

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: P240472

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T4W-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

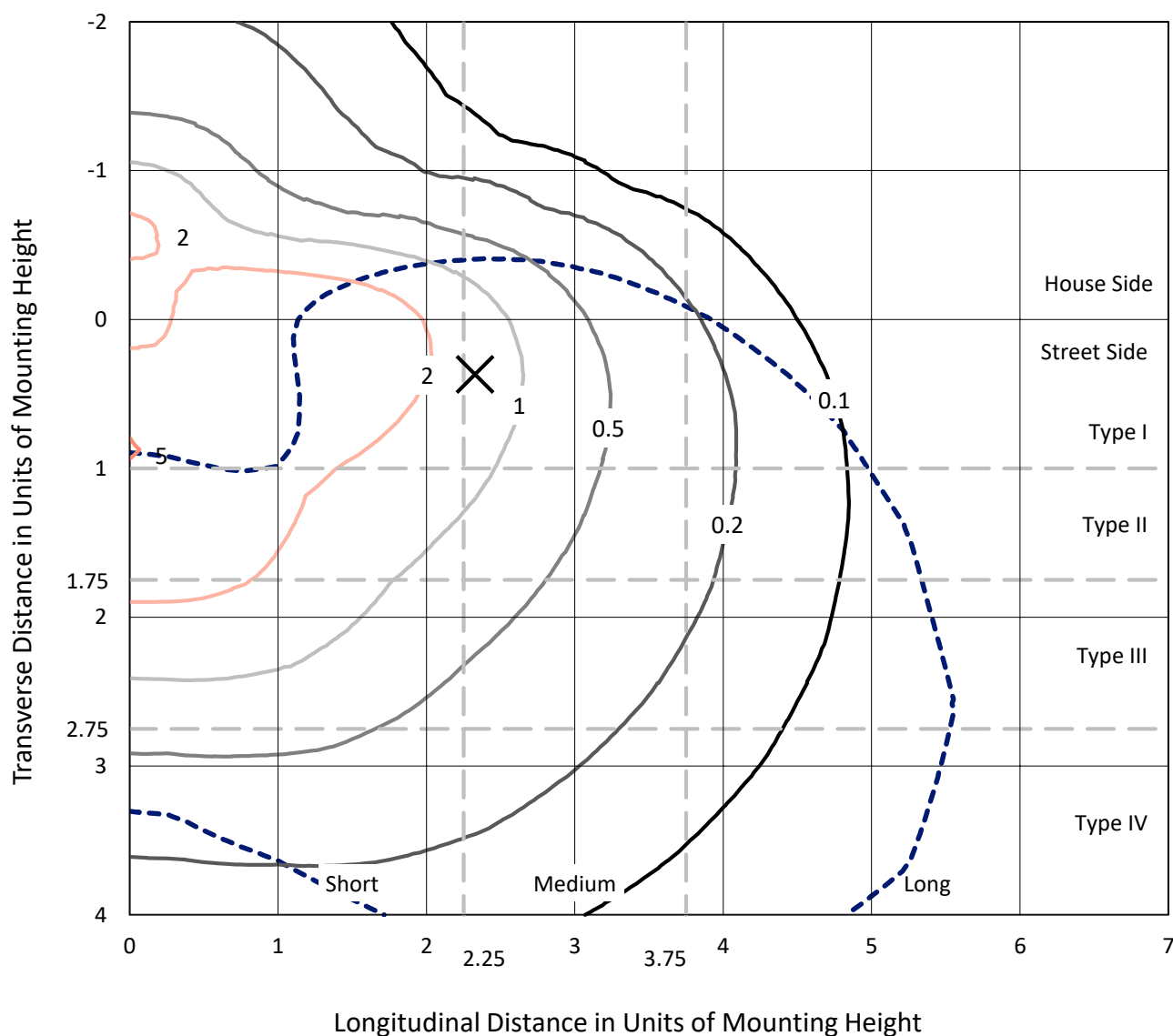


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

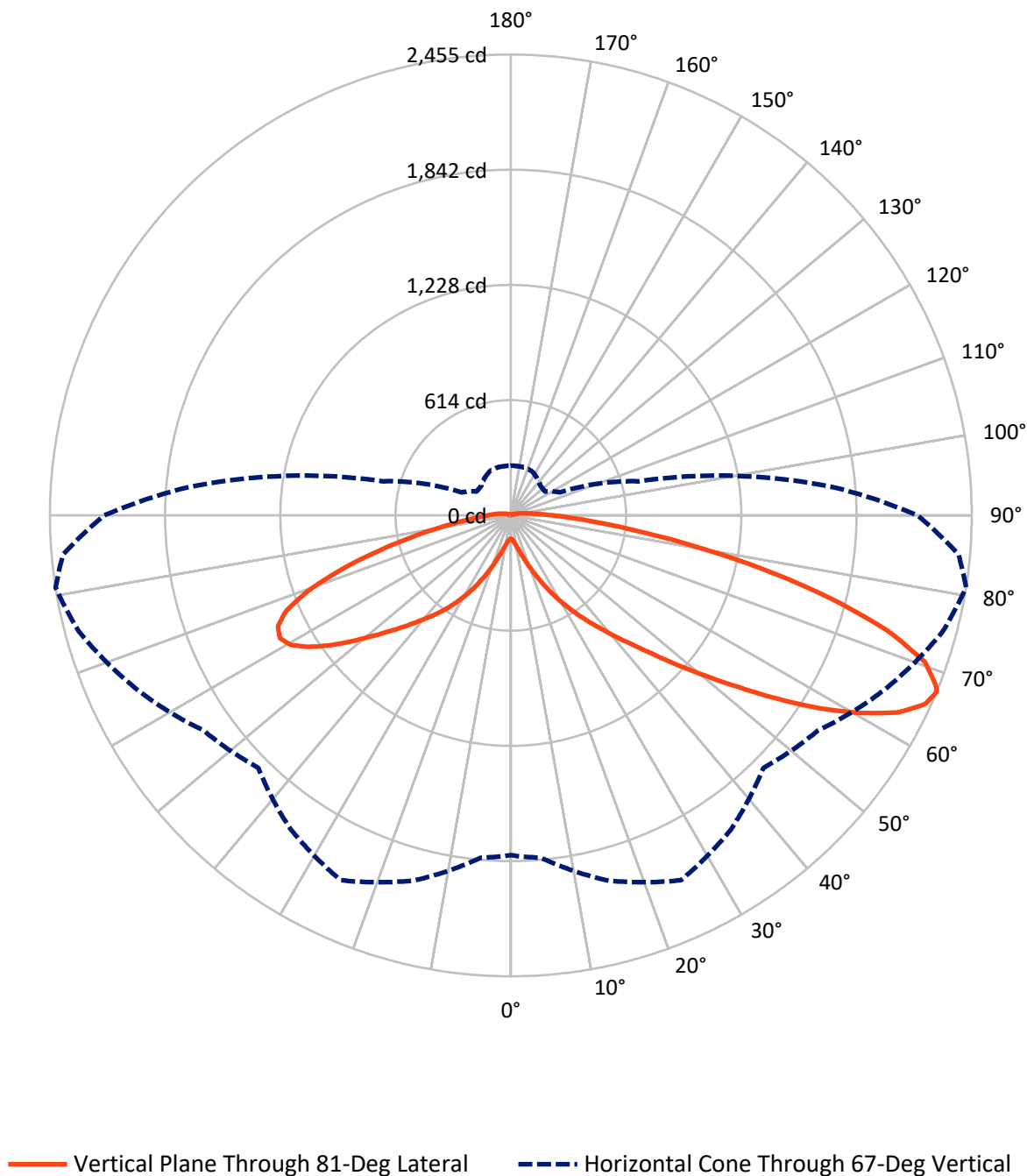


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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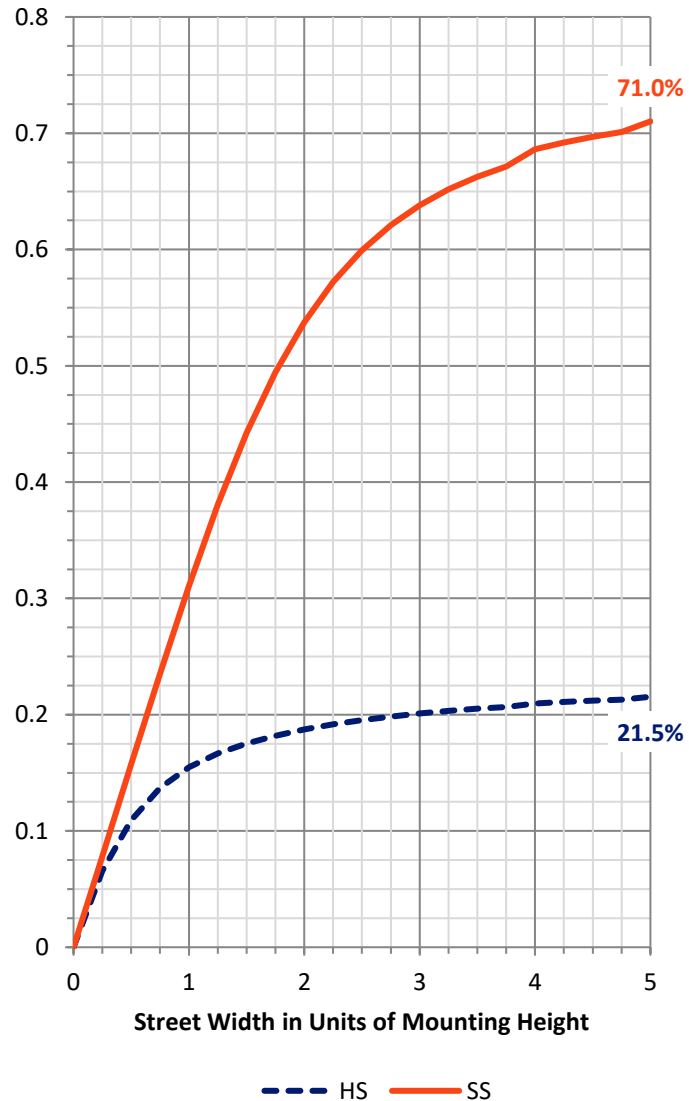
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.6	90.1	1209.7
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	3613.9	102.9	3716.8
	% Fixture	73.4	2.1	75.4
Total	Lumens	4733.5	193.0	4926.5
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.3
10°-20°	62.2	1.3
20°-30°	168.0	3.4
30°-40°	337.2	6.8
40°-50°	570.0	11.6
50°-60°	911.3	18.5
60°-70°	1245.2	25.3
70°-80°	1026.4	20.8
80°-90°	399.5	8.1
90°-100°	115.0	2.3
100°-110°	44.1	0.9
110°-120°	19.1	0.4
120°-130°	9.1	0.2
130°-140°	4.3	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4733.5	96.1
0°-180°	4926.5	100.0

Coefficient of Utilization



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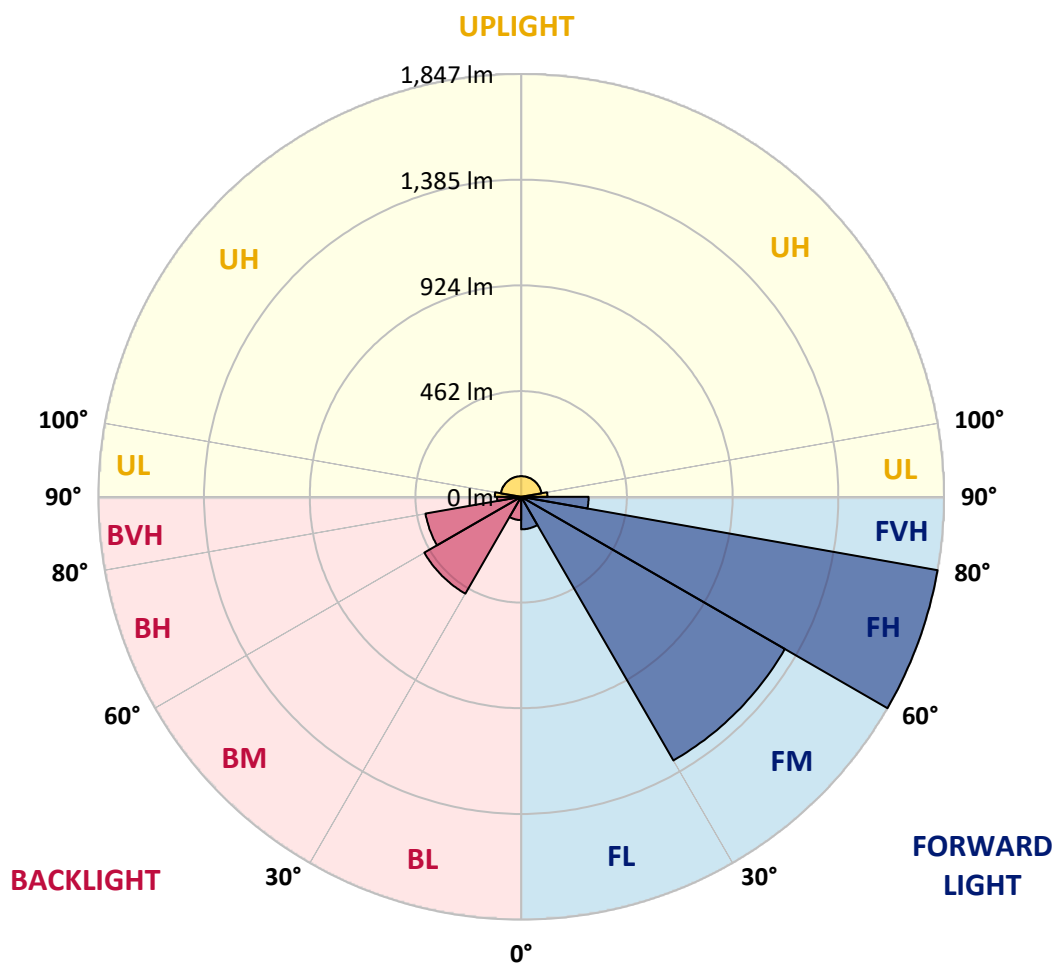
CATALOG NUMBER: UTLD-AF24-50-D-U-T4W-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.3	2.9			
FM	(30°-60°)	1330.0	27.0			
FH	(60°-80°)	1847.2	37.5			G2/5000
FVH	(80°-90°)	294.3	6.0			G3/500
BL	(0°-30°)	101.7	2.1	B0/110		
BM	(30°-60°)	488.4	9.9	B1/1000		
BH	(60°-80°)	424.3	8.6	B1/500		G1/500
BVH	(80°-90°)	105.2	2.1			G2/225
UL	(90°-100°)	115.0	2.3		U3/500	
UH	(100°-180°)	90.1	1.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	134.8	134.8	134.8	134.2	133.6	132.3	131.0	129.8	129.2	128.5	128.0
5°	148.6	149.2	148.6	147.9	146.1	144.2	141.7	139.9	137.3	136.0	135.5
7.5°	169.3	169.3	168.7	165.5	163.7	160.5	157.4	153.6	151.1	149.2	146.7
10°	195.6	194.4	193.2	190.0	185.6	180.6	176.8	172.4	168.0	166.7	164.3
12.5°	226.9	226.9	223.9	219.5	211.3	206.3	200.1	195.0	190.6	188.2	186.9
15°	269.0	267.1	261.4	254.6	244.5	234.5	227.6	223.9	219.5	219.5	215.0
17.5°	311.6	313.5	304.8	294.0	280.2	267.6	259.6	259.0	257.1	255.7	255.2
20°	367.4	365.6	354.9	336.7	316.7	301.5	296.0	296.5	301.5	301.0	298.5
22.5°	427.6	427.6	411.4	386.9	358.7	340.5	334.8	340.5	351.2	351.2	352.4
25°	499.1	496.6	476.0	438.9	405.1	381.2	378.7	387.6	406.3	409.4	408.2
27.5°	579.4	570.6	543.6	497.9	453.3	426.3	422.0	438.2	464.1	472.8	476.0
30°	664.7	665.3	623.9	564.4	504.1	468.4	466.5	492.9	523.6	538.6	542.4
32.5°	763.0	759.9	712.3	637.6	560.0	513.5	511.7	548.1	586.8	606.3	608.8
35°	885.3	870.9	817.6	719.8	617.7	565.0	563.7	603.2	653.9	678.4	684.7
37.5°	997.5	990.0	929.2	805.0	683.4	617.0	614.5	665.9	726.0	754.3	763.0
40°	1128.6	1119.8	1048.4	906.7	761.9	677.2	675.9	734.2	803.8	839.5	847.1
42.5°	1257.1	1251.4	1174.4	1019.5	844.6	744.9	742.4	810.0	892.2	932.3	941.9
45°	1395.1	1380.7	1306.0	1134.8	936.8	823.3	824.5	897.9	999.4	1046.4	1055.9
47.5°	1512.9	1504.2	1441.4	1259.6	1038.3	908.5	910.4	1008.3	1131.7	1186.3	1190.7
50°	1641.5	1636.4	1574.4	1392.0	1160.6	1014.5	1017.6	1128.0	1277.2	1339.9	1361.8
52.5°	1748.1	1748.7	1701.7	1528.0	1280.9	1128.6	1138.1	1270.9	1435.2	1519.2	1532.4
55°	1852.2	1849.0	1821.5	1677.2	1423.9	1256.5	1267.2	1429.0	1623.9	1725.5	1743.1
57.5°	1927.5	1935.5	1938.7	1820.2	1562.5	1385.1	1420.2	1593.2	1829.6	1938.7	1954.4
60°	1979.4	1983.3	2027.1	1963.8	1712.3	1536.8	1582.5	1775.7	2022.7	2137.4	2147.5
62.5°	1974.5	1990.7	2076.0	2071.7	1857.9	1681.0	1739.3	1946.9	2190.7	2312.4	2314.3
65°	1907.3	1934.3	2077.2	2140.0	1978.2	1817.7	1892.9	2101.0	2328.8	2425.2	2400.2
67°	1810.2	1830.8	2014.5	2144.3	2043.3	1902.3	1997.7	2196.4	2383.3	2455.4	2394.5
67.5°	1769.5	1806.4	1991.4	2140.0	2050.4	1920.6	2014.5	2221.5	2394.5	2446.0	2380.8
70°	1573.2	1602.0	1809.6	2050.4	2052.9	1975.7	2084.7	2251.7	2352.0	2340.7	2222.8
72.5°	1307.3	1320.5	1548.1	1852.8	1958.8	1953.8	2064.1	2173.8	2172.6	2098.0	1954.9
75°	990.7	1025.8	1230.8	1555.7	1762.6	1831.5	1931.8	1968.2	1881.7	1756.3	1583.1
77.5°	699.1	717.3	898.5	1223.2	1489.8	1618.3	1689.1	1672.2	1512.9	1364.9	1208.2
80°	452.7	470.3	595.0	876.6	1168.1	1305.4	1370.0	1319.9	1159.4	985.6	854.0
82.5°	274.0	289.1	376.8	588.2	858.3	1012.0	1044.6	996.3	817.6	673.4	569.9
85°	160.5	172.4	234.0	379.3	585.0	730.5	742.4	687.2	549.2	450.1	380.0
87.5°	97.8	104.2	147.9	242.7	388.1	492.9	517.3	465.9	370.0	301.0	255.7
90°	63.4	67.7	94.7	159.3	254.6	325.4	340.5	311.0	250.7	205.1	176.2
92.5°	43.2	47.6	65.9	106.6	167.3	215.7	225.1	204.5	168.7	144.2	128.5
95°	33.3	35.1	50.1	75.3	114.0	144.2	153.0	139.2	117.9	106.0	96.5
97.5°	27.0	28.2	40.1	58.4	82.8	103.5	107.2	97.1	87.2	79.6	75.3
100°	23.2	23.8	33.9	47.6	64.6	78.3	80.3	72.7	65.9	62.1	58.4
102.5°	20.6	21.3	29.5	40.8	52.7	62.1	62.1	56.4	50.1	47.6	45.8
105°	18.1	18.8	26.3	35.1	45.2	50.8	50.8	44.5	38.9	36.4	35.7
107.5°	16.3	16.9	22.6	30.7	38.2	42.6	41.9	35.7	29.5	27.0	27.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	15.1	15.1	20.1	27.0	32.6	36.4	34.5	28.9	22.6	20.6	21.3
112.5°	13.7	13.7	17.6	23.2	28.9	31.3	28.9	23.8	17.6	16.3	16.9
115°	13.2	13.2	15.7	20.6	25.1	26.3	24.5	19.4	14.4	13.2	13.7
117.5°	11.9	11.9	14.4	18.1	21.3	22.6	20.6	15.7	11.9	11.3	11.9
120°	11.3	11.3	12.6	15.7	18.8	19.4	17.6	13.2	10.1	10.1	10.7
122.5°	10.7	10.7	11.9	13.7	16.3	16.9	15.1	10.7	8.7	8.7	9.4
125°	10.7	10.7	10.7	12.6	13.7	14.4	12.6	9.4	8.2	8.2	8.7
127.5°	10.1	10.1	10.1	10.7	11.9	11.9	10.7	7.5	6.9	7.5	7.5
130°	9.4	9.4	9.4	10.1	10.7	10.1	8.7	6.2	6.2	6.9	6.9
132.5°	8.7	8.7	8.7	8.7	8.7	8.2	6.9	5.7	5.7	6.2	6.2
135°	8.2	8.2	8.2	7.5	7.5	6.9	5.7	4.4	5.0	5.7	5.7
137.5°	7.5	7.5	7.5	6.9	6.2	5.0	3.8	3.8	4.4	5.0	5.0
140°	6.9	6.9	6.2	5.7	5.0	3.8	2.5	3.2	3.8	3.8	4.4
142.5°	5.7	5.7	5.7	4.4	3.2	2.5	1.8	1.8	3.2	3.2	3.2
145°	5.0	5.0	4.4	3.8	2.5	1.2	0.6	1.2	1.8	2.5	2.5
147.5°	3.8	3.8	3.8	2.5	1.2	0.6	0.6	0.6	1.2	1.8	1.8
150°	3.2	3.2	2.5	1.8	0.6	0.0	0.0	0.6	1.2	1.2	1.2
152.5°	1.8	1.8	1.8	1.2	0.0	0.0	0.0	0.6	0.6	0.6	0.6
155°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	127.3	126.6	125.9	124.8	124.1	122.9	121.6	121.1	120.4	120.4	120.4
5°	134.2	133.6	131.6	129.2	127.3	125.4	124.1	122.9	121.6	121.6	121.6
7.5°	145.5	144.2	140.4	138.0	134.8	132.3	130.4	128.5	128.0	128.0	127.3
10°	161.8	159.8	155.4	150.4	146.1	142.9	140.4	138.5	138.0	138.0	138.0
12.5°	183.1	180.6	173.7	167.3	160.5	156.1	153.0	152.4	153.0	153.0	152.4
15°	213.8	208.8	198.1	188.2	177.4	170.6	168.7	168.7	171.7	173.0	173.7
17.5°	250.7	244.5	230.1	213.8	197.5	188.2	186.9	190.6	197.5	200.6	200.1
20°	296.5	287.8	267.6	243.3	220.7	208.8	207.6	214.4	223.9	230.1	229.5
22.5°	348.0	339.8	309.8	274.0	242.7	228.9	226.9	238.3	252.1	259.0	261.4
25°	405.1	393.8	354.2	305.4	265.8	246.4	245.9	259.6	277.7	290.3	292.2
27.5°	467.1	454.0	402.0	336.7	285.9	260.8	260.2	279.0	304.1	319.8	320.3
30°	535.5	515.3	448.9	363.1	301.0	270.9	272.2	294.0	326.0	344.2	347.3
32.5°	603.2	580.6	491.5	388.8	311.0	275.9	277.7	305.4	340.5	363.7	366.1
35°	674.6	645.8	534.2	405.7	316.7	276.5	278.4	309.8	348.0	373.1	375.6
37.5°	746.8	712.3	569.9	418.3	316.7	272.7	275.3	308.4	347.3	373.1	375.0
40°	832.0	781.9	603.7	423.3	311.6	265.8	269.0	301.5	337.9	361.7	363.7
42.5°	920.4	860.3	635.8	422.0	302.8	257.1	260.2	290.3	322.4	341.8	343.6
45°	1027.0	953.8	668.3	418.3	292.2	247.7	249.5	276.5	303.5	317.3	319.8
47.5°	1158.0	1054.1	701.7	411.4	280.2	238.8	240.2	264.0	283.4	292.2	294.0
50°	1303.6	1172.5	737.9	402.0	269.0	230.7	232.6	252.1	265.8	269.7	270.2
52.5°	1476.0	1306.6	771.8	390.6	259.0	224.4	226.9	244.5	253.9	254.6	255.2
55°	1662.2	1453.3	802.0	376.8	248.9	220.0	225.1	241.4	247.7	247.0	247.7
57.5°	1856.6	1594.5	822.6	362.4	240.8	217.5	225.7	241.4	247.7	246.4	247.7
60°	2030.2	1715.5	825.8	343.6	234.5	217.5	229.5	245.9	251.4	251.4	252.7
62.5°	2153.7	1785.1	805.0	324.8	228.9	218.8	234.5	251.4	257.1	257.1	258.3
65°	2204.0	1783.8	759.9	304.8	224.4	220.7	239.5	257.8	262.1	262.1	263.4
67°	2166.3	1725.5	701.7	289.6	222.1	222.6	243.3	261.4	265.2	264.6	265.2
67.5°	2143.1	1704.9	689.1	285.2	221.4	222.6	243.8	262.1	265.8	265.2	265.2
70°	1951.3	1528.6	602.6	266.5	217.0	222.6	246.4	263.4	265.8	264.6	264.6
72.5°	1654.6	1279.1	505.4	247.7	212.0	220.7	245.2	261.4	262.8	260.8	260.8
75°	1316.1	1000.7	415.0	231.4	205.1	216.4	240.8	255.7	257.8	255.7	253.9
77.5°	974.4	741.1	335.4	213.8	196.8	209.4	233.3	247.7	249.5	247.7	245.9
80°	679.7	526.7	270.2	196.2	186.2	199.4	222.6	235.1	237.6	236.3	233.3
82.5°	454.6	361.7	216.4	176.8	172.4	186.2	208.1	219.5	221.4	220.0	216.4
85°	310.4	252.1	178.7	156.1	157.4	170.6	189.3	198.1	200.1	198.1	194.4
87.5°	208.8	180.6	146.1	136.0	139.9	152.4	167.3	171.7	175.6	172.4	169.9
90°	151.1	136.0	117.9	116.1	122.3	133.0	142.9	143.5	148.6	147.4	142.4
92.5°	113.5	106.6	97.8	97.8	104.7	113.5	119.7	118.5	121.6	121.6	117.9
95°	89.7	85.9	81.5	83.4	89.7	95.9	97.8	95.3	98.5	99.1	97.8
97.5°	72.1	70.8	69.6	70.8	76.5	81.5	80.9	76.5	79.0	80.3	79.0
100°	58.4	57.7	58.4	60.8	65.2	68.4	66.4	62.1	63.9	63.9	63.9
102.5°	47.0	47.0	48.9	51.5	54.5	57.1	54.5	50.8	51.5	50.8	50.8
105°	37.0	37.5	40.1	43.2	45.8	47.0	44.5	40.8	40.1	38.2	38.9
107.5°	28.9	30.0	32.6	35.7	38.2	38.9	37.0	33.3	30.7	29.5	29.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.6	23.8	27.0	29.5	31.3	32.0	30.0	26.3	23.2	22.6	22.6
112.5°	18.1	19.4	22.0	24.5	26.3	26.3	24.5	21.3	17.6	16.9	16.9
115°	15.1	15.7	18.1	20.1	22.0	22.0	20.1	16.9	13.7	13.2	13.7
117.5°	12.6	13.2	15.1	16.9	18.1	18.1	16.3	13.2	10.7	10.7	10.7
120°	11.3	11.9	13.2	14.4	15.1	15.1	13.7	10.7	8.7	8.7	8.7
122.5°	10.1	10.1	11.3	11.9	13.2	12.6	11.3	8.7	6.9	7.5	7.5
125°	8.7	9.4	9.4	10.7	10.7	10.7	8.7	6.9	6.2	6.2	6.2
127.5°	8.2	8.2	8.7	8.7	9.4	8.7	6.9	5.0	5.0	5.7	5.7
130°	7.5	7.5	7.5	7.5	7.5	6.9	5.7	4.4	4.4	5.0	5.0
132.5°	6.2	6.9	6.9	6.2	6.2	5.7	4.4	3.2	3.8	3.8	3.8
135°	5.7	6.2	5.7	5.7	5.0	4.4	3.2	2.5	3.2	3.2	3.2
137.5°	5.0	5.0	5.0	4.4	3.8	3.2	2.5	1.8	2.5	2.5	2.5
140°	4.4	4.4	4.4	3.8	3.2	2.5	1.2	1.2	1.8	1.8	1.8
142.5°	3.2	3.8	3.2	2.5	1.8	1.2	0.6	0.6	1.2	1.8	1.2
145°	2.5	2.5	2.5	1.8	1.2	0.6	0.0	0.0	0.6	0.6	0.6
147.5°	1.8	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.6	0.6
150°	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.6	0.0	0.0	0.0	0.0	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)