

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: P266322

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266322
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-AF24-30-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2654.9 lumens
Efficiency: N/A
Efficacy: 85.6 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): 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

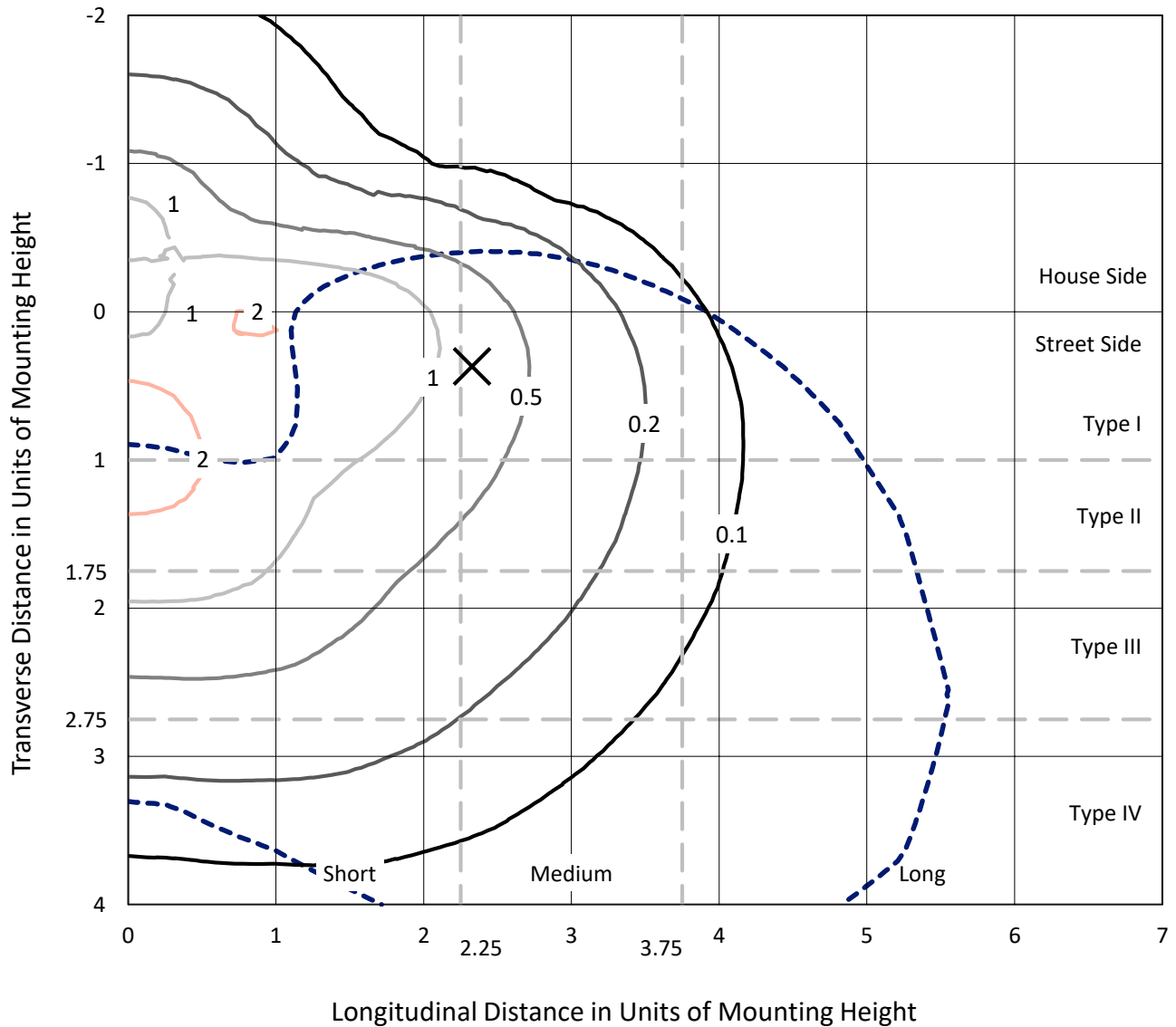


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

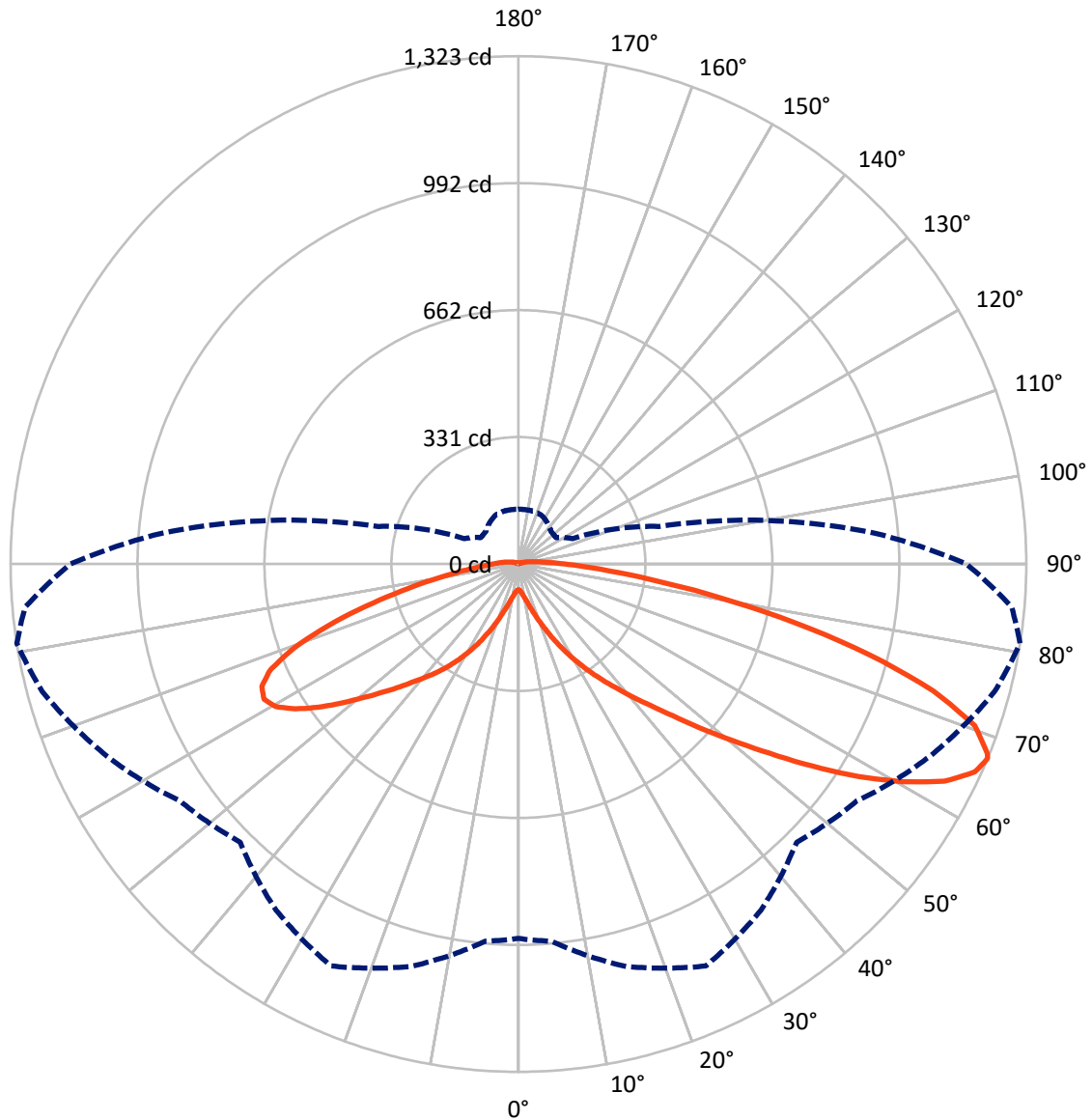


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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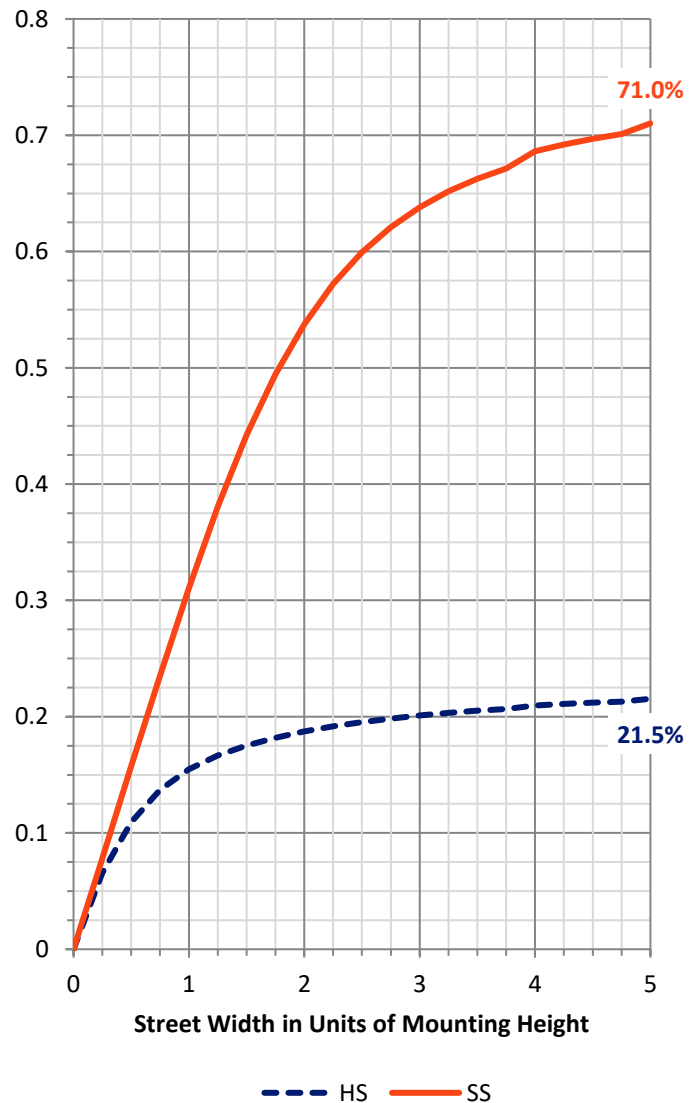
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.4	48.6	651.9
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	1947.5	55.5	2003.0
	% Fixture	73.4	2.1	75.4
Total	Lumens	2550.9	104.0	2654.9
	% Fixture	96.1	3.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.3
10°-20°	33.5	1.3
20°-30°	90.5	3.4
30°-40°	181.7	6.8
40°-50°	307.2	11.6
50°-60°	491.1	18.5
60°-70°	671.0	25.3
70°-80°	553.1	20.8
80°-90°	215.3	8.1
90°-100°	62.0	2.3
100°-110°	23.7	0.9
110°-120°	10.3	0.4
120°-130°	4.9	0.2
130°-140°	2.3	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2550.9	96.1
0°-180°	2654.9	100.0



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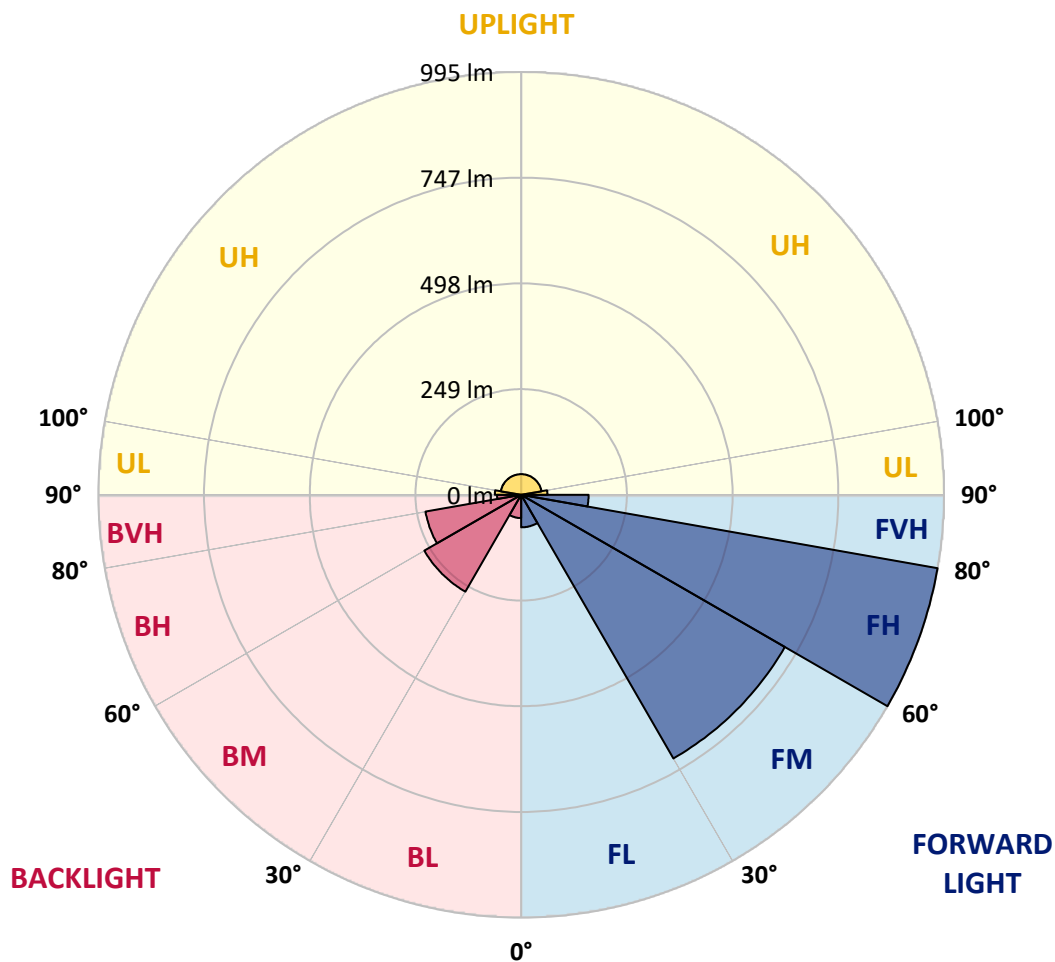
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.7	2.9			
FM	(30°-60°)	716.8	27.0			
FH	(60°-80°)	995.5	37.5			G1/1800
FVH	(80°-90°)	158.6	6.0			G2/225
BL	(0°-30°)	54.8	2.1	B0/110		
BM	(30°-60°)	263.2	9.9	B1/1000		
BH	(60°-80°)	228.7	8.6	B1/500		G1/500
BVH	(80°-90°)	56.7	2.1			G1/100
UL	(90°-100°)	62.0	2.3		U3/500	
UH	(100°-180°)	48.6	1.8		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	72.7	72.7	72.7	72.4	72.0	71.2	70.6	70.0	69.6	69.3	68.9
5°	80.0	80.4	80.0	79.7	78.7	77.8	76.4	75.4	74.0	73.3	73.0
7.5°	91.3	91.3	90.9	89.2	88.3	86.4	84.8	82.7	81.4	80.4	79.1
10°	105.5	104.7	104.1	102.3	100.0	97.3	95.3	93.0	90.5	89.9	88.6
12.5°	122.3	122.3	120.6	118.2	113.8	111.2	107.7	105.1	102.8	101.4	100.7
15°	144.9	144.0	140.9	137.3	131.8	126.4	122.7	120.6	118.2	118.2	115.9
17.5°	168.0	168.9	164.2	158.6	151.1	144.3	139.9	139.5	138.6	137.9	137.5
20°	197.9	197.0	191.2	181.5	170.7	162.6	159.4	159.8	162.6	162.2	160.8
22.5°	230.4	230.4	221.6	208.4	193.2	183.4	180.4	183.4	189.3	189.3	189.9
25°	269.0	267.6	256.5	236.6	218.3	205.4	204.1	208.9	218.9	220.7	219.9
27.5°	312.3	307.5	292.9	268.4	244.2	229.7	227.5	236.2	250.1	254.8	256.5
30°	358.2	358.6	336.2	304.0	271.6	252.5	251.3	265.5	282.2	290.2	292.3
32.5°	411.2	409.5	383.8	343.6	301.7	276.8	275.7	295.4	316.3	326.8	328.2
35°	477.1	469.4	440.6	387.9	332.8	304.4	303.7	325.0	352.4	365.6	368.9
37.5°	537.5	533.6	500.7	433.8	368.3	332.6	331.1	358.9	391.3	406.6	411.2
40°	608.2	603.5	564.9	488.6	410.5	364.9	364.3	395.7	433.3	452.4	456.5
42.5°	677.5	674.4	632.9	549.5	455.1	401.5	400.0	436.5	480.9	502.4	507.5
45°	751.8	744.1	703.8	611.6	504.8	443.7	444.3	483.8	538.7	564.0	569.0
47.5°	815.3	810.6	776.9	678.8	559.6	489.5	490.7	543.4	609.9	639.4	641.7
50°	884.7	881.9	848.4	750.2	625.4	546.7	548.4	607.9	688.3	722.1	733.9
52.5°	942.1	942.4	917.1	823.4	690.3	608.2	613.4	684.9	773.4	818.7	825.8
55°	998.1	996.5	981.6	903.9	767.3	677.1	682.9	770.0	875.2	929.8	939.4
57.5°	1038.7	1043.1	1044.8	980.9	842.0	746.4	765.4	858.6	986.0	1044.8	1053.3
60°	1066.7	1068.8	1092.3	1058.4	922.7	828.1	852.9	957.0	1090.1	1151.8	1157.2
62.5°	1064.0	1072.8	1118.7	1116.5	1001.3	905.9	937.3	1049.2	1180.6	1246.2	1247.1
65°	1027.9	1042.5	1119.5	1153.2	1066.1	979.5	1020.1	1132.4	1254.9	1306.9	1293.5
67°	975.5	986.7	1085.6	1155.6	1101.2	1025.1	1076.4	1183.6	1284.3	1323.3	1290.4
67.5°	953.6	973.5	1073.1	1153.2	1104.9	1034.9	1085.6	1197.3	1290.4	1318.2	1283.0
70°	847.8	863.4	975.2	1104.9	1106.3	1064.8	1123.5	1213.4	1267.5	1261.4	1197.8
72.5°	704.5	711.5	834.3	998.5	1055.6	1053.0	1112.3	1171.5	1170.9	1130.5	1053.5
75°	533.9	552.7	663.3	838.3	949.8	987.0	1041.0	1060.7	1014.0	946.5	853.2
77.5°	376.7	386.5	484.1	659.3	802.8	872.2	910.3	901.2	815.3	735.6	651.1
80°	244.0	253.4	320.6	472.4	629.5	703.6	738.2	711.3	624.9	531.2	460.2
82.5°	147.6	155.8	203.0	316.9	462.5	545.5	563.0	536.8	440.6	362.8	307.1
85°	86.4	93.0	126.0	204.5	315.2	393.6	400.0	370.3	296.0	242.6	204.8
87.5°	52.7	56.1	79.7	130.8	209.1	265.5	278.7	251.0	199.3	162.2	137.9
90°	34.1	36.6	51.1	85.8	137.3	175.3	183.4	167.7	135.1	110.5	95.0
92.5°	23.4	25.7	35.5	57.4	90.2	116.2	121.4	110.1	90.9	77.8	69.3
95°	17.8	19.0	26.9	40.6	61.5	77.8	82.5	75.0	63.5	57.1	52.0
97.5°	14.6	15.2	21.6	31.4	44.6	55.8	57.9	52.5	47.0	42.8	40.6
100°	12.4	12.8	18.2	25.7	34.9	42.2	43.3	39.2	35.5	33.4	31.4
102.5°	11.1	11.5	15.9	22.0	28.3	33.4	33.4	30.5	26.9	25.7	24.7
105°	9.8	10.2	14.3	19.0	24.3	27.4	27.4	24.0	20.9	19.7	19.3
107.5°	8.9	9.2	12.1	16.6	20.7	22.9	22.6	19.3	15.9	14.6	14.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	8.2	8.2	10.8	14.6	17.5	19.7	18.5	15.5	12.1	11.1	11.5
112.5°	7.5	7.5	9.4	12.4	15.5	16.9	15.5	12.8	9.4	8.9	9.2
115°	7.0	7.0	8.4	11.1	13.6	14.3	13.1	10.5	7.7	7.0	7.5
117.5°	6.4	6.4	7.7	9.8	11.5	12.1	11.1	8.4	6.4	6.1	6.4
120°	6.1	6.1	6.7	8.4	10.2	10.5	9.4	7.0	5.4	5.4	5.7
122.5°	5.7	5.7	6.4	7.5	8.9	9.2	8.2	5.7	4.8	4.8	5.1
125°	5.7	5.7	5.7	6.7	7.5	7.7	6.7	5.1	4.4	4.4	4.8
127.5°	5.4	5.4	5.4	5.7	6.4	6.4	5.7	4.0	3.8	4.0	4.0
130°	5.1	5.1	5.1	5.4	5.7	5.4	4.8	3.4	3.4	3.8	3.8
132.5°	4.8	4.8	4.8	4.8	4.8	4.4	3.8	3.1	3.1	3.4	3.4
135°	4.4	4.4	4.4	4.0	4.0	3.8	3.1	2.3	2.8	3.1	3.1
137.5°	4.0	4.0	4.0	3.8	3.4	2.8	2.1	2.1	2.3	2.8	2.8
140°	3.8	3.8	3.4	3.1	2.8	2.1	1.3	1.6	2.1	2.1	2.3
142.5°	3.1	3.1	3.1	2.3	1.6	1.3	1.0	1.0	1.6	1.6	1.6
145°	2.8	2.8	2.3	2.1	1.3	0.7	0.3	0.7	1.0	1.3	1.3
147.5°	2.1	2.1	2.1	1.3	0.7	0.3	0.3	0.3	0.7	1.0	1.0
150°	1.6	1.6	1.3	1.0	0.3	0.0	0.0	0.3	0.7	0.7	0.7
152.5°	1.0	1.0	1.0	0.7	0.0	0.0	0.0	0.3	0.3	0.3	0.3
155°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	68.6	68.2	67.9	67.3	67.0	66.3	65.5	65.1	64.9	64.9	64.9
5°	72.4	72.0	71.0	69.6	68.6	67.6	67.0	66.3	65.5	65.5	65.5
7.5°	78.4	77.8	75.6	74.3	72.7	71.2	70.2	69.3	68.9	68.9	68.6
10°	87.1	86.1	83.8	81.0	78.7	77.1	75.6	74.6	74.3	74.3	74.3
12.5°	98.6	97.3	93.7	90.2	86.4	84.1	82.5	82.1	82.5	82.5	82.1
15°	115.3	112.5	106.8	101.4	95.6	91.8	90.9	90.9	92.5	93.2	93.7
17.5°	135.1	131.8	124.0	115.3	106.4	101.4	100.7	102.8	106.4	108.2	107.7
20°	159.8	155.0	144.3	131.2	118.9	112.5	111.8	115.5	120.6	124.0	123.6
22.5°	187.6	183.2	166.9	147.6	130.8	123.3	122.3	128.4	135.9	139.5	140.9
25°	218.3	212.2	190.9	164.6	143.3	132.8	132.5	139.9	149.7	156.5	157.5
27.5°	251.7	244.7	216.6	181.5	154.1	140.6	140.2	150.3	163.9	172.4	172.7
30°	288.5	277.8	242.0	195.7	162.2	146.0	146.7	158.6	175.7	185.5	187.1
32.5°	325.0	312.9	264.9	209.5	167.7	148.7	149.7	164.6	183.4	196.0	197.4
35°	363.5	348.1	287.8	218.6	170.7	148.9	150.0	166.9	187.6	201.0	202.4
37.5°	402.4	383.8	307.1	225.4	170.7	147.1	148.3	166.2	187.1	201.0	202.1
40°	448.3	421.3	325.4	228.1	168.0	143.3	144.9	162.6	182.1	194.9	196.0
42.5°	496.0	463.5	342.7	227.5	163.2	138.6	140.2	156.5	173.7	184.2	185.2
45°	553.4	513.9	360.2	225.4	157.5	133.5	134.4	148.9	163.5	170.9	172.4
47.5°	624.1	568.0	378.0	221.6	151.1	128.7	129.4	142.2	152.7	157.5	158.6
50°	702.5	631.9	397.7	216.6	144.9	124.3	125.4	135.9	143.3	145.3	145.6
52.5°	795.4	704.2	415.9	210.6	139.5	120.9	122.3	131.8	136.8	137.3	137.5
55°	895.8	783.2	432.2	203.0	134.1	118.5	121.4	130.1	133.5	133.0	133.5
57.5°	1000.5	859.3	443.4	195.3	129.7	117.3	121.6	130.1	133.5	132.8	133.5
60°	1094.1	924.4	445.0	185.2	126.4	117.3	123.6	132.5	135.6	135.6	136.2
62.5°	1160.7	961.9	433.8	175.0	123.3	117.9	126.4	135.6	138.6	138.6	139.1
65°	1187.6	961.4	409.5	164.2	120.9	118.9	129.0	138.9	141.3	141.3	141.9
67°	1167.4	929.8	378.0	156.1	119.7	120.0	131.2	140.9	142.9	142.7	142.9
67.5°	1155.0	918.7	371.4	153.7	119.3	120.0	131.4	141.3	143.3	142.9	142.9
70°	1051.6	823.7	324.6	143.5	116.9	120.0	132.8	141.9	143.3	142.7	142.7
72.5°	891.7	689.3	272.4	133.5	114.3	118.9	132.1	140.9	141.6	140.6	140.6
75°	709.2	539.3	223.7	124.7	110.5	116.6	129.7	137.9	138.9	137.9	136.8
77.5°	525.1	399.3	180.7	115.3	106.1	112.8	125.8	133.5	134.4	133.5	132.5
80°	366.2	283.9	145.6	105.8	100.3	107.4	120.0	126.8	128.1	127.4	125.8
82.5°	245.0	194.9	116.6	95.3	93.0	100.3	112.2	118.2	119.3	118.5	116.6
85°	167.3	135.9	96.3	84.1	84.8	91.8	102.0	106.8	107.7	106.8	104.7
87.5°	112.5	97.3	78.7	73.3	75.4	82.1	90.2	92.5	94.6	93.0	91.5
90°	81.4	73.3	63.5	62.5	65.8	71.7	77.1	77.3	80.0	79.4	76.6
92.5°	61.2	57.4	52.7	52.7	56.5	61.2	64.6	63.9	65.5	65.5	63.5
95°	48.2	46.4	43.9	44.9	48.2	51.7	52.7	51.4	53.1	53.4	52.7
97.5°	38.8	38.2	37.5	38.2	41.2	43.9	43.6	41.2	42.6	43.3	42.6
100°	31.4	31.1	31.4	32.8	35.2	36.8	35.8	33.4	34.5	34.5	34.5
102.5°	25.3	25.3	26.4	27.7	29.5	30.7	29.5	27.4	27.7	27.4	27.4
105°	19.9	20.3	21.6	23.4	24.7	25.3	24.0	22.0	21.6	20.7	20.9
107.5°	15.5	16.2	17.5	19.3	20.7	20.9	19.9	17.8	16.6	15.9	15.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	12.1	12.8	14.6	15.9	16.9	17.2	16.2	14.3	12.4	12.1	12.1
112.5°	9.8	10.5	11.8	13.1	14.3	14.3	13.1	11.5	9.4	9.2	9.2
115°	8.2	8.4	9.8	10.8	11.8	11.8	10.8	9.2	7.5	7.0	7.5
117.5°	6.7	7.0	8.2	9.2	9.8	9.8	8.9	7.0	5.7	5.7	5.7
120°	6.1	6.4	7.0	7.7	8.2	8.2	7.5	5.7	4.8	4.8	4.8
122.5°	5.4	5.4	6.1	6.4	7.0	6.7	6.1	4.8	3.8	4.0	4.0
125°	4.8	5.1	5.1	5.7	5.7	5.7	4.8	3.8	3.4	3.4	3.4
127.5°	4.4	4.4	4.8	4.8	5.1	4.8	3.8	2.8	2.8	3.1	3.1
130°	4.0	4.0	4.0	4.0	4.0	3.8	3.1	2.3	2.3	2.8	2.8
132.5°	3.4	3.8	3.8	3.4	3.4	3.1	2.3	1.6	2.1	2.1	2.1
135°	3.1	3.4	3.1	3.1	2.8	2.3	1.6	1.3	1.6	1.6	1.6
137.5°	2.8	2.8	2.8	2.3	2.1	1.6	1.3	1.0	1.3	1.3	1.3
140°	2.3	2.3	2.3	2.1	1.6	1.3	0.7	0.7	1.0	1.0	1.0
142.5°	1.6	2.1	1.6	1.3	1.0	0.7	0.3	0.3	0.7	1.0	0.7
145°	1.3	1.3	1.3	1.0	0.7	0.3	0.0	0.0	0.3	0.3	0.3
147.5°	1.0	1.0	1.0	0.7	0.3	0.3	0.0	0.0	0.0	0.3	0.3
150°	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.3	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)