

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: P179238

Luminaire Tested: **UTLD-E02-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179238
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
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-SL2-HSS-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2741.4 lumens
Efficiency: N/A
Efficacy: 52.6 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): 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

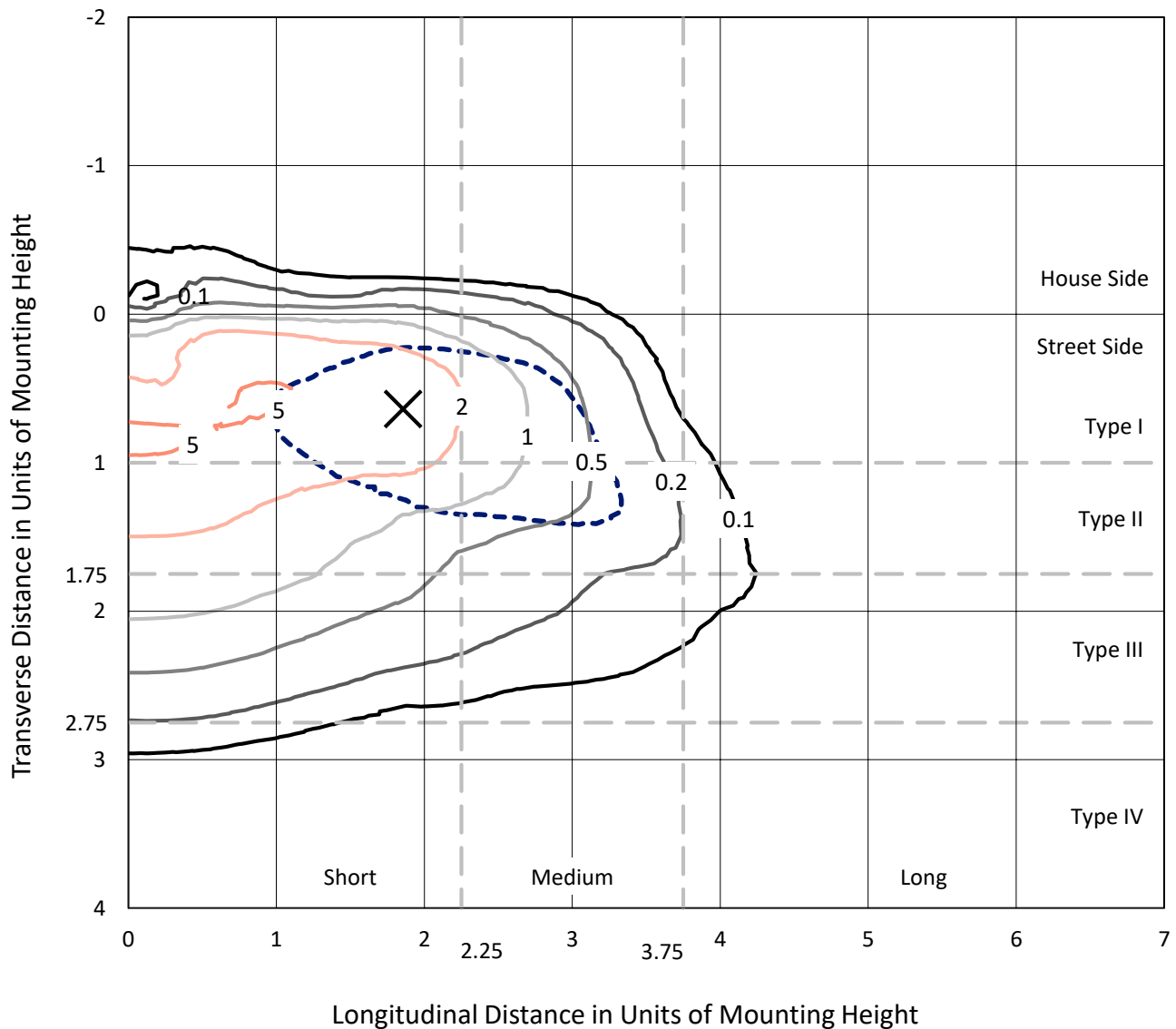


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

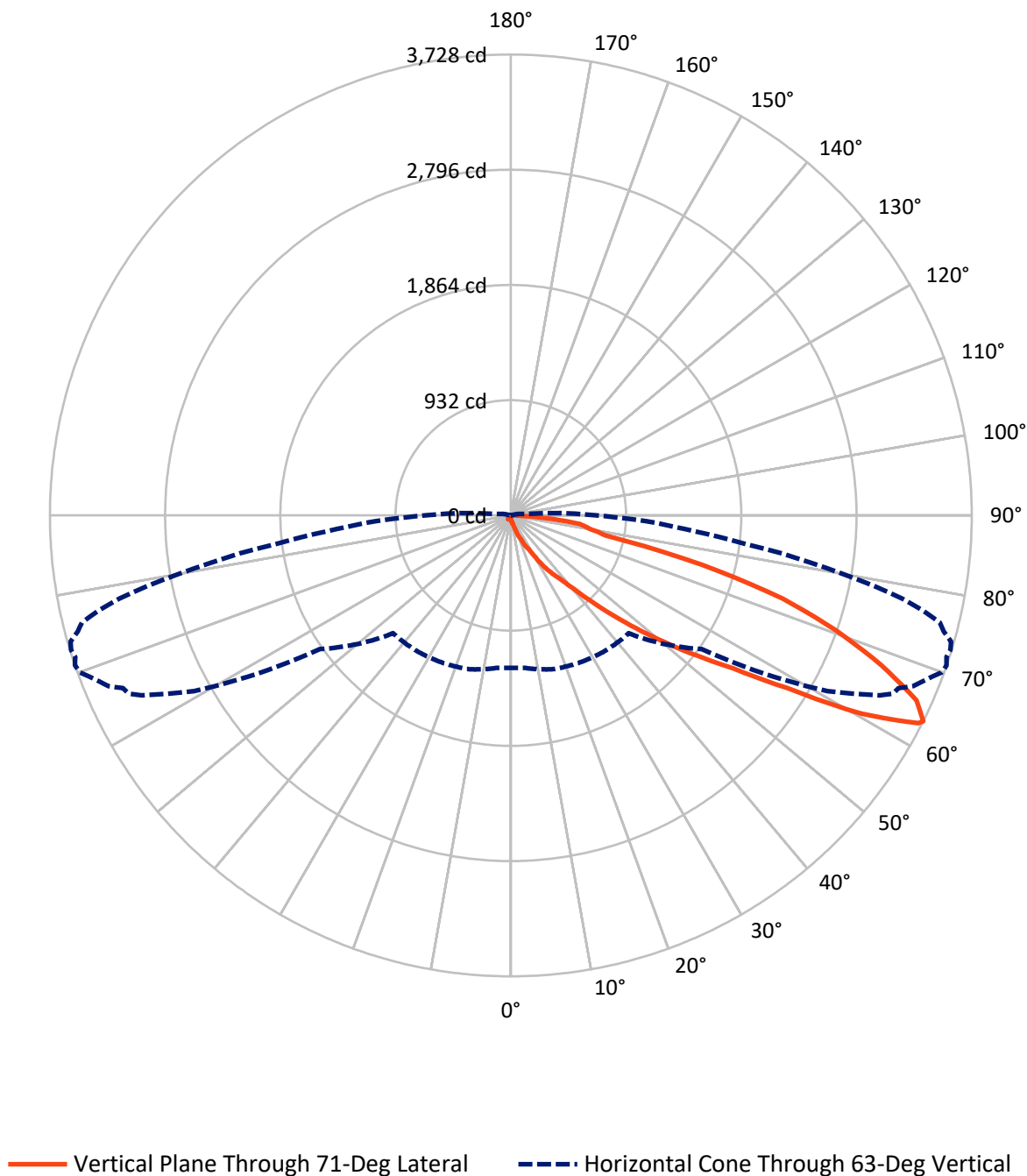


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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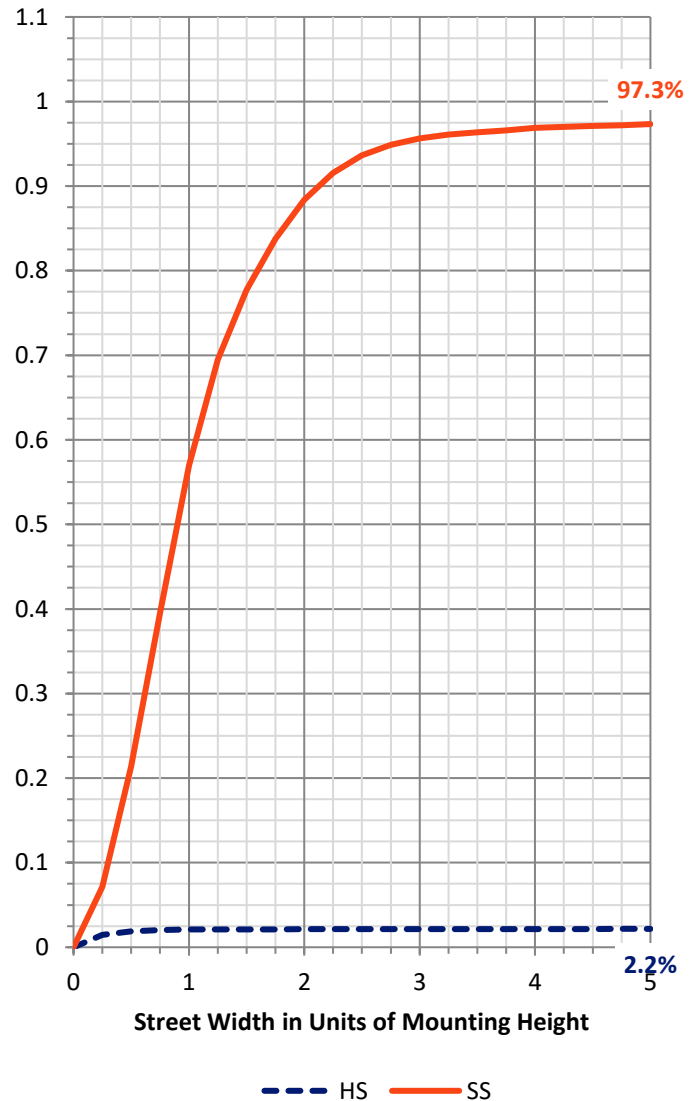
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	60.8	0.0	60.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2680.6	0.0	2680.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	2741.4	0.0	2741.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	21.7	0.8
20°-30°	66.5	2.4
30°-40°	205.0	7.5
40°-50°	487.1	17.8
50°-60°	703.8	25.7
60°-70°	871.0	31.8
70°-80°	330.7	12.1
80°-90°	51.6	1.9
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°	2741.4	100.0
0°-180°	2741.4	100.0

Coefficient of Utilization



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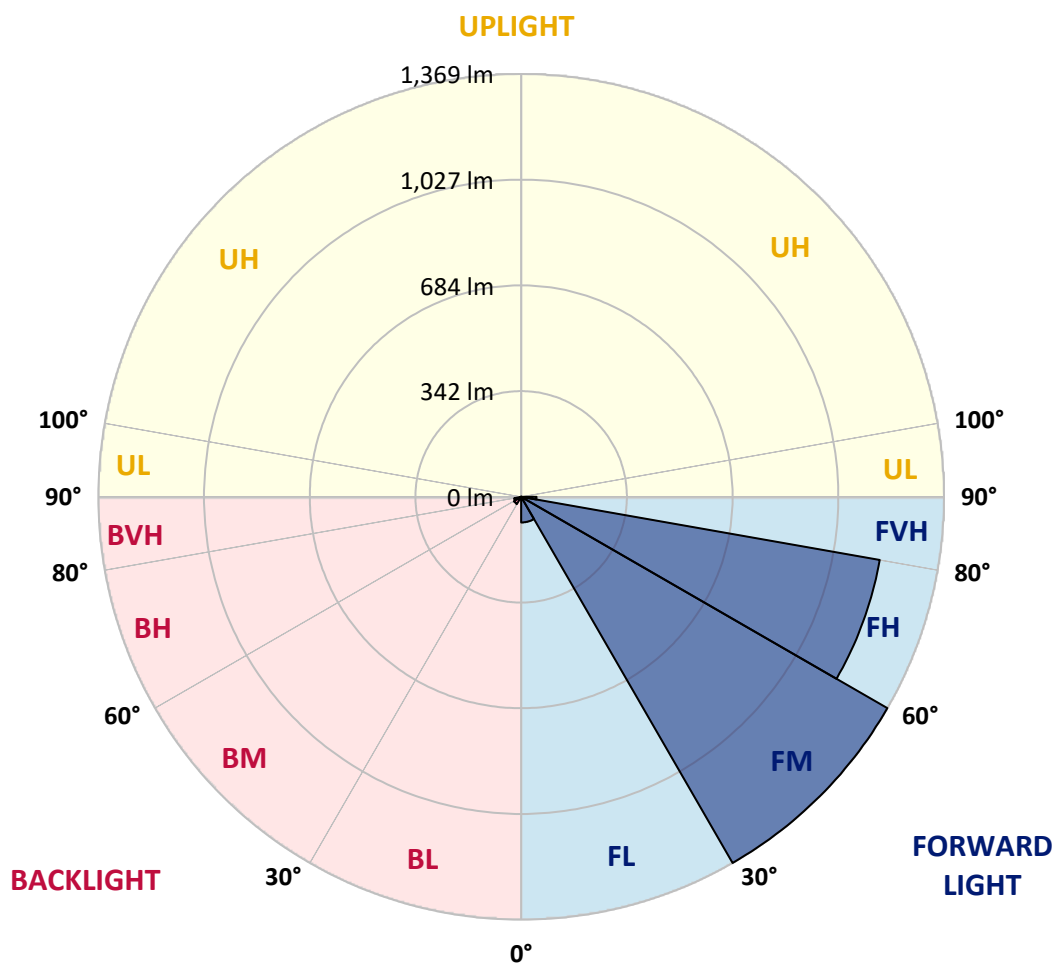
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.1	3.0			
FM	(30°-60°)	1369.0	49.9			
FH	(60°-80°)	1178.8	43.0			G1/1800
FVH	(80°-90°)	49.8	1.8			G1/100
BL	(0°-30°)	9.1	0.3	B0/110		
BM	(30°-60°)	27.0	1.0	B0/220		
BH	(60°-80°)	22.9	0.8	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	52.3	51.5	49.8	49.8	49.0	49.0	48.1	47.3	47.3	47.3	46.4
5°	61.6	60.8	58.2	55.7	55.7	54.0	50.6	49.8	49.0	48.1	48.1
7.5°	100.4	99.6	97.9	95.4	91.2	62.5	55.7	54.9	54.0	53.2	52.3
10°	112.3	112.3	111.4	108.0	103.8	97.1	88.6	64.1	62.5	63.3	65.8
12.5°	151.1	146.9	149.4	145.2	122.4	114.8	117.3	108.9	107.2	106.3	82.7
15°	161.2	157.0	149.4	150.2	153.6	162.9	132.5	124.9	120.7	118.2	118.2
17.5°	177.2	177.2	178.1	178.1	171.3	174.7	172.2	152.8	151.9	148.5	147.7
20°	217.7	216.1	192.4	181.5	200.0	204.2	205.1	176.4	170.5	169.6	174.7
22.5°	230.4	228.7	224.5	228.7	205.1	230.4	265.0	264.2	257.4	254.0	232.9
25°	293.7	291.2	276.0	236.3	252.4	253.2	287.0	289.5	287.8	293.7	311.4
27.5°	339.3	342.7	308.1	282.7	265.9	302.1	365.4	373.0	373.0	364.6	365.4
30°	432.1	430.4	392.5	328.3	320.7	324.9	402.6	428.7	450.7	437.2	452.4
32.5°	621.2	612.7	554.5	437.2	384.0	401.7	482.8	514.0	508.9	501.3	514.8
35°	894.6	888.7	768.9	656.6	552.0	510.6	570.5	622.9	611.9	636.4	645.7
37.5°	1087.1	1071.9	1020.4	907.3	805.2	736.8	762.1	741.9	739.3	756.2	754.5
40°	1228.9	1229.7	1212.0	1120.0	1045.7	1007.7	1011.1	936.0	930.9	936.8	925.0
42.5°	1298.1	1304.0	1318.3	1272.7	1242.4	1246.6	1280.3	1217.0	1214.5	1199.3	1153.7
45°	1340.3	1347.9	1391.7	1406.9	1397.6	1439.8	1531.8	1480.4	1484.6	1498.1	1433.1
47.5°	1345.3	1356.3	1413.7	1459.3	1496.4	1581.6	1722.6	1734.4	1747.1	1758.0	1709.9
50°	1295.5	1299.7	1372.3	1438.2	1493.0	1653.4	1867.8	1941.2	1964.0	1964.0	1923.5
52.5°	1205.2	1211.1	1280.3	1352.1	1404.4	1650.0	1961.4	2094.8	2145.4	2147.1	2088.9
55°	1166.4	1173.1	1225.5	1288.8	1314.9	1568.1	2018.8	2234.0	2287.2	2296.5	2261.9
57.5°	1166.4	1174.0	1216.2	1253.3	1266.8	1472.8	2053.4	2396.9	2456.9	2514.2	2512.6
60°	1218.7	1227.2	1260.9	1258.4	1245.7	1405.2	2038.2	2596.1	2693.2	2789.4	2900.0
62.5°	1249.1	1253.3	1299.7	1313.2	1310.7	1355.4	1919.2	2744.7	2894.9	3035.0	3274.7
63°	1232.2	1237.3	1288.8	1313.2	1335.2	1347.9	1886.3	2760.7	2930.3	3054.4	3320.3
65°	1141.1	1141.9	1196.8	1227.2	1375.7	1347.0	1709.9	2729.5	2937.1	3060.3	3356.6
67.5°	903.9	909.0	947.0	998.4	1136.0	1367.3	1469.4	2371.6	2581.8	2680.5	3010.5
70°	476.0	497.1	528.3	596.7	784.9	1161.3	1229.7	1747.1	1950.5	2097.3	2476.3
72.5°	144.3	134.2	174.7	255.7	399.2	803.5	1078.6	1233.9	1351.2	1497.2	1900.7
75°	65.0	66.7	76.0	108.9	174.7	431.3	942.7	1013.6	1029.7	1079.5	1324.2
77.5°	37.1	38.0	44.7	61.6	91.2	215.2	714.0	909.0	896.3	914.0	958.8
80°	24.5	25.3	32.1	43.9	50.6	105.5	405.1	709.0	750.3	795.9	828.8
82.5°	13.5	13.5	20.3	35.4	32.9	50.6	159.5	464.2	538.5	585.7	684.5
85°	5.9	6.8	11.8	23.6	20.3	23.6	76.8	157.8	180.6	189.9	236.3
87.5°	1.7	1.7	3.4	8.4	8.4	11.0	22.8	70.9	75.1	81.0	98.7
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°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	46.4	46.4	44.7	43.9	41.4	41.4	39.7	40.5	38.0	37.1	35.4
5°	47.3	47.3	47.3	47.3	46.4	46.4	46.4	46.4	46.4	46.4	45.6
7.5°	51.5	51.5	51.5	51.5	50.6	49.8	48.1	48.1	47.3	47.3	47.3
10°	65.8	65.0	63.3	62.5	61.6	60.8	59.1	59.9	58.2	59.1	57.4
12.5°	78.5	76.8	74.3	71.7	70.9	70.1	68.4	67.5	66.7	68.4	67.5
15°	122.4	121.5	122.4	118.2	96.2	95.4	96.2	94.5	92.8	90.3	86.9
17.5°	146.0	143.5	135.0	131.7	132.5	130.0	123.2	109.7	102.1	98.7	97.1
20°	187.4	188.2	189.9	189.9	186.5	182.3	178.1	177.2	172.2	154.5	147.7
22.5°	224.5	224.5	220.3	216.1	211.0	211.8	205.9	192.4	188.2	183.1	180.6
25°	322.4	317.3	305.5	301.3	297.1	286.1	271.8	264.2	261.6	258.3	247.3
27.5°	364.6	357.9	355.3	350.3	335.1	317.3	311.4	307.2	311.4	291.2	276.8
30°	441.4	440.6	438.0	427.1	408.5	394.1	395.0	390.8	362.9	341.8	328.3
32.5°	519.9	514.0	534.2	514.0	497.1	503.0	495.4	469.3	449.8	427.9	425.4
35°	643.1	643.1	626.2	604.3	606.8	611.0	574.8	547.8	535.1	525.8	507.2
37.5°	756.2	751.2	719.9	708.1	721.6	698.0	657.5	639.7	635.5	619.5	589.9
40°	909.8	879.4	855.8	853.3	851.6	796.7	773.9	775.6	753.7	721.6	687.9
42.5°	1120.8	1071.9	1054.1	1055.8	995.1	951.2	942.7	921.6	892.9	856.7	826.3
45°	1363.9	1316.6	1317.5	1264.3	1187.5	1149.5	1141.1	1108.2	1072.7	1030.5	986.6
47.5°	1628.1	1594.3	1611.2	1504.8	1437.3	1415.4	1361.4	1309.9	1268.5	1217.0	1162.2
50°	1866.1	1883.8	1846.7	1753.8	1704.9	1675.3	1612.0	1547.9	1494.7	1416.2	1341.9
52.5°	2088.9	2122.6	2064.4	1979.2	1985.9	1929.4	1880.4	1815.4	1744.5	1651.7	1573.2
55°	2311.7	2319.3	2271.2	2243.3	2241.6	2205.3	2183.4	2137.0	2041.6	1947.9	1912.5
57.5°	2592.7	2583.5	2549.7	2593.6	2597.0	2608.8	2632.4	2584.3	2555.6	2487.2	2432.4
60°	2998.7	2991.1	3006.3	3135.4	3161.6	3240.1	3257.0	3258.6	3234.2	3256.1	3122.8
62.5°	3357.4	3387.8	3486.5	3546.4	3608.1	3684.0	3700.9	3669.7	3685.7	3687.4	3583.6
63°	3409.7	3433.4	3535.5	3587.0	3646.0	3709.3	3727.9	3704.3	3718.6	3704.3	3625.8
65°	3432.5	3443.5	3563.3	3549.8	3624.9	3652.8	3605.5	3596.2	3649.4	3573.5	3559.1
67.5°	3095.8	3162.4	3242.6	3242.6	3300.8	3294.9	3231.6	3245.1	3246.0	3216.4	3208.9
70°	2588.5	2723.6	2740.4	2801.2	2841.7	2806.3	2792.8	2802.0	2731.2	2747.2	2676.3
72.5°	2059.3	2204.5	2231.5	2344.6	2356.4	2276.2	2295.7	2240.0	2162.3	2114.2	2016.3
75°	1498.9	1590.9	1671.1	1703.2	1704.0	1628.1	1595.1	1466.9	1352.9	1216.2	1179.9
77.5°	1046.5	1036.4	1066.8	1049.1	930.1	892.1	784.9	722.5	664.2	562.9	507.2
80°	845.7	836.4	850.7	812.8	761.3	718.2	641.4	584.0	519.1	475.2	407.6
82.5°	721.6	759.6	768.9	714.9	688.7	652.4	563.8	501.3	438.0	381.5	328.3
85°	275.1	328.3	324.1	337.6	338.4	319.9	281.9	223.7	177.2	143.5	116.5
87.5°	106.3	119.0	111.4	110.6	111.4	102.1	86.9	76.8	65.0	52.3	43.9
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	34.6	32.9	32.9	31.2	31.2	30.4	30.4	29.5	29.5	28.7	28.7
5°	45.6	45.6	44.7	43.0	38.8	37.1	33.8	31.2	30.4	29.5	28.7
7.5°	47.3	47.3	46.4	46.4	45.6	44.7	43.9	41.4	37.1	33.8	31.2
10°	57.4	55.7	56.5	58.2	57.4	57.4	56.5	55.7	54.0	52.3	42.2
12.5°	66.7	65.8	64.1	60.8	59.1	58.2	58.2	57.4	56.5	55.7	54.0
15°	84.4	81.9	81.0	78.5	76.8	74.3	75.1	74.3	72.6	69.2	61.6
17.5°	93.7	92.0	89.5	90.3	88.6	83.6	75.1	72.6	70.1	67.5	65.0
20°	145.2	142.6	137.6	129.1	119.0	113.9	109.7	105.5	106.3	105.5	98.7
22.5°	169.6	154.5	145.2	138.4	135.9	135.9	132.5	134.2	123.2	119.8	105.5
25°	227.9	216.9	205.1	198.3	195.0	187.4	173.0	162.9	151.9	148.5	137.6
27.5°	272.6	262.5	262.5	251.5	232.9	218.6	204.2	195.8	182.3	173.0	161.2
30°	328.3	315.7	299.6	279.4	261.6	248.1	238.0	217.7	205.1	192.4	168.8
32.5°	410.2	386.5	366.3	347.7	331.7	304.7	288.6	271.8	245.6	218.6	206.8
35°	486.1	456.6	433.8	414.4	381.5	362.9	338.4	300.5	272.6	259.1	232.1
37.5°	560.4	532.6	510.6	472.6	443.1	411.9	371.4	343.5	319.0	285.3	248.1
40°	657.5	626.2	581.5	548.6	509.8	457.4	427.1	393.3	351.9	310.6	279.4
42.5°	784.9	735.1	698.8	657.5	586.6	552.8	511.5	451.5	399.2	362.1	310.6
45°	938.5	887.0	848.2	767.2	715.7	664.2	601.8	531.7	479.4	421.2	377.3
47.5°	1101.4	1066.0	983.2	902.2	851.6	774.8	703.0	630.5	557.9	506.4	427.1
50°	1304.8	1215.3	1124.2	1066.0	984.1	898.0	813.6	721.6	658.3	579.0	502.2
52.5°	1508.2	1385.0	1319.2	1233.1	1121.7	1022.9	925.0	835.6	746.1	660.8	569.7
55°	1782.5	1659.3	1560.5	1436.5	1309.9	1196.8	1095.5	984.9	887.0	777.3	677.7
57.5°	2283.8	2148.0	2006.2	1820.5	1666.0	1529.3	1392.6	1261.8	1115.8	997.6	876.9
60°	3033.3	2890.7	2695.7	2478.8	2240.0	2027.3	1832.3	1636.5	1455.9	1310.7	1124.2
62.5°	3526.2	3379.3	3198.7	2941.3	2689.0	2407.1	2164.0	1892.2	1690.5	1482.0	1309.9
63°	3575.1	3419.0	3237.5	2993.6	2726.9	2462.8	2216.3	1920.1	1713.3	1504.0	1325.9
65°	3500.0	3403.0	3234.2	3029.9	2823.1	2565.7	2296.5	2005.3	1771.5	1558.9	1350.4
67.5°	3127.8	3083.1	2973.4	2862.0	2677.1	2498.2	2251.8	1995.2	1747.1	1545.3	1352.9
70°	2649.3	2587.7	2501.6	2456.9	2329.4	2177.5	2007.9	1807.0	1628.1	1429.7	1255.0
72.5°	1980.0	1858.5	1789.3	1714.1	1633.1	1526.8	1428.0	1314.9	1169.8	1064.3	888.7
75°	1036.4	901.4	809.4	701.4	614.4	525.8	478.5	446.5	397.5	343.5	303.8
77.5°	420.3	351.1	283.6	241.4	181.5	145.2	124.1	109.7	101.3	90.3	83.6
80°	352.8	281.9	227.0	172.2	126.6	92.0	68.4	53.2	45.6	39.7	36.3
82.5°	285.3	244.8	203.4	160.4	123.2	99.6	73.4	52.3	38.0	30.4	26.2
85°	91.2	80.2	62.5	52.3	43.0	36.3	30.4	24.5	21.9	20.3	18.6
87.5°	38.0	29.5	27.0	24.5	23.6	22.8	22.8	21.1	19.4	16.9	15.2
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	27.9	27.9	27.0	27.9	26.2	24.5	23.6	22.8	21.9	21.9	21.9
5°	28.7	27.9	27.0	26.2	23.6	21.9	20.3	18.6	21.1	18.6	12.7
7.5°	29.5	28.7	27.0	26.2	23.6	21.1	19.4	11.8	7.6	7.6	8.4
10°	39.7	37.1	36.3	33.8	31.2	22.8	14.3	7.6	6.8	10.1	11.8
12.5°	43.0	40.5	38.0	35.4	29.5	24.5	11.8	10.1	12.7	10.1	11.0
15°	58.2	49.8	47.3	44.7	39.7	28.7	13.5	13.5	12.7	11.0	12.7
17.5°	64.1	54.9	52.3	50.6	38.8	18.6	15.2	16.0	12.7	14.3	11.8
20°	92.8	82.7	75.1	71.7	52.3	27.0	21.1	15.2	16.0	12.7	14.3
22.5°	106.3	98.7	91.2	89.5	59.1	29.5	24.5	21.1	15.2	15.2	13.5
25°	131.7	121.5	108.9	97.9	62.5	37.1	29.5	21.1	17.7	14.3	13.5
27.5°	149.4	132.5	121.5	114.8	67.5	38.8	28.7	23.6	17.7	13.5	11.8
30°	156.1	146.9	131.7	114.8	68.4	40.5	30.4	22.8	17.7	13.5	12.7
32.5°	190.7	169.6	147.7	135.0	73.4	43.0	29.5	22.8	16.9	12.7	11.8
35°	204.2	184.0	160.4	142.6	76.8	41.4	28.7	20.3	15.2	11.8	9.3
37.5°	226.2	196.6	173.9	151.9	77.6	38.8	26.2	19.4	13.5	10.1	8.4
40°	242.2	217.7	184.0	159.5	77.6	36.3	24.5	16.9	11.8	8.4	6.8
42.5°	280.2	237.2	203.4	174.7	79.3	32.9	21.9	14.3	10.1	5.9	5.1
45°	320.7	279.4	234.6	200.0	81.0	30.4	19.4	12.7	7.6	4.2	2.5
47.5°	378.1	324.1	273.5	229.6	81.9	27.9	17.7	11.0	5.9	2.5	1.7
50°	433.0	374.7	313.1	268.4	83.6	25.3	15.2	9.3	4.2	1.7	0.8
52.5°	497.1	425.4	362.9	299.6	84.4	23.6	13.5	7.6	2.5	0.8	0.0
55°	588.3	512.3	424.5	357.9	86.1	21.1	11.0	5.9	1.7	0.8	0.0
57.5°	769.7	666.8	558.7	462.5	94.5	18.6	9.3	4.2	0.8	0.8	0.0
60°	990.8	876.1	733.4	594.2	111.4	16.0	7.6	2.5	0.8	0.0	0.0
62.5°	1151.2	1003.5	833.9	683.6	123.2	13.5	6.8	1.7	0.8	0.8	0.0
63°	1177.4	1017.9	841.5	689.5	124.1	13.5	5.9	1.7	0.8	0.0	0.0
65°	1196.8	1031.4	851.6	698.8	126.6	11.8	5.1	1.7	0.8	0.8	0.0
67.5°	1180.7	1001.8	827.1	681.1	128.3	10.1	4.2	1.7	0.8	0.8	0.8
70°	1071.0	911.5	758.7	622.0	119.0	8.4	3.4	1.7	0.8	0.8	0.8
72.5°	769.7	686.2	546.1	449.0	91.2	7.6	3.4	2.5	0.8	1.7	1.7
75°	259.1	232.1	193.3	171.3	53.2	5.1	2.5	2.5	0.8	1.7	1.7
77.5°	74.3	69.2	59.9	54.9	27.0	4.2	2.5	2.5	0.8	2.5	2.5
80°	32.1	29.5	26.2	22.8	11.8	3.4	2.5	3.4	0.8	3.4	2.5
82.5°	23.6	21.1	18.6	15.2	6.8	3.4	3.4	4.2	0.8	3.4	3.4
85°	16.9	15.2	12.7	11.0	5.1	3.4	3.4	4.2	1.7	4.2	4.2
87.5°	13.5	11.8	10.1	7.6	5.1	3.4	3.4	5.1	1.7	5.1	4.2
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):

	165°	175°	180°
0°	27.9	27.9	27.9
2.5°	21.9	22.8	22.8
5°	11.0	11.8	11.8
7.5°	9.3	10.1	10.1
10°	12.7	12.7	12.7
12.5°	11.8	12.7	12.7
15°	13.5	14.3	14.3
17.5°	11.8	15.2	16.0
20°	13.5	13.5	13.5
22.5°	13.5	14.3	14.3
25°	12.7	12.7	12.7
27.5°	12.7	12.7	12.7
30°	11.0	12.7	12.7
32.5°	11.0	11.0	11.0
35°	10.1	10.1	10.1
37.5°	8.4	9.3	9.3
40°	6.8	6.8	6.8
42.5°	4.2	4.2	4.2
45°	2.5	2.5	2.5
47.5°	1.7	1.7	1.7
50°	0.8	0.8	0.8
52.5°	0.8	0.8	0.8
55°	0.0	0.8	0.8
57.5°	0.0	0.0	0.8
60°	0.0	0.0	0.8
62.5°	0.0	0.0	0.8
63°	0.0	0.0	0.8
65°	0.8	0.0	0.8
67.5°	0.8	0.8	0.8
70°	0.8	0.8	0.8
72.5°	1.7	0.8	1.7
75°	1.7	1.7	1.7
77.5°	2.5	1.7	1.7
80°	2.5	2.5	1.7
82.5°	3.4	2.5	0.8
85°	3.4	3.4	1.7
87.5°	4.2	4.2	1.7
90°	0.0	0.0	0.0

(END OF REPORT)