

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: P239985

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335 lumens
Efficiency: N/A
Efficacy: 83.4 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

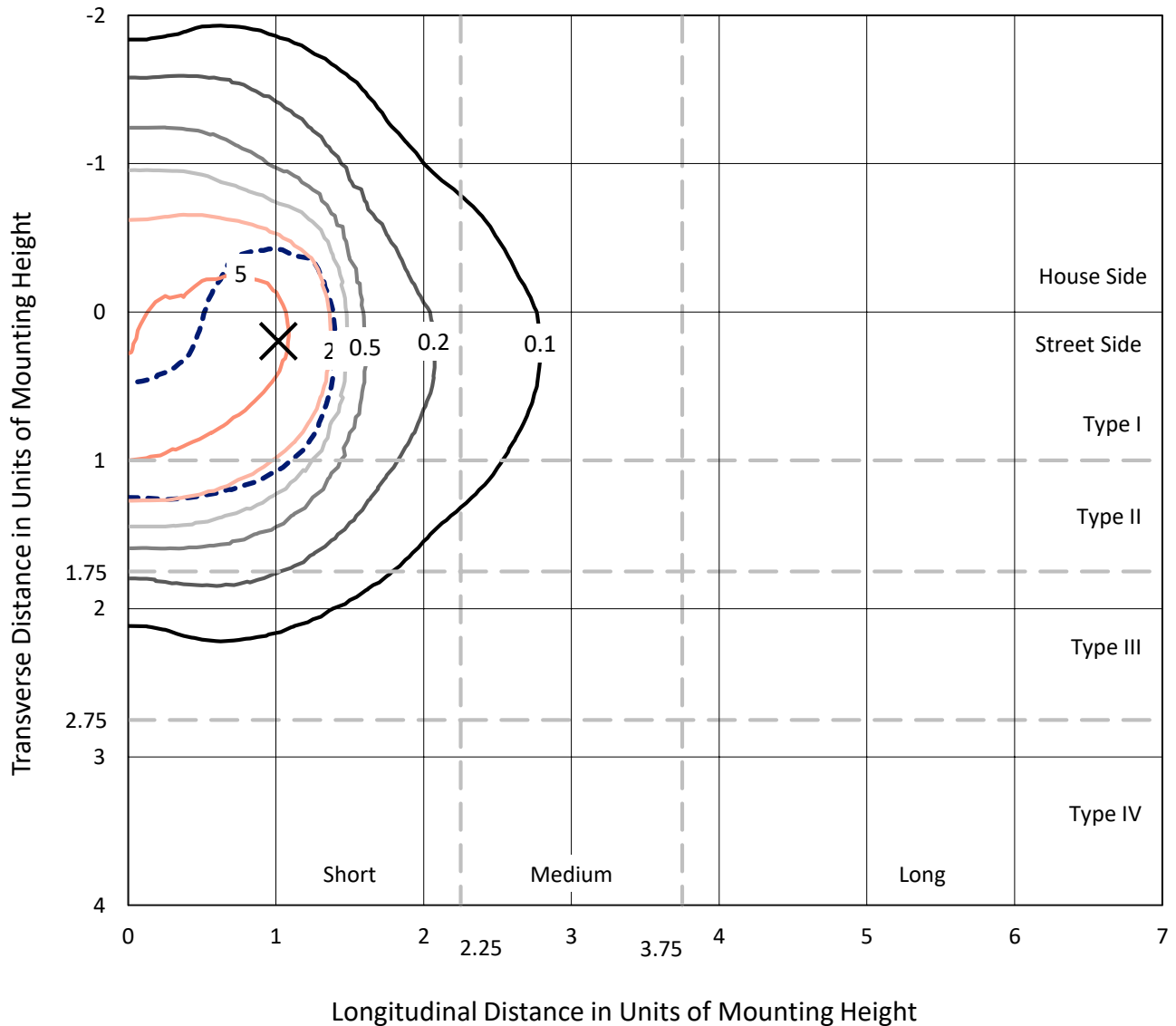
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

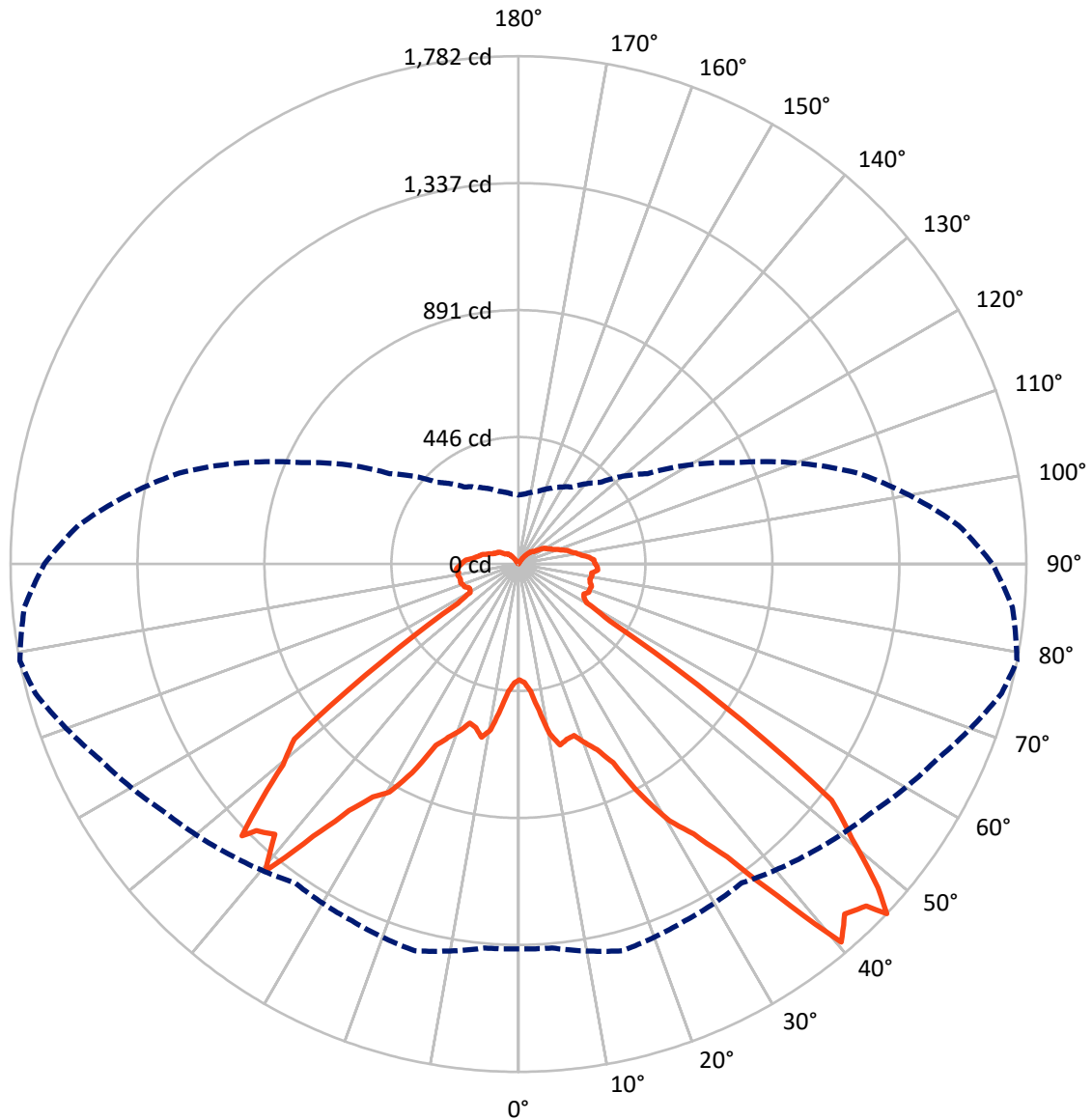
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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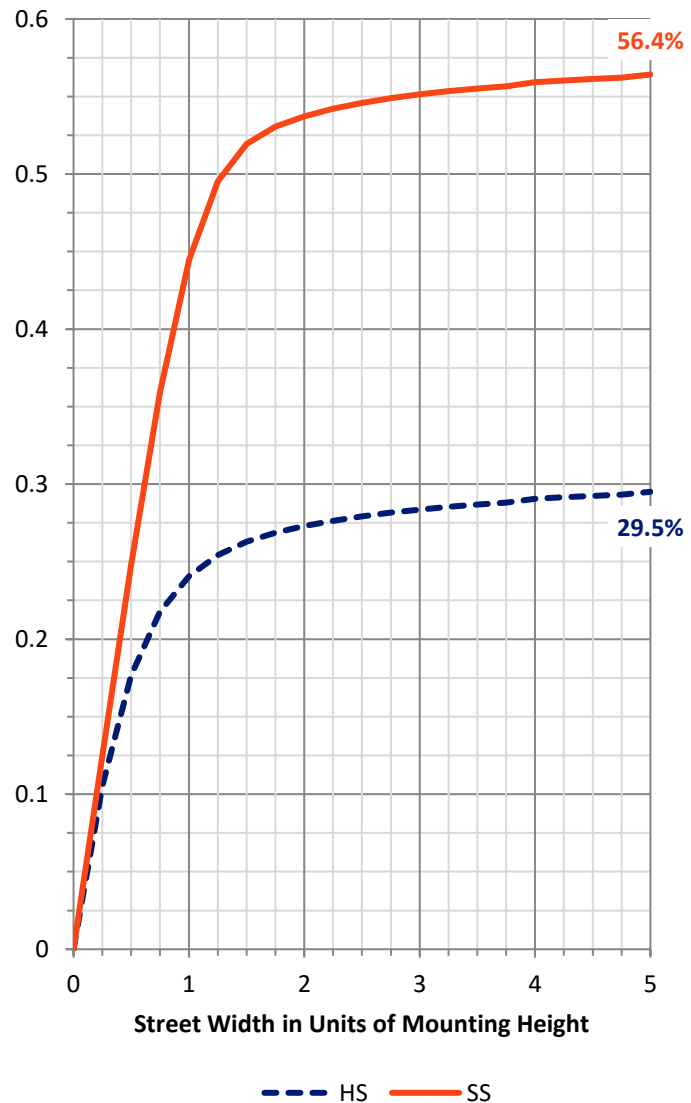
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.6	126.4	1143.0
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	1917.7	274.3	2192.0
	% Fixture	57.5	8.2	65.7
Total	Lumens	2934.3	400.7	3335.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.3
10°-20°	158.4	4.8
20°-30°	320.1	9.6
30°-40°	586.0	17.6
40°-50°	809.8	24.3
50°-60°	516.9	15.5
60°-70°	185.2	5.6
70°-80°	166.3	5.0
80°-90°	147.8	4.4
90°-100°	135.6	4.1
100°-110°	105.4	3.2
110°-120°	73.2	2.2
120°-130°	49.0	1.5
130°-140°	29.4	0.9
140°-150°	7.8	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2934.3	88.0
0°-180°	3335.0	100.0

Coefficient of Utilization



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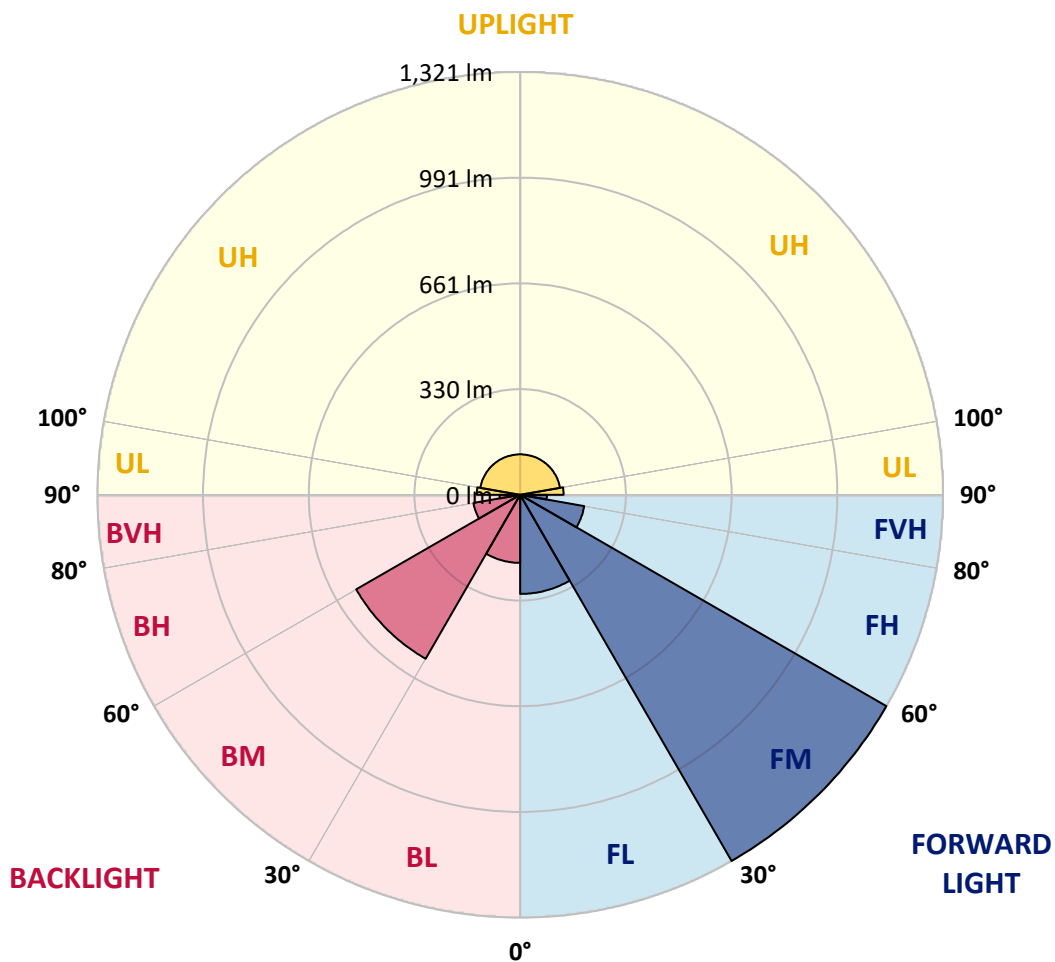
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.8	9.3			
FM	(30°-60°)	1321.2	39.6			
FH	(60°-80°)	203.2	6.1			G0/660
FVH	(80°-90°)	83.5	2.5			G1/100
BL	(0°-30°)	212.6	6.4	B1/500		
BM	(30°-60°)	591.4	17.7	B1/1000		
BH	(60°-80°)	148.2	4.4	B1/500		G1/500
BVH	(80°-90°)	64.3	1.9			G1/100
UL	(90°-100°)	135.6	4.1		U3/500	
UH	(100°-180°)	126.4	3.8		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°	79°	85°
0°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	413.2	414.5	414.1	413.2	415.0	415.9	415.9	415.4	415.9	416.8	418.6
5°	432.9	432.4	433.8	437.4	442.3	443.6	447.7	446.8	449.0	449.0	451.7
7.5°	467.3	467.8	472.3	475.9	481.2	492.9	504.1	518.8	518.4	517.5	521.1
10°	503.2	503.2	512.1	525.1	547.0	571.7	582.4	595.4	608.8	606.6	603.0
12.5°	514.4	516.1	531.8	564.0	611.5	653.6	675.1	672.4	658.9	651.3	639.2
15°	534.9	537.2	554.2	603.4	659.8	697.4	705.5	672.4	643.3	637.9	627.6
17.5°	612.4	612.4	629.8	675.1	717.6	709.1	677.3	661.6	642.8	632.5	617.8
20°	666.1	669.2	697.0	728.8	752.1	724.3	724.7	695.7	676.4	670.1	656.3
22.5°	718.0	722.5	730.6	780.3	787.0	792.3	776.2	749.8	717.6	707.3	693.0
25°	828.2	829.5	838.0	861.7	843.8	834.9	811.6	790.1	777.6	772.2	757.0
27.5°	958.9	954.8	958.4	960.2	932.9	908.3	874.3	897.1	915.0	919.9	906.5
30°	985.7	979.0	1006.3	1035.4	1022.0	992.4	990.2	1017.5	1051.1	1044.8	1026.0
32.5°	1094.1	1083.8	1096.3	1099.4	1097.2	1088.7	1085.1	1119.6	1143.8	1129.9	1102.6
35°	1181.4	1180.9	1136.6	1146.9	1153.2	1172.8	1192.5	1239.5	1261.0	1261.9	1239.1
37.5°	1368.0	1354.6	1338.0	1272.7	1238.2	1247.2	1315.2	1398.5	1446.8	1478.6	1442.3
40°	1432.0	1437.9	1424.0	1416.8	1366.7	1345.6	1424.0	1567.2	1698.4	1744.9	1740.5
42.5°	1326.8	1340.3	1332.2	1381.9	1421.7	1448.6	1543.1	1665.7	1690.8	1678.7	1614.7
45°	1414.6	1414.6	1393.1	1362.2	1376.1	1463.4	1538.1	1620.9	1699.3	1711.8	1676.5
46°	1351.0	1352.4	1405.2	1381.9	1366.2	1438.8	1516.6	1620.9	1754.8	1782.1	1740.5
47.5°	1233.7	1231.5	1328.6	1336.2	1347.0	1406.5	1492.0	1620.5	1696.2	1697.9	1646.0
50°	977.7	981.7	1115.1	1185.8	1256.6	1315.2	1430.7	1503.2	1520.2	1517.1	1460.7
52.5°	793.7	804.4	875.2	964.2	1049.7	1162.6	1296.8	1364.4	1401.6	1377.0	1325.1
55°	550.2	573.4	662.5	742.7	868.0	976.3	1092.3	1098.5	928.9	851.4	755.2
57.5°	340.2	344.7	423.5	536.7	630.7	715.8	717.1	557.3	433.8	376.9	313.4
60°	188.9	192.9	262.8	346.5	438.3	448.5	400.6	322.3	289.2	274.4	252.0
62.5°	140.6	143.7	189.4	240.8	277.5	292.3	269.0	263.7	264.1	257.4	242.6
65°	126.7	128.5	166.1	192.0	213.5	216.7	225.2	244.0	254.3	252.9	246.7
67.5°	115.0	117.3	151.3	170.1	183.1	198.3	205.5	234.6	262.3	266.8	261.0
70°	102.5	106.1	136.5	156.2	171.0	185.8	200.1	236.4	258.7	265.0	262.3
72.5°	88.6	93.1	118.6	139.2	155.8	171.9	196.5	227.4	257.8	269.0	270.8
75°	77.9	83.7	104.8	123.1	140.6	159.8	185.8	224.3	252.9	260.1	263.7
77.5°	70.3	76.5	92.7	109.7	126.2	147.3	177.3	223.4	248.0	256.1	262.3
80°	64.5	70.7	84.2	97.6	111.5	135.2	168.3	222.0	252.9	261.4	265.0
82.5°	60.0	65.8	77.4	89.5	100.7	122.2	162.1	219.8	251.6	258.7	260.5
85°	60.4	64.9	75.7	86.8	97.1	115.5	158.9	220.7	268.1	279.3	281.1
87.5°	63.6	66.7	77.9	90.9	102.5	121.3	164.7	218.9	266.4	276.6	281.1
90°	68.9	71.6	85.1	100.3	114.2	131.6	163.4	214.0	258.7	268.1	270.8
92.5°	85.5	87.7	102.5	119.1	131.2	137.0	158.0	221.6	260.1	265.5	265.5
95°	110.6	113.3	127.6	140.1	142.4	139.2	155.3	197.0	237.3	248.9	255.6
97.5°	138.3	139.2	147.3	149.5	142.8	135.6	151.8	184.0	215.3	223.4	225.2
100°	147.3	147.3	152.6	150.9	137.9	128.0	137.4	167.4	197.9	206.8	209.5
102.5°	149.1	150.0	155.3	149.5	132.1	115.9	122.2	150.9	179.1	188.9	194.3
105°	158.0	158.5	155.3	141.0	119.5	105.2	110.6	139.2	169.2	178.6	184.4
107.5°	147.7	146.4	137.9	124.4	110.1	99.8	106.1	127.1	150.0	157.6	161.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	122.2	121.3	118.2	113.3	104.3	96.7	100.7	120.0	141.9	147.7	151.3
112.5°	117.7	116.8	113.7	107.9	97.6	91.8	98.5	115.0	128.5	131.2	131.6
115°	113.3	112.4	105.2	98.5	90.4	87.7	92.2	107.4	120.0	123.1	125.8
117.5°	97.6	96.7	91.3	87.3	84.2	85.5	93.1	101.6	110.6	113.3	115.0
120°	86.8	86.4	83.7	81.0	79.2	80.1	88.2	97.6	106.5	109.2	110.6
122.5°	81.9	81.5	78.3	74.3	74.3	74.3	80.6	87.7	97.6	99.8	103.0
125°	72.1	72.1	68.9	65.8	70.3	72.1	73.4	73.9	81.5	85.1	86.4
127.5°	64.0	64.5	61.8	59.5	67.6	71.6	70.7	64.9	69.4	72.1	73.9
130°	63.1	63.1	60.0	57.3	61.3	69.4	66.7	60.9	66.3	68.0	68.9
132.5°	61.3	61.3	58.2	54.2	55.1	64.0	58.2	56.9	61.8	63.6	64.0
135°	56.4	56.4	54.2	48.8	45.2	54.2	47.0	49.7	54.6	56.0	56.4
137.5°	50.1	50.1	47.9	43.4	35.8	40.7	36.3	42.1	47.0	48.3	48.8
140°	41.2	40.7	39.4	34.0	26.0	22.8	24.6	33.6	38.5	39.4	40.7
142.5°	30.4	30.9	28.6	24.2	15.7	8.5	14.3	21.5	26.9	28.2	29.1
145°	22.4	21.9	19.7	15.7	8.5	1.3	6.7	13.4	17.0	18.4	19.2
147.5°	14.8	14.8	13.0	9.4	2.7	0.4	1.8	6.7	10.7	11.6	12.1
150°	9.8	9.8	7.2	2.7	0.4	0.4	0.4	1.3	4.5	5.4	6.3
152.5°	3.1	3.1	1.3	0.9	0.4	0.0	0.0	0.4	0.9	0.9	1.3
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	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°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.4	0.4	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°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	419.0	418.6	417.2	415.9	412.3	407.8	403.3	400.2	398.4	397.1	396.6
5°	450.8	451.7	445.4	435.1	425.3	416.3	407.8	399.8	395.3	391.7	390.4
7.5°	518.4	519.7	507.2	491.1	466.0	435.6	409.6	392.1	379.6	372.0	370.7
10°	602.1	598.5	583.7	549.3	503.6	456.6	407.8	370.2	350.1	340.7	340.2
12.5°	636.1	631.2	614.6	586.0	538.1	476.7	416.3	366.6	336.6	324.5	324.1
15°	620.4	611.9	581.5	555.1	536.3	502.3	448.1	391.2	350.1	334.8	330.8
17.5°	607.0	598.5	573.0	534.9	499.6	484.8	458.4	411.4	368.4	346.9	342.5
20°	646.4	641.0	609.3	558.7	519.7	460.6	439.1	406.9	374.7	361.3	357.7
22.5°	682.7	680.0	640.1	587.3	534.9	493.8	450.8	427.1	395.7	386.3	382.3
25°	750.3	737.7	672.4	601.2	556.0	515.7	460.6	423.5	385.4	373.3	371.1
27.5°	909.2	880.1	784.7	677.7	586.9	522.9	459.7	405.1	363.5	348.3	347.4
30°	1010.4	983.9	876.5	758.8	635.2	539.9	453.9	388.1	356.8	342.0	342.5
32.5°	1071.7	1036.3	915.4	766.4	646.4	548.4	457.5	382.3	340.2	321.4	321.0
35°	1204.6	1155.4	979.9	827.7	668.3	535.8	442.3	370.2	331.3	317.4	315.6
37.5°	1394.0	1338.5	1100.8	877.4	677.3	519.3	422.6	356.3	309.8	290.5	289.2
40°	1667.5	1586.0	1268.2	937.4	670.1	506.7	401.1	335.3	296.8	284.3	280.2
42.5°	1531.9	1439.6	1168.4	925.7	652.2	472.3	380.5	325.0	289.2	279.3	274.0
45°	1616.5	1509.0	1180.5	860.8	583.7	421.2	345.6	304.4	268.6	254.7	253.4
46°	1663.5	1551.1	1232.8	841.1	552.4	405.1	329.9	295.0	264.1	246.2	242.2
47.5°	1561.4	1436.5	1133.5	802.6	527.3	368.9	309.3	280.2	259.2	242.6	239.9
50°	1369.4	1247.2	980.4	684.5	453.9	325.4	275.8	258.3	237.3	219.3	216.2
52.5°	1249.8	1147.3	897.5	620.9	385.4	274.4	246.2	231.0	209.5	188.5	185.8
55°	687.1	616.4	554.6	466.5	319.6	231.9	214.4	205.5	183.5	162.9	161.6
57.5°	282.9	254.3	252.0	237.7	219.8	195.2	185.3	180.0	158.0	133.0	132.1
60°	238.2	212.2	187.1	164.7	163.4	162.9	159.8	150.4	126.2	100.3	99.4
62.5°	231.9	206.4	181.7	154.4	142.8	146.4	140.6	128.9	110.6	85.5	84.6
65°	236.4	209.9	180.9	150.0	137.4	138.8	132.5	123.6	111.0	93.1	92.2
67.5°	251.6	224.3	191.6	148.2	133.0	135.6	131.2	124.4	117.3	106.1	103.9
70°	253.8	229.6	192.0	149.1	128.0	131.2	129.8	124.0	119.1	109.2	107.9
72.5°	260.5	238.6	196.1	145.9	122.7	124.0	125.8	124.0	120.9	115.0	112.8
75°	254.3	235.0	194.3	143.2	117.3	116.4	120.9	123.1	124.0	121.8	119.1
77.5°	252.9	236.8	194.7	141.5	112.4	108.8	112.4	115.9	117.7	115.5	113.3
80°	254.7	240.8	200.5	141.9	107.0	98.0	99.8	103.9	104.3	100.3	97.1
82.5°	250.7	237.3	194.3	137.0	98.5	87.3	87.7	91.8	92.2	87.3	83.7
85°	268.6	252.5	198.8	130.7	89.5	79.7	80.1	81.9	79.2	73.9	70.3
87.5°	268.1	248.9	189.8	120.9	83.7	75.2	74.8	74.3	69.8	63.6	60.4
90°	258.7	238.6	177.7	106.5	73.9	68.9	67.6	64.9	58.6	51.5	49.2
92.5°	252.5	231.0	169.7	100.7	64.9	60.4	59.5	56.9	50.6	43.0	41.6
95°	245.8	224.7	156.2	88.2	57.3	52.8	51.5	48.8	43.9	37.6	36.7
97.5°	216.7	196.1	137.9	80.1	51.0	46.1	45.2	43.0	38.9	34.5	34.0
100°	200.1	181.7	128.0	73.4	45.7	40.3	39.8	38.5	35.8	32.7	32.2
102.5°	187.1	169.2	118.6	68.0	40.7	35.8	35.4	34.9	33.6	31.3	31.3
105°	177.3	160.3	113.7	63.6	36.7	32.7	32.2	32.2	30.9	29.5	29.5
107.5°	154.4	140.1	98.9	56.4	33.6	30.0	30.0	30.0	29.1	28.2	28.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	145.5	132.1	94.0	52.8	32.2	27.8	27.3	27.3	26.9	27.3	27.3
112.5°	125.3	113.7	82.8	50.6	31.3	26.4	25.1	24.2	23.3	24.2	24.6
115°	120.4	109.7	80.1	48.8	30.4	25.5	23.7	22.4	20.6	21.9	21.9
117.5°	110.6	100.7	74.3	47.5	30.4	24.2	22.4	21.0	19.2	20.1	20.1
120°	106.1	97.6	74.8	48.8	30.9	22.8	21.0	18.8	17.5	18.8	18.8
122.5°	99.8	92.2	70.3	46.1	29.5	22.4	20.6	16.1	15.2	16.6	16.6
125°	83.7	77.4	60.4	40.7	28.2	22.4	20.1	14.3	14.3	15.2	15.7
127.5°	71.2	66.3	52.4	38.1	28.6	23.7	19.2	12.5	13.4	14.8	14.8
130°	67.1	63.1	51.9	38.9	30.0	25.1	15.7	11.6	12.5	13.9	13.9
132.5°	62.7	59.1	50.1	39.8	30.4	23.7	13.0	10.7	11.6	12.5	12.5
135°	55.1	52.4	45.2	36.3	27.3	18.8	10.3	9.4	10.7	11.6	12.1
137.5°	48.3	46.1	39.8	32.7	24.6	16.1	7.2	8.5	9.4	9.8	10.3
140°	39.8	38.5	33.6	26.9	18.4	9.0	5.4	6.7	7.6	8.5	8.5
142.5°	29.1	28.2	23.7	17.5	11.2	3.6	3.6	4.9	5.8	6.7	6.7
145°	19.2	18.4	15.2	11.2	4.9	0.9	2.2	3.6	4.9	5.4	5.4
147.5°	12.1	11.6	9.4	5.8	1.8	0.9	0.9	2.7	3.6	4.0	4.0
150°	6.3	5.8	4.0	1.8	0.9	0.4	0.4	0.9	2.2	2.7	2.7
152.5°	1.3	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	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)