

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: P239886

Luminaire Tested: **UTLD-AF24-40-D-U-T3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714 lumens
Efficiency: N/A
Efficacy: 92.8 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: B1 - U3 - G2

Input Watts (W): 40
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



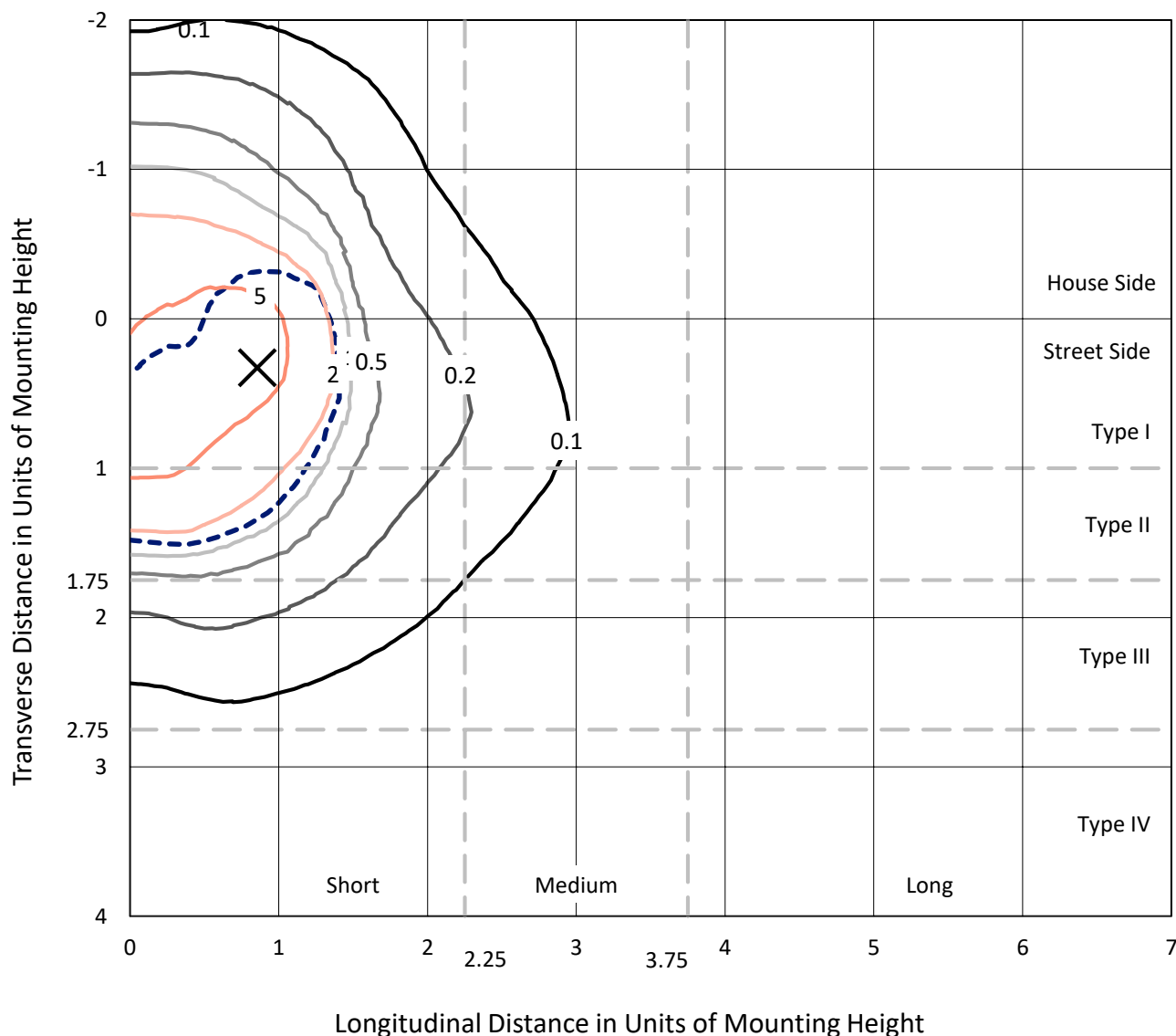
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

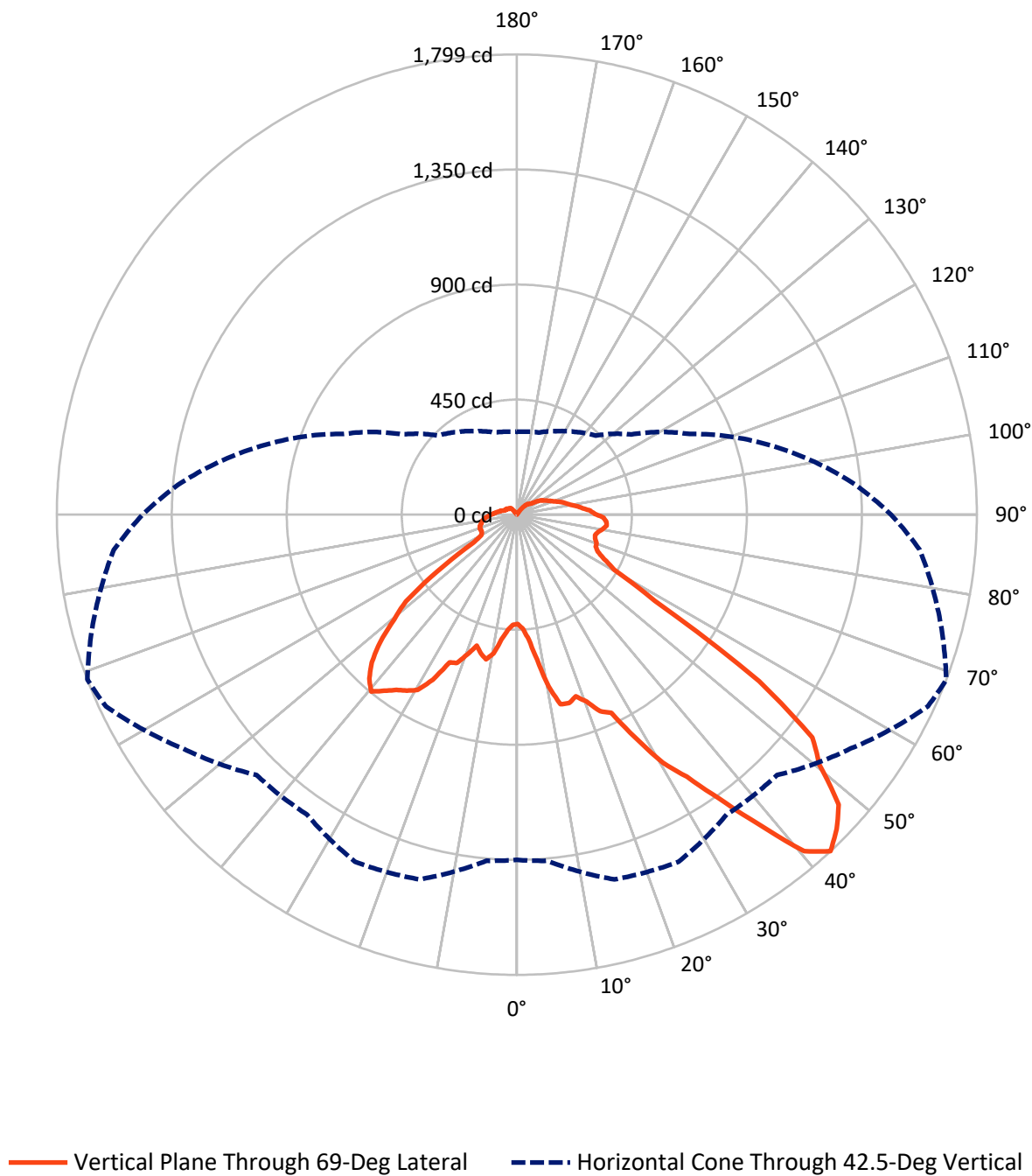


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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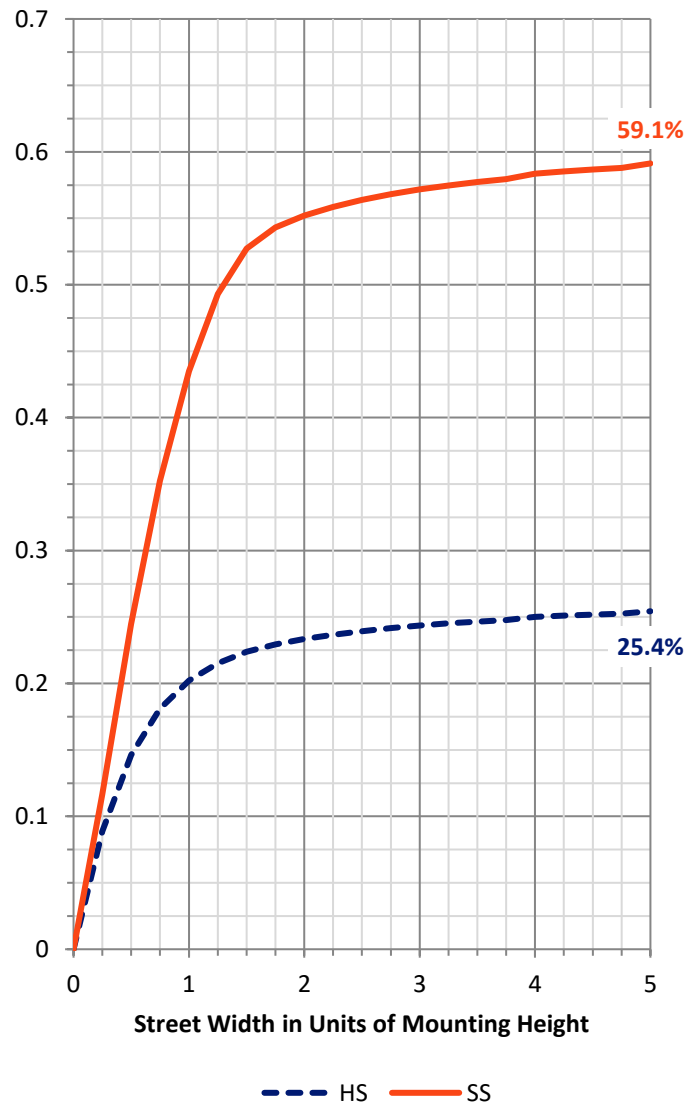
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.6	117.9	1096.5
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2267.6	349.9	2617.5
	% Fixture	61.1	9.4	70.5
Total	Lumens	3246.2	467.8	3714.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.3
10°-20°	178.7	4.8
20°-30°	365.4	9.8
30°-40°	614.6	16.5
40°-50°	813.6	21.9
50°-60°	586.7	15.8
60°-70°	230.5	6.2
70°-80°	207.7	5.6
80°-90°	202.4	5.4
90°-100°	170.7	4.6
100°-110°	121.4	3.3
110°-120°	81.8	2.2
120°-130°	53.5	1.4
130°-140°	32.0	0.9
140°-150°	8.1	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3246.2	87.4
0°-180°	3714.0	100.0

Coefficient of Utilization



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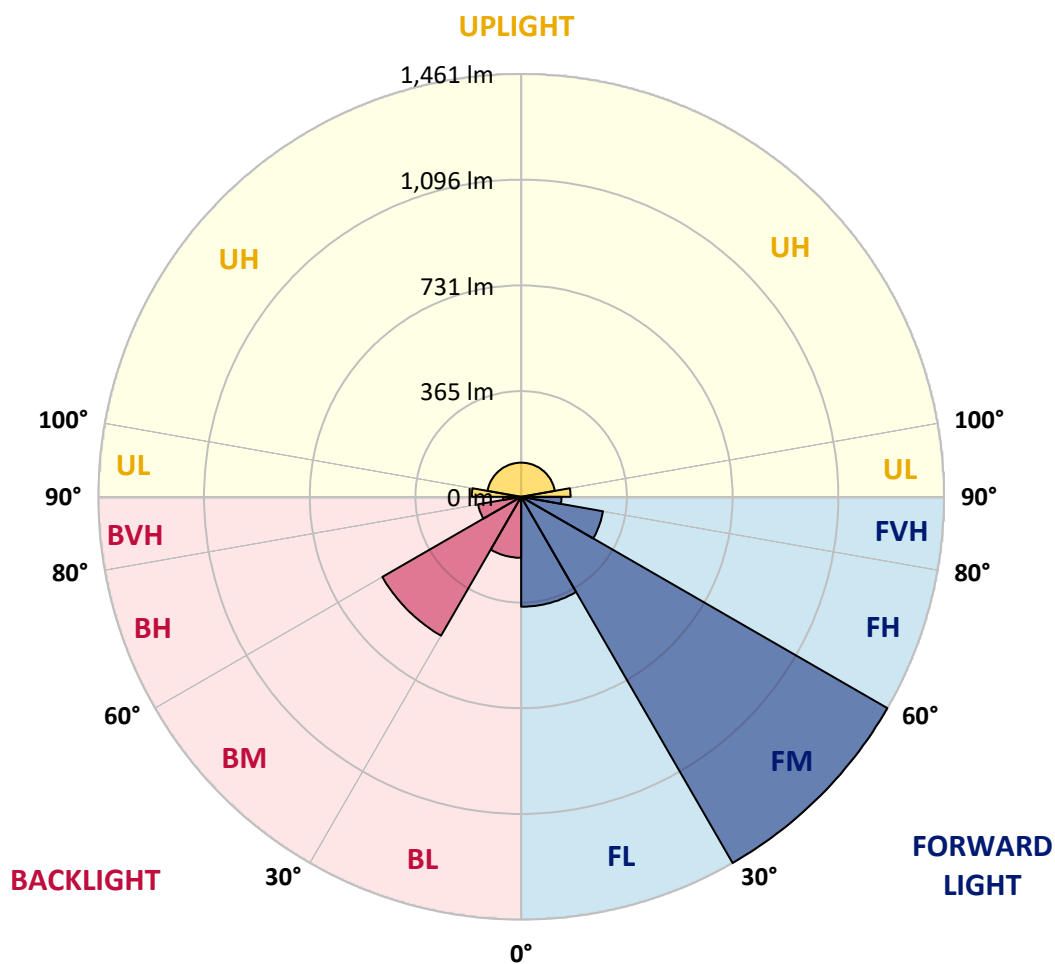
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.9	10.2			
FM	(30°-60°)	1461.1	39.3			
FH	(60°-80°)	287.2	7.7			G0/660
FVH	(80°-90°)	139.5	3.8			G2/225
BL	(0°-30°)	210.8	5.7	B1/500		
BM	(30°-60°)	553.9	14.9	B1/1000		
BH	(60°-80°)	150.9	4.1	B1/500		G1/500
BVH	(80°-90°)	62.9	1.7			G1/100
UL	(90°-100°)	170.7	4.6		U3/500	
UH	(100°-180°)	117.9	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	455.2	452.6	451.6	451.6	450.1	449.6	450.6	449.1	446.6	446.1	443.0
5°	487.0	486.0	485.5	489.6	493.1	494.1	493.1	493.1	490.1	490.1	480.5
7.5°	538.1	536.6	540.6	550.8	554.3	564.9	577.6	570.0	572.0	566.4	548.2
10°	597.3	594.8	613.5	627.1	658.5	671.6	687.8	686.3	683.3	673.6	643.3
12.5°	650.9	649.4	673.6	723.2	765.2	807.7	811.2	776.3	760.6	726.2	688.3
15°	717.6	719.2	756.1	826.4	888.6	905.8	862.8	794.0	764.7	729.3	673.1
17.5°	825.4	830.4	893.1	973.0	1014.5	945.2	853.2	774.3	746.5	708.0	653.9
20°	888.1	891.1	977.1	1085.3	1097.5	985.2	889.6	804.6	780.4	750.0	705.5
22.5°	925.5	936.6	1035.3	1167.8	1160.7	1078.2	945.7	865.3	835.0	793.5	757.1
25°	985.7	993.8	1088.4	1216.3	1185.0	1108.6	995.8	888.6	858.8	828.4	792.0
27.5°	1067.1	1074.7	1180.9	1254.7	1221.9	1149.0	1070.7	1001.9	986.2	981.1	965.5
30°	1110.6	1115.7	1235.0	1297.2	1241.1	1207.2	1185.5	1130.3	1125.8	1115.7	1079.8
32.5°	1135.4	1154.6	1293.2	1329.1	1255.8	1251.7	1264.9	1231.0	1221.9	1204.7	1163.2
35°	1157.6	1167.3	1297.7	1352.4	1279.5	1277.5	1368.0	1383.7	1363.5	1328.1	1229.0
37.5°	1329.1	1333.6	1423.2	1403.9	1310.9	1322.0	1471.2	1552.6	1534.4	1490.4	1422.1
40°	1422.1	1430.2	1513.2	1473.2	1377.1	1389.8	1545.5	1714.5	1730.7	1729.1	1669.5
42.5°	1349.8	1358.4	1476.3	1497.5	1431.3	1439.8	1594.1	1773.6	1799.4	1720.0	1582.5
45°	1585.5	1592.1	1658.3	1503.1	1394.3	1427.2	1556.2	1730.7	1753.9	1730.7	1612.8
47.5°	1585.0	1576.9	1632.0	1518.7	1391.8	1369.6	1473.7	1648.2	1694.2	1641.1	1513.2
50°	1393.3	1392.8	1528.9	1463.6	1364.5	1312.9	1383.2	1521.3	1532.4	1470.2	1298.7
52.5°	1216.8	1215.8	1373.1	1339.7	1275.0	1224.4	1267.9	1405.5	1447.9	1393.3	1250.2
55°	1060.5	1104.0	1242.1	1170.8	1144.0	1093.9	1137.4	1171.3	1149.6	997.8	673.1
57.5°	642.3	690.3	870.4	922.0	928.0	892.1	793.5	677.7	636.2	508.3	303.4
60°	299.4	311.0	456.7	555.8	678.2	620.0	501.7	437.0	437.0	383.9	263.5
62.5°	210.9	219.0	299.9	358.6	406.1	400.5	356.0	365.1	383.4	359.6	253.9
65°	198.3	203.3	267.0	284.7	302.9	306.5	300.4	328.2	347.4	344.4	257.4
67.5°	184.1	190.7	243.8	255.4	269.6	276.1	280.7	313.1	333.3	344.4	267.5
70°	167.4	175.0	225.1	241.2	254.9	270.1	275.6	310.5	331.3	342.4	271.1
72.5°	151.7	158.3	200.3	220.5	244.8	262.5	284.7	306.0	320.1	331.8	273.1
75°	136.6	144.1	179.5	202.8	231.1	264.5	291.3	307.0	316.6	325.7	270.6
77.5°	126.4	134.5	162.3	189.1	223.0	269.1	299.4	319.6	325.2	326.7	267.5
80°	117.3	126.4	155.8	184.1	221.0	271.1	309.0	333.3	340.9	344.4	284.7
82.5°	123.9	132.0	157.3	191.7	227.6	270.6	306.5	344.9	353.5	351.5	290.3
85°	140.1	146.7	177.5	209.9	237.7	266.0	297.4	339.4	351.5	362.1	307.5
87.5°	170.4	173.5	195.7	225.6	248.3	257.4	288.8	328.2	339.4	342.9	299.4
90°	186.6	189.7	216.0	240.7	247.8	250.8	257.4	296.9	305.0	319.1	286.3
92.5°	205.3	205.3	232.6	247.3	247.3	234.7	239.2	274.6	288.3	296.4	266.0
95°	223.5	222.5	237.7	246.3	233.1	215.4	223.0	250.8	259.4	268.0	247.3
97.5°	229.1	228.6	237.7	232.6	210.9	194.2	203.8	227.6	236.7	245.8	224.5
100°	223.0	220.5	223.0	211.9	191.7	179.0	184.6	204.3	213.9	221.5	202.3
102.5°	209.9	208.4	209.4	198.3	177.0	161.8	169.4	190.2	197.2	203.3	186.1
105°	203.8	201.3	196.7	180.6	159.8	149.2	155.8	176.5	183.1	195.2	181.1
107.5°	173.5	171.4	167.9	159.3	148.7	140.6	146.2	160.8	164.9	170.9	157.8
110°	149.7	148.7	147.7	145.7	139.1	133.5	136.6	144.6	149.7	154.3	141.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	144.6	143.1	142.1	138.6	130.0	123.9	125.9	135.0	138.1	139.6	125.4
115°	138.1	136.6	131.0	125.9	119.9	116.8	117.3	124.9	126.9	128.0	119.4
117.5°	122.4	120.9	117.3	115.3	111.8	110.3	112.8	116.8	117.3	117.8	110.3
120°	113.3	112.8	110.8	107.2	104.7	101.1	105.2	109.2	110.8	112.3	107.2
122.5°	103.2	102.2	100.1	95.6	95.6	93.6	93.1	95.6	96.1	100.1	97.6
125°	91.0	90.0	88.0	84.0	89.0	89.0	85.5	79.9	81.4	85.0	82.9
127.5°	81.4	80.4	78.4	76.4	83.4	86.0	79.9	69.8	70.8	71.8	70.3
130°	79.9	78.9	76.4	72.8	74.8	82.4	71.8	63.7	65.2	66.3	65.2
132.5°	78.4	77.9	74.3	69.8	67.3	74.3	62.2	60.2	61.7	63.2	62.2
135°	73.3	72.8	69.8	63.2	56.1	59.7	49.6	52.6	55.1	57.1	56.1
137.5°	65.2	64.7	62.2	55.6	46.0	43.0	37.9	45.0	47.0	49.6	49.6
140°	52.6	52.1	49.6	43.0	32.4	22.8	24.3	34.4	36.4	39.4	40.0
142.5°	38.4	37.4	34.9	28.8	18.2	7.6	13.7	20.7	23.3	26.3	28.3
145°	26.3	25.8	22.3	17.2	8.6	1.0	6.1	12.6	14.2	16.2	18.2
147.5°	16.7	16.7	14.2	9.6	2.5	1.0	1.5	6.6	8.1	10.1	11.6
150°	10.1	10.1	7.6	3.0	0.5	0.5	0.5	1.0	2.5	4.6	6.1
152.5°	2.5	2.5	1.5	1.0	0.5	0.0	0.5	0.5	0.5	0.5	1.0
155°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.0	0.5	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°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	441.5	438.5	434.4	428.9	423.3	417.7	412.2	409.1	407.6	406.6	406.1
5°	477.9	471.4	460.7	446.1	427.9	417.2	409.7	400.5	394.5	392.5	390.9
7.5°	542.2	531.5	510.3	478.9	456.7	425.3	398.5	381.3	368.7	361.6	361.6
10°	628.1	613.0	576.0	533.1	475.9	420.8	379.3	348.0	333.3	327.2	325.7
12.5°	666.1	651.4	607.9	557.8	497.1	432.9	380.3	342.9	325.2	318.1	319.1
15°	646.8	626.6	589.2	542.2	494.6	454.2	410.2	363.6	333.3	325.2	327.7
17.5°	627.6	606.9	566.9	514.8	468.3	441.5	410.7	379.3	350.5	338.8	336.8
20°	683.8	668.6	614.5	555.3	485.5	417.7	396.0	381.8	372.2	372.7	368.2
22.5°	737.4	716.6	667.1	597.8	522.4	463.3	427.9	409.1	398.5	403.1	403.6
25°	773.3	757.6	684.3	601.3	538.6	494.6	443.5	417.2	399.5	399.5	397.5
27.5°	955.9	916.9	800.6	673.6	580.1	507.3	445.6	415.2	393.0	386.4	387.4
30°	1051.4	1013.0	880.0	725.7	627.6	537.6	451.1	404.1	398.5	394.0	395.5
32.5°	1133.4	1076.7	919.4	739.4	619.0	542.2	463.3	406.6	379.8	375.3	377.3
35°	1173.8	1110.6	950.8	751.5	623.1	522.9	448.6	396.0	378.8	374.2	375.8
37.5°	1360.4	1265.9	1000.4	769.7	622.1	497.7	428.9	386.4	354.5	340.9	340.9
40°	1574.9	1435.8	1086.8	768.7	583.6	475.9	407.1	367.7	342.4	331.8	331.3
42.5°	1463.6	1331.1	1036.3	746.0	546.2	436.5	395.0	359.6	332.3	325.2	323.7
45°	1510.1	1368.5	999.9	682.2	490.1	405.1	366.2	341.4	310.0	293.8	293.3
47.5°	1362.5	1248.7	925.5	601.3	441.5	356.0	331.8	315.6	295.9	282.2	280.7
50°	1181.9	1067.1	778.8	533.1	376.3	315.6	298.9	290.8	271.1	255.4	256.4
52.5°	1129.3	990.2	678.7	465.3	323.7	275.1	267.0	257.9	238.2	220.0	222.0
55°	559.9	463.8	412.7	361.6	271.6	239.2	235.7	230.1	210.4	194.7	195.2
57.5°	261.0	225.1	197.2	209.9	204.8	207.9	206.3	202.8	184.1	161.8	160.3
60°	233.7	200.3	167.4	158.8	168.4	181.6	180.6	169.4	145.7	119.4	116.3
62.5°	225.6	191.7	162.3	149.7	153.7	162.3	156.3	142.1	122.9	98.6	98.1
65°	229.6	193.7	161.8	146.2	149.2	152.7	144.1	134.0	122.4	105.7	105.7
67.5°	238.2	201.3	165.4	144.6	146.2	149.7	141.6	134.5	128.5	117.3	117.3
70°	240.7	204.8	167.4	145.1	143.6	146.7	141.1	134.5	131.0	121.9	121.4
72.5°	241.7	206.8	166.4	142.6	139.1	141.6	137.6	134.5	133.0	125.9	124.9
75°	237.2	204.8	161.3	137.1	133.5	134.5	133.5	133.0	135.0	130.5	129.0
77.5°	231.6	201.8	157.3	131.0	126.9	127.4	126.4	128.0	130.0	126.9	124.4
80°	243.3	210.4	157.8	126.4	118.8	116.3	116.8	118.3	120.9	114.3	110.8
82.5°	247.3	210.9	150.7	116.3	106.7	103.2	104.2	108.2	110.3	104.2	100.6
85°	262.5	220.5	145.7	107.2	96.1	92.6	93.6	96.1	95.1	88.0	85.0
87.5°	256.4	213.9	136.6	96.6	87.5	84.5	85.0	86.0	82.4	73.3	70.8
90°	247.8	206.3	126.4	85.0	77.4	76.4	75.4	73.8	67.8	58.2	55.6
92.5°	232.1	192.7	117.3	76.9	68.8	68.3	66.8	63.7	58.2	48.6	46.0
95°	219.0	180.6	108.7	70.3	61.7	59.7	59.7	56.6	50.6	42.5	41.5
97.5°	197.2	164.4	100.1	64.7	55.1	53.1	52.6	50.6	46.0	40.0	39.4
100°	178.5	148.7	91.0	58.7	49.6	47.5	46.5	45.5	42.0	38.4	38.4
102.5°	165.4	137.6	85.0	53.6	44.5	42.5	42.5	41.5	39.4	36.9	36.9
105°	161.8	135.0	82.4	49.1	39.4	38.4	38.9	38.9	37.4	35.9	35.9
107.5°	140.6	116.3	70.8	43.5	35.9	34.9	35.4	35.9	35.4	34.9	34.9
110°	125.4	105.7	65.7	41.0	33.9	32.4	32.4	32.4	32.4	32.9	33.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	112.3	94.1	60.2	38.9	31.9	30.3	29.8	29.3	28.8	30.9	30.9
115°	107.2	91.5	58.7	37.9	30.3	28.8	27.3	26.3	25.3	26.8	27.3
117.5°	99.6	86.0	57.1	37.9	29.8	27.3	25.8	24.3	22.8	24.3	24.3
120°	97.6	85.5	58.2	38.4	28.8	25.3	23.8	21.7	20.7	22.3	22.8
122.5°	90.0	79.9	55.1	36.4	27.8	24.3	22.8	18.7	18.7	19.7	20.2
125°	76.4	67.8	47.5	32.9	26.3	24.3	22.3	16.7	17.2	18.2	18.2
127.5°	65.2	58.7	43.5	31.9	26.8	24.8	20.7	15.7	16.7	18.2	18.2
130°	61.7	56.1	44.0	33.4	27.8	25.3	17.2	13.7	16.2	17.7	17.7
132.5°	59.2	54.6	44.0	34.9	28.8	23.3	13.7	12.1	13.7	14.7	14.7
135°	53.6	50.6	42.0	33.4	26.3	18.2	11.1	10.6	12.6	13.7	13.7
137.5°	48.0	45.0	38.4	30.9	23.3	14.7	8.1	9.6	10.6	11.6	11.6
140°	39.4	37.4	31.9	25.3	17.2	8.1	6.1	7.6	9.1	10.1	10.1
142.5°	27.8	26.8	22.3	16.2	9.6	3.0	4.0	5.6	6.6	7.6	7.6
145°	18.2	17.2	14.2	10.1	4.0	1.0	2.5	3.5	5.1	5.6	5.6
147.5°	11.6	11.1	8.6	5.1	1.5	1.0	1.0	2.5	4.0	4.6	4.6
150°	5.6	5.1	3.5	1.5	1.0	0.5	0.5	1.0	2.5	3.0	3.0
152.5°	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5	1.0	1.0
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	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	0.5	0.5	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)