

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: P240587

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.3 lumens
Efficiency: N/A
Efficacy: 102.5 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 - G1

Input Watts (W): 31
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

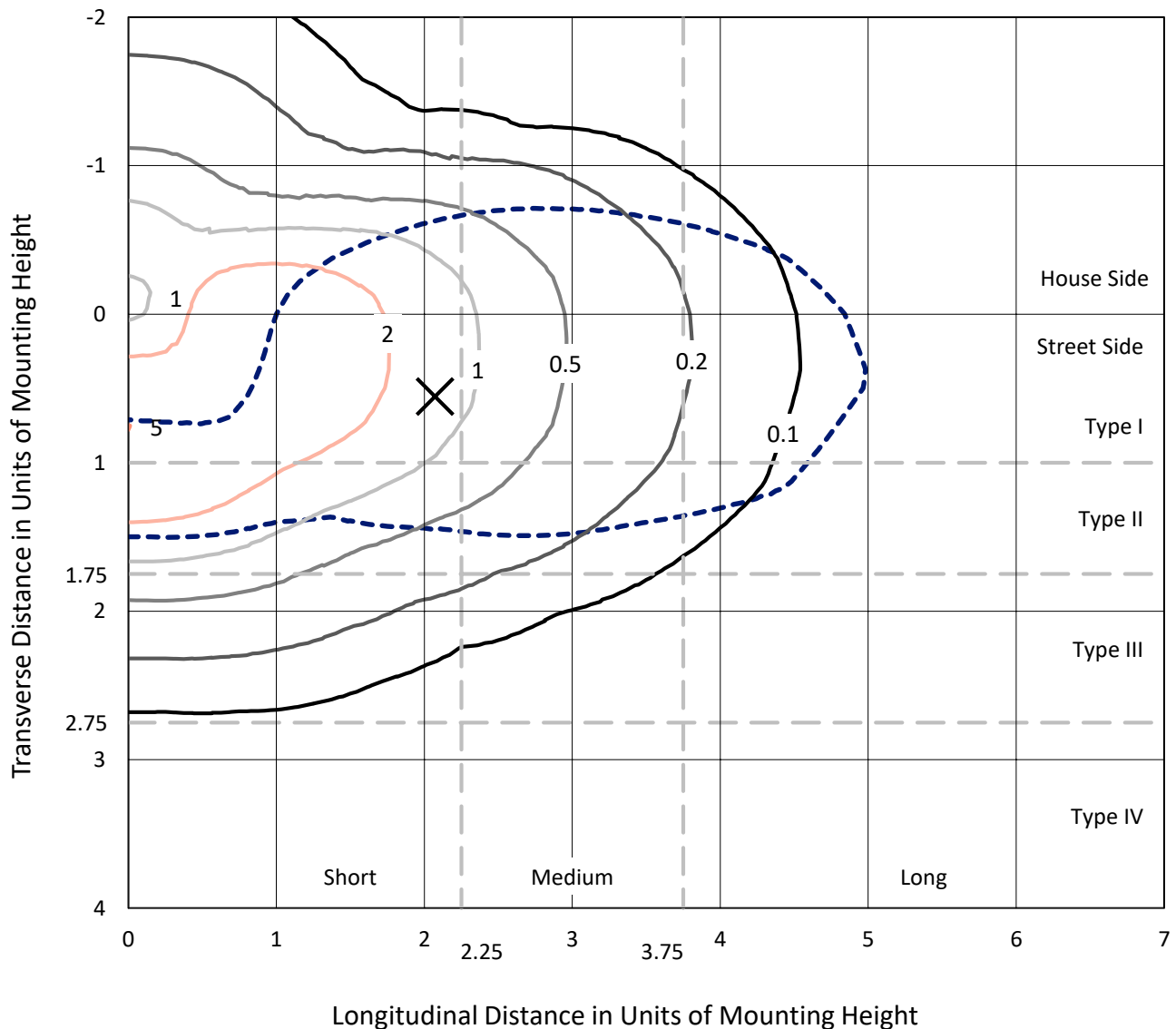


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

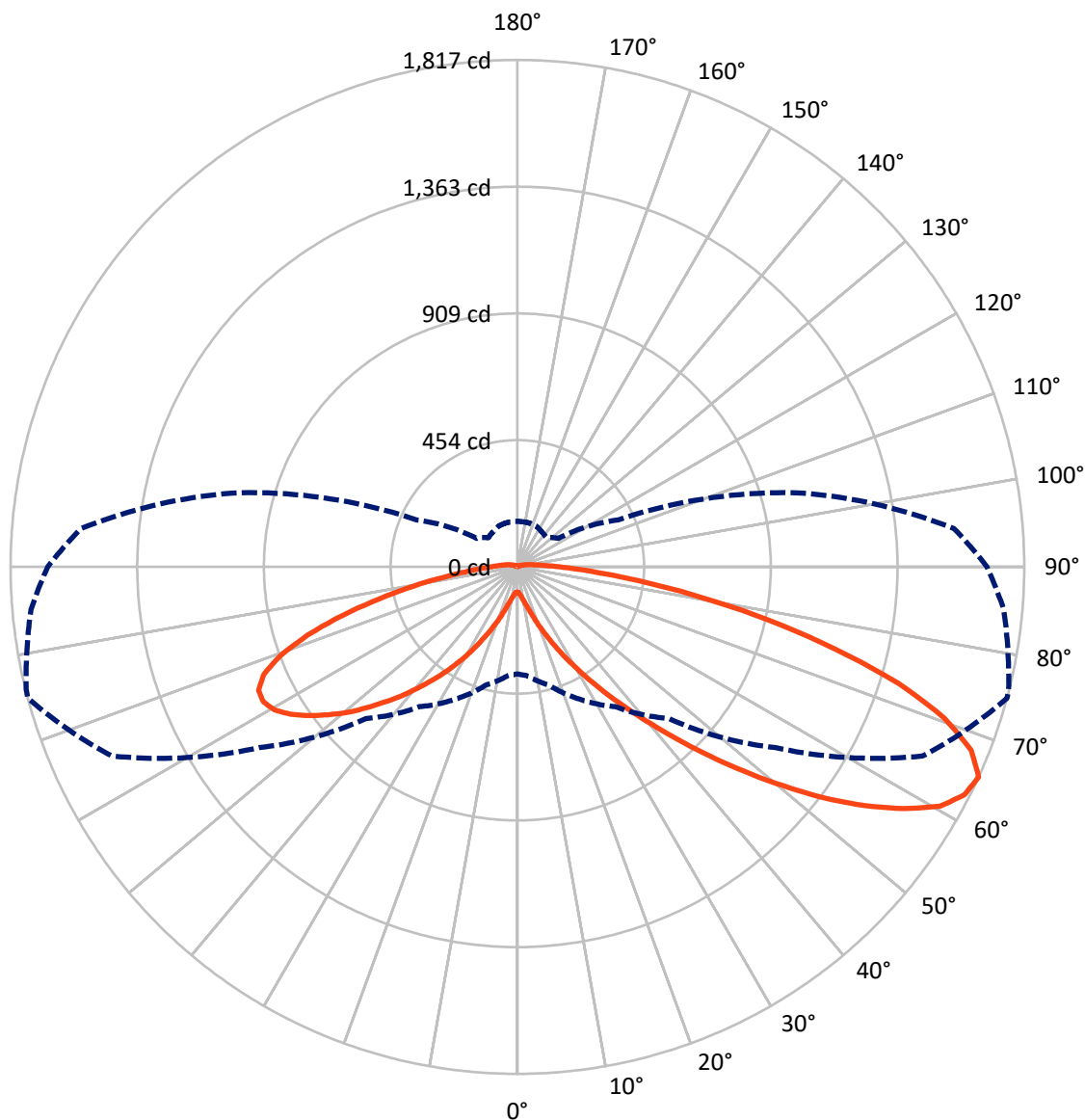


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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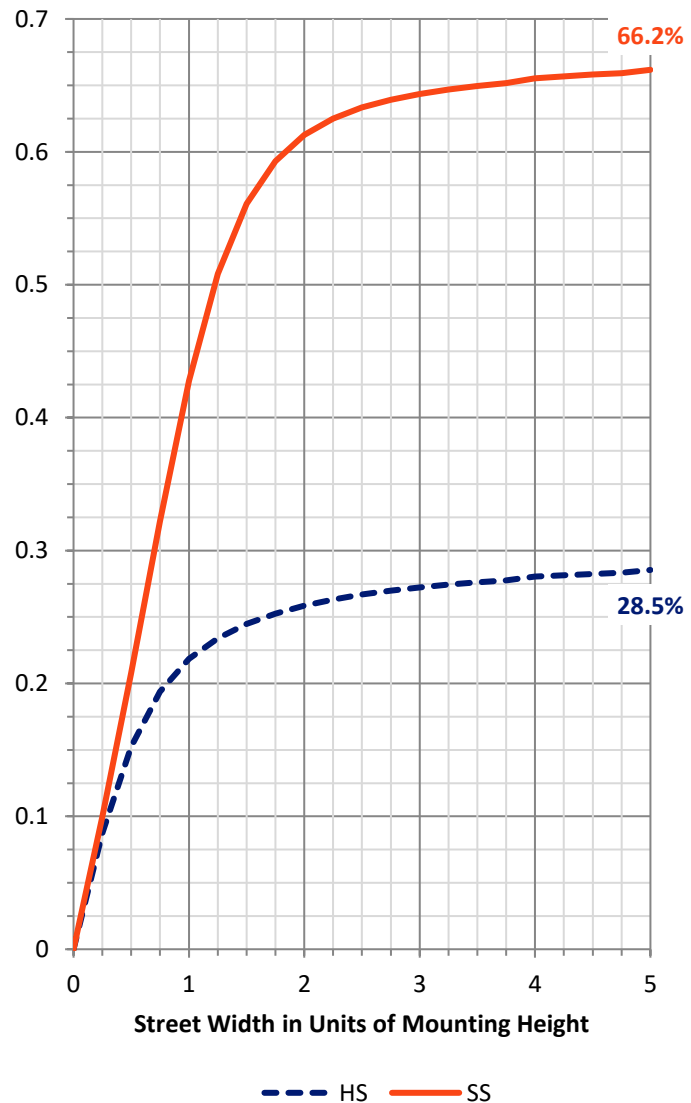
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.1	56.3	994.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	2132.3	50.6	2182.9
	% Fixture	67.1	1.6	68.7
Total	Lumens	3070.4	106.9	3177.3
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.3
10°-20°	46.0	1.4
20°-30°	134.0	4.2
30°-40°	300.5	9.5
40°-50°	534.8	16.8
50°-60°	726.8	22.9
60°-70°	705.8	22.2
70°-80°	444.9	14.0
80°-90°	167.8	5.3
90°-100°	57.1	1.8
100°-110°	25.8	0.8
110°-120°	12.4	0.4
120°-130°	6.5	0.2
130°-140°	3.4	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3070.4	96.6
0°-180°	3177.3	100.0

Coefficient of Utilization



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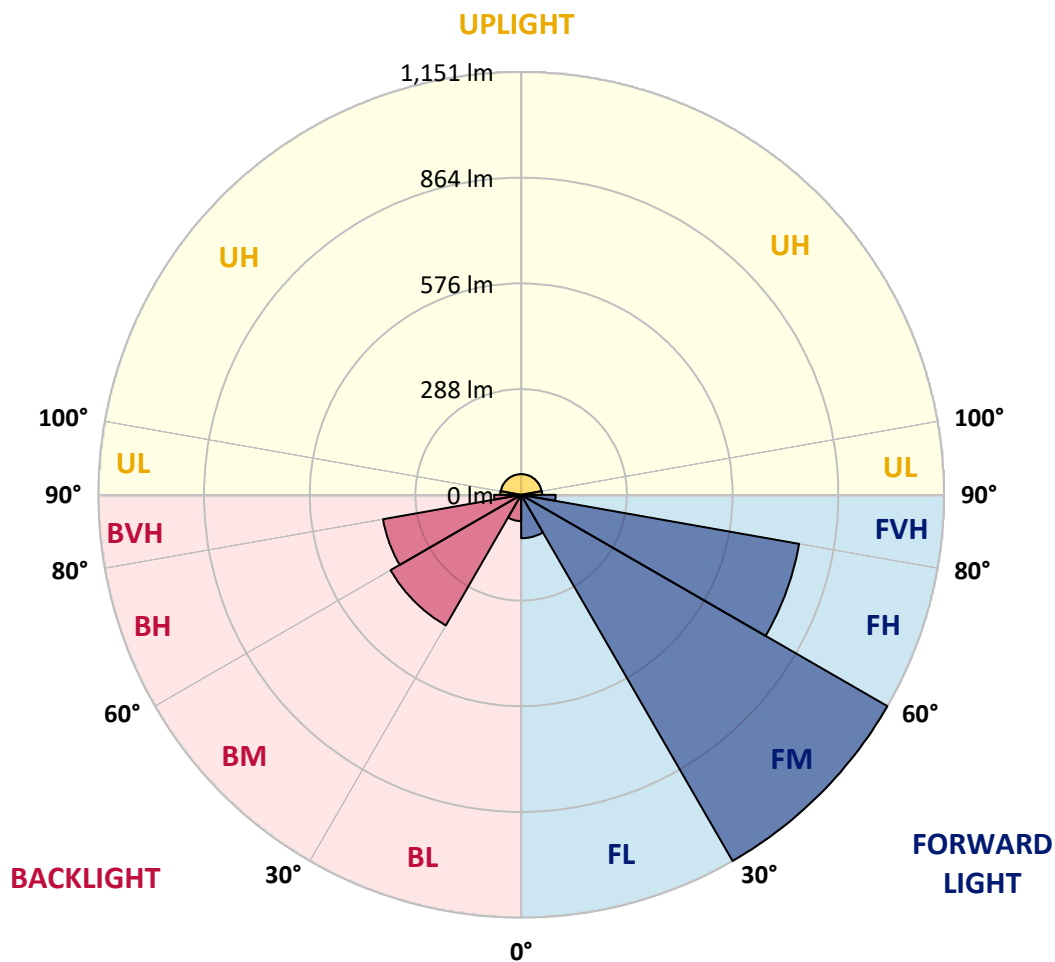
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.3	3.7			
FM	(30°-60°)	1151.5	36.2			
FH	(60°-80°)	768.6	24.2			G1/1800
FVH	(80°-90°)	93.9	3.0			G1/100
BL	(0°-30°)	71.6	2.3	B0/110		
BM	(30°-60°)	410.7	12.9	B1/1000		
BH	(60°-80°)	382.1	12.0	B1/500		G1/500
BVH	(80°-90°)	73.9	2.3			G1/100
UL	(90°-100°)	57.1	1.8		U3/500	
UH	(100°-180°)	56.3	1.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2.5°	98.3	97.9	97.9	97.9	97.1	96.3	95.1	94.3	93.1	92.7	92.3
5°	108.6	108.6	108.2	107.8	107.0	105.1	103.0	101.5	99.4	99.1	97.5
7.5°	124.9	124.6	124.2	122.1	121.0	118.2	115.0	112.6	109.0	109.0	106.7
10°	146.5	145.7	144.4	142.5	138.1	134.5	130.9	126.5	123.0	122.5	119.0
12.5°	171.9	171.9	170.3	166.3	160.8	155.6	149.7	144.8	140.0	139.6	136.5
15°	206.9	207.4	202.1	196.2	188.2	180.2	172.7	168.3	162.8	164.0	159.6
17.5°	250.3	249.5	245.1	233.2	220.0	209.7	200.9	196.2	191.8	192.2	189.0
20°	304.8	304.0	296.5	280.5	259.0	243.6	233.2	230.0	227.6	226.4	223.2
22.5°	372.0	368.1	352.9	332.3	306.4	284.1	273.0	268.2	267.4	267.8	264.6
25°	447.2	445.7	426.6	393.5	360.1	331.4	314.4	313.5	314.8	312.7	312.7
27.5°	538.8	534.4	512.1	466.4	418.6	384.4	364.5	362.5	368.1	366.5	364.1
30°	645.8	639.0	608.9	550.3	489.1	443.2	420.2	420.2	426.2	426.2	425.3
32.5°	757.6	756.5	709.5	641.1	568.7	508.1	488.3	485.1	491.0	494.2	490.2
35°	883.4	874.2	820.1	742.6	649.1	582.6	557.9	562.2	567.0	567.4	561.1
37.5°	1011.5	1002.4	940.3	844.3	735.4	663.7	638.2	641.5	649.1	649.1	640.7
40°	1121.4	1111.4	1050.5	950.6	830.8	754.0	727.0	736.1	741.3	743.3	729.8
42.5°	1208.1	1200.9	1146.4	1044.5	922.8	844.8	827.3	842.4	847.6	851.5	832.1
45°	1256.6	1250.7	1212.9	1120.9	999.9	935.5	938.7	957.0	967.0	962.6	941.5
47.5°	1264.2	1259.5	1238.4	1168.3	1070.8	1022.6	1052.9	1080.3	1095.5	1095.9	1060.1
50°	1217.2	1219.3	1219.7	1179.5	1110.6	1093.5	1159.5	1221.2	1232.8	1226.4	1184.2
52.5°	1126.2	1124.9	1148.0	1148.0	1117.8	1137.2	1249.1	1359.3	1375.3	1373.6	1315.1
55°	990.8	992.1	1035.0	1068.8	1079.9	1146.4	1322.3	1484.3	1510.5	1508.1	1443.7
57.5°	822.6	834.0	887.0	951.9	1002.4	1107.4	1356.1	1591.7	1634.7	1635.1	1557.0
60°	659.0	670.9	732.5	815.7	888.9	1032.3	1333.4	1647.4	1741.7	1737.4	1654.5
62.5°	503.4	515.7	575.0	669.7	754.8	912.1	1256.3	1658.9	1798.7	1795.8	1724.6
65°	383.2	391.2	438.9	522.1	611.6	768.3	1129.3	1604.0	1817.3	1815.3	1750.5
67.5°	286.5	290.1	335.4	402.7	480.3	621.5	953.8	1471.9	1755.3	1757.2	1721.0
70°	220.4	222.8	255.8	314.4	372.0	485.9	772.7	1281.3	1624.8	1629.9	1628.7
72.5°	175.1	178.7	204.9	247.6	289.3	368.1	597.7	1036.6	1431.3	1442.1	1474.3
75°	144.4	148.4	168.3	199.8	230.0	280.2	434.5	795.4	1176.7	1199.3	1270.9
77.5°	119.4	123.4	140.0	164.7	183.4	214.1	318.3	588.1	924.3	934.0	1028.7
80°	97.9	101.5	116.6	135.6	149.2	167.2	232.0	413.1	674.1	686.0	778.4
82.5°	77.9	81.2	95.1	110.6	121.7	134.1	171.9	282.9	469.5	478.3	539.2
85°	60.0	63.3	75.2	88.7	98.3	108.2	131.8	197.0	310.8	321.1	365.7
87.5°	45.0	47.8	57.7	69.3	79.2	87.6	101.5	136.1	207.4	216.0	237.1
90°	33.0	35.0	43.8	52.5	61.7	70.8	79.6	99.4	138.1	141.7	156.4
92.5°	24.7	25.9	33.0	40.6	49.3	57.3	62.9	73.2	97.1	97.5	107.8
95°	18.3	19.5	25.5	31.8	39.4	47.0	51.8	56.9	71.2	72.4	78.8
97.5°	14.7	15.1	20.3	25.9	32.2	38.6	42.6	45.3	54.5	55.8	60.0
100°	12.4	12.7	17.1	21.9	27.4	33.0	35.8	37.0	43.0	44.2	47.4
102.5°	10.7	10.7	14.7	19.1	23.8	27.8	29.9	30.7	34.6	34.6	37.0
105°	9.5	9.5	12.7	16.7	20.7	24.2	25.5	25.5	27.1	27.4	28.6
107.5°	8.8	8.8	11.6	15.1	18.3	21.1	21.9	21.1	21.5	21.5	22.3
110°	8.0	8.0	9.9	13.5	16.3	18.3	18.7	17.9	16.7	16.7	17.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	7.2	7.6	9.1	12.0	14.3	16.3	16.3	15.1	13.1	13.1	13.9
115°	6.8	6.8	8.4	10.7	12.7	14.3	14.3	12.7	10.7	10.3	11.2
117.5°	6.3	6.3	7.2	9.5	11.6	12.7	12.7	10.7	8.8	8.8	9.5
120°	5.9	5.9	6.8	8.8	10.3	11.6	11.2	9.5	7.6	7.6	8.4
122.5°	5.9	5.9	6.3	8.0	9.1	9.9	9.5	8.0	6.3	6.3	7.2
125°	5.5	5.5	5.9	7.2	8.4	9.1	8.4	6.8	5.9	5.9	6.3
127.5°	5.5	5.5	5.5	6.3	7.6	8.0	7.6	5.9	5.2	5.2	5.9
130°	5.2	5.2	5.5	5.9	6.8	7.2	6.3	5.2	4.8	4.8	5.5
132.5°	5.2	5.2	5.2	5.2	5.5	5.9	5.2	4.0	4.4	4.4	4.8
135°	4.8	4.8	4.8	4.8	5.2	5.2	4.4	3.6	4.0	4.0	4.4
137.5°	4.4	4.4	4.4	4.4	4.4	4.0	3.6	3.2	3.6	3.6	4.0
140°	4.0	4.0	4.0	3.6	3.2	3.2	2.8	2.4	2.8	2.8	3.2
142.5°	3.6	3.6	3.6	3.2	2.8	2.4	1.9	1.9	2.4	2.4	2.8
145°	3.2	3.2	2.8	2.4	1.9	1.6	1.2	1.6	1.9	1.9	2.4
147.5°	2.4	2.4	2.4	1.9	1.2	0.8	0.8	1.2	1.6	1.6	1.6
150°	1.9	1.9	1.9	1.6	0.8	0.4	0.4	0.8	0.8	0.8	1.2
152.5°	1.2	1.2	1.2	1.2	0.4	0.0	0.0	0.4	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4
160°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.0
162.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2.5°	92.0	91.6	90.7	89.9	89.1	88.4	87.6	87.2	86.3	86.3	86.3
5°	96.7	95.5	93.9	92.3	90.7	89.5	88.4	87.2	86.3	85.9	85.5
7.5°	105.5	103.8	101.1	98.7	95.9	93.5	91.6	89.9	89.1	88.7	88.7
10°	117.4	115.4	111.8	107.0	103.8	100.2	97.1	95.1	93.5	93.1	92.7
12.5°	133.3	131.3	125.3	120.2	114.2	108.6	105.1	102.7	101.5	101.1	101.1
15°	156.0	153.6	144.0	135.3	125.7	119.0	114.2	112.2	112.6	113.9	112.6
17.5°	184.2	180.7	169.5	155.2	140.9	130.5	126.1	126.5	128.2	129.3	128.9
20°	219.2	214.1	198.6	178.3	158.8	144.8	140.5	140.9	142.8	146.5	146.1
22.5°	260.2	252.3	232.4	204.9	177.5	161.5	153.6	154.8	159.2	162.8	162.8
25°	305.2	298.1	269.8	233.2	199.0	175.4	165.5	167.2	173.5	177.5	178.7
27.5°	358.5	347.4	312.4	264.6	219.2	187.8	175.4	176.3	184.2	189.5	190.2
30°	415.4	402.3	358.5	296.0	237.1	197.3	181.5	183.0	191.8	197.7	199.0
32.5°	479.5	464.0	406.7	329.1	253.9	203.0	184.6	186.2	195.4	202.1	203.0
35°	550.8	528.0	458.4	359.4	265.0	204.9	184.6	186.6	195.4	202.1	203.4
37.5°	623.2	597.7	508.9	388.4	271.8	203.4	181.9	184.2	192.2	198.6	199.8
40°	707.5	674.8	564.3	412.2	274.2	199.0	177.1	179.8	186.6	191.8	192.6
42.5°	803.8	757.6	622.4	432.5	270.6	193.4	172.3	175.4	181.1	184.6	185.1
45°	903.7	847.9	678.8	448.5	265.5	186.6	167.6	171.1	175.8	176.7	177.5
47.5°	1011.5	949.4	740.5	458.0	256.2	179.4	164.0	167.6	170.7	170.3	170.7
50°	1130.9	1054.5	803.4	462.0	245.9	173.5	161.1	165.1	167.6	165.5	165.5
52.5°	1247.5	1169.5	860.7	463.6	234.4	168.0	159.2	164.0	165.1	163.2	163.2
55°	1371.7	1275.7	918.0	459.2	222.8	163.6	158.4	163.6	164.4	161.5	161.5
57.5°	1486.2	1389.2	969.8	452.5	212.1	159.6	157.2	163.2	164.0	161.5	161.9
60°	1591.7	1485.4	1010.0	441.3	200.6	155.6	156.4	163.2	164.0	162.3	163.2
62.5°	1656.2	1549.2	1031.0	423.8	189.5	152.0	155.2	162.3	164.0	162.8	163.6
65°	1684.0	1571.8	1028.3	398.7	178.7	147.6	152.8	160.8	162.8	162.8	163.6
67.5°	1662.9	1551.1	987.7	366.5	168.7	143.2	149.7	157.5	160.4	161.1	162.3
70°	1584.6	1465.6	906.0	325.9	157.9	138.5	145.7	153.2	156.4	157.9	158.8
72.5°	1428.1	1321.9	790.2	285.3	146.8	132.5	139.6	146.8	150.4	152.4	152.4
75°	1229.6	1123.3	650.6	242.3	136.5	125.7	132.5	138.5	142.5	144.4	143.6
77.5°	989.2	890.2	505.3	198.6	125.3	117.7	124.2	129.3	132.5	134.1	132.1
80°	732.9	669.7	379.6	164.0	114.2	108.6	113.9	118.2	121.7	121.3	119.8
82.5°	519.7	460.0	265.8	136.1	103.0	98.7	102.7	105.5	107.8	107.0	104.2
85°	346.2	307.2	187.8	111.0	91.6	88.0	90.3	92.0	93.1	91.1	89.1
87.5°	225.3	200.6	135.3	91.6	79.2	76.8	77.9	78.4	78.8	76.8	74.4
90°	147.2	136.9	100.7	75.6	68.0	66.5	66.5	64.9	65.3	62.9	60.5
92.5°	103.8	97.5	78.4	62.1	58.1	56.9	56.5	54.5	54.1	51.8	50.1
95°	77.6	74.8	63.3	52.5	49.3	48.9	48.2	46.1	44.6	42.1	41.4
97.5°	60.5	59.3	52.2	45.0	42.6	41.7	41.4	39.0	37.8	35.4	34.6
100°	48.2	48.2	43.8	38.6	36.6	36.2	35.8	33.5	32.2	29.9	29.5
102.5°	38.6	39.0	36.6	33.5	31.8	31.0	30.3	28.6	26.7	25.1	25.1
105°	30.3	31.0	30.3	28.2	27.4	26.7	25.9	24.2	22.3	20.7	20.7
107.5°	23.8	24.7	24.7	24.2	23.1	22.7	22.3	20.3	18.7	17.1	17.1
110°	18.3	19.5	20.3	20.3	20.3	19.5	18.7	17.5	15.5	14.3	14.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.7	15.5	16.7	17.1	17.1	17.1	16.3	14.3	12.7	12.0	12.4
115°	12.0	12.7	13.9	14.7	14.7	14.7	13.5	12.4	10.7	10.3	10.3
117.5°	9.9	10.7	11.6	12.7	12.7	12.7	12.0	10.3	8.8	8.8	8.8
120°	8.8	9.1	10.3	10.7	11.2	11.2	10.3	8.8	7.6	7.6	8.0
122.5°	7.6	8.0	8.8	9.5	9.9	9.5	8.8	7.2	6.3	6.8	6.8
125°	6.8	7.2	7.6	8.4	8.8	8.4	7.6	5.9	5.5	5.9	5.9
127.5°	6.3	6.3	6.8	7.2	7.6	7.2	6.3	5.2	4.8	5.5	5.5
130°	5.5	5.9	5.9	6.3	6.3	6.3	5.5	4.4	4.4	4.8	4.8
132.5°	5.2	5.2	5.2	5.5	5.5	5.2	4.4	3.6	4.0	4.4	4.4
135°	4.4	4.8	4.8	4.8	4.8	4.4	3.6	3.2	3.6	4.0	4.0
137.5°	4.0	4.0	4.0	4.0	4.0	3.6	3.2	2.8	3.2	3.2	3.2
140°	3.2	3.6	3.6	3.2	3.2	2.8	2.4	1.9	2.4	2.8	2.8
142.5°	2.8	2.8	2.8	2.8	2.4	1.9	1.6	1.6	1.9	1.9	1.9
145°	2.4	2.4	2.4	1.9	1.6	1.6	1.2	1.2	1.6	1.6	1.9
147.5°	1.6	1.6	1.6	1.6	1.2	1.2	0.8	0.8	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.8	0.8	0.4	0.4	0.4	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)