

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: P266335

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3360.7 lumens
Efficiency: N/A
Efficacy: 84.0 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 - G2

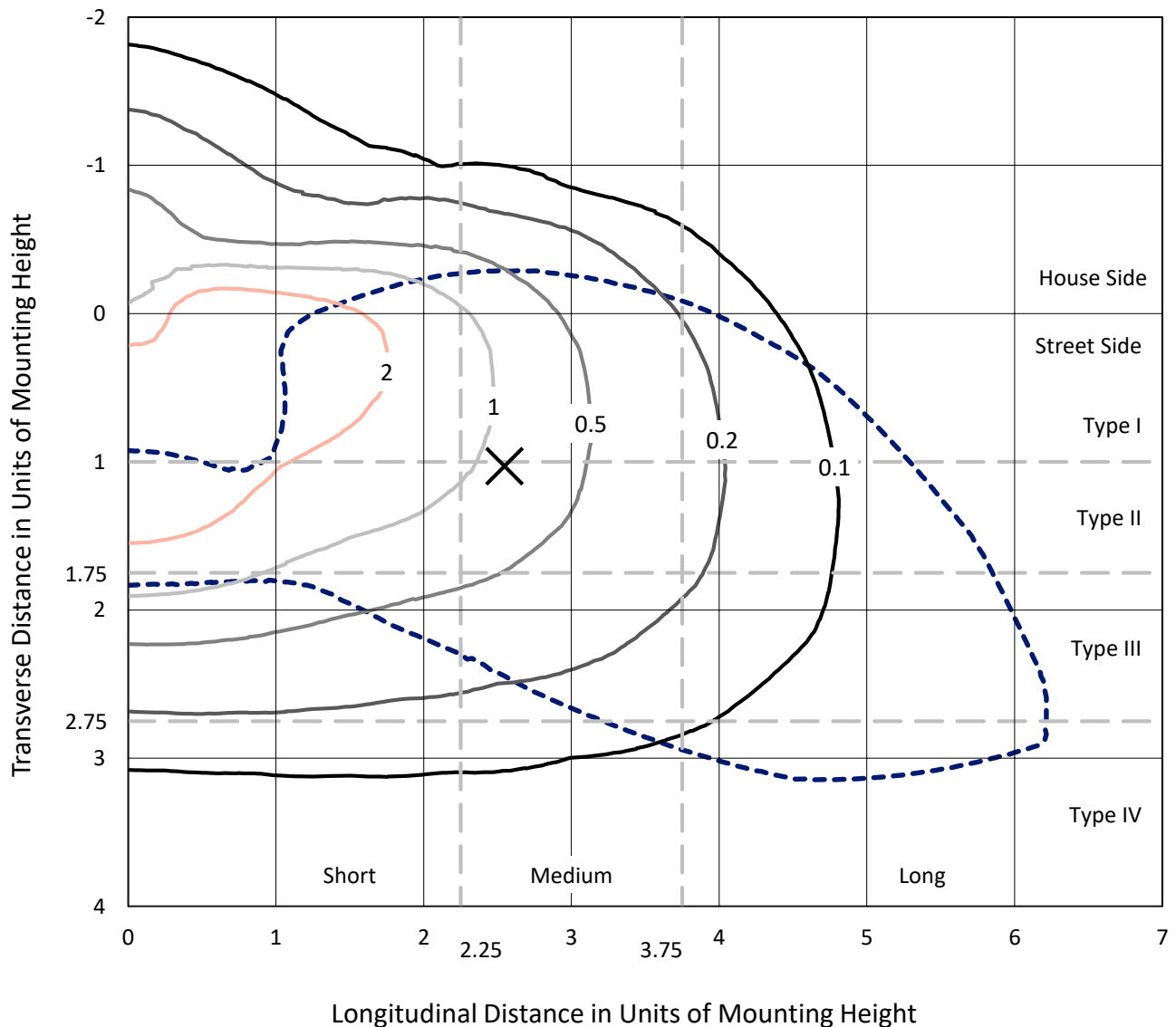
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

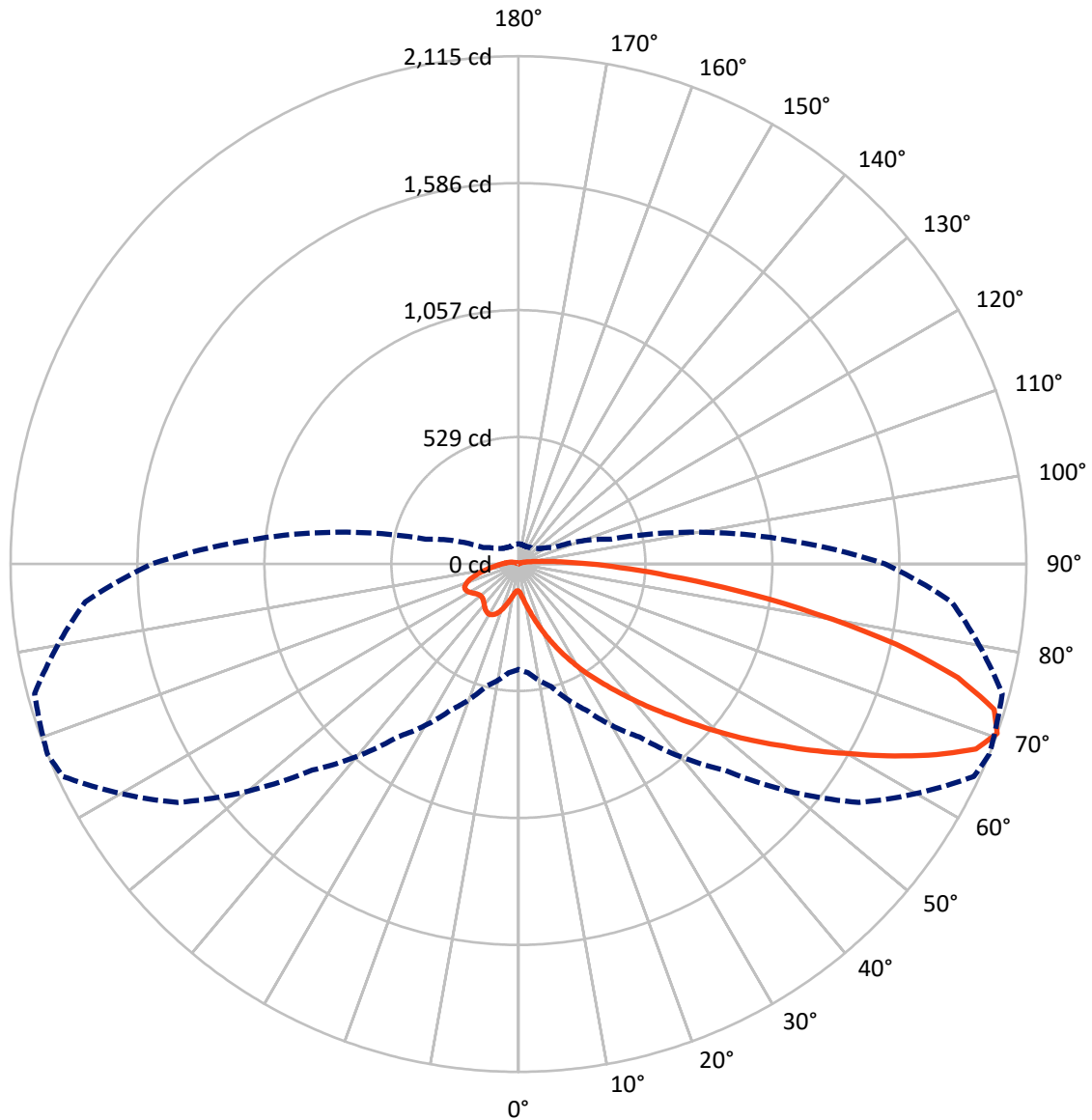
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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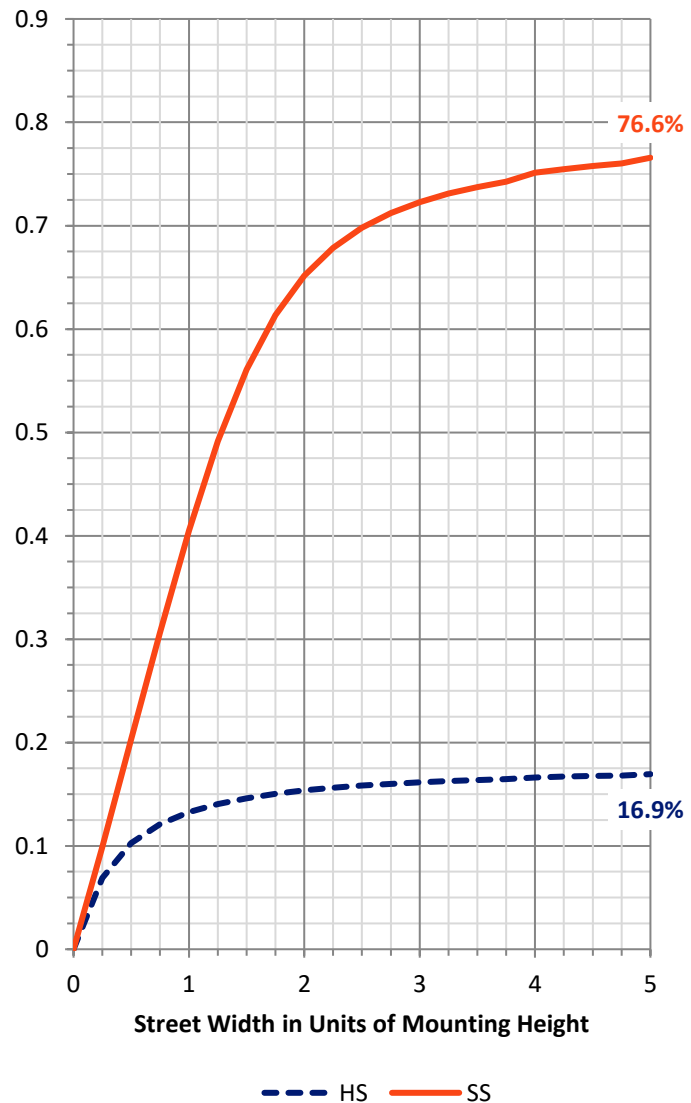
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.0	54.6	648.6
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	2637.3	74.8	2712.0
	% Fixture	78.5	2.2	80.7
Total	Lumens	3231.3	129.4	3360.7
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.4
10°-20°	53.3	1.6
20°-30°	134.9	4.0
30°-40°	261.5	7.8
40°-50°	440.8	13.1
50°-60°	659.1	19.6
60°-70°	799.2	23.8
70°-80°	623.5	18.6
80°-90°	246.7	7.3
90°-100°	75.5	2.2
100°-110°	29.7	0.9
110°-120°	13.2	0.4
120°-130°	6.5	0.2
130°-140°	3.2	0.1
140°-150°	1.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3231.3	96.2
0°-180°	3360.7	100.0

Coefficient of Utilization



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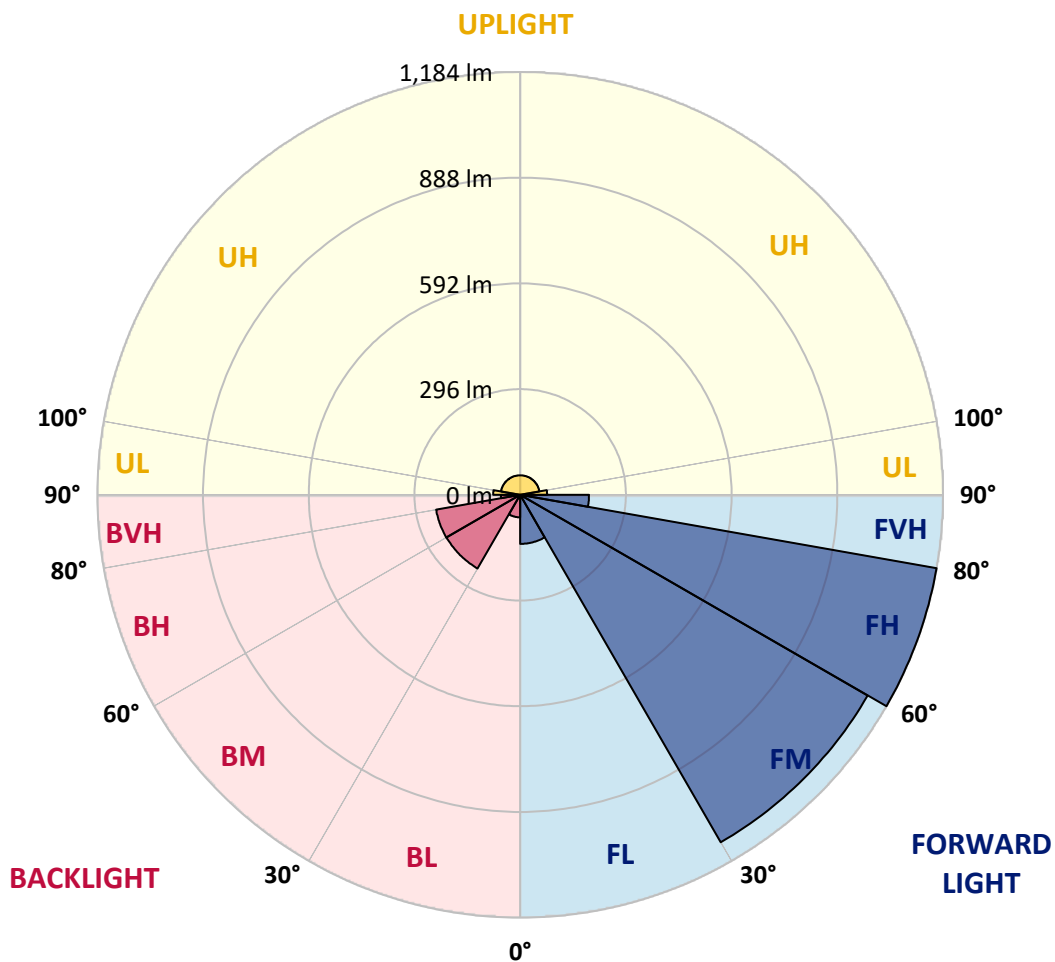
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.4	4.1			
FM	(30°-60°)	1123.2	33.4			
FH	(60°-80°)	1183.8	35.2			G1/1800
FVH	(80°-90°)	192.8	5.7			G2/225
BL	(0°-30°)	63.1	1.9	B0/110		
BM	(30°-60°)	238.1	7.1	B1/1000		
BH	(60°-80°)	238.9	7.1	B1/500		G1/500
BVH	(80°-90°)	53.9	1.6			G1/100
UL	(90°-100°)	75.5	2.2		U3/500	
UH	(100°-180°)	54.6	1.6		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	125.7	126.1	126.1	124.8	124.3	123.0	120.8	120.0	119.0	118.1	116.4
5°	142.3	142.3	141.5	140.1	138.3	137.1	134.8	132.2	131.8	128.7	125.7
7.5°	161.2	161.7	162.1	159.9	157.4	155.0	152.4	148.9	148.1	144.9	139.2
10°	186.3	186.8	185.9	183.7	180.1	177.5	174.5	170.9	169.6	166.9	159.1
12.5°	216.6	216.1	213.5	210.5	206.5	203.5	199.5	196.9	196.0	193.3	185.1
15°	248.7	250.4	247.4	240.3	235.4	230.7	228.9	228.9	229.7	226.7	218.7
17.5°	290.1	291.3	286.0	276.4	268.5	263.2	261.4	264.9	266.3	267.5	260.6
20°	337.9	338.3	329.9	316.4	302.3	295.7	296.1	304.4	307.6	312.4	304.0
22.5°	396.3	392.7	380.9	359.9	339.6	329.0	333.0	349.7	352.3	362.5	358.1
25°	457.3	457.0	437.1	409.1	379.7	366.0	372.5	393.3	400.7	416.1	410.3
27.5°	527.7	525.9	500.4	465.7	425.7	405.6	411.2	440.7	449.5	475.5	469.3
30°	602.4	602.9	572.8	524.6	474.9	446.8	450.3	491.3	502.6	532.5	530.8
32.5°	691.5	686.2	652.9	589.6	528.6	490.4	495.1	542.7	558.4	594.0	588.7
35°	781.2	774.6	730.2	660.9	584.3	539.2	541.3	597.6	614.3	660.3	650.3
37.5°	863.8	860.2	815.9	735.9	646.8	593.2	595.8	656.4	677.5	729.0	716.6
40°	952.6	952.6	907.3	820.3	716.2	651.6	655.6	721.9	747.4	803.7	783.0
42.5°	1046.5	1043.6	995.6	897.1	785.2	714.4	722.2	795.7	824.3	884.0	862.9
45°	1139.3	1132.8	1083.0	980.7	854.1	785.2	796.9	876.6	906.4	982.4	953.0
47.5°	1219.2	1212.3	1163.5	1055.8	926.6	858.5	875.2	970.6	1002.1	1092.7	1048.0
50°	1276.3	1274.2	1226.7	1115.5	991.2	934.1	969.2	1070.7	1108.5	1199.9	1157.7
52.5°	1309.8	1305.7	1268.0	1169.7	1055.8	1012.3	1065.8	1179.7	1219.7	1318.2	1268.9
55°	1302.4	1299.7	1272.9	1198.2	1106.4	1087.4	1173.0	1300.9	1338.4	1444.7	1386.3
57.5°	1243.4	1246.8	1239.0	1199.9	1143.6	1165.2	1283.0	1428.8	1468.4	1572.0	1509.6
60°	1138.4	1137.1	1159.5	1166.1	1158.6	1232.5	1415.5	1574.6	1605.0	1709.6	1630.1
62.5°	983.4	979.8	1028.6	1091.4	1147.7	1289.1	1535.2	1730.2	1760.6	1844.8	1741.3
65°	793.1	808.8	870.0	973.7	1093.1	1310.6	1651.2	1888.9	1913.8	1958.8	1828.6
67.5°	601.1	616.4	695.5	826.9	1002.1	1285.6	1724.9	2031.2	2055.3	2067.2	1866.9
70°	438.9	453.9	528.6	672.7	878.7	1213.2	1730.7	2092.7	2114.7	2085.7	1810.7
72.5°	312.4	320.2	384.5	521.0	738.1	1086.1	1658.6	2053.2	2071.2	1990.7	1662.1
75°	221.1	224.5	279.9	396.3	601.1	942.4	1487.2	1876.1	1890.2	1789.2	1413.5
77.5°	150.6	158.6	202.6	302.3	482.0	773.7	1260.5	1608.5	1608.5	1480.2	1118.2
80°	106.8	113.4	145.4	225.8	377.4	619.9	1018.5	1278.1	1257.8	1112.6	805.8
82.5°	76.8	82.1	107.6	172.2	293.0	489.8	772.8	946.5	918.6	776.3	532.5
85°	55.9	61.1	81.7	126.5	224.5	380.1	579.0	657.3	630.0	514.5	345.8
87.5°	40.9	44.3	61.1	95.3	170.0	287.7	424.9	446.4	422.3	332.6	221.9
90°	28.9	32.1	46.6	72.0	127.4	216.1	298.3	293.0	266.6	209.1	146.8
92.5°	21.1	23.3	34.8	54.9	95.0	158.6	205.3	189.4	174.5	134.4	102.0
95°	15.8	17.5	27.3	42.6	69.9	111.6	138.3	124.3	112.8	91.8	75.1
97.5°	12.8	14.1	22.4	34.2	54.1	81.2	95.8	82.1	76.8	66.4	58.0
100°	11.0	11.9	18.9	28.6	42.6	61.1	67.6	57.5	54.4	50.0	45.3
102.5°	10.2	10.5	16.7	24.7	34.8	45.8	48.8	43.1	40.9	38.2	35.7
105°	9.3	9.6	14.9	21.5	29.5	35.7	37.4	33.0	31.6	28.9	27.3
107.5°	8.9	8.9	13.1	18.9	25.1	29.5	29.5	26.0	24.7	22.0	21.1
110°	8.4	8.4	11.9	17.2	21.5	25.1	24.2	20.7	19.4	16.7	16.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	7.9	7.9	11.0	14.9	18.9	21.1	20.2	16.7	15.5	12.8	12.8
115°	7.5	7.5	9.6	13.1	16.7	18.1	17.2	13.7	12.8	10.2	10.5
117.5°	7.5	7.5	9.3	11.9	14.6	15.8	14.6	11.0	10.2	8.4	9.3
120°	7.0	7.0	8.4	10.5	12.8	13.7	12.2	9.3	8.4	7.0	7.9
122.5°	7.0	7.0	7.9	9.3	11.4	11.9	10.5	7.9	7.0	6.2	7.0
125°	6.6	6.6	7.5	8.4	9.6	10.2	8.9	6.6	6.2	5.7	6.2
127.5°	6.6	6.6	7.0	7.5	8.9	8.9	7.5	5.3	5.3	4.9	5.7
130°	6.2	6.6	6.6	7.0	7.5	7.5	6.2	4.4	4.4	4.4	5.3
132.5°	6.2	6.2	6.2	6.2	6.6	6.2	4.9	4.0	4.0	4.0	4.9
135°	5.7	5.7	5.7	5.7	5.3	4.9	4.0	3.1	3.1	3.6	4.4
137.5°	5.7	5.7	5.3	4.9	4.9	4.0	3.1	2.6	2.6	3.6	4.0
140°	5.3	5.3	4.9	4.4	3.6	3.1	2.2	2.2	2.2	2.6	3.1
142.5°	4.4	4.4	4.4	3.6	2.6	1.7	1.3	1.3	1.7	2.2	2.6
145°	4.0	4.0	3.6	3.1	1.7	0.9	0.4	0.9	1.3	1.7	2.2
147.5°	3.1	3.1	2.6	2.2	0.9	0.4	0.0	0.4	0.9	0.9	1.3
150°	2.2	2.2	2.2	1.3	0.4	0.0	0.0	0.4	0.4	0.4	0.9
152.5°	1.7	1.7	1.3	0.9	0.0	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
157.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.4	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°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	115.2	114.7	112.5	110.8	108.5	106.8	105.0	103.7	103.2	102.3	102.9
5°	123.0	121.4	116.9	112.8	108.5	104.6	101.1	98.5	96.2	95.3	95.0
7.5°	136.6	133.9	126.1	119.0	112.1	105.0	99.4	95.0	92.3	90.5	90.5
10°	156.5	150.6	140.7	128.7	116.9	106.8	98.9	92.7	88.8	87.5	87.5
12.5°	180.6	174.5	158.6	140.7	123.8	109.9	99.4	92.7	88.8	87.0	86.5
15°	212.7	203.5	180.1	154.7	130.6	112.5	99.7	93.2	90.5	89.7	89.7
17.5°	250.4	238.9	205.3	170.0	138.0	113.7	101.1	95.8	94.4	94.4	94.4
20°	295.3	278.6	233.3	183.7	143.2	115.2	102.0	97.9	97.9	98.9	99.4
22.5°	343.2	322.0	260.6	196.4	144.9	116.1	101.5	98.9	101.1	103.2	103.7
25°	394.0	364.7	285.1	204.4	145.9	113.7	100.3	99.4	103.7	106.8	107.6
27.5°	448.2	408.2	306.2	207.4	143.2	109.9	97.9	98.5	105.0	109.5	110.3
30°	497.8	449.1	322.9	206.5	137.5	105.0	95.3	97.0	105.0	111.2	112.5
32.5°	549.3	489.4	333.0	202.6	130.6	99.7	92.3	95.8	104.6	111.6	112.8
35°	600.5	525.0	337.9	194.7	122.6	95.0	89.2	93.7	103.2	111.2	112.1
37.5°	652.0	560.3	339.2	184.5	115.5	91.0	87.0	92.3	101.1	110.3	111.6
40°	707.3	594.9	336.5	174.5	109.0	88.4	85.2	90.5	99.4	109.0	110.8
42.5°	769.3	631.8	333.5	164.3	104.6	86.5	83.9	88.8	96.7	107.6	109.9
45°	838.3	672.2	331.7	156.5	102.0	85.7	83.5	87.5	95.3	106.8	109.0
47.5°	912.6	723.1	333.5	151.2	100.6	86.1	83.5	86.5	93.7	105.0	107.6
50°	1003.0	781.6	340.1	147.2	100.3	86.5	83.9	85.7	91.8	102.3	105.0
52.5°	1096.7	841.4	350.6	146.3	100.6	87.5	84.4	85.2	89.2	98.9	101.1
55°	1193.8	920.5	368.7	147.6	101.5	88.8	84.8	84.4	87.0	94.4	97.0
57.5°	1303.6	1002.7	391.0	150.6	102.9	89.7	85.2	83.5	84.4	90.5	92.7
60°	1412.6	1086.1	413.8	154.7	105.5	91.0	85.7	83.1	83.1	87.9	89.7
62.5°	1511.4	1159.5	432.8	159.9	107.6	91.8	85.7	82.1	81.7	85.7	87.5
65°	1579.1	1198.2	437.1	163.0	109.9	92.3	84.8	81.2	80.8	83.9	85.7
67.5°	1597.0	1192.1	428.4	164.3	111.2	92.3	84.8	80.4	80.8	83.5	84.8
70°	1526.8	1128.4	399.3	161.7	110.8	91.8	83.9	79.5	80.4	83.1	83.9
72.5°	1359.0	996.5	354.7	155.0	108.5	90.1	82.1	78.2	79.5	82.6	83.5
75°	1140.6	825.5	301.4	144.5	104.6	87.9	80.4	76.4	78.6	81.7	82.1
77.5°	877.5	632.6	246.4	131.0	99.4	84.8	77.8	73.8	76.8	80.4	79.9
80°	623.1	461.3	194.7	116.9	92.3	80.4	74.3	70.7	74.3	77.8	76.8
82.5°	429.3	312.8	155.5	103.2	84.8	75.5	70.2	67.3	71.1	74.3	72.9
85°	281.2	211.3	122.6	90.5	77.8	70.7	65.8	62.8	66.7	69.3	67.6
87.5°	181.5	147.2	97.9	78.6	70.2	65.4	61.1	58.4	62.4	64.6	62.8
90°	126.1	107.2	80.8	68.1	63.3	59.7	56.2	53.5	57.1	58.8	58.0
92.5°	90.1	82.1	67.3	59.7	57.1	54.1	50.9	48.8	52.3	53.5	52.7
95°	70.2	65.4	57.1	52.7	51.5	49.1	46.2	43.9	46.6	47.4	47.0
97.5°	56.2	54.1	49.1	46.6	45.8	43.9	41.7	39.5	41.3	41.7	41.3
100°	45.3	44.3	42.2	40.9	40.5	39.0	36.9	35.2	36.0	35.7	35.7
102.5°	36.0	36.0	35.7	35.2	35.2	33.9	32.1	30.4	30.4	29.5	29.5
105°	28.6	29.5	29.5	29.9	30.4	29.5	27.7	25.5	25.1	23.7	23.7
107.5°	22.4	23.3	24.7	25.1	25.5	24.7	23.3	21.1	19.8	18.4	18.9
110°	17.5	18.4	20.2	21.1	21.5	21.1	19.4	17.5	15.5	14.6	14.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.7	14.9	16.7	17.5	18.1	17.5	15.8	14.1	11.9	11.4	11.4
115°	11.4	12.2	14.1	14.9	14.9	14.6	13.1	11.0	9.3	8.9	9.3
117.5°	9.6	10.5	11.9	12.8	12.8	12.2	11.0	8.9	7.5	7.5	7.5
120°	8.4	9.3	10.2	11.0	11.0	10.5	9.3	7.0	6.2	6.2	6.2
122.5°	7.5	7.9	8.9	9.3	9.3	8.9	7.5	5.7	4.9	5.3	5.3
125°	6.6	7.0	7.9	8.4	7.9	7.5	6.2	4.4	4.0	4.4	4.4
127.5°	6.2	6.6	7.0	7.0	7.0	6.2	5.3	3.6	3.6	4.0	4.0
130°	5.7	5.7	6.2	6.2	5.7	5.3	4.0	2.6	2.6	3.6	3.6
132.5°	5.3	5.3	5.7	5.3	5.3	4.4	3.1	2.2	2.6	3.1	3.1
135°	4.4	4.4	4.9	4.9	4.0	3.6	2.2	1.7	1.7	2.2	2.6
137.5°	4.0	4.4	4.4	4.0	3.6	2.6	1.7	1.3	1.7	1.7	2.2
140°	3.6	3.6	3.6	3.1	2.6	1.7	0.9	0.9	1.3	1.3	1.3
142.5°	2.6	3.1	3.1	2.6	1.7	0.9	0.4	0.4	0.9	0.9	0.9
145°	2.2	2.2	2.2	1.7	1.3	0.9	0.4	0.4	0.4	0.4	0.4
147.5°	1.3	1.7	1.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
150°	0.9	0.9	1.3	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.4	0.4	0.4	0.4	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)