

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: P266304

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2517.5 lumens
Efficiency: N/A
Efficacy: 81.2 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 - 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



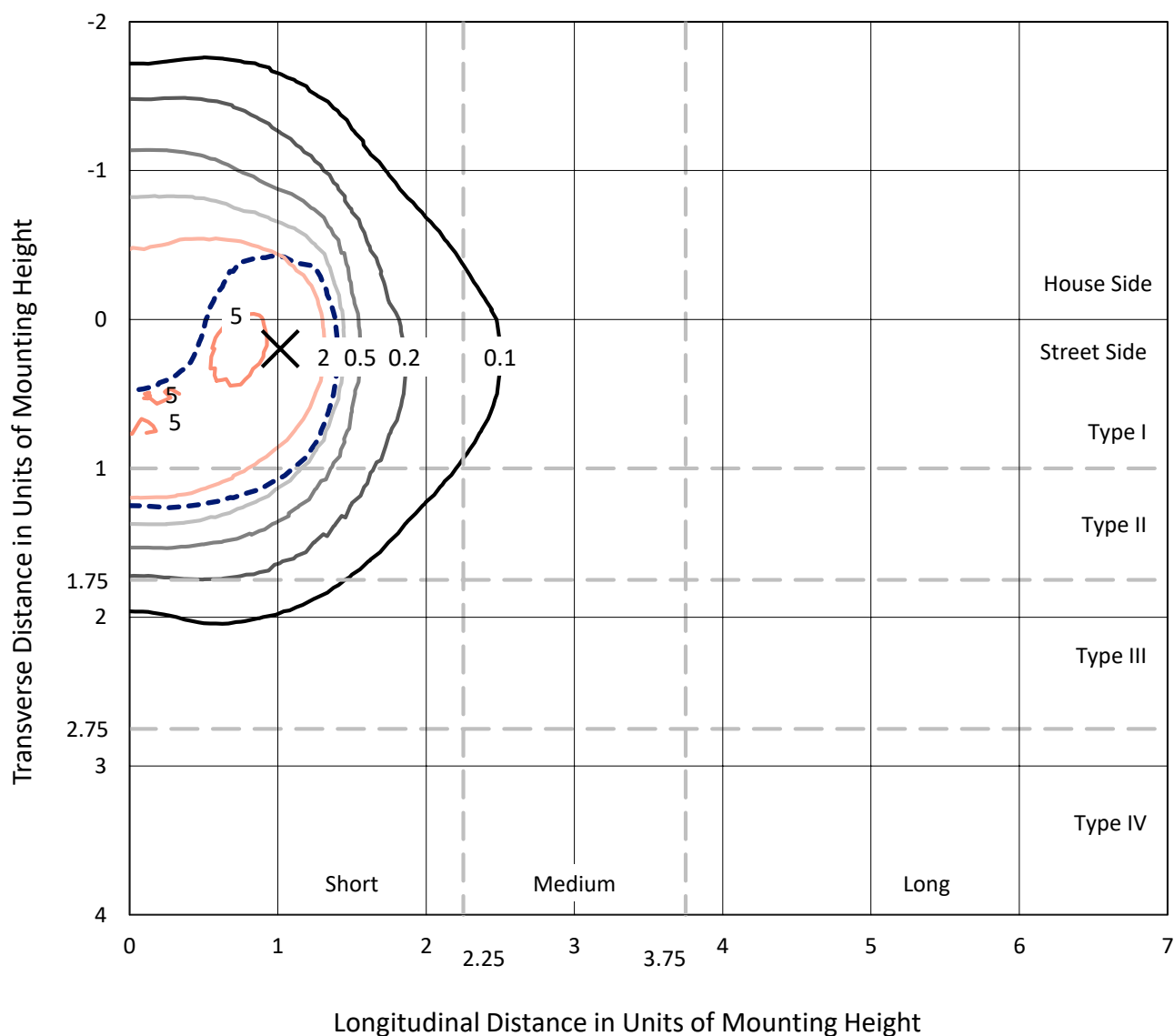
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

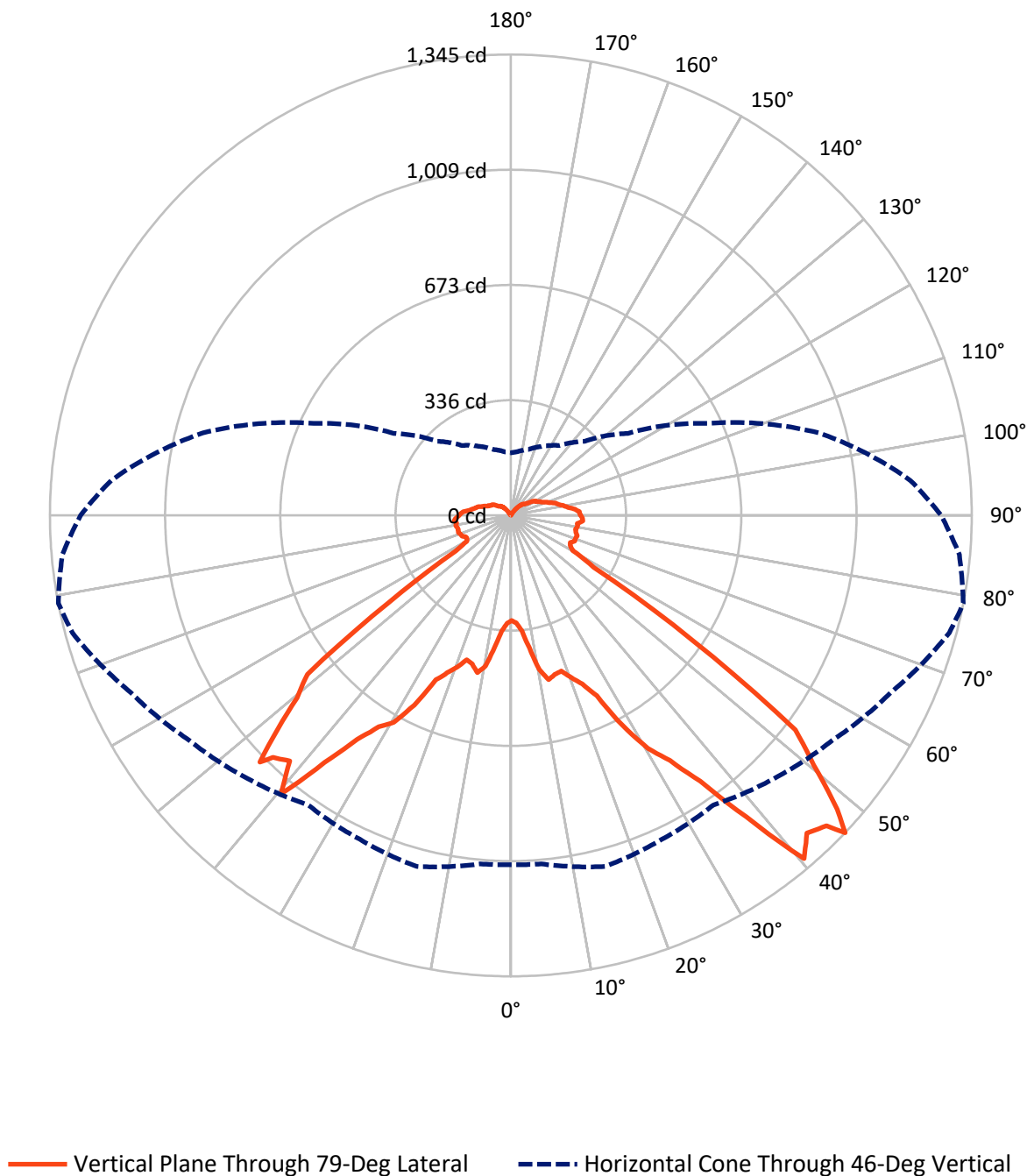


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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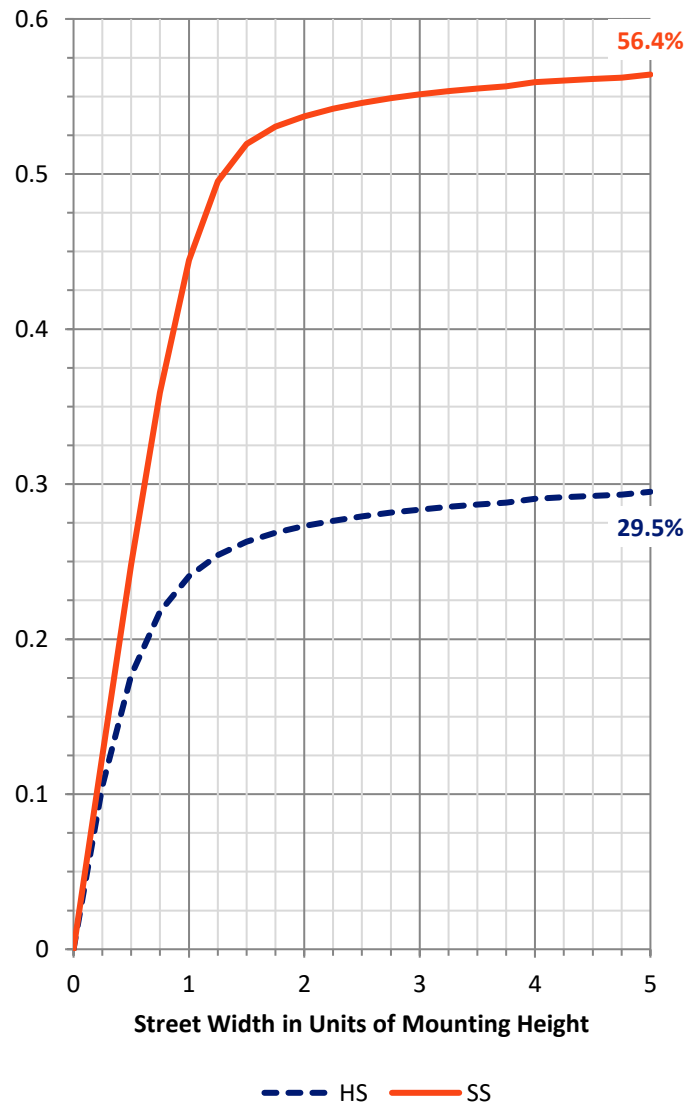
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.4	95.4	862.8
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	1447.6	207.1	1654.6
	% Fixture	57.5	8.2	65.7
Total	Lumens	2215.0	302.5	2517.5
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	1.3
10°-20°	119.6	4.8
20°-30°	241.6	9.6
30°-40°	442.4	17.6
40°-50°	611.3	24.3
50°-60°	390.2	15.5
60°-70°	139.8	5.6
70°-80°	125.5	5.0
80°-90°	111.6	4.4
90°-100°	102.4	4.1
100°-110°	79.6	3.2
110°-120°	55.2	2.2
120°-130°	37.0	1.5
130°-140°	22.2	0.9
140°-150°	5.9	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2215.0	88.0
0°-180°	2517.5	100.0

Coefficient of Utilization



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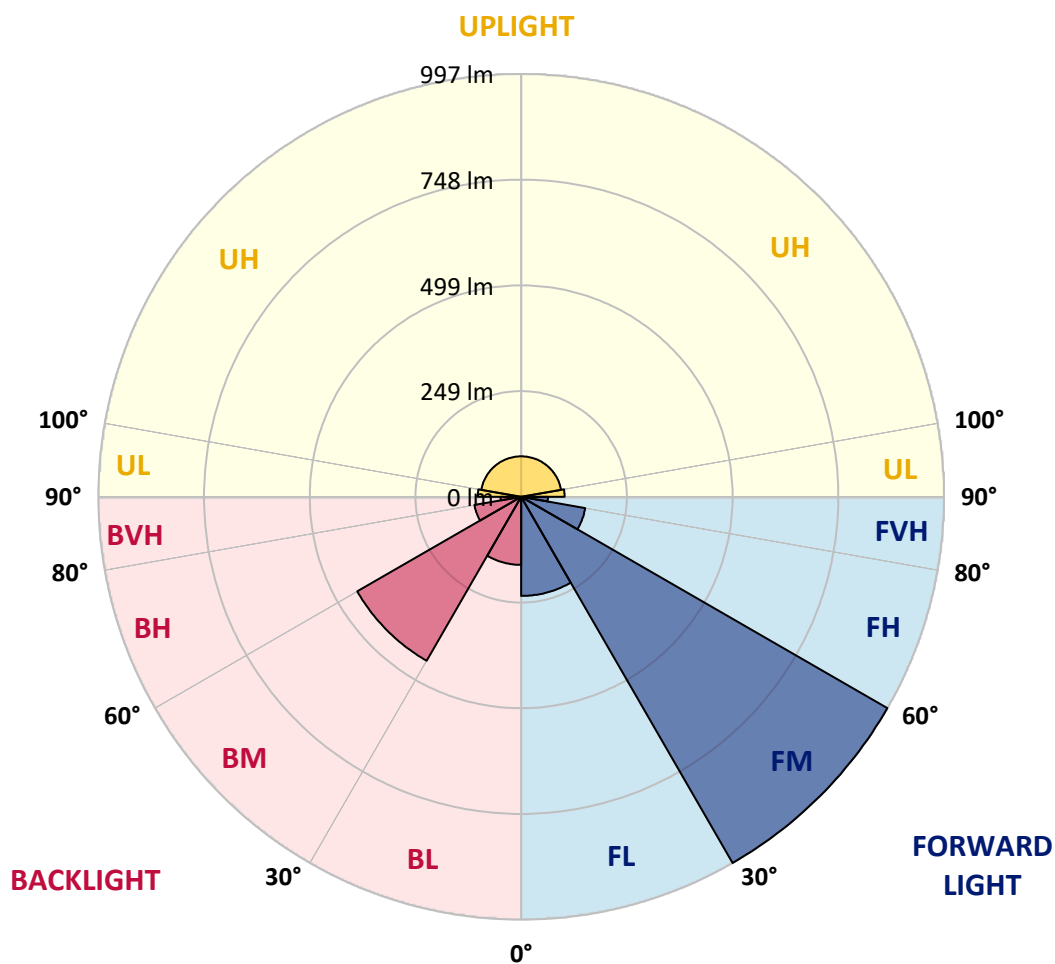
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.8	9.3			
FM	(30°-60°)	997.3	39.6			
FH	(60°-80°)	153.4	6.1			G0/660
FVH	(80°-90°)	63.0	2.5			G1/100
BL	(0°-30°)	160.5	6.4	B1/500		
BM	(30°-60°)	446.5	17.7	B1/1000		
BH	(60°-80°)	111.9	4.4	B1/500		G1/500
BVH	(80°-90°)	48.6	1.9			G1/100
UL	(90°-100°)	102.4	4.1		U3/500	
UH	(100°-180°)	95.4	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°	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9
2.5°	311.9	312.9	312.6	311.9	313.2	314.0	314.0	313.6	314.0	314.5	315.9
5°	326.8	326.4	327.4	330.1	333.9	334.9	337.9	337.3	338.9	338.9	340.9
7.5°	352.8	353.2	356.4	359.2	363.3	372.1	380.5	391.7	391.3	390.7	393.4
10°	379.9	379.9	386.6	396.4	413.0	431.5	439.6	449.4	459.6	457.9	455.3
12.5°	388.2	389.7	401.5	425.7	461.5	493.3	509.6	507.5	497.4	491.7	482.6
15°	403.8	405.6	418.3	455.5	498.1	526.4	532.5	507.5	485.7	481.5	473.8
17.5°	462.3	462.3	475.5	509.6	541.7	535.3	511.2	499.5	485.3	477.4	466.3
20°	502.8	505.1	526.1	550.1	567.6	546.8	547.1	525.1	510.5	505.8	495.3
22.5°	542.0	545.5	551.5	589.0	594.0	598.1	586.0	566.0	541.7	534.0	523.2
25°	625.1	626.2	632.5	650.6	637.0	630.3	612.6	596.5	587.0	582.9	571.4
27.5°	723.9	720.8	723.5	724.8	704.2	685.6	660.0	677.2	690.6	694.4	684.2
30°	744.1	739.0	759.6	781.6	771.5	749.1	747.5	768.1	793.5	788.7	774.5
32.5°	825.9	818.0	827.6	829.9	828.2	821.8	819.2	845.1	863.5	852.9	832.3
35°	891.7	891.5	858.1	865.7	870.5	885.4	900.2	935.8	951.9	952.7	935.3
37.5°	1032.7	1022.5	1010.1	960.6	934.6	941.5	992.7	1055.7	1092.2	1116.1	1088.7
40°	1081.0	1085.4	1074.9	1069.5	1031.7	1015.9	1074.9	1183.1	1282.2	1317.3	1313.9
42.5°	1001.6	1011.8	1005.7	1043.1	1073.3	1093.4	1164.8	1257.4	1276.3	1267.1	1218.9
45°	1067.8	1067.8	1051.6	1028.3	1038.8	1104.6	1161.1	1223.6	1282.7	1292.2	1265.5
46°	1019.8	1020.8	1060.7	1043.1	1031.3	1086.1	1144.9	1223.6	1324.6	1345.2	1313.9
47.5°	931.4	929.7	1003.0	1008.6	1016.8	1061.7	1126.3	1223.3	1280.4	1281.7	1242.5
50°	738.0	741.0	841.7	895.2	948.5	992.7	1080.0	1134.6	1147.6	1145.2	1102.6
52.5°	599.1	607.3	660.7	727.8	792.5	877.6	979.0	1029.9	1058.1	1039.5	1000.3
55°	415.2	432.9	500.1	560.6	655.3	737.0	824.6	829.2	701.1	642.7	570.1
57.5°	256.8	260.1	319.6	405.1	476.1	540.3	541.4	420.6	327.4	284.6	236.6
60°	142.7	145.6	198.3	261.5	330.8	338.7	302.4	243.4	218.3	207.1	190.3
62.5°	106.1	108.4	142.9	181.7	209.6	220.7	203.0	199.1	199.3	194.4	183.2
65°	95.6	96.9	125.4	144.9	161.2	163.5	170.0	184.2	192.0	190.9	186.2
67.5°	86.9	88.6	114.3	128.4	138.2	149.7	155.0	177.1	198.0	201.4	197.0
70°	77.3	80.0	103.0	117.9	129.0	140.2	151.1	178.5	195.3	200.1	198.0
72.5°	67.0	70.2	89.6	105.1	117.6	129.7	148.3	171.7	194.7	203.0	204.5
75°	58.7	63.2	79.1	93.0	106.1	120.6	140.2	169.3	190.9	196.3	199.1
77.5°	53.1	57.9	70.0	82.9	95.3	111.2	133.8	168.6	187.1	193.2	198.0
80°	48.7	53.4	63.5	73.8	84.1	102.0	127.1	167.7	190.9	197.4	200.1
82.5°	45.3	49.6	58.5	67.6	76.0	92.3	122.3	165.8	189.9	195.3	196.6
85°	45.6	49.0	57.1	65.5	73.3	87.1	120.0	166.5	202.4	210.8	212.2
87.5°	48.0	50.3	58.7	68.6	77.3	91.5	124.3	165.3	201.1	208.9	212.2
90°	52.0	54.1	64.1	75.6	86.1	99.4	123.3	161.5	195.3	202.4	204.5
92.5°	64.6	66.3	77.3	89.9	99.1	103.5	119.3	167.3	196.3	200.4	200.4
95°	83.5	85.5	96.3	105.8	107.4	105.1	117.3	148.7	179.1	187.8	193.0
97.5°	104.5	105.1	111.2	112.8	107.7	102.3	114.5	138.9	162.6	168.6	170.0
100°	111.2	111.2	115.3	113.8	104.1	96.7	103.8	126.4	149.4	156.1	158.1
102.5°	112.6	113.1	117.3	112.8	99.7	87.6	92.3	113.8	135.1	142.7	146.7
105°	119.3	119.7	117.3	106.4	90.2	79.4	83.5	105.1	127.6	134.8	139.2
107.5°	111.5	110.5	104.1	94.0	83.2	75.4	80.0	95.9	113.1	118.9	122.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	92.3	91.5	89.2	85.5	78.7	73.0	76.0	90.5	107.1	111.5	114.3
112.5°	88.8	88.3	85.9	81.4	73.8	69.3	74.3	86.9	96.9	99.1	99.4
115°	85.5	84.8	79.4	74.3	68.2	66.3	69.6	81.0	90.5	93.0	95.0
117.5°	73.8	73.0	68.9	65.8	63.5	64.6	70.2	76.7	83.5	85.5	86.9
120°	65.5	65.1	63.2	61.2	59.7	60.5	66.6	73.8	80.4	82.5	83.5
122.5°	61.9	61.5	59.2	56.1	56.1	56.1	60.8	66.3	73.8	75.4	77.8
125°	54.3	54.3	52.0	49.6	53.1	54.3	55.4	55.8	61.5	64.1	65.1
127.5°	48.2	48.7	46.6	44.9	51.1	54.1	53.4	49.0	52.5	54.3	55.8
130°	47.6	47.6	45.3	43.3	46.4	52.5	50.3	46.0	50.0	51.4	52.0
132.5°	46.4	46.4	43.9	41.0	41.5	48.2	43.9	42.8	46.6	48.0	48.2
135°	42.6	42.6	41.0	36.8	34.1	41.0	35.6	37.5	41.2	42.2	42.6
137.5°	37.9	37.9	36.1	32.8	26.9	30.7	27.4	31.8	35.6	36.6	36.8
140°	31.1	30.7	29.7	25.7	19.7	17.2	18.5	25.3	29.0	29.7	30.7
142.5°	22.9	23.4	21.6	18.2	11.9	6.4	10.8	16.2	20.3	21.3	22.0
145°	16.9	16.6	14.8	11.9	6.4	1.0	5.1	10.2	12.8	13.8	14.6
147.5°	11.1	11.1	9.8	7.0	2.1	0.3	1.3	5.1	8.2	8.9	9.2
150°	7.5	7.5	5.4	2.1	0.3	0.3	0.3	1.0	3.4	4.0	4.8
152.5°	2.3	2.3	1.0	0.7	0.3	0.0	0.0	0.3	0.7	0.7	1.0
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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	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°	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9
2.5°	316.4	315.9	314.9	314.0	311.3	307.8	304.4	302.1	300.8	299.8	299.3
5°	340.3	340.9	336.2	328.5	321.1	314.2	307.8	301.8	298.3	295.7	294.6
7.5°	391.3	392.3	382.9	370.7	351.7	328.8	309.1	296.0	286.6	280.8	279.8
10°	454.5	451.8	440.7	414.7	380.2	344.7	307.8	279.5	264.2	257.2	256.8
12.5°	480.1	476.6	464.0	442.3	406.2	360.0	314.2	276.8	254.1	245.0	244.7
15°	468.3	462.0	438.9	419.0	404.9	379.2	338.2	295.4	264.2	252.8	249.6
17.5°	458.2	451.8	432.5	403.8	377.1	366.0	346.0	310.5	278.1	261.9	258.5
20°	488.0	483.8	459.9	421.8	392.3	347.7	331.6	307.2	282.8	272.6	270.0
22.5°	515.4	513.3	483.2	443.4	403.8	372.7	340.3	322.4	298.7	291.6	288.5
25°	566.3	556.9	507.5	453.9	419.7	389.2	347.7	319.6	291.0	281.8	280.1
27.5°	686.3	664.3	592.4	511.7	443.0	394.6	347.0	305.9	274.4	262.9	262.2
30°	762.8	742.8	661.6	572.8	479.5	407.6	342.7	292.9	269.3	258.2	258.5
32.5°	809.0	782.2	691.1	578.5	488.0	413.9	345.4	288.5	256.8	242.6	242.4
35°	909.4	872.2	739.8	624.9	504.5	404.4	333.9	279.5	250.1	239.6	238.2
37.5°	1052.3	1010.4	830.9	662.3	511.2	392.0	319.0	269.0	233.9	219.2	218.3
40°	1258.7	1197.3	957.4	707.7	505.8	382.5	302.8	253.1	224.0	214.5	211.6
42.5°	1156.4	1086.8	882.0	698.8	492.4	356.4	287.3	245.3	218.3	210.8	206.8
45°	1220.3	1139.1	891.1	649.8	440.7	318.0	260.9	229.7	202.7	192.2	191.2
46°	1255.7	1170.9	930.6	634.9	417.1	305.9	249.0	222.7	199.3	185.9	182.8
47.5°	1178.7	1084.3	855.6	605.8	398.0	278.5	233.5	211.6	195.7	183.2	181.1
50°	1033.7	941.5	740.1	516.6	342.7	245.6	208.1	195.0	179.1	165.6	163.2
52.5°	943.5	866.1	677.5	468.6	291.0	207.1	185.9	174.5	158.1	142.2	140.2
55°	518.7	465.3	418.7	352.1	241.3	175.0	161.9	155.0	138.6	123.0	122.0
57.5°	213.5	192.0	190.3	179.4	165.8	147.3	139.9	135.9	119.3	100.4	99.7
60°	179.8	160.2	141.3	124.3	123.3	123.0	120.6	113.5	95.3	75.6	75.0
62.5°	175.0	155.8	137.3	116.6	107.7	110.5	106.1	97.3	83.5	64.6	63.9
65°	178.5	158.6	136.5	113.1	103.8	104.7	100.0	93.2	83.8	70.2	69.6
67.5°	189.9	169.3	144.6	111.8	100.4	102.3	99.1	94.0	88.6	80.0	78.4
70°	191.6	173.4	144.9	112.6	96.7	99.1	97.9	93.7	89.9	82.5	81.4
72.5°	196.6	180.1	148.0	110.1	92.5	93.7	95.0	93.7	91.3	86.9	85.2
75°	192.0	177.4	146.7	108.2	88.6	87.9	91.3	93.0	93.7	91.8	89.9
77.5°	190.9	178.8	147.1	106.8	84.8	82.1	84.8	87.6	88.8	87.1	85.5
80°	192.2	181.7	151.4	107.1	80.8	74.0	75.4	78.4	78.7	75.6	73.3
82.5°	189.3	179.1	146.7	103.5	74.3	65.8	66.3	69.3	69.6	65.8	63.2
85°	202.7	190.6	150.0	98.6	67.6	60.1	60.5	61.9	59.7	55.8	53.1
87.5°	202.4	187.8	143.3	91.3	63.2	56.8	56.5	56.1	52.7	48.0	45.6
90°	195.3	180.1	134.1	80.4	55.8	52.0	51.1	49.0	44.2	38.8	37.2
92.5°	190.6	174.5	128.1	76.0	49.0	45.6	44.9	42.8	38.2	32.5	31.4
95°	185.5	169.6	117.9	66.6	43.3	39.9	38.8	36.8	33.1	28.3	27.7
97.5°	163.5	148.0	104.1	60.5	38.4	34.9	34.1	32.5	29.5	26.1	25.7
100°	151.1	137.3	96.7	55.4	34.5	30.5	30.1	29.0	26.9	24.7	24.3
102.5°	141.3	127.6	89.6	51.4	30.7	26.9	26.7	26.4	25.3	23.6	23.6
105°	133.8	121.0	85.9	48.0	27.7	24.7	24.3	24.3	23.4	22.3	22.3
107.5°	116.6	105.8	74.6	42.6	25.3	22.6	22.6	22.6	22.0	21.3	21.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	109.9	99.7	71.0	39.9	24.3	20.9	20.7	20.7	20.3	20.7	20.7
112.5°	94.6	85.9	62.5	38.2	23.6	19.9	19.0	18.2	17.5	18.2	18.5
115°	90.9	82.9	60.5	36.8	22.9	19.3	17.8	16.9	15.5	16.6	16.6
117.5°	83.5	76.0	56.1	35.8	22.9	18.2	16.9	15.9	14.6	15.2	15.2
120°	80.0	73.8	56.5	36.8	23.4	17.2	15.9	14.3	13.1	14.3	14.3
122.5°	75.4	69.6	53.1	34.9	22.3	16.9	15.5	12.1	11.5	12.4	12.4
125°	63.2	58.5	45.6	30.7	21.3	16.9	15.2	10.8	10.8	11.5	11.9
127.5°	53.7	50.0	39.5	28.7	21.6	17.8	14.6	9.4	10.2	11.1	11.1
130°	50.7	47.6	39.2	29.5	22.6	19.0	11.9	8.9	9.4	10.5	10.5
132.5°	47.3	44.6	37.9	30.1	22.9	17.8	9.8	8.2	8.9	9.4	9.4
135°	41.5	39.5	34.1	27.4	20.7	14.3	7.7	7.0	8.2	8.9	9.2
137.5°	36.6	34.9	30.1	24.7	18.5	12.1	5.4	6.4	7.0	7.5	7.7
140°	30.1	29.0	25.3	20.3	13.8	6.7	4.0	5.1	5.7	6.4	6.4
142.5°	22.0	21.3	17.8	13.1	8.4	2.8	2.8	3.8	4.4	5.1	5.1
145°	14.6	13.8	11.5	8.4	3.8	0.7	1.6	2.8	3.8	4.0	4.0
147.5°	9.2	8.9	7.0	4.4	1.3	0.7	0.7	2.1	2.8	3.1	3.1
150°	4.8	4.4	3.1	1.3	0.7	0.3	0.3	0.7	1.6	2.1	2.1
152.5°	1.0	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	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)