

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: P179254

Luminaire Tested: **UTLD-F03-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179254
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-F03-LED-E-U-SL2-HSS-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.6 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

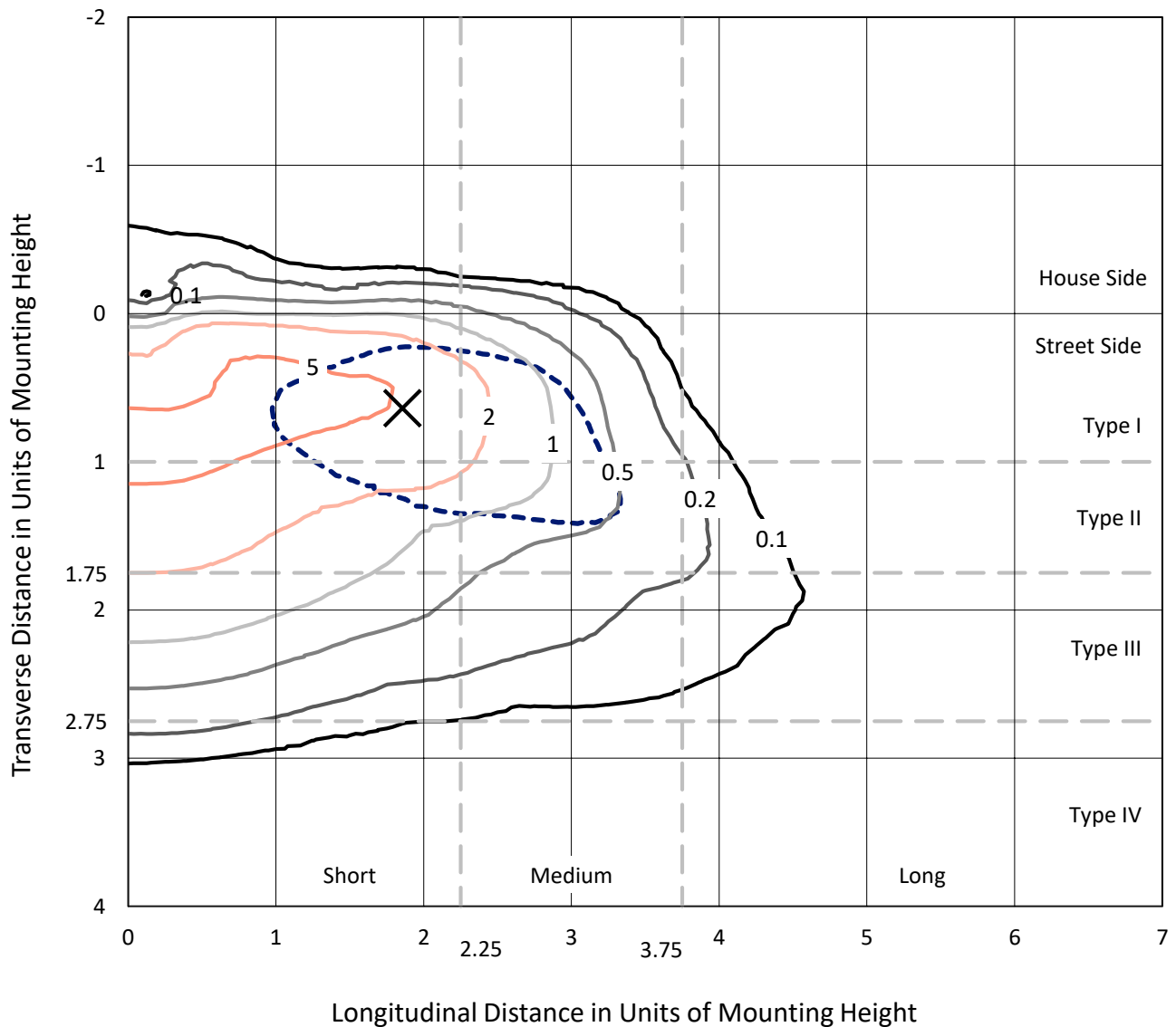


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

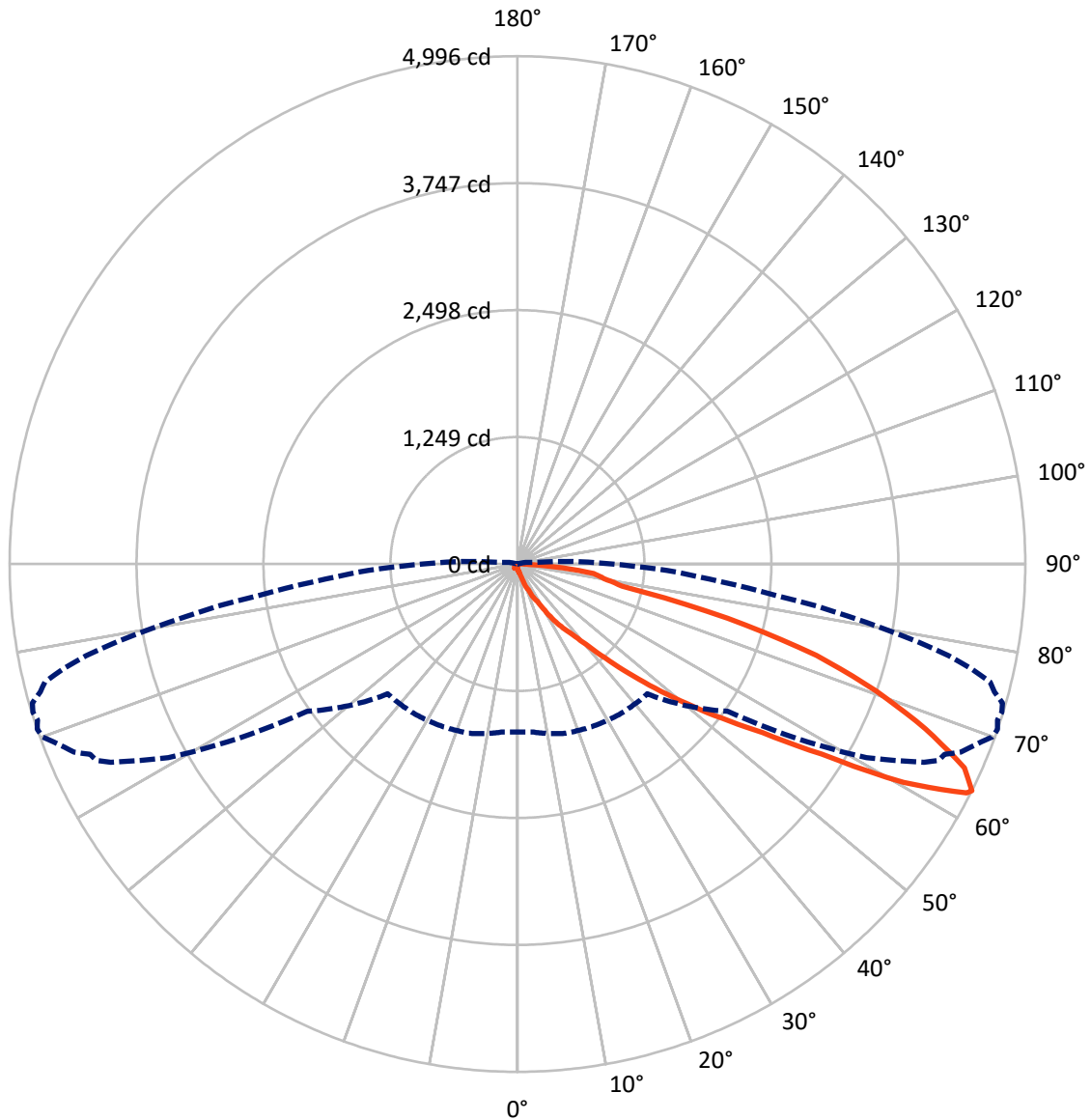


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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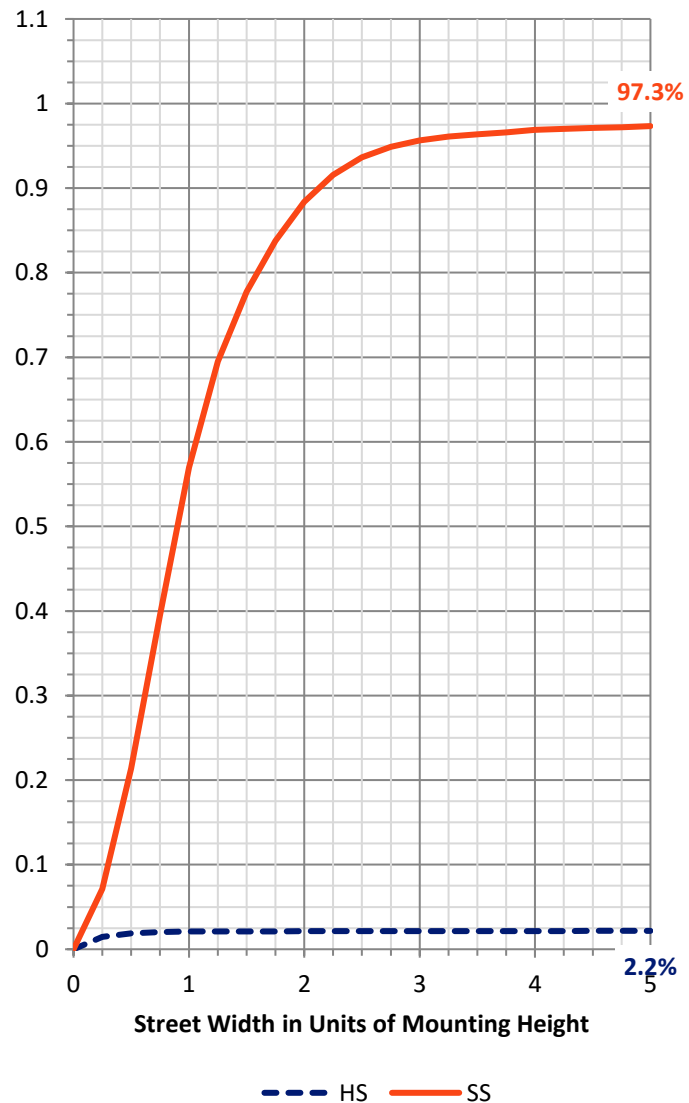
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.4	0.0	81.4
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3592.2	0.0	3592.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	3673.6	0.0	3673.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	29.1	0.8
20°-30°	89.2	2.4
30°-40°	274.8	7.5
40°-50°	652.8	17.8
50°-60°	943.2	25.7
60°-70°	1167.1	31.8
70°-80°	443.1	12.1
80°-90°	69.1	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°	3673.6	100.0
0°-180°	3673.6	100.0



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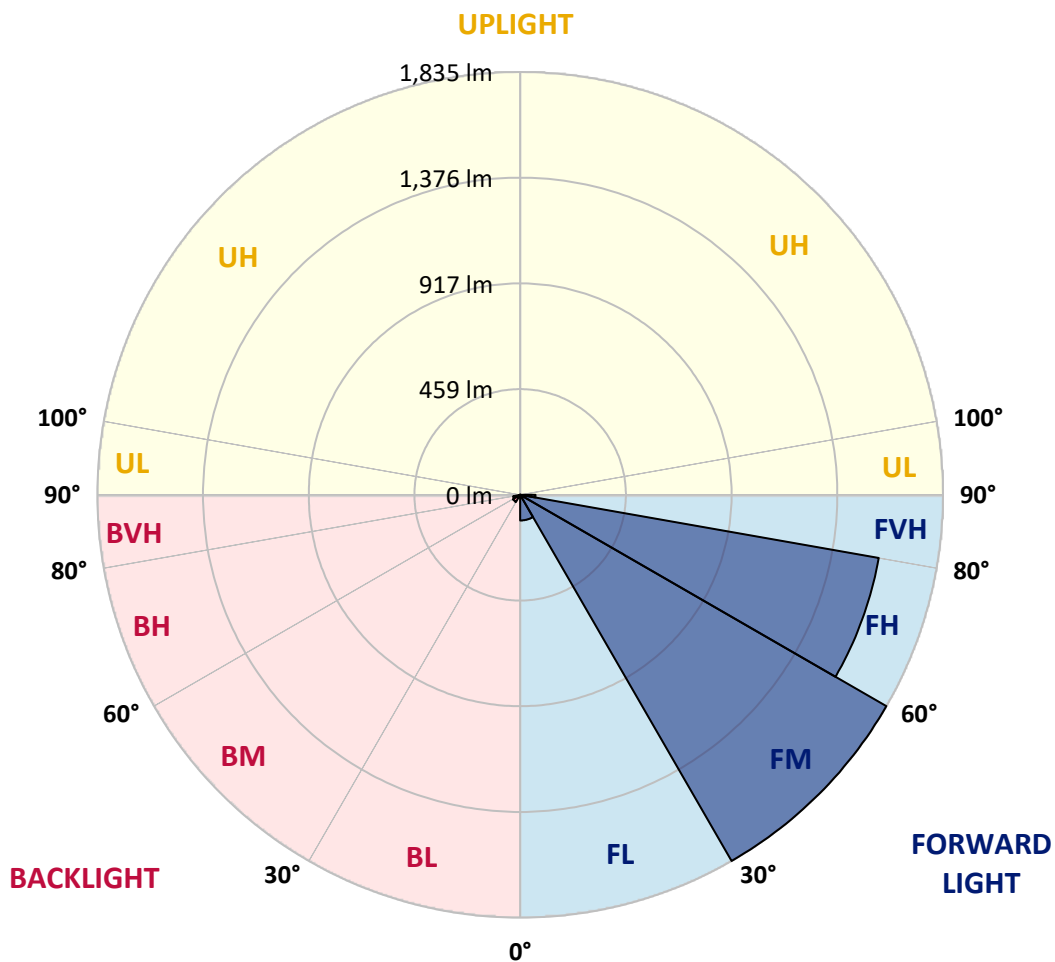
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.3	3.0			
FM	(30°-60°)	1834.5	49.9			
FH	(60°-80°)	1579.6	43.0			G1/1800
FVH	(80°-90°)	66.7	1.8			G1/100
BL	(0°-30°)	12.1	0.3	B0/110		
BM	(30°-60°)	36.2	1.0	B0/220		
BH	(60°-80°)	30.6	0.8	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	70.1	69.0	66.7	66.7	65.6	65.6	64.5	63.3	63.3	63.3	62.2
5°	82.6	81.4	78.0	74.6	74.6	72.4	67.9	66.7	65.6	64.5	64.5
7.5°	134.6	133.5	131.2	127.8	122.1	83.7	74.6	73.5	72.4	71.3	70.1
10°	150.4	150.4	149.3	144.8	139.1	130.1	118.8	86.0	83.7	84.8	88.2
12.5°	202.4	196.8	200.2	194.5	164.0	153.8	157.2	145.9	143.6	142.5	110.8
15°	216.0	210.4	200.2	201.3	205.8	218.3	177.6	167.4	161.7	158.3	158.3
17.5°	237.5	237.5	238.6	238.6	229.6	234.1	230.7	204.7	203.6	199.1	197.9
20°	291.8	289.5	257.9	243.2	268.0	273.7	274.8	236.4	228.5	227.3	234.1
22.5°	308.8	306.5	300.8	306.5	274.8	308.8	355.1	354.0	345.0	340.4	312.2
25°	393.6	390.2	369.8	316.7	338.2	339.3	384.5	387.9	385.7	393.6	417.3
27.5°	454.7	459.2	412.8	378.9	356.3	404.9	489.7	499.9	499.9	488.6	489.7
30°	579.1	576.8	525.9	440.0	429.8	435.4	539.5	574.5	603.9	585.9	606.2
32.5°	832.4	821.1	743.1	585.9	514.6	538.4	646.9	688.8	682.0	671.8	689.9
35°	1198.8	1190.9	1030.3	879.9	739.7	684.2	764.5	834.7	820.0	852.8	865.2
37.5°	1456.7	1436.4	1367.4	1215.8	1079.0	987.4	1021.3	994.1	990.7	1013.4	1011.1
40°	1646.7	1647.9	1624.1	1500.8	1401.3	1350.4	1354.9	1254.3	1247.5	1255.4	1239.6
42.5°	1739.5	1747.4	1766.6	1705.5	1664.8	1670.5	1715.7	1630.9	1627.5	1607.1	1546.1
45°	1796.0	1806.2	1865.0	1885.4	1872.9	1929.5	2052.7	1983.8	1989.4	2007.5	1920.4
47.5°	1802.8	1817.5	1894.4	1955.5	2005.2	2119.5	2308.4	2324.2	2341.1	2355.9	2291.4
50°	1736.1	1741.7	1839.0	1927.2	2000.7	2215.6	2502.9	2601.3	2631.8	2631.8	2577.5
52.5°	1615.1	1623.0	1715.7	1811.8	1882.0	2211.1	2628.4	2807.1	2875.0	2877.2	2799.2
55°	1563.0	1572.1	1642.2	1727.0	1762.1	2101.4	2705.3	2993.7	3065.0	3077.4	3031.1
57.5°	1563.0	1573.2	1629.8	1679.5	1697.6	1973.6	2751.7	3212.0	3292.3	3369.2	3367.0
60°	1633.1	1644.5	1689.7	1686.3	1669.3	1883.1	2731.3	3478.9	3609.0	3737.9	3886.1
62.5°	1673.9	1679.5	1741.7	1759.8	1756.4	1816.4	2571.9	3678.0	3879.3	4067.0	4388.2
63°	1651.2	1658.0	1727.0	1759.8	1789.2	1806.2	2527.8	3699.5	3926.8	4093.1	4449.3
65°	1529.1	1530.2	1603.7	1644.5	1843.5	1805.1	2291.4	3657.6	3935.8	4101.0	4497.9
67.5°	1211.3	1218.1	1269.0	1338.0	1522.3	1832.2	1969.1	3178.1	3459.7	3592.0	4034.2
70°	637.9	666.2	708.0	799.6	1051.8	1556.2	1647.9	2341.1	2613.7	2810.5	3318.3
72.5°	193.4	179.8	234.1	342.7	535.0	1076.7	1445.4	1653.5	1810.7	2006.4	2547.0
75°	87.1	89.3	101.8	145.9	234.1	577.9	1263.3	1358.3	1379.8	1446.5	1774.5
77.5°	49.8	50.9	59.9	82.6	122.1	288.4	956.8	1218.1	1201.1	1224.9	1284.8
80°	32.8	33.9	43.0	58.8	67.9	141.4	542.9	950.0	1005.5	1066.5	1110.6
82.5°	18.1	18.1	27.1	47.5	44.1	67.9	213.8	622.0	721.6	784.9	917.2
85°	7.9	9.0	15.8	31.7	27.1	31.7	102.9	211.5	242.0	254.5	316.7
87.5°	2.3	2.3	4.5	11.3	11.3	14.7	30.5	95.0	100.7	108.6	132.3
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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	62.2	62.2	59.9	58.8	55.4	55.4	53.2	54.3	50.9	49.8	47.5
5°	63.3	63.3	63.3	63.3	62.2	62.2	62.2	62.2	62.2	62.2	61.1
7.5°	69.0	69.0	69.0	69.0	67.9	66.7	64.5	64.5	63.3	63.3	63.3
10°	88.2	87.1	84.8	83.7	82.6	81.4	79.2	80.3	78.0	79.2	76.9
12.5°	105.2	102.9	99.5	96.1	95.0	93.9	91.6	90.5	89.3	91.6	90.5
15°	164.0	162.9	164.0	158.3	128.9	127.8	128.9	126.7	124.4	121.0	116.5
17.5°	195.7	192.3	181.0	176.4	177.6	174.2	165.1	147.0	136.8	132.3	130.1
20°	251.1	252.2	254.5	254.5	249.9	244.3	238.6	237.5	230.7	207.0	197.9
22.5°	300.8	300.8	295.2	289.5	282.7	283.9	276.0	257.9	252.2	245.4	242.0
25°	432.0	425.3	409.4	403.8	398.1	383.4	364.2	354.0	350.6	346.1	331.4
27.5°	488.6	479.5	476.1	469.4	449.0	425.3	417.3	411.7	417.3	390.2	371.0
30°	591.5	590.4	587.0	572.3	547.4	528.2	529.3	523.6	486.3	458.1	440.0
32.5°	696.7	688.8	715.9	688.8	666.2	674.1	663.9	628.8	602.8	573.4	570.0
35°	861.8	861.8	839.2	809.8	813.2	818.8	770.2	734.0	717.0	704.6	679.7
37.5°	1013.4	1006.6	964.7	948.9	967.0	935.3	881.0	857.3	851.6	830.1	790.6
40°	1219.2	1178.5	1146.8	1143.4	1141.2	1067.7	1037.1	1039.4	1010.0	967.0	921.8
42.5°	1502.0	1436.4	1412.6	1414.9	1333.4	1274.6	1263.3	1235.0	1196.6	1148.0	1107.2
45°	1827.7	1764.3	1765.5	1694.2	1591.3	1540.4	1529.1	1485.0	1437.5	1380.9	1322.1
47.5°	2181.7	2136.4	2159.1	2016.6	1926.1	1896.7	1824.3	1755.3	1699.9	1630.9	1557.4
50°	2500.6	2524.4	2474.6	2350.2	2284.6	2245.0	2160.2	2074.2	2003.0	1897.8	1798.3
52.5°	2799.2	2844.4	2766.4	2652.2	2661.2	2585.4	2519.8	2432.8	2337.8	2213.3	2108.2
55°	3097.8	3108.0	3043.5	3006.2	3003.9	2955.3	2925.9	2863.7	2735.9	2610.3	2562.8
57.5°	3474.4	3462.0	3416.7	3475.5	3480.1	3495.9	3527.6	3463.1	3424.6	3333.0	3259.5
60°	4018.4	4008.2	4028.6	4201.6	4236.7	4341.9	4364.5	4366.8	4334.0	4363.4	4184.7
62.5°	4499.1	4539.8	4672.1	4752.4	4835.0	4936.8	4959.4	4917.5	4939.0	4941.3	4802.2
63°	4569.2	4600.9	4737.7	4806.7	4885.9	4970.7	4995.6	4963.9	4983.1	4963.9	4858.7
65°	4599.7	4614.4	4775.0	4756.9	4857.6	4894.9	4831.6	4819.1	4890.4	4788.6	4769.4
67.5°	4148.5	4237.8	4345.3	4345.3	4423.3	4415.4	4330.6	4348.7	4349.8	4310.2	4300.0
70°	3468.7	3649.7	3672.3	3753.8	3808.0	3760.5	3742.4	3754.9	3659.9	3681.4	3586.4
72.5°	2759.6	2954.1	2990.3	3141.9	3157.7	3050.3	3076.3	3001.6	2897.6	2833.1	2701.9
75°	2008.6	2131.9	2239.4	2282.3	2283.5	2181.7	2137.6	1965.7	1813.0	1629.8	1581.1
77.5°	1402.4	1388.9	1429.6	1405.8	1246.4	1195.5	1051.8	968.1	890.1	754.4	679.7
80°	1133.3	1120.8	1140.0	1089.1	1020.2	962.5	859.6	782.6	695.6	636.7	546.3
82.5°	967.0	1017.9	1030.3	957.9	922.9	874.3	755.5	671.8	587.0	511.2	440.0
85°	368.7	440.0	434.3	452.4	453.5	428.6	377.8	299.7	237.5	192.3	156.1
87.5°	142.5	159.5	149.3	148.2	149.3	136.8	116.5	102.9	87.1	70.1	58.8
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	46.4	44.1	44.1	41.8	41.8	40.7	40.7	39.6	39.6	38.5	38.5
5°	61.1	61.1	59.9	57.7	52.0	49.8	45.2	41.8	40.7	39.6	38.5
7.5°	63.3	63.3	62.2	62.2	61.1	59.9	58.8	55.4	49.8	45.2	41.8
10°	76.9	74.6	75.8	78.0	76.9	76.9	75.8	74.6	72.4	70.1	56.5
12.5°	89.3	88.2	86.0	81.4	79.2	78.0	78.0	76.9	75.8	74.6	72.4
15°	113.1	109.7	108.6	105.2	102.9	99.5	100.7	99.5	97.3	92.7	82.6
17.5°	125.5	123.3	119.9	121.0	118.8	112.0	100.7	97.3	93.9	90.5	87.1
20°	194.5	191.1	184.4	173.0	159.5	152.7	147.0	141.4	142.5	141.4	132.3
22.5°	227.3	207.0	194.5	185.5	182.1	182.1	177.6	179.8	165.1	160.6	141.4
25°	305.4	290.7	274.8	265.8	261.3	251.1	231.9	218.3	203.6	199.1	184.4
27.5°	365.3	351.7	351.7	337.0	312.2	292.9	273.7	262.4	244.3	231.9	216.0
30°	440.0	423.0	401.5	374.4	350.6	332.5	318.9	291.8	274.8	257.9	226.2
32.5°	549.7	518.0	490.8	466.0	444.5	408.3	386.8	364.2	329.1	292.9	277.1
35°	651.5	611.9	581.3	555.3	511.2	486.3	453.5	402.6	365.3	347.2	311.0
37.5°	751.0	713.7	684.2	633.4	593.8	551.9	497.6	460.3	427.5	382.3	332.5
40°	881.0	839.2	779.3	735.1	683.1	613.0	572.3	527.0	471.6	416.2	374.4
42.5°	1051.8	985.1	936.5	881.0	786.0	740.8	685.4	605.1	535.0	485.2	416.2
45°	1257.7	1188.7	1136.6	1028.1	959.1	890.1	806.4	712.5	642.4	564.4	505.6
47.5°	1475.9	1428.4	1317.6	1209.0	1141.2	1038.2	942.1	844.8	747.6	678.6	572.3
50°	1748.5	1628.6	1506.5	1428.4	1318.7	1203.4	1090.3	967.0	882.2	775.9	672.9
52.5°	2021.1	1856.0	1767.7	1652.4	1503.1	1370.8	1239.6	1119.7	999.8	885.6	763.4
55°	2388.7	2223.5	2091.2	1924.9	1755.3	1603.7	1468.0	1319.9	1188.7	1041.6	908.2
57.5°	3060.5	2878.4	2688.4	2439.5	2232.6	2049.4	1866.1	1690.8	1495.2	1336.8	1175.1
60°	4064.8	3873.6	3612.4	3321.7	3001.6	2716.6	2455.4	2193.0	1951.0	1756.4	1506.5
62.5°	4725.3	4528.5	4286.5	3941.5	3603.3	3225.6	2899.9	2535.7	2265.4	1986.0	1755.3
63°	4790.9	4581.6	4338.5	4011.6	3654.2	3300.2	2970.0	2573.0	2295.9	2015.4	1776.8
65°	4690.2	4560.2	4334.0	4060.3	3783.2	3438.2	3077.4	2687.2	2373.9	2088.9	1809.6
67.5°	4191.4	4131.5	3984.5	3835.2	3587.5	3347.7	3017.5	2673.7	2341.1	2070.8	1813.0
70°	3550.2	3467.6	3352.3	3292.3	3121.5	2918.0	2690.6	2421.5	2181.7	1915.9	1681.8
72.5°	2653.3	2490.4	2397.7	2297.0	2188.5	2046.0	1913.6	1762.1	1567.6	1426.2	1190.9
75°	1388.9	1207.9	1084.6	939.9	823.4	704.6	641.3	598.3	532.7	460.3	407.2
77.5°	563.2	470.5	380.0	323.5	243.2	194.5	166.3	147.0	135.7	121.0	112.0
80°	472.8	377.8	304.2	230.7	169.6	123.3	91.6	71.3	61.1	53.2	48.6
82.5°	382.3	328.0	272.6	214.9	165.1	133.5	98.4	70.1	50.9	40.7	35.1
85°	122.1	107.4	83.7	70.1	57.7	48.6	40.7	32.8	29.4	27.1	24.9
87.5°	50.9	39.6	36.2	32.8	31.7	30.5	30.5	28.3	26.0	22.6	20.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	37.3	37.3	36.2	37.3	35.1	32.8	31.7	30.5	29.4	29.4	29.4
5°	38.5	37.3	36.2	35.1	31.7	29.4	27.1	24.9	28.3	24.9	17.0
7.5°	39.6	38.5	36.2	35.1	31.7	28.3	26.0	15.8	10.2	10.2	11.3
10°	53.2	49.8	48.6	45.2	41.8	30.5	19.2	10.2	9.0	13.6	15.8
12.5°	57.7	54.3	50.9	47.5	39.6	32.8	15.8	13.6	17.0	13.6	14.7
15°	78.0	66.7	63.3	59.9	53.2	38.5	18.1	18.1	17.0	14.7	17.0
17.5°	86.0	73.5	70.1	67.9	52.0	24.9	20.4	21.5	17.0	19.2	15.8
20°	124.4	110.8	100.7	96.1	70.1	36.2	28.3	20.4	21.5	17.0	19.2
22.5°	142.5	132.3	122.1	119.9	79.2	39.6	32.8	28.3	20.4	20.4	18.1
25°	176.4	162.9	145.9	131.2	83.7	49.8	39.6	28.3	23.8	19.2	18.1
27.5°	200.2	177.6	162.9	153.8	90.5	52.0	38.5	31.7	23.8	18.1	15.8
30°	209.2	196.8	176.4	153.8	91.6	54.3	40.7	30.5	23.8	18.1	17.0
32.5°	255.6	227.3	197.9	181.0	98.4	57.7	39.6	30.5	22.6	17.0	15.8
35°	273.7	246.6	214.9	191.1	102.9	55.4	38.5	27.1	20.4	15.8	12.4
37.5°	303.1	263.5	233.0	203.6	104.1	52.0	35.1	26.0	18.1	13.6	11.3
40°	324.6	291.8	246.6	213.8	104.1	48.6	32.8	22.6	15.8	11.3	9.0
42.5°	375.5	317.8	272.6	234.1	106.3	44.1	29.4	19.2	13.6	7.9	6.8
45°	429.8	374.4	314.4	268.0	108.6	40.7	26.0	17.0	10.2	5.7	3.4
47.5°	506.7	434.3	366.4	307.6	109.7	37.3	23.8	14.7	7.9	3.4	2.3
50°	580.2	502.2	419.6	359.7	112.0	33.9	20.4	12.4	5.7	2.3	1.1
52.5°	666.2	570.0	486.3	401.5	113.1	31.7	18.1	10.2	3.4	1.1	0.0
55°	788.3	686.5	568.9	479.5	115.4	28.3	14.7	7.9	2.3	1.1	0.0
57.5°	1031.5	893.5	748.7	619.8	126.7	24.9	12.4	5.7	1.1	1.1	0.0
60°	1327.8	1174.0	982.8	796.2	149.3	21.5	10.2	3.4	1.1	0.0	0.0
62.5°	1542.7	1344.7	1117.4	916.1	165.1	18.1	9.0	2.3	1.1	1.1	0.0
63°	1577.7	1364.0	1127.6	924.0	166.3	18.1	7.9	2.3	1.1	0.0	0.0
65°	1603.7	1382.1	1141.2	936.5	169.6	15.8	6.8	2.3	1.1	1.1	0.0
67.5°	1582.3	1342.5	1108.4	912.7	171.9	13.6	5.7	2.3	1.1	1.1	1.1
70°	1435.2	1221.5	1016.8	833.5	159.5	11.3	4.5	2.3	1.1	1.1	1.1
72.5°	1031.5	919.5	731.8	601.7	122.1	10.2	4.5	3.4	1.1	2.3	2.3
75°	347.2	311.0	259.0	229.6	71.3	6.8	3.4	3.4	1.1	2.3	2.3
77.5°	99.5	92.7	80.3	73.5	36.2	5.7	3.4	3.4	1.1	3.4	3.4
80°	43.0	39.6	35.1	30.5	15.8	4.5	3.4	4.5	1.1	4.5	3.4
82.5°	31.7	28.3	24.9	20.4	9.0	4.5	4.5	5.7	1.1	4.5	4.5
85°	22.6	20.4	17.0	14.7	6.8	4.5	4.5	5.7	2.3	5.7	5.7
87.5°	18.1	15.8	13.6	10.2	6.8	4.5	4.5	6.8	2.3	6.8	5.7
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):

	165°	175°	180°
0°	37.3	37.3	37.3
2.5°	29.4	30.5	30.5
5°	14.7	15.8	15.8
7.5°	12.4	13.6	13.6
10°	17.0	17.0	17.0
12.5°	15.8	17.0	17.0
15°	18.1	19.2	19.2
17.5°	15.8	20.4	21.5
20°	18.1	18.1	18.1
22.5°	18.1	19.2	19.2
25°	17.0	17.0	17.0
27.5°	17.0	17.0	17.0
30°	14.7	17.0	17.0
32.5°	14.7	14.7	14.7
35°	13.6	13.6	13.6
37.5°	11.3	12.4	12.4
40°	9.0	9.0	9.0
42.5°	5.7	5.7	5.7
45°	3.4	3.4	3.4
47.5°	2.3	2.3	2.3
50°	1.1	1.1	1.1
52.5°	1.1	1.1	1.1
55°	0.0	1.1	1.1
57.5°	0.0	0.0	1.1
60°	0.0	0.0	1.1
62.5°	0.0	0.0	1.1
63°	0.0	0.0	1.1
65°	1.1	0.0	1.1
67.5°	1.1	1.1	1.1
70°	1.1	1.1	1.1
72.5°	2.3	1.1	2.3
75°	2.3	2.3	2.3
77.5°	3.4	2.3	2.3
80°	3.4	3.4	2.3
82.5°	4.5	3.4	1.1
85°	4.5	4.5	2.3
87.5°	5.7	5.7	2.3
90°	0.0	0.0	0.0

(END OF REPORT)