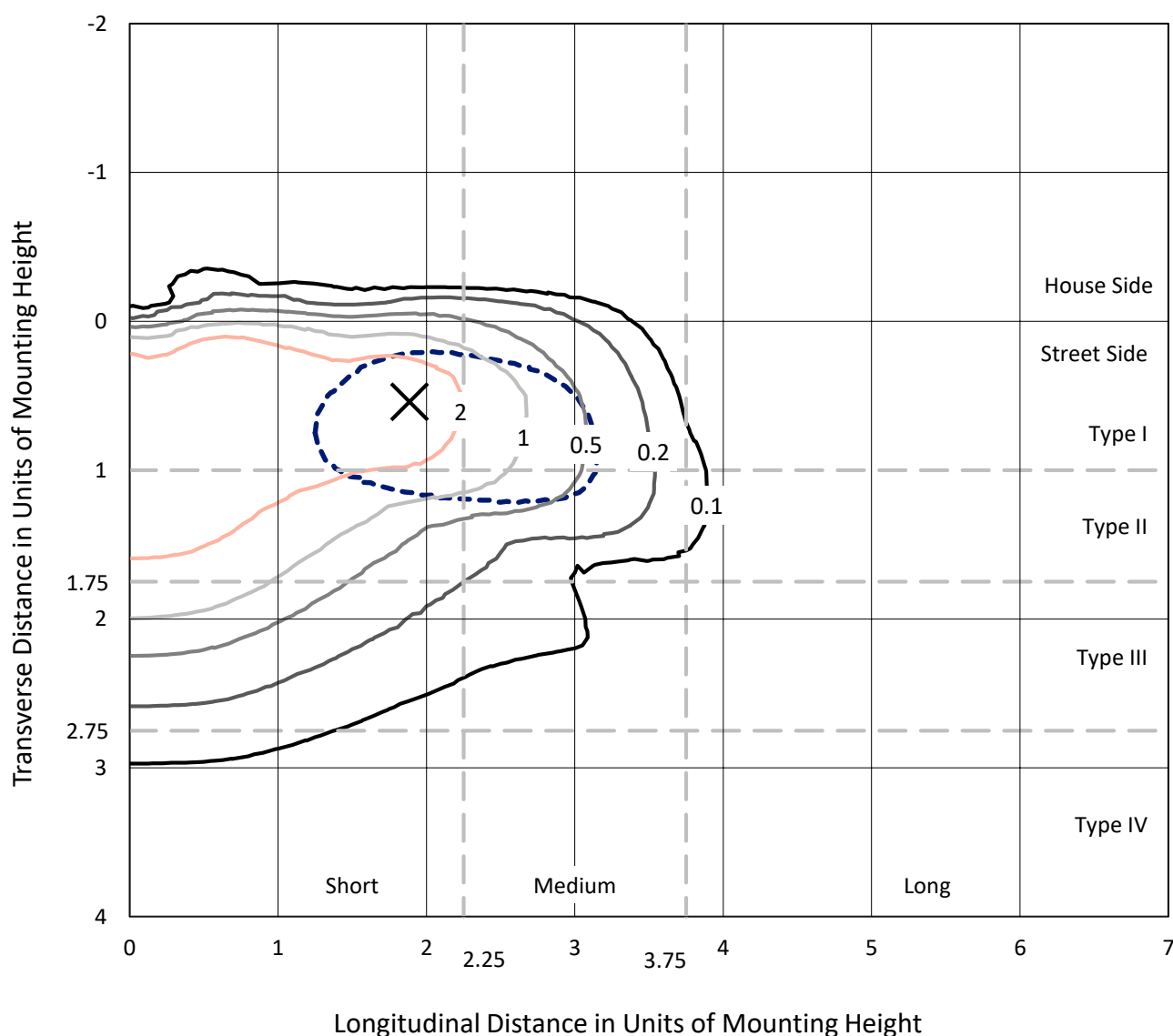


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

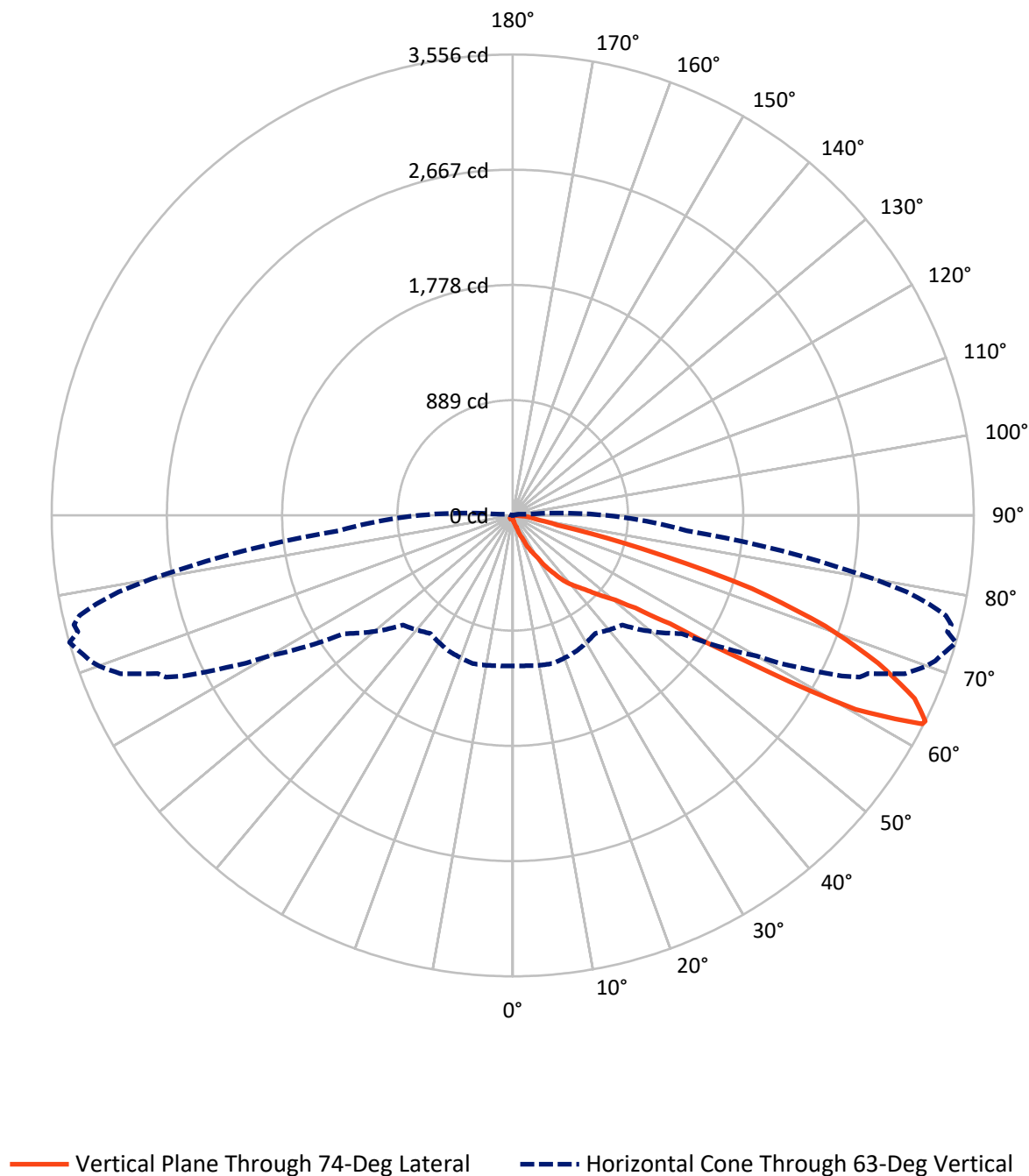


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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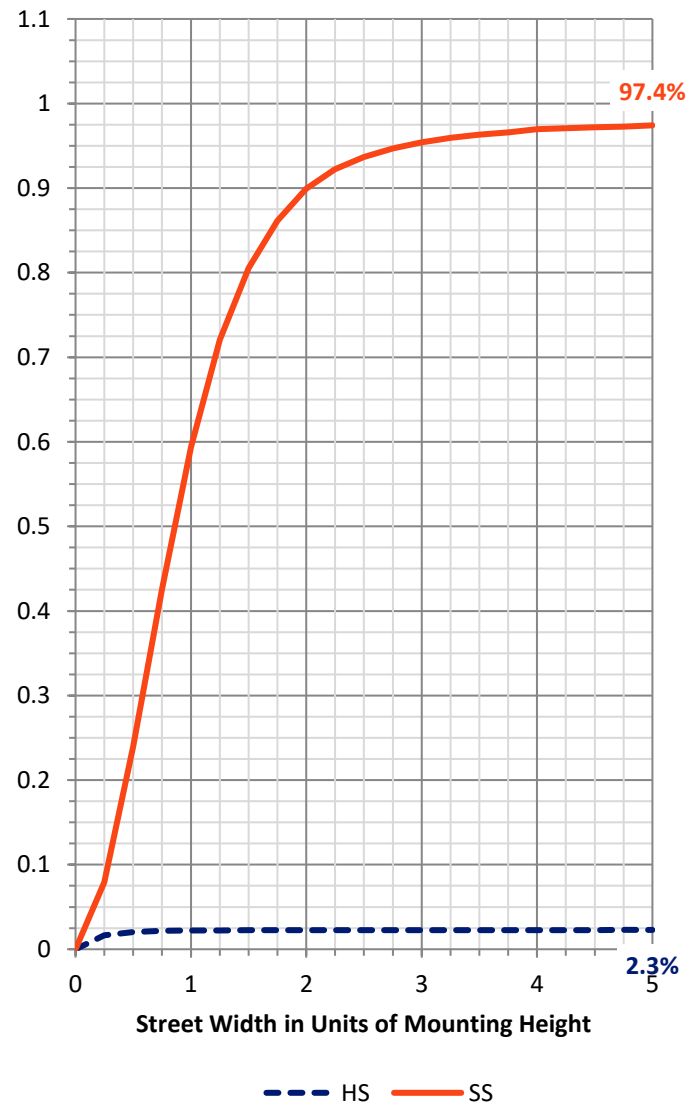
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.2	0.0	55.2
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2322.0	0.0	2322.0
	% Fixture	97.7	0.0	97.7
Total	Lumens	2377.1	0.0	2377.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.2
10°-20°	27.3	1.2
20°-30°	88.7	3.7
30°-40°	212.0	8.9
40°-50°	398.2	16.8
50°-60°	625.9	26.3
60°-70°	735.2	30.9
70°-80°	252.4	10.6
80°-90°	33.4	1.4
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°	2377.1	100.0
0°-180°	2377.1	100.0

Coefficient of Utilization



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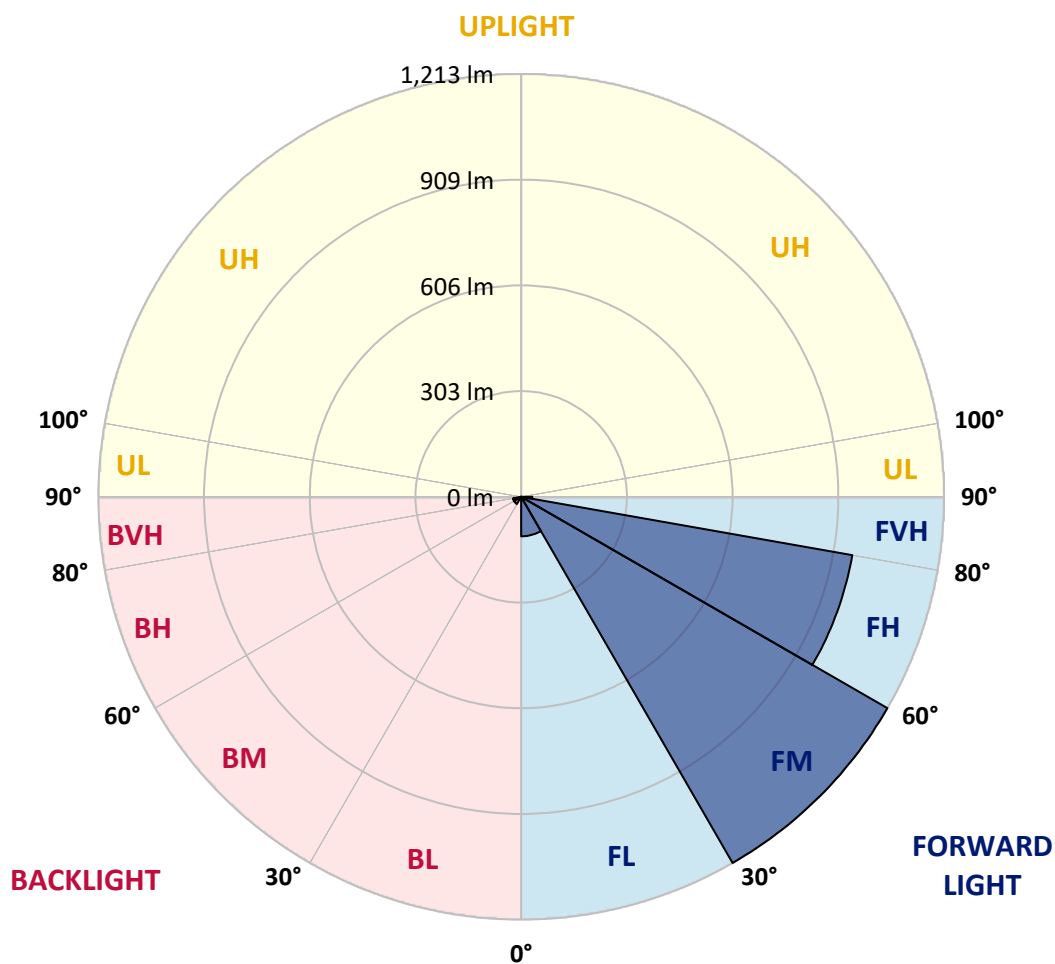
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.2	4.8			
FM	(30°-60°)	1212.5	51.0			
FH	(60°-80°)	964.3	40.6			G1/1800
FVH	(80°-90°)	32.0	1.3			G1/100
BL	(0°-30°)	6.8	0.3	B0/110		
BM	(30°-60°)	23.6	1.0	B0/220		
BH	(60°-80°)	23.4	1.0	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	45.4	44.6	42.9	41.3	40.5	38.8	38.0	36.3	36.3	35.5	36.3
5°	66.0	62.7	59.4	57.0	54.5	52.0	47.1	43.8	42.9	42.9	41.3
7.5°	124.7	119.7	116.4	111.4	102.4	77.6	57.8	53.7	52.8	52.0	50.4
10°	142.0	141.2	139.5	133.7	126.3	113.1	99.9	68.5	66.9	64.4	65.2
12.5°	203.9	201.4	203.1	192.3	176.7	144.5	131.3	117.2	113.9	111.4	102.4
15°	279.0	274.9	222.1	214.6	200.6	199.0	151.1	135.4	132.1	126.3	120.5
17.5°	295.5	298.0	293.9	276.6	246.0	220.4	215.5	171.7	166.8	164.3	157.7
20°	380.6	380.6	364.1	300.5	301.3	275.7	249.3	218.8	197.3	192.3	199.0
22.5°	392.9	394.6	389.6	394.6	323.6	326.1	328.6	310.4	303.0	293.9	282.3
25°	459.8	462.3	450.7	404.5	418.5	378.9	380.6	357.5	345.9	364.9	361.6
27.5°	522.6	524.2	458.2	457.3	442.5	456.5	476.3	455.7	449.9	441.7	426.0
30°	549.8	553.1	532.5	552.3	526.7	497.0	522.6	552.3	546.5	532.5	536.6
32.5°	667.8	669.5	657.9	594.4	592.7	593.6	631.5	610.9	603.5	586.9	589.4
35°	813.1	812.3	721.5	706.6	665.4	691.0	692.6	712.4	686.8	705.0	687.7
37.5°	929.5	924.6	865.2	849.5	795.0	772.7	788.4	774.3	757.0	771.9	766.1
40°	1031.9	1036.9	1009.6	946.9	915.5	882.5	878.4	839.6	856.1	843.7	842.0
42.5°	1112.8	1121.1	1104.6	1044.3	1000.5	994.8	977.4	929.5	956.0	932.8	936.1
45°	1212.7	1210.2	1179.7	1116.9	1087.2	1094.6	1105.4	1068.2	1069.9	1061.6	1042.6
47.5°	1307.6	1306.8	1287.8	1199.5	1162.3	1181.3	1243.2	1235.0	1204.4	1216.8	1173.1
50°	1388.5	1389.4	1367.1	1268.8	1221.8	1266.4	1386.9	1396.8	1381.9	1386.1	1334.9
52.5°	1416.6	1418.3	1408.3	1308.5	1259.8	1327.4	1503.3	1554.5	1569.3	1573.5	1517.3
55°	1388.5	1394.3	1391.8	1305.2	1258.9	1354.7	1604.8	1708.8	1747.6	1769.1	1735.3
57.5°	1335.7	1340.7	1350.6	1296.1	1250.7	1363.8	1694.8	1920.2	1989.5	2034.1	2045.7
60°	1273.8	1279.6	1309.3	1286.2	1238.3	1348.1	1742.7	2110.9	2234.7	2332.9	2488.1
62.5°	1189.6	1195.4	1220.1	1197.0	1145.8	1238.3	1635.4	2163.7	2336.2	2476.6	2765.5
63°	1160.7	1164.0	1183.0	1156.6	1110.3	1195.4	1589.1	2167.0	2350.3	2497.2	2824.1
65°	913.0	919.6	941.1	913.0	903.1	988.2	1325.8	2060.5	2313.1	2472.4	2874.5
67.5°	498.6	506.9	539.1	526.7	583.6	679.4	879.2	1504.1	1850.0	2076.2	2534.4
70°	362.4	362.4	389.6	397.9	426.0	500.3	580.3	764.4	965.9	1229.2	1814.5
72.5°	263.3	269.1	292.2	315.4	355.8	445.8	572.1	444.1	457.3	539.1	955.1
75°	131.3	142.8	168.4	195.6	237.8	339.3	605.9	460.6	418.5	407.8	487.9
77.5°	30.5	31.4	51.2	100.7	121.4	194.8	479.6	563.0	506.9	479.6	429.3
80°	15.7	16.5	20.6	50.4	55.3	70.2	251.8	594.4	601.0	584.5	482.1
82.5°	8.3	8.3	12.4	21.5	21.5	24.8	71.8	361.6	501.1	568.8	556.4
85°	3.3	3.3	7.4	10.7	11.6	10.7	19.8	142.0	251.0	326.1	436.7
87.5°	0.8	0.8	2.5	4.1	5.0	5.8	9.1	26.4	43.8	60.3	100.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	35.5	35.5	35.5	34.7	34.7	34.7	34.7	33.8	33.8	33.8	31.4
5°	40.5	40.5	39.6	38.8	38.8	38.0	38.0	38.0	37.1	37.1	36.3
7.5°	49.5	48.7	47.9	46.2	45.4	44.6	44.6	42.9	42.1	41.3	40.5
10°	65.2	64.4	61.9	60.3	58.6	57.0	55.3	54.5	52.8	52.0	50.4
12.5°	89.2	77.6	75.1	72.6	69.3	66.9	65.2	63.6	62.7	60.3	61.1
15°	128.8	126.3	123.8	122.2	118.1	99.9	92.5	90.8	87.5	85.0	81.7
17.5°	156.0	153.5	147.8	138.7	137.0	133.7	129.6	125.5	105.7	95.8	92.5
20°	202.3	198.1	203.9	202.3	195.6	189.0	181.6	177.5	172.5	163.5	148.6
22.5°	253.4	253.4	246.0	241.1	232.8	222.1	221.2	212.2	194.8	188.2	185.7
25°	361.6	366.5	351.7	332.7	331.0	321.1	297.2	284.8	276.6	267.5	263.3
27.5°	429.3	413.6	399.6	398.7	388.8	358.3	345.1	338.5	342.6	321.1	307.9
30°	519.3	507.7	504.4	489.5	471.4	449.1	445.0	435.9	412.8	382.2	364.9
32.5°	581.2	586.9	597.7	581.2	559.7	553.9	551.5	526.7	495.3	474.7	454.9
35°	697.6	689.3	673.6	648.0	641.4	641.4	623.3	586.1	563.8	550.6	545.7
37.5°	764.4	752.1	728.9	716.6	719.9	714.1	672.0	651.3	641.4	638.1	605.9
40°	836.3	812.3	791.7	795.0	802.4	761.1	738.0	726.5	729.8	703.3	662.9
42.5°	917.2	885.8	875.1	894.0	855.2	824.7	806.5	813.1	799.1	761.1	734.7
45°	1010.4	979.1	985.7	979.9	932.0	903.9	906.4	892.4	866.0	837.1	811.5
47.5°	1121.9	1106.2	1126.0	1068.2	1027.0	1017.9	1012.1	984.0	949.4	926.2	902.3
50°	1287.0	1295.2	1277.1	1208.6	1170.6	1168.1	1135.1	1093.8	1065.8	1027.0	989.8
52.5°	1506.6	1530.5	1476.0	1421.6	1398.4	1381.1	1326.6	1279.6	1232.5	1185.5	1130.1
55°	1743.5	1790.6	1729.5	1704.7	1697.3	1708.0	1643.6	1595.7	1538.0	1472.7	1405.0
57.5°	2139.8	2152.1	2111.7	2146.4	2173.6	2177.7	2194.2	2158.7	2136.5	2117.5	2051.4
60°	2648.3	2669.7	2707.7	2829.9	2879.4	2949.6	2966.9	3013.2	3023.1	3039.6	2985.9
62.5°	2919.1	2966.1	3087.5	3231.1	3293.8	3360.7	3414.4	3456.5	3489.5	3543.2	3449.9
63°	2951.3	2999.1	3127.1	3261.6	3327.7	3396.2	3446.6	3479.6	3517.6	3555.5	3470.5
65°	2946.3	2999.1	3161.8	3233.6	3304.6	3342.6	3388.0	3390.4	3460.6	3406.9	3397.9
67.5°	2612.8	2752.3	2866.2	2943.8	3004.1	3033.8	3052.8	3075.9	3123.0	3038.8	3085.8
70°	2049.8	2228.1	2329.6	2425.4	2503.0	2525.3	2541.8	2614.4	2550.0	2557.5	2544.3
72.5°	1166.5	1443.0	1615.6	1718.7	1846.7	1869.8	1908.6	1969.7	1887.1	1929.3	1892.1
75°	625.7	733.9	884.1	989.8	1041.0	1090.5	1138.4	1102.1	1079.0	1028.6	1018.7
77.5°	450.7	462.3	474.7	465.6	452.4	449.1	428.4	388.8	378.1	346.7	331.0
80°	451.6	408.6	359.1	296.4	230.3	200.6	188.2	184.1	184.1	184.1	173.4
82.5°	511.0	457.3	393.8	315.4	244.4	192.3	159.3	154.4	151.1	151.1	141.2
85°	415.2	409.5	363.2	290.6	227.8	172.5	133.7	109.0	99.9	89.2	85.0
87.5°	100.7	104.8	91.6	80.1	66.9	52.8	46.2	37.1	31.4	28.9	27.2
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):

	76°	77°	78°	79°	80°	85°	95°	105°	115°	125°	135°
0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	31.4	30.5	29.7	29.7	28.9	24.8	21.5	19.0	17.3	16.5	15.7
5°	36.3	35.5	35.5	34.7	34.7	28.1	19.0	16.5	14.9	13.2	13.2
7.5°	39.6	38.8	38.8	38.0	37.1	33.8	19.0	15.7	12.4	13.2	6.6
10°	49.5	48.7	47.1	46.2	45.4	42.9	23.1	16.5	14.9	5.8	5.0
12.5°	60.3	57.8	56.1	54.5	51.2	43.8	23.1	17.3	9.1	7.4	8.3
15°	77.6	74.3	71.0	68.5	66.0	57.0	30.5	21.5	9.9	9.1	9.1
17.5°	88.3	84.2	80.9	80.1	78.4	57.0	29.7	14.9	11.6	11.6	9.1
20°	135.4	134.6	127.1	118.1	109.8	84.2	40.5	19.0	15.7	11.6	11.6
22.5°	177.5	156.0	145.3	132.1	124.7	100.7	41.3	20.6	18.2	14.0	10.7
25°	242.7	219.6	207.2	189.0	182.4	126.3	45.4	26.4	20.6	14.9	12.4
27.5°	295.5	279.0	271.6	262.5	240.2	156.8	52.8	28.1	20.6	16.5	12.4
30°	344.2	345.1	322.8	294.7	272.4	187.4	56.1	30.5	21.5	15.7	12.4
32.5°	452.4	426.0	388.0	363.2	340.1	215.5	61.1	33.0	20.6	15.7	12.4
35°	515.1	474.7	453.2	430.9	401.2	256.7	66.9	32.2	20.6	14.9	11.6
37.5°	566.3	535.8	514.3	482.1	450.7	288.1	70.2	29.7	19.8	14.0	9.9
40°	630.7	609.2	570.4	542.4	510.2	301.3	72.6	27.2	18.2	12.4	8.3
42.5°	705.8	674.5	638.1	611.7	557.2	342.6	80.1	25.6	16.5	10.7	7.4
45°	784.2	743.8	720.7	665.4	601.8	372.3	85.9	24.8	14.9	9.1	5.8
47.5°	857.7	833.0	782.6	712.4	683.5	418.5	84.2	23.1	13.2	7.4	4.1
50°	959.3	925.4	856.9	817.3	770.2	455.7	81.7	22.3	11.6	6.6	3.3
52.5°	1101.3	1029.4	975.8	930.4	851.1	507.7	80.1	20.6	9.9	5.0	1.7
55°	1330.7	1218.5	1152.4	1067.4	980.7	568.8	75.9	18.2	9.1	4.1	1.7
57.5°	1887.1	1765.8	1623.8	1462.0	1307.6	711.6	74.3	16.5	7.4	2.5	0.8
60°	2873.7	2794.4	2585.5	2323.9	2105.1	1001.4	80.1	14.0	5.8	1.7	0.8
62.5°	3449.0	3376.4	3227.8	3038.8	2744.9	1305.2	90.0	11.6	4.1	1.7	0.8
63°	3486.2	3427.6	3281.5	3095.7	2830.7	1347.3	94.9	11.6	4.1	1.7	0.8
65°	3416.8	3365.7	3283.9	3139.5	2966.9	1469.4	109.8	10.7	3.3	1.7	0.8
67.5°	3068.5	3014.0	2957.9	2897.6	2774.6	1509.1	120.5	9.9	2.5	1.7	0.8
70°	2537.7	2488.1	2427.0	2400.6	2333.8	1410.8	126.3	9.1	2.5	1.7	0.8
72.5°	1852.5	1795.5	1746.0	1674.2	1610.6	1067.4	93.3	9.1	1.7	1.7	0.8
75°	941.1	881.7	766.9	713.3	657.9	447.4	38.0	7.4	1.7	1.7	0.8
77.5°	274.9	246.8	199.8	161.8	123.0	80.1	14.0	5.0	1.7	1.7	0.8
80°	162.6	137.9	113.9	90.0	72.6	38.8	8.3	3.3	1.7	2.5	0.8
82.5°	132.9	118.9	98.2	80.9	63.6	28.9	5.8	3.3	2.5	2.5	0.8
85°	76.8	69.3	58.6	47.1	39.6	20.6	4.1	3.3	2.5	3.3	0.8
87.5°	28.1	25.6	23.9	23.1	21.5	14.9	4.1	4.1	3.3	4.1	0.8
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):

	145°	155°	165°	175°	180°
0°	23.1	23.1	23.1	23.1	23.1
2.5°	14.9	15.7	15.7	15.7	15.7
5°	14.0	14.0	12.4	9.9	9.9
7.5°	5.8	6.6	6.6	6.6	6.6
10°	5.0	8.3	9.1	9.1	9.1
12.5°	7.4	7.4	8.3	8.3	9.1
15°	7.4	9.1	9.9	9.9	9.9
17.5°	9.9	8.3	9.1	9.1	9.9
20°	9.1	9.9	9.9	9.9	9.9
22.5°	10.7	9.9	9.1	9.9	9.9
25°	9.9	9.9	9.1	9.1	9.1
27.5°	9.9	9.1	9.1	9.1	9.1
30°	9.9	9.1	8.3	8.3	8.3
32.5°	9.1	8.3	8.3	7.4	7.4
35°	8.3	6.6	7.4	7.4	7.4
37.5°	7.4	5.8	5.8	6.6	5.8
40°	5.8	5.0	4.1	5.0	5.0
42.5°	4.1	3.3	3.3	3.3	3.3
45°	3.3	1.7	1.7	1.7	1.7
47.5°	1.7	0.8	0.8	0.8	0.8
50°	0.8	0.0	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
63°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.8	0.0	0.0
75°	0.8	0.8	0.8	0.8	0.8
77.5°	1.7	1.7	1.7	0.8	0.8
80°	2.5	1.7	1.7	0.8	0.8
82.5°	2.5	2.5	2.5	1.7	0.8
85°	3.3	2.5	2.5	2.5	0.8
87.5°	4.1	3.3	3.3	2.5	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)