

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: P239991

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T2U-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6595 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 96
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

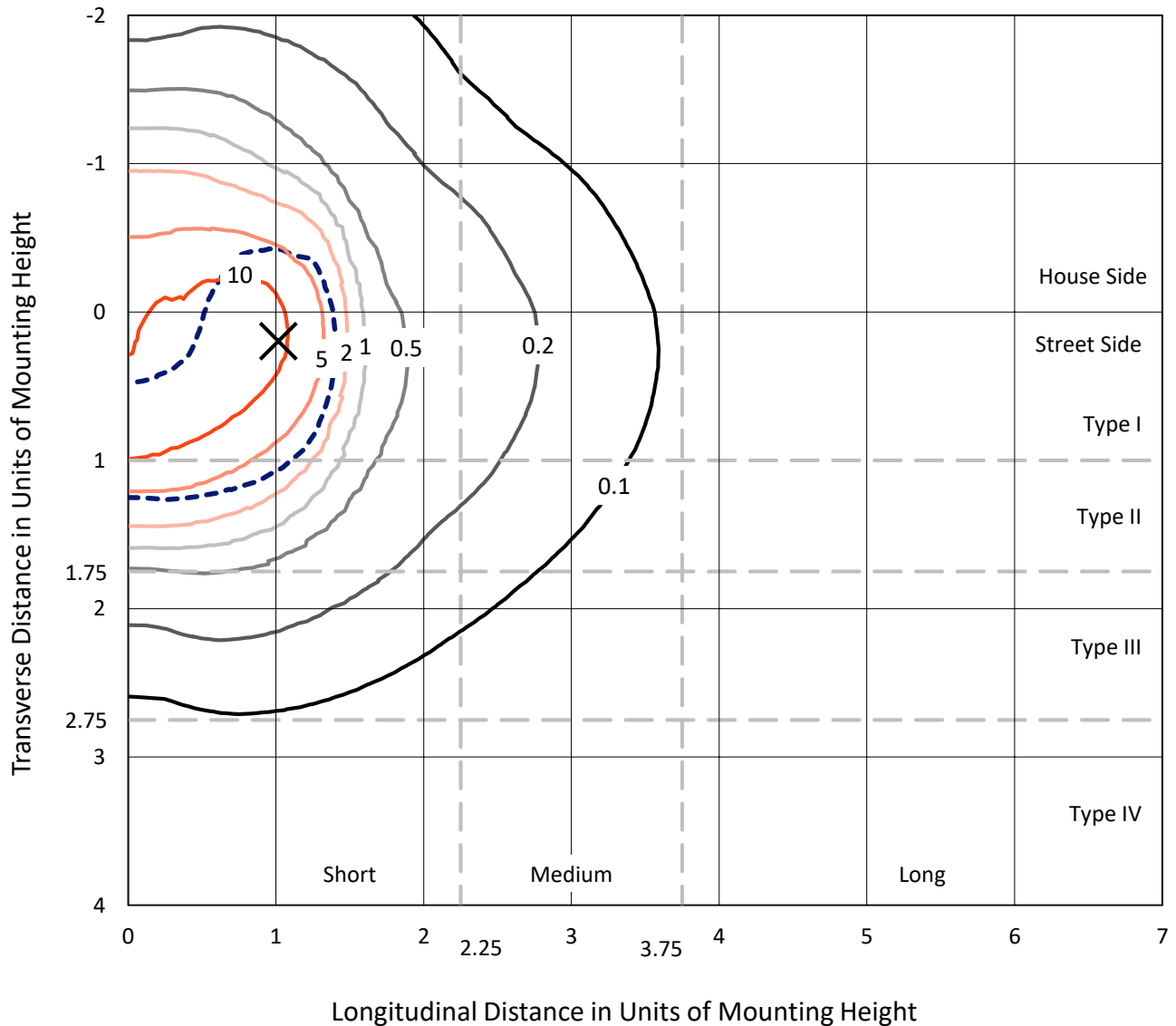


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

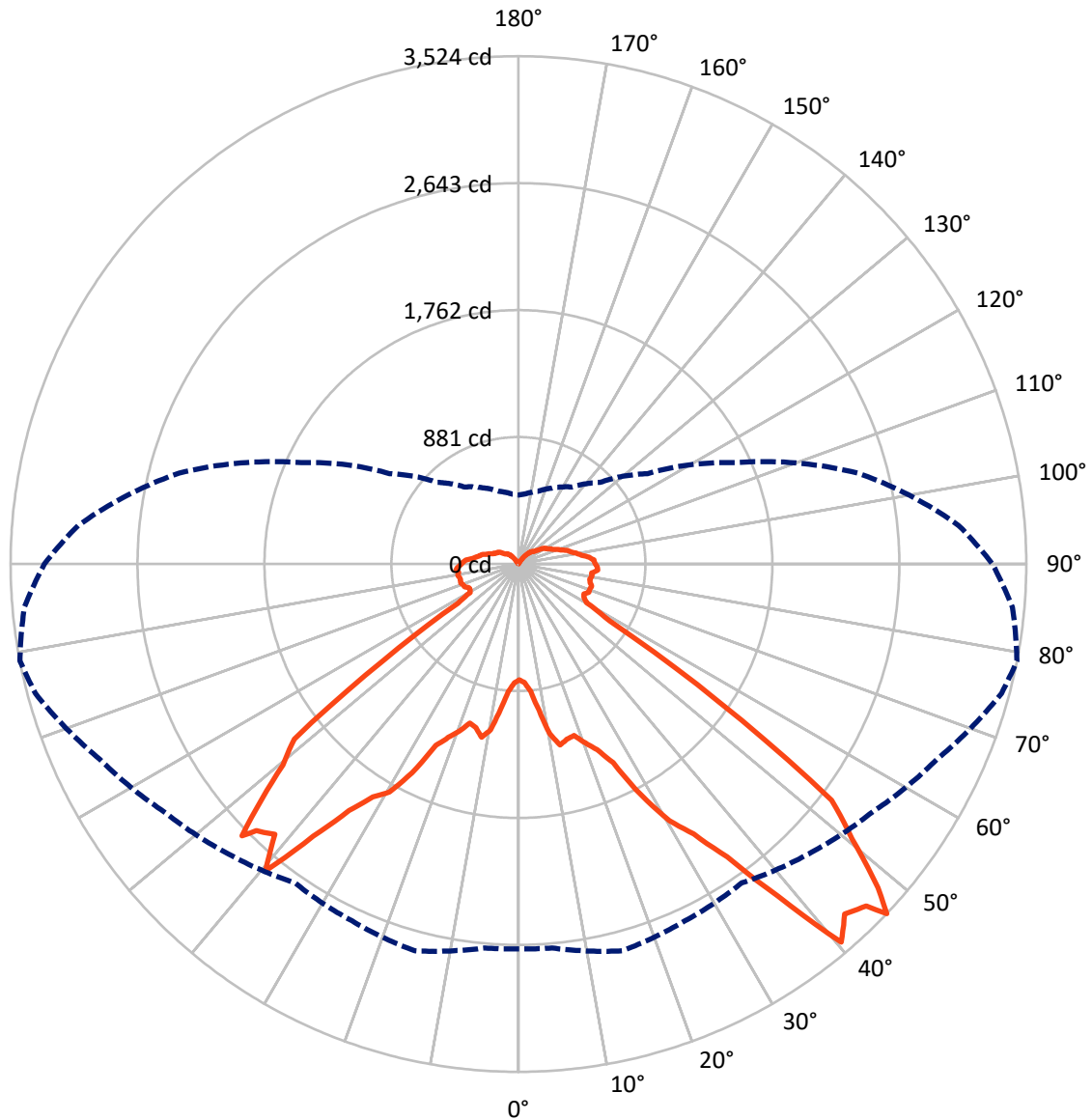


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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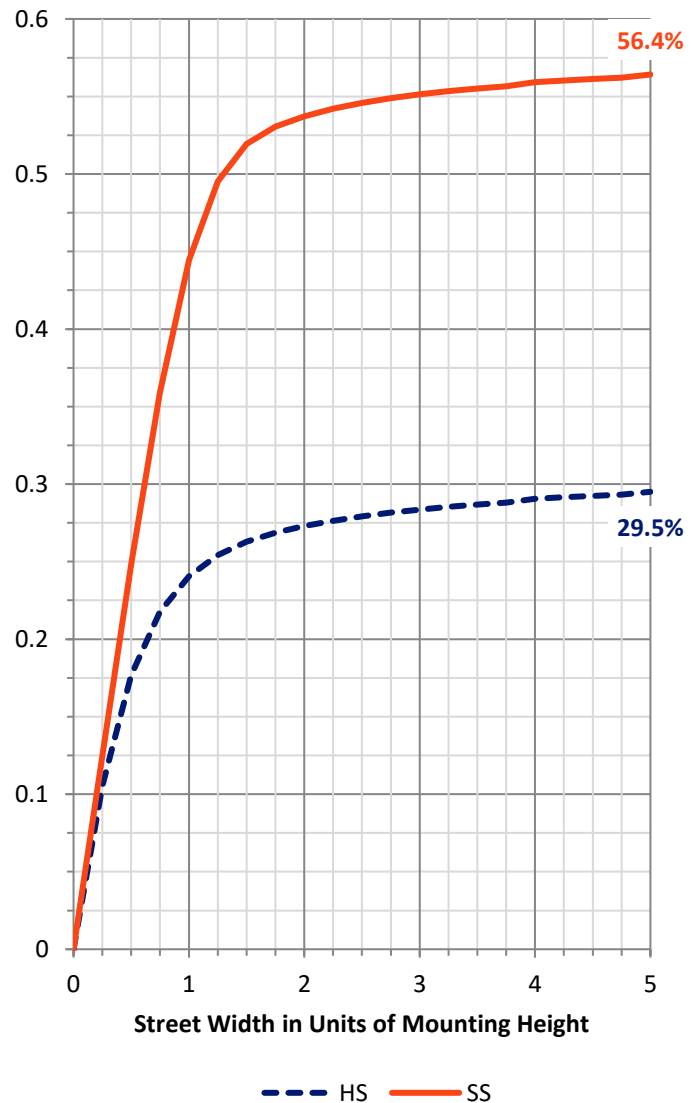
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2010.3	250.0	2260.3
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3792.2	542.4	4334.7
	% Fixture	57.5	8.2	65.7
Total	Lumens	5802.6	792.5	6595.0
	% Fixture	88.0	12.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.3
10°-20°	313.3	4.8
20°-30°	633.0	9.6
30°-40°	1158.8	17.6
40°-50°	1601.3	24.3
50°-60°	1022.1	15.5
60°-70°	366.2	5.6
70°-80°	328.8	5.0
80°-90°	292.3	4.4
90°-100°	268.2	4.1
100°-110°	208.5	3.2
110°-120°	144.7	2.2
120°-130°	96.9	1.5
130°-140°	58.1	0.9
140°-150°	15.4	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5802.6	88.0
0°-180°	6595.0	100.0



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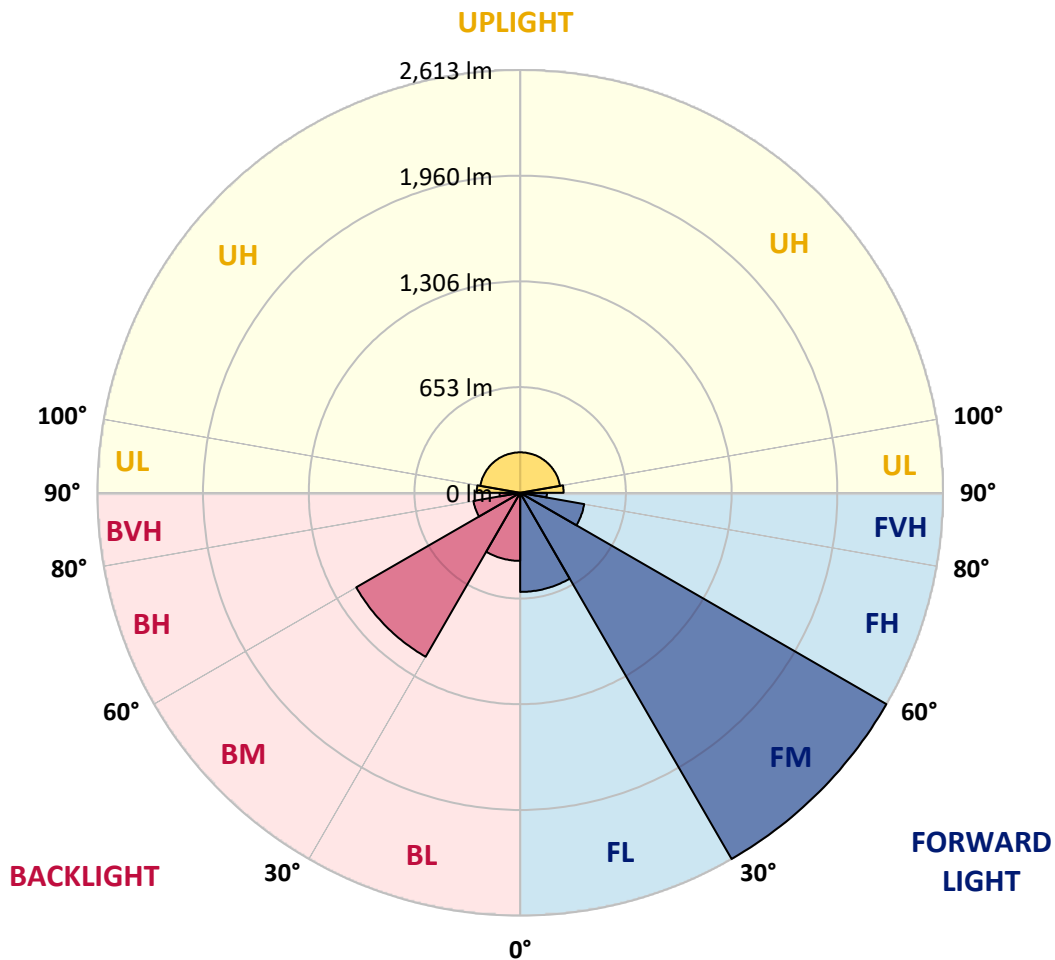
CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.5	9.3			
FM (30°-60°)	2612.7	39.6			
FH (60°-80°)	401.8	6.1			G0/660
FVH (80°-90°)	165.1	2.5			G2/225
BL (0°-30°)	420.4	6.4	B1/500		
BM (30°-60°)	1169.6	17.7	B2/2500		
BH (60°-80°)	293.1	4.4	B1/500		G1/500
BVH (80°-90°)	127.2	1.9			G2/225
UL (90°-100°)	268.2	4.1		U3/500	
UH (100°-180°)	250.0	3.8		U3/500	

BUG Rating: B2-U4-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8
2.5°	817.1	819.7	818.8	817.1	820.6	822.4	822.4	821.5	822.4	824.2	827.7
5°	856.0	855.1	857.8	864.9	874.6	877.3	885.2	883.5	887.9	887.9	893.2
7.5°	924.2	925.1	933.9	941.0	951.6	974.6	996.8	1026.0	1025.1	1023.3	1030.4
10°	995.0	995.0	1012.7	1038.4	1081.8	1130.4	1151.7	1177.4	1203.9	1199.5	1192.4
12.5°	1017.1	1020.7	1051.7	1115.4	1209.2	1292.4	1334.9	1329.6	1303.1	1288.0	1264.1
15°	1057.9	1062.3	1095.9	1193.3	1304.8	1379.2	1395.1	1329.6	1272.1	1261.5	1241.1
17.5°	1211.0	1211.0	1245.5	1334.9	1419.0	1402.2	1339.4	1308.4	1271.2	1250.8	1221.6
20°	1317.2	1323.4	1378.3	1441.2	1487.2	1432.3	1433.2	1375.7	1337.6	1325.2	1297.8
22.5°	1419.9	1428.8	1444.7	1543.0	1556.2	1566.9	1535.0	1482.8	1419.0	1398.7	1370.3
25°	1637.7	1640.3	1657.2	1704.1	1668.7	1651.0	1604.9	1562.4	1537.7	1527.0	1496.9
27.5°	1896.2	1888.2	1895.3	1898.8	1844.8	1796.1	1728.9	1774.0	1809.4	1819.2	1792.6
30°	1949.3	1936.0	1990.0	2047.6	2021.0	1962.6	1958.1	2012.1	2078.5	2066.1	2029.0
32.5°	2163.5	2143.2	2167.9	2174.1	2169.7	2152.9	2145.8	2214.0	2261.8	2234.3	2180.3
35°	2336.1	2335.3	2247.6	2268.0	2280.4	2319.3	2358.3	2451.2	2493.7	2495.5	2450.3
37.5°	2705.3	2678.7	2646.0	2516.7	2448.6	2466.3	2600.8	2765.5	2861.1	2923.9	2852.2
40°	2831.9	2843.4	2815.9	2801.8	2702.6	2661.0	2815.9	3099.2	3358.6	3450.7	3441.8
42.5°	2623.8	2650.4	2634.5	2732.7	2811.5	2864.6	3051.4	3294.0	3343.5	3319.6	3193.1
45°	2797.3	2797.3	2754.9	2693.8	2721.2	2893.8	3041.7	3205.4	3360.4	3385.1	3315.2
46°	2671.6	2674.3	2778.8	2732.7	2701.7	2845.2	2999.2	3205.4	3470.1	3524.1	3441.8
47.5°	2439.7	2435.3	2627.4	2642.4	2663.7	2781.4	2950.5	3204.6	3354.2	3357.7	3255.0
50°	1933.4	1941.3	2205.1	2345.0	2484.9	2600.8	2829.2	2972.6	3006.3	3000.1	2888.5
52.5°	1569.5	1590.8	1730.6	1906.8	2075.9	2299.0	2564.5	2698.2	2771.7	2723.0	2620.3
55°	1088.0	1134.0	1310.2	1468.6	1716.5	1930.7	2160.0	2172.4	1836.9	1683.7	1493.4
57.5°	672.8	681.6	837.4	1061.4	1247.3	1415.5	1418.2	1102.1	857.8	745.4	619.7
60°	373.6	381.5	519.6	685.2	866.6	887.0	792.3	637.4	571.9	542.7	498.4
62.5°	278.0	284.2	374.5	476.3	548.8	578.1	532.0	521.4	522.3	509.0	479.8
65°	250.5	254.1	328.4	379.8	422.3	428.5	445.3	482.5	502.8	500.2	487.8
67.5°	227.5	231.9	299.2	336.4	362.1	392.2	406.3	463.9	518.7	527.6	516.1
70°	202.7	209.8	270.0	308.9	338.2	367.4	395.7	467.4	511.7	524.1	518.7
72.5°	175.3	184.1	234.6	275.3	308.1	339.9	388.6	449.7	509.9	532.0	535.6
75°	154.0	165.5	207.1	243.4	278.0	316.0	367.4	443.5	500.2	514.3	521.4
77.5°	139.0	151.4	183.2	216.9	249.6	291.2	350.6	441.7	490.4	506.4	518.7
80°	127.5	139.9	166.4	193.0	220.4	267.3	332.8	439.1	500.2	517.0	524.1
82.5°	118.6	130.1	153.1	177.0	199.2	241.7	320.5	434.7	497.5	511.7	515.2
85°	119.5	128.4	149.6	171.7	192.1	228.4	314.3	436.4	530.3	552.4	555.9
87.5°	125.7	131.9	154.0	179.7	202.7	239.9	325.8	432.9	526.7	547.1	555.9
90°	136.3	141.6	168.2	198.3	225.7	260.3	323.1	423.1	511.7	530.3	535.6
92.5°	169.1	173.5	202.7	235.5	259.4	270.9	312.5	438.2	514.3	524.9	524.9
95°	218.7	224.0	252.3	277.1	281.5	275.3	307.2	389.5	469.2	492.2	505.5
97.5°	273.5	275.3	291.2	295.7	282.4	268.2	300.1	363.8	425.8	441.7	445.3
100°	291.2	291.2	301.9	298.3	272.7	253.2	271.8	331.1	391.3	409.0	414.3
102.5°	294.8	296.6	307.2	295.7	261.1	229.3	241.7	298.3	354.1	373.6	384.2
105°	312.5	313.4	307.2	278.8	236.4	208.0	218.7	275.3	334.6	353.2	364.7
107.5°	292.1	289.5	272.7	246.1	217.8	197.4	209.8	251.4	296.6	311.6	319.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	241.7	239.9	233.7	224.0	206.3	191.2	199.2	237.2	280.6	292.1	299.2
112.5°	232.8	231.0	224.9	213.3	193.0	181.5	194.8	227.5	254.1	259.4	260.3
115°	224.0	222.2	208.0	194.8	178.8	173.5	182.4	212.5	237.2	243.4	248.8
117.5°	193.0	191.2	180.6	172.6	166.4	169.1	184.1	200.9	218.7	224.0	227.5
120°	171.7	170.9	165.5	160.2	156.7	158.5	174.4	193.0	210.7	216.0	218.7
122.5°	162.0	161.1	154.9	146.9	146.9	146.9	159.3	173.5	193.0	197.4	203.6
125°	142.5	142.5	136.3	130.1	139.0	142.5	145.2	146.1	161.1	168.2	170.9
127.5°	126.6	127.5	122.2	117.7	133.7	141.6	139.9	128.4	137.2	142.5	146.1
130°	124.8	124.8	118.6	113.3	121.3	137.2	131.9	120.4	131.0	134.6	136.3
132.5°	121.3	121.3	115.1	107.1	108.9	126.6	115.1	112.4	122.2	125.7	126.6
135°	111.5	111.5	107.1	96.5	89.4	107.1	92.9	98.3	108.0	110.7	111.5
137.5°	99.1	99.1	94.7	85.9	70.8	80.6	71.7	83.2	92.9	95.6	96.5
140°	81.4	80.6	77.9	67.3	51.3	45.1	48.7	66.4	76.1	77.9	80.6
142.5°	60.2	61.1	56.7	47.8	31.0	16.8	28.3	42.5	53.1	55.8	57.5
145°	44.3	43.4	39.0	31.0	16.8	2.7	13.3	26.6	33.6	36.3	38.1
147.5°	29.2	29.2	25.7	18.6	5.3	0.9	3.5	13.3	21.2	23.0	23.9
150°	19.5	19.5	14.2	5.3	0.9	0.9	0.9	2.7	8.9	10.6	12.4
152.5°	6.2	6.2	2.7	1.8	0.9	0.0	0.0	0.9	1.8	1.8	2.7
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8
2.5°	828.6	827.7	825.0	822.4	815.3	806.5	797.6	791.4	787.9	785.2	784.3
5°	891.4	893.2	880.8	860.5	841.0	823.3	806.5	790.5	781.7	774.6	771.9
7.5°	1025.1	1027.8	1003.0	971.1	921.5	861.3	810.0	775.5	750.7	735.6	733.0
10°	1190.6	1183.6	1154.3	1086.2	995.9	902.9	806.5	732.1	692.3	673.7	672.8
12.5°	1257.9	1248.2	1215.4	1158.8	1064.1	942.8	823.3	725.0	665.7	641.8	640.9
15°	1226.9	1210.1	1149.9	1097.7	1060.5	993.2	886.1	773.7	692.3	662.2	654.2
17.5°	1200.4	1183.6	1133.1	1057.9	987.9	958.7	906.5	813.5	728.6	686.1	677.2
20°	1278.3	1267.7	1204.8	1104.8	1027.8	910.9	868.4	804.7	740.9	714.4	707.3
22.5°	1350.0	1344.7	1265.9	1161.4	1057.9	976.4	891.4	844.5	782.5	764.0	756.0
25°	1483.7	1458.9	1329.6	1188.9	1099.5	1019.8	910.9	837.4	762.2	738.3	733.9
27.5°	1797.9	1740.4	1551.8	1340.2	1160.5	1034.0	909.1	801.1	718.8	688.7	686.9
30°	1998.0	1945.8	1733.3	1500.5	1256.2	1067.6	897.6	767.5	705.5	676.3	677.2
32.5°	2119.3	2049.3	1810.3	1515.5	1278.3	1084.4	904.7	756.0	672.8	635.6	634.7
35°	2382.2	2284.8	1937.8	1636.8	1321.7	1059.6	874.6	732.1	655.1	627.6	624.1
37.5°	2756.6	2646.9	2176.8	1735.1	1339.4	1026.9	835.7	704.6	612.6	574.5	571.9
40°	3297.5	3136.4	2507.9	1853.7	1325.2	1002.1	793.2	663.0	586.9	562.1	554.2
42.5°	3029.3	2846.9	2310.5	1830.7	1289.8	933.9	752.5	642.7	571.9	552.4	541.8
45°	3196.6	2984.1	2334.4	1702.3	1154.3	833.0	683.4	602.0	531.1	503.7	501.0
46°	3289.5	3067.3	2437.9	1663.4	1092.4	801.1	652.4	583.4	522.3	486.9	478.9
47.5°	3087.7	2840.7	2241.4	1587.2	1042.8	729.4	611.7	554.2	512.6	479.8	474.5
50°	2707.9	2466.3	1938.7	1353.5	897.6	643.6	545.3	510.8	469.2	433.8	427.6
52.5°	2471.6	2268.9	1774.9	1227.8	762.2	542.7	486.9	456.8	414.3	372.7	367.4
55°	1358.8	1219.0	1096.8	922.4	632.1	458.6	424.0	406.3	362.9	322.2	319.6
57.5°	559.5	502.8	498.4	470.1	434.7	386.0	366.5	355.9	312.5	262.9	261.1
60°	470.9	419.6	370.0	325.8	323.1	322.2	316.0	297.4	249.6	198.3	196.5
62.5°	458.6	408.1	359.4	305.4	282.4	289.5	278.0	254.9	218.7	169.1	167.3
65°	467.4	415.2	357.6	296.6	271.8	274.4	262.0	244.3	219.5	184.1	182.4
67.5°	497.5	443.5	378.9	293.0	262.9	268.2	259.4	246.1	231.9	209.8	205.4
70°	501.9	454.1	379.8	294.8	253.2	259.4	256.7	245.2	235.5	216.0	213.3
72.5°	515.2	471.8	387.7	288.6	242.6	245.2	248.8	245.2	239.0	227.5	223.1
75°	502.8	464.7	384.2	283.3	231.9	230.2	239.0	243.4	245.2	240.8	235.5
77.5°	500.2	468.3	385.1	279.7	222.2	215.1	222.2	229.3	232.8	228.4	224.0
80°	503.7	476.3	396.6	280.6	211.6	193.9	197.4	205.4	206.3	198.3	192.1
82.5°	495.7	469.2	384.2	270.9	194.8	172.6	173.5	181.5	182.4	172.6	165.5
85°	531.1	499.3	393.0	258.5	177.0	157.6	158.5	162.0	156.7	146.1	139.0
87.5°	530.3	492.2	375.3	239.0	165.5	148.7	147.8	146.9	138.1	125.7	119.5
90°	511.7	471.8	351.4	210.7	146.1	136.3	133.7	128.4	116.0	101.8	97.4
92.5°	499.3	456.8	335.5	199.2	128.4	119.5	117.7	112.4	100.0	85.0	82.3
95°	486.0	444.4	308.9	174.4	113.3	104.5	101.8	96.5	86.8	74.4	72.6
97.5°	428.5	387.7	272.7	158.5	100.9	91.2	89.4	85.0	77.0	68.2	67.3
100°	395.7	359.4	253.2	145.2	90.3	79.7	78.8	76.1	70.8	64.6	63.7
102.5°	370.0	334.6	234.6	134.6	80.6	70.8	69.9	69.0	66.4	62.0	62.0
105°	350.6	316.9	224.9	125.7	72.6	64.6	63.7	63.7	61.1	58.4	58.4
107.5°	305.4	277.1	195.6	111.5	66.4	59.3	59.3	59.3	57.5	55.8	56.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	287.7	261.1	185.9	104.5	63.7	54.9	54.0	54.0	53.1	54.0	54.0
112.5°	247.9	224.9	163.8	100.0	62.0	52.2	49.6	47.8	46.0	47.8	48.7
115°	238.1	216.9	158.5	96.5	60.2	50.5	46.9	44.3	40.7	43.4	43.4
117.5°	218.7	199.2	146.9	93.8	60.2	47.8	44.3	41.6	38.1	39.8	39.8
120°	209.8	193.0	147.8	96.5	61.1	45.1	41.6	37.2	34.5	37.2	37.2
122.5°	197.4	182.4	139.0	91.2	58.4	44.3	40.7	31.9	30.1	32.8	32.8
125°	165.5	153.1	119.5	80.6	55.8	44.3	39.8	28.3	28.3	30.1	31.0
127.5°	140.8	131.0	103.6	75.2	56.7	46.9	38.1	24.8	26.6	29.2	29.2
130°	132.8	124.8	102.7	77.0	59.3	49.6	31.0	23.0	24.8	27.4	27.4
132.5°	123.9	116.9	99.1	78.8	60.2	46.9	25.7	21.2	23.0	24.8	24.8
135°	108.9	103.6	89.4	71.7	54.0	37.2	20.4	18.6	21.2	23.0	23.9
137.5°	95.6	91.2	78.8	64.6	48.7	31.9	14.2	16.8	18.6	19.5	20.4
140°	78.8	76.1	66.4	53.1	36.3	17.7	10.6	13.3	15.0	16.8	16.8
142.5°	57.5	55.8	46.9	34.5	22.1	7.1	7.1	9.7	11.5	13.3	13.3
145°	38.1	36.3	30.1	22.1	9.7	1.8	4.4	7.1	9.7	10.6	10.6
147.5°	23.9	23.0	18.6	11.5	3.5	1.8	1.8	5.3	7.1	8.0	8.0
150°	12.4	11.5	8.0	3.5	1.8	0.9	0.9	1.8	4.4	5.3	5.3
152.5°	2.7	2.7	1.8	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)