

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: P239877

Luminaire Tested: **UTLD-AF24-40-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239877
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3288 lumens
Efficiency: N/A
Efficacy: 82.2 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



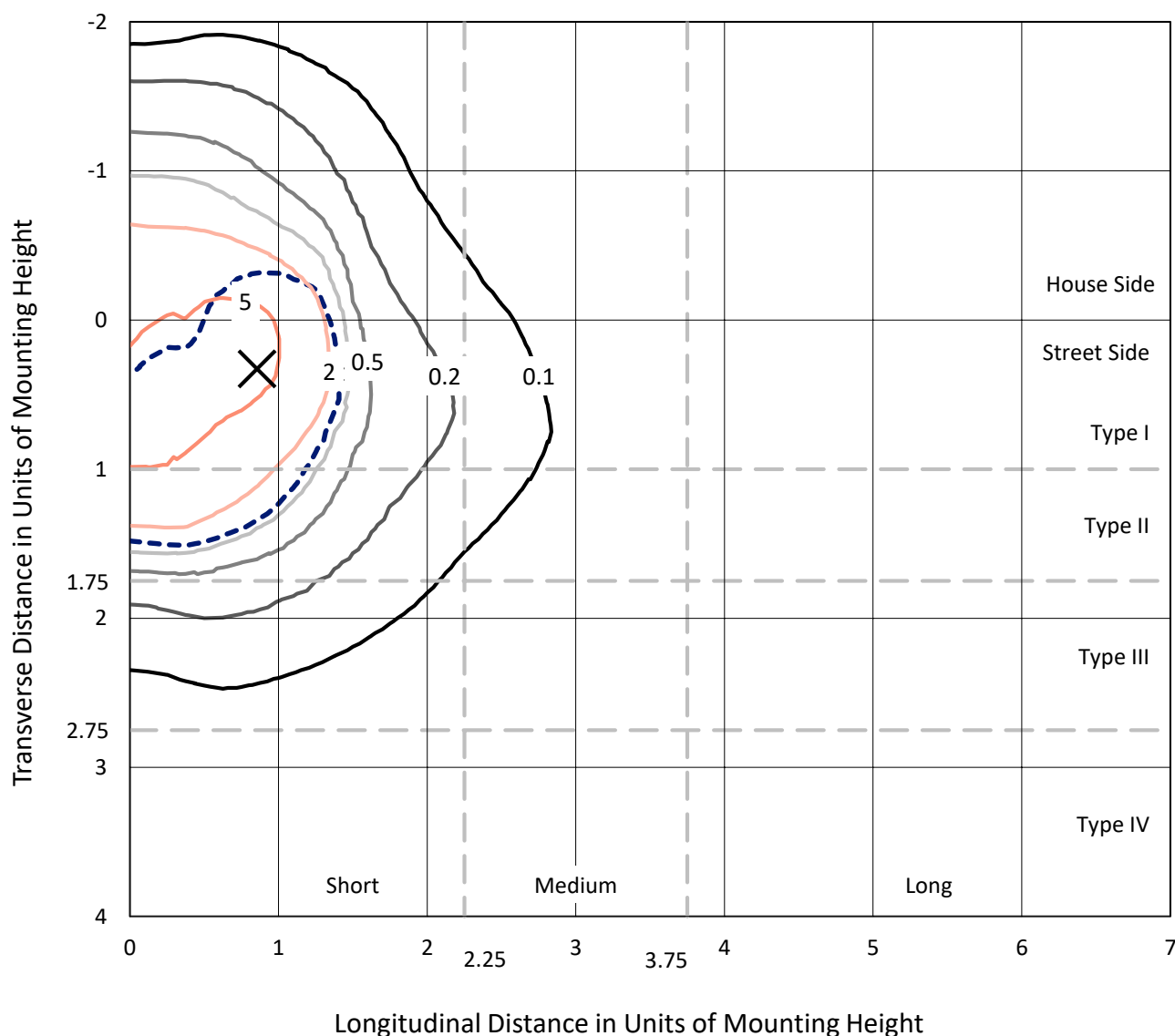
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

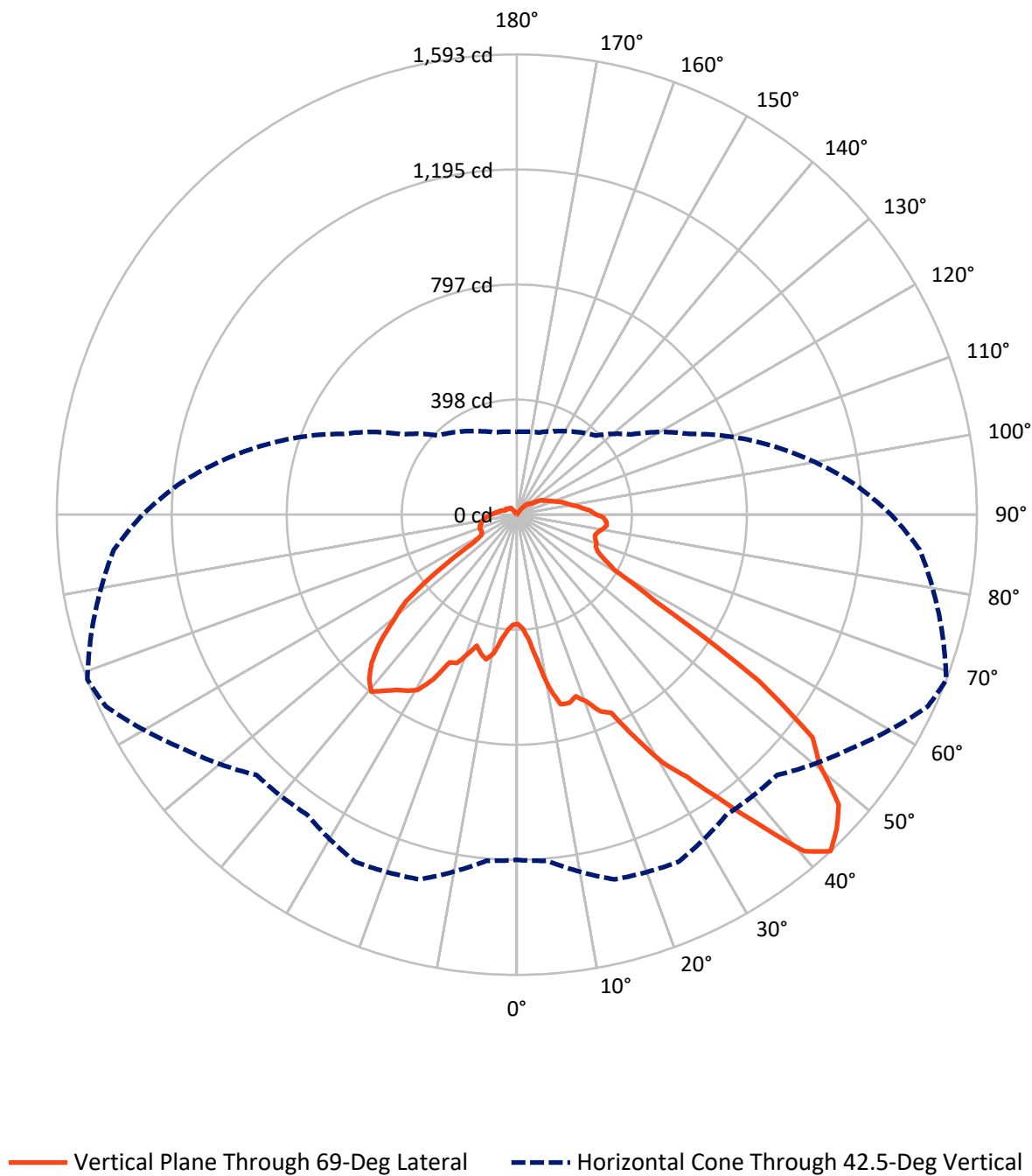


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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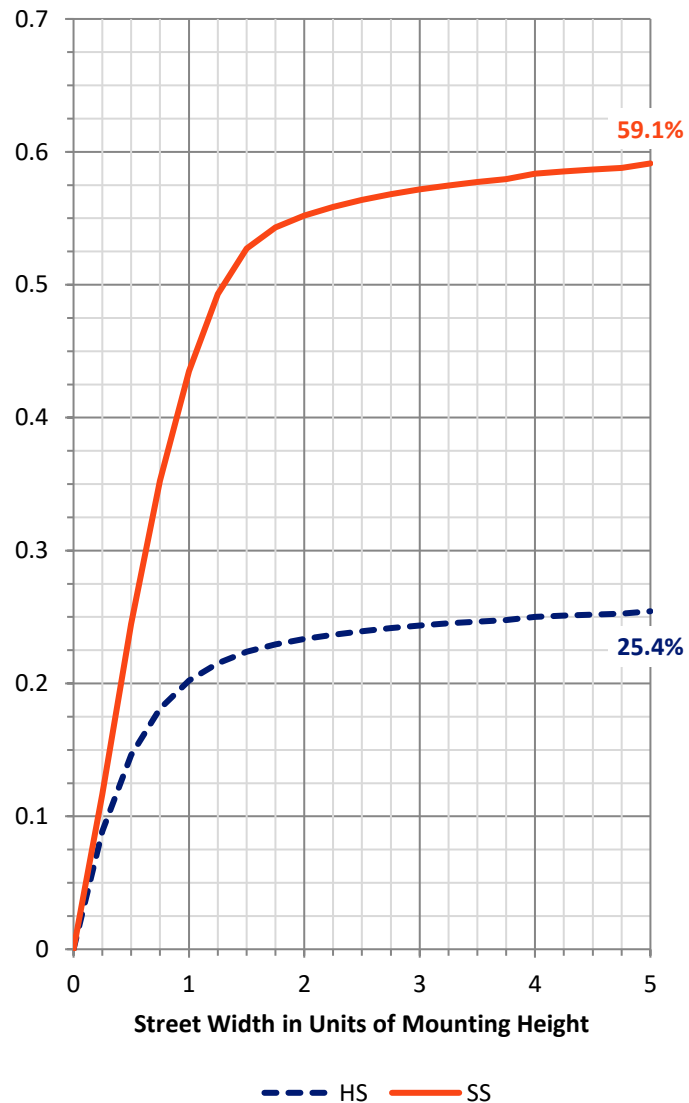
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.3	104.4	970.7
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2007.5	309.7	2317.3
	% Fixture	61.1	9.4	70.5
Total	Lumens	2873.9	414.2	3288.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.3
10°-20°	158.2	4.8
20°-30°	323.5	9.8
30°-40°	544.1	16.5
40°-50°	720.3	21.9
50°-60°	519.4	15.8
60°-70°	204.0	6.2
70°-80°	183.9	5.6
80°-90°	179.2	5.4
90°-100°	151.1	4.6
100°-110°	107.4	3.3
110°-120°	72.4	2.2
120°-130°	47.4	1.4
130°-140°	28.3	0.9
140°-150°	7.2	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2873.9	87.4
0°-180°	3288.0	100.0

Coefficient of Utilization



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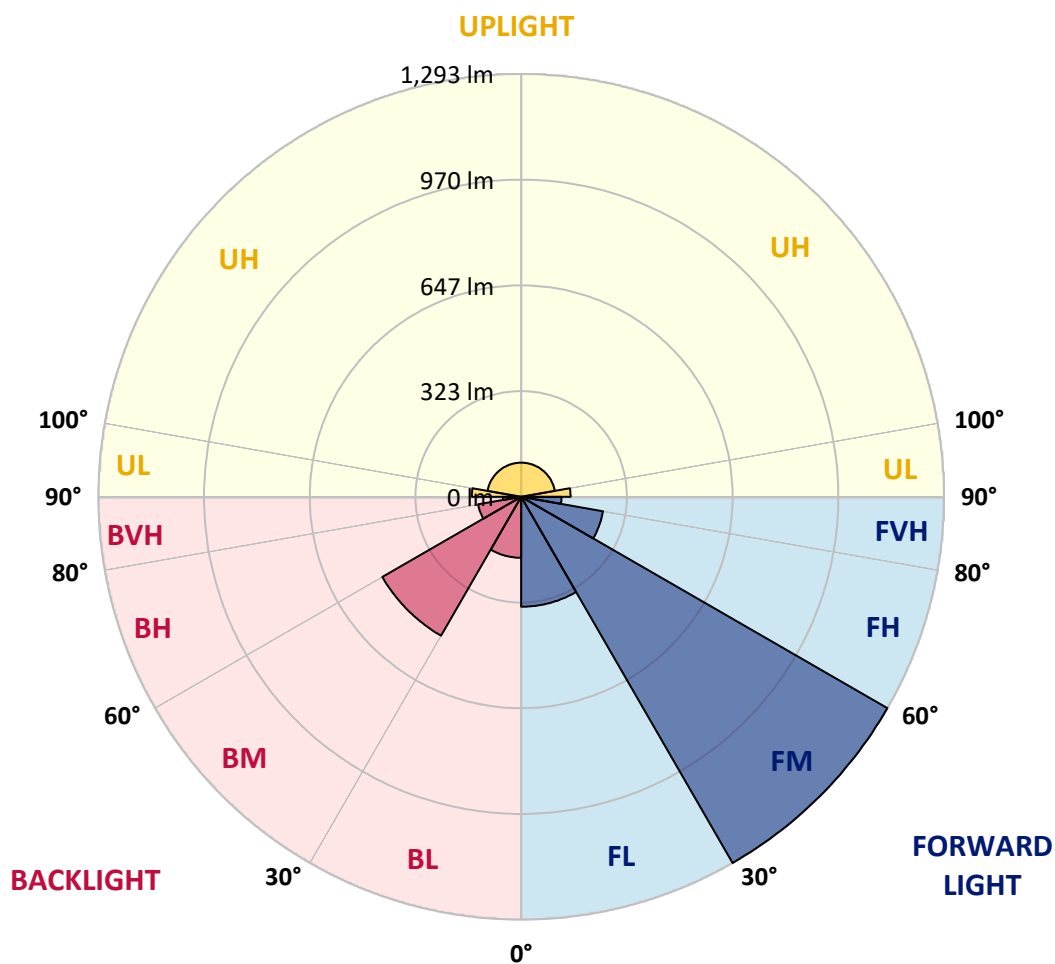
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.3	10.2			
FM	(30°-60°)	1293.5	39.3			
FH	(60°-80°)	254.3	7.7			G0/660
FVH	(80°-90°)	123.5	3.8			G2/225
BL	(0°-30°)	186.6	5.7	B1/500		
BM	(30°-60°)	490.4	14.9	B1/1000		
BH	(60°-80°)	133.6	4.1	B1/500		G1/500
BVH	(80°-90°)	55.7	1.7			G1/100
UL	(90°-100°)	151.1	4.6		U3/500	
UH	(100°-180°)	104.4	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°	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3
2.5°	403.0	400.7	399.8	399.8	398.5	398.0	398.9	397.6	395.3	394.9	392.2
5°	431.2	430.3	429.8	433.4	436.5	437.4	436.5	436.5	433.9	433.9	425.3
7.5°	476.4	475.0	478.6	487.6	490.7	500.1	511.3	504.6	506.4	501.5	485.3
10°	528.8	526.5	543.1	555.2	582.9	594.6	608.9	607.6	604.9	596.4	569.5
12.5°	576.2	574.9	596.4	640.3	677.4	715.0	718.2	687.3	673.4	642.9	609.4
15°	635.3	636.7	669.4	731.6	786.7	801.9	763.8	702.9	677.0	645.6	595.9
17.5°	730.7	735.2	790.7	861.4	898.2	836.8	755.3	685.5	660.9	626.8	578.9
20°	786.2	788.9	865.0	960.8	971.6	872.2	787.6	712.3	690.9	664.0	624.6
22.5°	819.4	829.2	916.5	1033.8	1027.5	954.6	837.3	766.1	739.2	702.5	670.3
25°	872.6	879.8	963.5	1076.8	1049.0	981.4	881.6	786.7	760.3	733.4	701.2
27.5°	944.7	951.4	1045.5	1110.8	1081.7	1017.3	947.9	887.0	873.1	868.6	854.7
30°	983.2	987.7	1093.4	1148.4	1098.7	1068.7	1049.5	1000.7	996.7	987.7	955.9
32.5°	1005.2	1022.2	1144.9	1176.6	1111.7	1108.1	1119.8	1089.8	1081.7	1066.5	1029.8
35°	1024.9	1033.4	1148.9	1197.2	1132.8	1131.0	1211.1	1225.0	1207.1	1175.7	1088.0
37.5°	1176.6	1180.7	1259.9	1242.9	1160.5	1170.4	1302.5	1374.5	1358.4	1319.5	1259.0
40°	1259.0	1266.2	1339.6	1304.2	1219.2	1230.4	1368.3	1517.8	1532.1	1530.8	1478.0
42.5°	1195.0	1202.6	1306.9	1325.7	1267.1	1274.7	1411.3	1570.2	1593.0	1522.7	1401.0
45°	1403.6	1409.5	1468.1	1330.7	1234.4	1263.5	1377.7	1532.1	1552.7	1532.1	1427.8
47.5°	1403.2	1396.0	1444.8	1344.5	1232.2	1212.5	1304.7	1459.2	1499.9	1452.9	1339.6
50°	1233.5	1233.1	1353.5	1295.7	1208.0	1162.3	1224.6	1346.8	1356.6	1301.6	1149.8
52.5°	1077.2	1076.4	1215.6	1186.0	1128.7	1084.0	1122.5	1244.3	1281.9	1233.5	1106.8
55°	938.9	977.4	1099.6	1036.5	1012.8	968.4	1007.0	1037.0	1017.7	883.4	595.9
57.5°	568.6	611.2	770.5	816.2	821.6	789.8	702.5	600.0	563.2	450.0	268.6
60°	265.1	275.4	404.3	492.1	600.4	548.9	444.2	386.8	386.8	339.8	233.3
62.5°	186.7	193.9	265.5	317.4	359.5	354.6	315.2	323.3	339.4	318.3	224.8
65°	175.5	180.0	236.4	252.1	268.2	271.3	266.0	290.6	307.6	304.9	227.9
67.5°	163.0	168.8	215.8	226.1	238.6	244.5	248.5	277.1	295.1	304.9	236.9
70°	148.2	154.9	199.2	213.6	225.7	239.1	244.0	274.9	293.3	303.1	240.0
72.5°	134.3	140.1	177.3	195.2	216.7	232.4	252.1	270.9	283.4	293.7	241.8
75°	120.9	127.6	158.9	179.5	204.6	234.2	257.9	271.8	280.3	288.3	239.5
77.5°	111.9	119.1	143.7	167.5	197.5	238.2	265.1	283.0	287.9	289.2	236.9
80°	103.9	111.9	137.9	163.0	195.7	240.0	273.6	295.1	301.8	304.9	252.1
82.5°	109.7	116.9	139.2	169.7	201.5	239.5	271.3	305.4	313.0	311.2	257.0
85°	124.0	129.8	157.2	185.8	210.4	235.5	263.3	300.4	311.2	320.6	272.2
87.5°	150.9	153.6	173.3	199.7	219.8	227.9	255.7	290.6	300.4	303.6	265.1
90°	165.2	167.9	191.2	213.1	219.4	222.1	227.9	262.8	270.0	282.5	253.4
92.5°	181.8	181.8	206.0	218.9	218.9	207.7	211.8	243.1	255.2	262.4	235.5
95°	197.9	197.0	210.4	218.0	206.4	190.7	197.5	222.1	229.7	237.3	218.9
97.5°	202.8	202.4	210.4	206.0	186.7	171.9	180.4	201.5	209.5	217.6	198.8
100°	197.5	195.2	197.5	187.6	169.7	158.5	163.4	180.9	189.4	196.1	179.1
102.5°	185.8	184.5	185.4	175.5	156.7	143.3	150.0	168.3	174.6	180.0	164.8
105°	180.4	178.2	174.2	159.8	141.5	132.1	137.9	156.3	162.1	172.8	160.3
107.5°	153.6	151.8	148.6	141.0	131.6	124.5	129.4	142.4	146.0	151.3	139.7
110°	132.5	131.6	130.7	128.9	123.1	118.2	120.9	128.1	132.5	136.6	124.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	128.1	126.7	125.8	122.7	115.1	109.7	111.5	119.5	122.2	123.6	111.0
115°	122.2	120.9	116.0	111.5	106.1	103.4	103.9	110.6	112.4	113.3	105.7
117.5°	108.4	107.0	103.9	102.1	98.9	97.6	99.8	103.4	103.9	104.3	97.6
120°	100.3	99.8	98.1	94.9	92.7	89.5	93.1	96.7	98.1	99.4	94.9
122.5°	91.3	90.4	88.7	84.6	84.6	82.8	82.4	84.6	85.1	88.7	86.4
125°	80.6	79.7	77.9	74.3	78.8	78.8	75.7	70.7	72.1	75.2	73.4
127.5°	72.1	71.2	69.4	67.6	73.9	76.1	70.7	61.8	62.7	63.6	62.2
130°	70.7	69.8	67.6	64.5	66.3	73.0	63.6	56.4	57.8	58.7	57.8
132.5°	69.4	69.0	65.8	61.8	59.5	65.8	55.1	53.3	54.6	56.0	55.1
135°	64.9	64.5	61.8	56.0	49.7	52.8	43.9	46.6	48.8	50.6	49.7
137.5°	57.8	57.3	55.1	49.3	40.7	38.1	33.6	39.8	41.6	43.9	43.9
140°	46.6	46.1	43.9	38.1	28.7	20.1	21.5	30.4	32.2	34.9	35.4
142.5°	34.0	33.1	30.9	25.5	16.1	6.7	12.1	18.4	20.6	23.3	25.1
145°	23.3	22.8	19.7	15.2	7.6	0.9	5.4	11.2	12.5	14.3	16.1
147.5°	14.8	14.8	12.5	8.5	2.2	0.9	1.3	5.8	7.2	9.0	10.3
150°	9.0	9.0	6.7	2.7	0.4	0.4	0.4	0.9	2.2	4.0	5.4
152.5°	2.2	2.2	1.3	0.9	0.4	0.0	0.4	0.4	0.4	0.4	0.9
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.0	0.4	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°	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3	378.3
2.5°	390.9	388.2	384.6	379.7	374.8	369.8	364.9	362.2	360.9	360.0	359.5
5°	423.1	417.3	407.9	394.9	378.8	369.4	362.7	354.6	349.2	347.4	346.1
7.5°	480.0	470.6	451.8	424.0	404.3	376.5	352.8	337.6	326.4	320.1	320.1
10°	556.1	542.7	510.0	471.9	421.3	372.5	335.8	308.0	295.1	289.7	288.3
12.5°	589.7	576.7	538.2	493.8	440.1	383.3	336.7	303.6	287.9	281.6	282.5
15°	572.7	554.7	521.6	480.0	437.9	402.1	363.1	321.9	295.1	287.9	290.1
17.5°	555.6	537.3	501.9	455.8	414.6	390.9	363.6	335.8	310.3	300.0	298.2
20°	605.3	591.9	544.0	491.6	429.8	369.8	350.6	338.0	329.5	330.0	325.9
22.5°	652.8	634.4	590.6	529.2	462.5	410.1	378.8	362.2	352.8	356.8	357.3
25°	684.6	670.7	605.8	532.4	476.8	437.9	392.7	369.4	353.7	353.7	351.9
27.5°	846.2	811.7	708.8	596.4	513.6	449.1	394.5	367.6	347.9	342.1	343.0
30°	930.8	896.8	779.1	642.5	555.6	475.9	399.4	357.7	352.8	348.8	350.1
32.5°	1003.4	953.2	814.0	654.6	548.0	480.0	410.1	360.0	336.2	332.2	334.0
35°	1039.2	983.2	841.7	665.3	551.6	463.0	397.1	350.6	335.4	331.3	332.7
37.5°	1204.4	1120.7	885.6	681.5	550.7	440.6	379.7	342.1	313.9	301.8	301.8
40°	1394.2	1271.1	962.2	680.6	516.7	421.3	360.4	325.5	303.1	293.7	293.3
42.5°	1295.7	1178.4	917.4	660.4	483.6	386.4	349.7	318.3	294.2	287.9	286.5
45°	1336.9	1211.6	885.2	604.0	433.9	358.6	324.2	302.2	274.5	260.1	259.7
47.5°	1206.2	1105.5	819.4	532.4	390.9	315.2	293.7	279.4	261.9	249.8	248.5
50°	1046.4	944.7	689.5	471.9	333.1	279.4	264.6	257.4	240.0	226.1	227.0
52.5°	999.8	876.7	600.9	411.9	286.5	243.6	236.4	228.3	210.9	194.8	196.6
55°	495.6	410.6	365.4	320.1	240.4	211.8	208.6	203.7	186.3	172.4	172.8
57.5°	231.0	199.2	174.6	185.8	181.3	184.0	182.7	179.5	163.0	143.3	141.9
60°	206.9	177.3	148.2	140.6	149.1	160.7	159.8	150.0	128.9	105.7	103.0
62.5°	199.7	169.7	143.7	132.5	136.1	143.7	138.3	125.8	108.8	87.3	86.9
65°	203.3	171.5	143.3	129.4	132.1	135.2	127.6	118.6	108.4	93.6	93.6
67.5°	210.9	178.2	146.4	128.1	129.4	132.5	125.4	119.1	113.7	103.9	103.9
70°	213.1	181.3	148.2	128.5	127.2	129.8	124.9	119.1	116.0	107.9	107.5
72.5°	214.0	183.1	147.3	126.3	123.1	125.4	121.8	119.1	117.8	111.5	110.6
75°	210.0	181.3	142.8	121.3	118.2	119.1	118.2	117.8	119.5	115.5	114.2
77.5°	205.1	178.6	139.2	116.0	112.4	112.8	111.9	113.3	115.1	112.4	110.1
80°	215.4	186.3	139.7	111.9	105.2	103.0	103.4	104.8	107.0	101.2	98.1
82.5°	218.9	186.7	133.4	103.0	94.5	91.3	92.2	95.8	97.6	92.2	89.1
85°	232.4	195.2	128.9	94.9	85.1	81.9	82.8	85.1	84.2	77.9	75.2
87.5°	227.0	189.4	120.9	85.5	77.5	74.8	75.2	76.1	73.0	64.9	62.7
90°	219.4	182.7	111.9	75.2	68.5	67.6	66.7	65.4	60.0	51.5	49.3
92.5°	205.5	170.6	103.9	68.1	60.9	60.4	59.1	56.4	51.5	43.0	40.7
95°	193.9	159.8	96.3	62.2	54.6	52.8	52.8	50.1	44.8	37.6	36.7
97.5°	174.6	145.5	88.7	57.3	48.8	47.0	46.6	44.8	40.7	35.4	34.9
100°	158.0	131.6	80.6	51.9	43.9	42.1	41.2	40.3	37.2	34.0	34.0
102.5°	146.4	121.8	75.2	47.5	39.4	37.6	37.6	36.7	34.9	32.7	32.7
105°	143.3	119.5	73.0	43.4	34.9	34.0	34.5	34.5	33.1	31.8	31.8
107.5°	124.5	103.0	62.7	38.5	31.8	30.9	31.3	31.8	31.3	30.9	30.9
110°	111.0	93.6	58.2	36.3	30.0	28.7	28.7	28.7	28.7	29.1	29.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	99.4	83.3	53.3	34.5	28.2	26.9	26.4	26.0	25.5	27.3	27.3
115°	94.9	81.0	51.9	33.6	26.9	25.5	24.2	23.3	22.4	23.7	24.2
117.5°	88.2	76.1	50.6	33.6	26.4	24.2	22.8	21.5	20.1	21.5	21.5
120°	86.4	75.7	51.5	34.0	25.5	22.4	21.0	19.3	18.4	19.7	20.1
122.5°	79.7	70.7	48.8	32.2	24.6	21.5	20.1	16.6	16.6	17.5	17.9
125°	67.6	60.0	42.1	29.1	23.3	21.5	19.7	14.8	15.2	16.1	16.1
127.5°	57.8	51.9	38.5	28.2	23.7	21.9	18.4	13.9	14.8	16.1	16.1
130°	54.6	49.7	39.0	29.6	24.6	22.4	15.2	12.1	14.3	15.7	15.7
132.5°	52.4	48.4	39.0	30.9	25.5	20.6	12.1	10.7	12.1	13.0	13.0
135°	47.5	44.8	37.2	29.6	23.3	16.1	9.9	9.4	11.2	12.1	12.1
137.5°	42.5	39.8	34.0	27.3	20.6	13.0	7.2	8.5	9.4	10.3	10.3
140°	34.9	33.1	28.2	22.4	15.2	7.2	5.4	6.7	8.1	9.0	9.0
142.5°	24.6	23.7	19.7	14.3	8.5	2.7	3.6	4.9	5.8	6.7	6.7
145°	16.1	15.2	12.5	9.0	3.6	0.9	2.2	3.1	4.5	4.9	4.9
147.5°	10.3	9.9	7.6	4.5	1.3	0.9	0.9	2.2	3.6	4.0	4.0
150°	4.9	4.5	3.1	1.3	0.9	0.4	0.4	0.9	2.2	2.7	2.7
152.5°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.4	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	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	0.4	0.4	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)