

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: P266284

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746 lumens
Efficiency: N/A
Efficacy: 83.1 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): 21
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



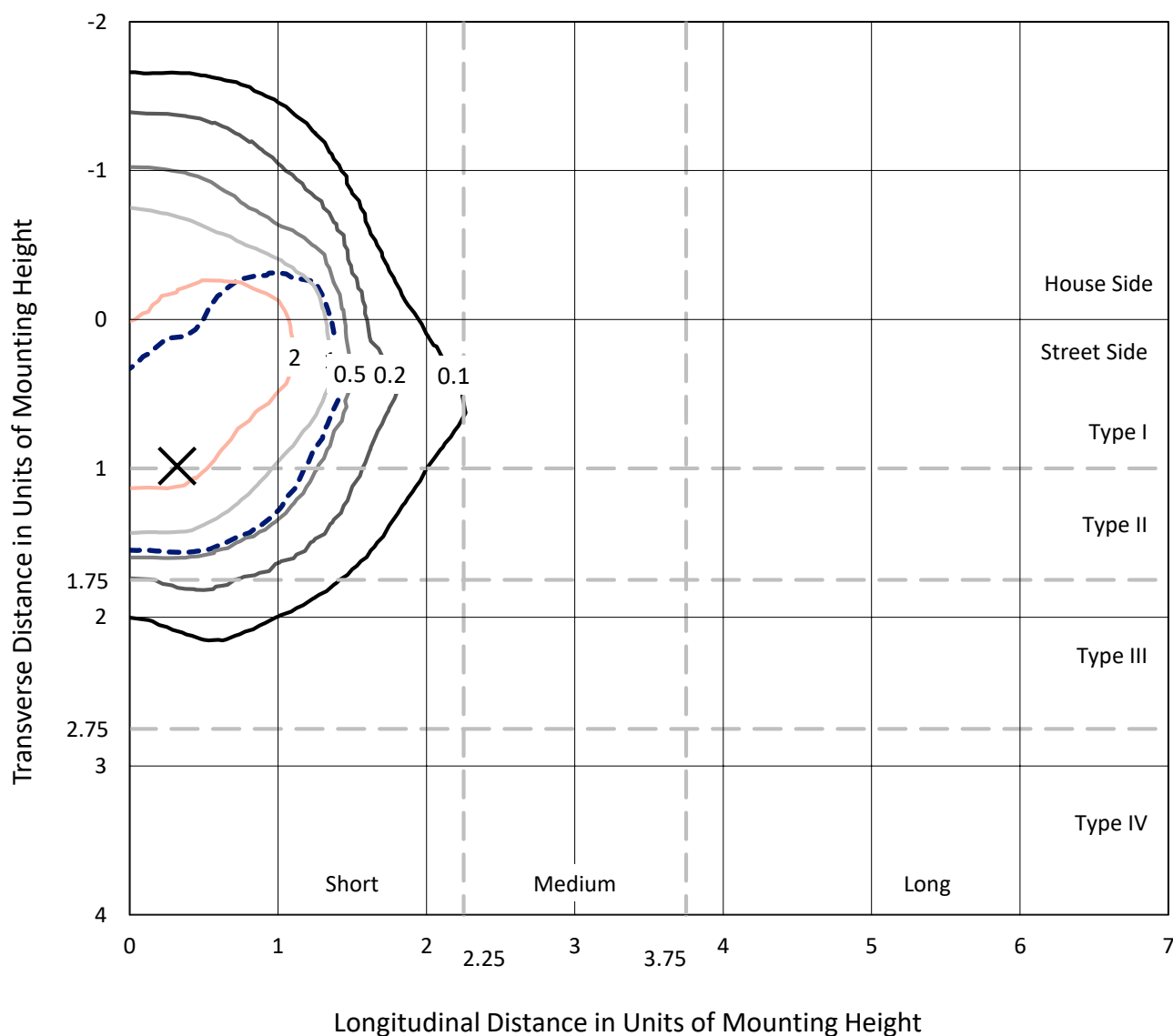
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

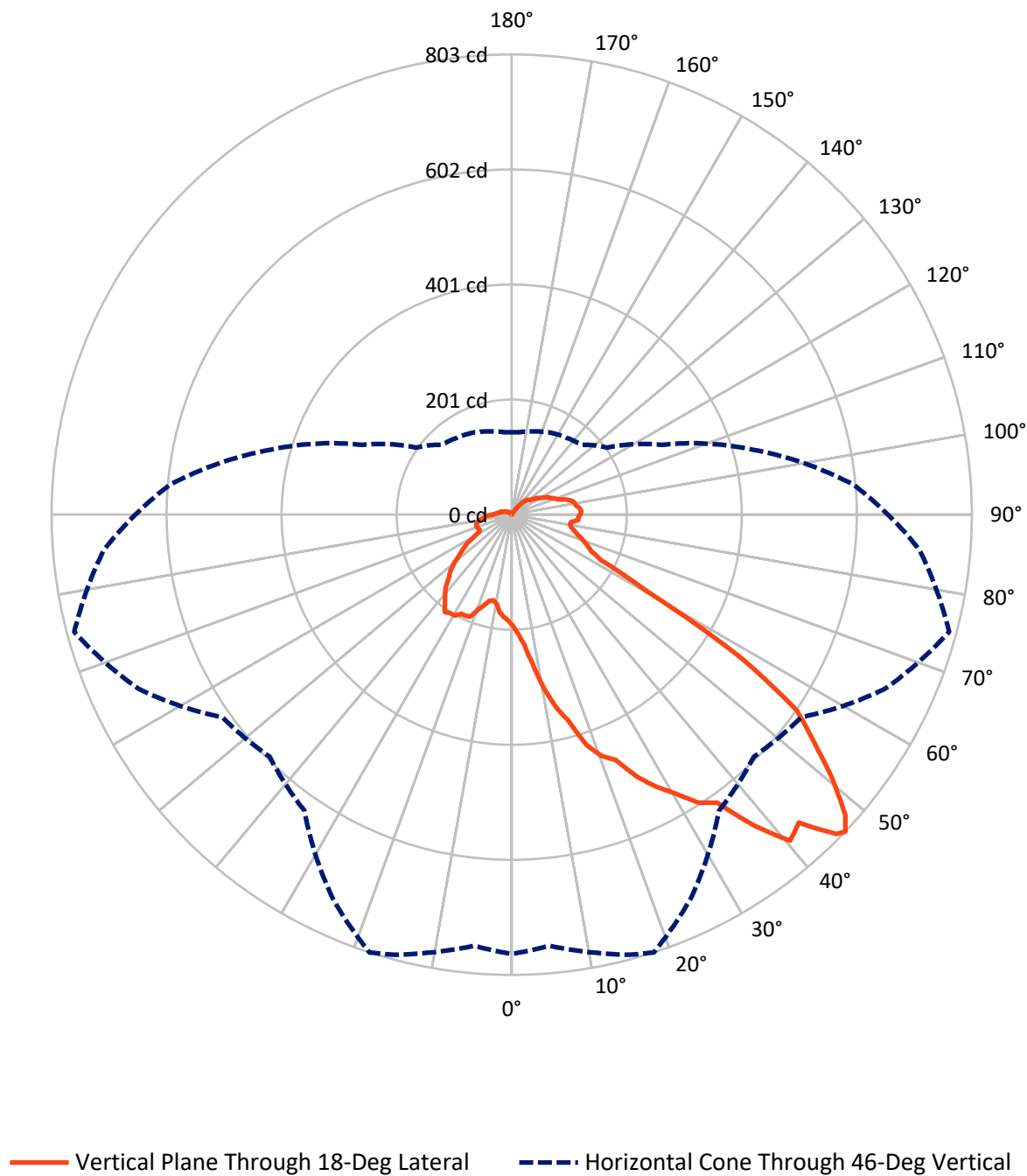


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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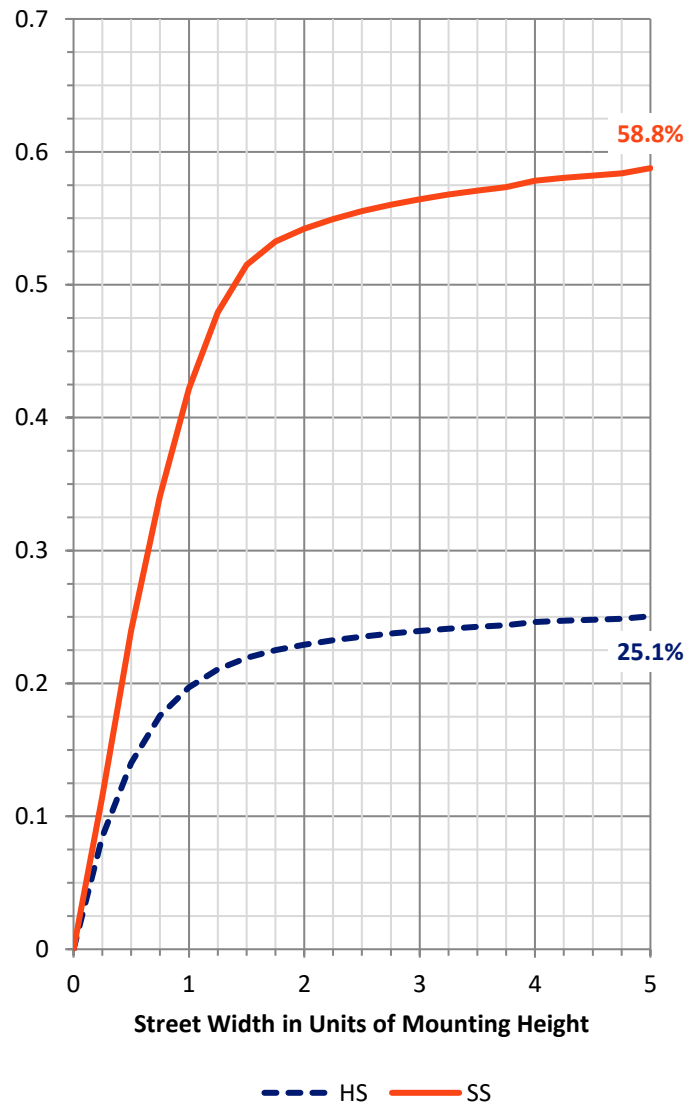
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.2	56.5	510.7
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1065.8	169.5	1235.3
	% Fixture	61.0	9.7	70.7
Total	Lumens	1520.0	226.0	1746.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	1.2
10°-20°	84.5	4.8
20°-30°	171.9	9.8
30°-40°	281.4	16.1
40°-50°	366.3	21.0
50°-60°	274.1	15.7
60°-70°	114.2	6.5
70°-80°	103.9	5.9
80°-90°	103.0	5.9
90°-100°	82.8	4.7
100°-110°	58.8	3.4
110°-120°	39.8	2.3
120°-130°	25.6	1.5
130°-140°	15.2	0.9
140°-150°	3.7	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1520.0	87.1
0°-180°	1746.0	100.0

Coefficient of Utilization



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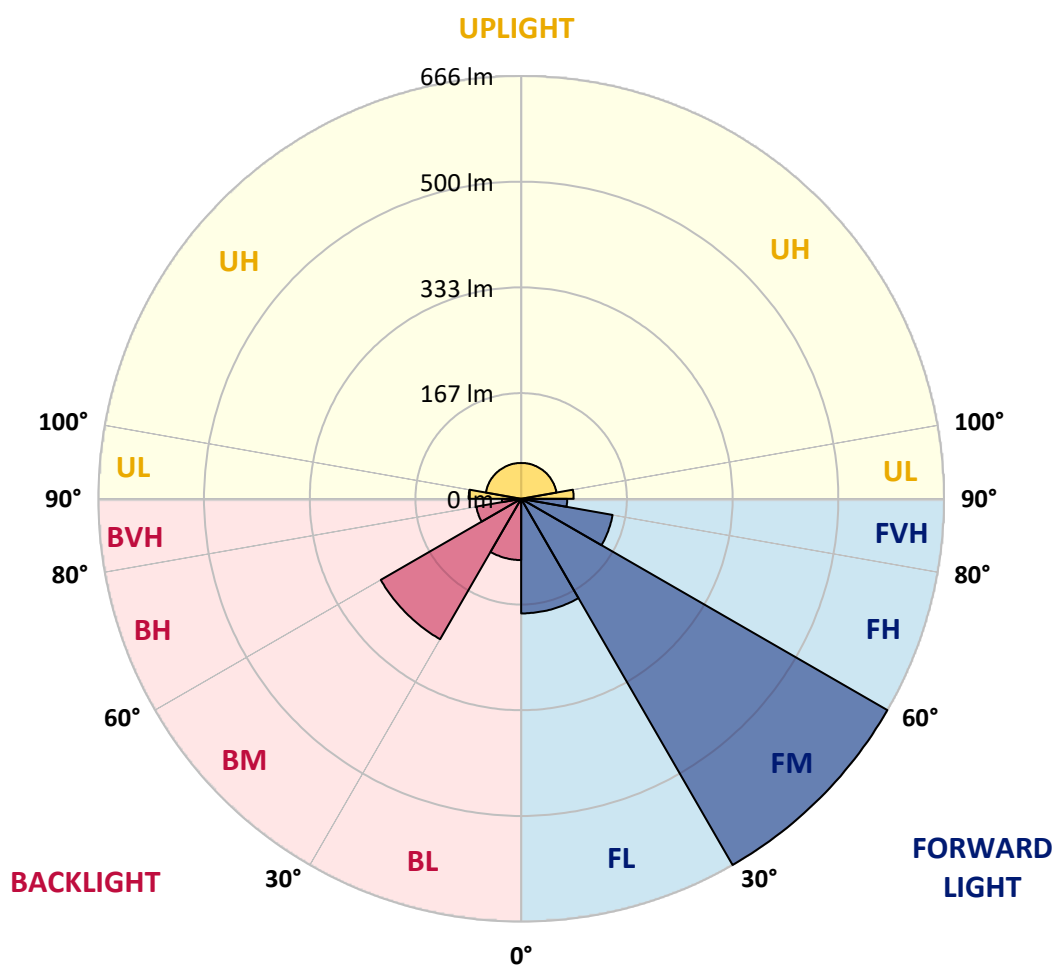
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.6	10.3			
FM	(30°-60°)	666.4	38.2			
FH	(60°-80°)	146.2	8.4			G0/660
FVH	(80°-90°)	72.6	4.2			G1/100
BL	(0°-30°)	96.5	5.5	B0/110		
BM	(30°-60°)	255.5	14.6	B1/1000		
BH	(60°-80°)	71.8	4.1	B0/110		G0/110
BVH	(80°-90°)	30.4	1.7			G1/100
UL	(90°-100°)	82.8	4.7		U3/500	
UH	(100°-180°)	56.5	3.2		U3/500	

BUG Rating: B1-U3-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	207.9	206.9	207.4	207.4	206.3	205.7	204.5	203.0	201.1	199.0	197.0
5°	228.3	227.7	227.5	227.2	226.9	223.8	220.2	217.0	213.6	210.1	205.0
7.5°	266.3	266.1	264.6	262.9	260.5	255.2	248.7	245.5	240.9	235.4	227.7
10°	313.6	310.3	307.1	307.1	302.3	300.4	298.3	293.8	291.0	283.1	272.0
12.5°	340.6	339.0	345.5	344.9	351.2	362.6	366.5	370.5	352.8	330.2	309.6
15°	366.0	366.0	374.2	374.5	393.1	418.3	437.2	418.6	386.4	350.1	322.3
17.5°	400.7	403.0	414.7	422.7	447.9	491.1	478.1	443.8	395.4	352.2	321.1
20°	415.9	420.9	438.9	449.3	488.1	529.0	516.4	476.1	420.0	370.8	339.5
22.5°	425.3	428.9	450.1	464.8	514.5	549.0	547.1	506.3	453.5	391.8	355.5
25°	464.1	466.2	490.4	505.6	558.1	569.3	547.3	519.1	467.2	403.2	371.3
27.5°	477.1	477.3	514.5	537.5	580.7	576.8	548.2	536.5	510.1	459.8	438.3
30°	494.6	494.2	540.2	564.8	591.1	574.6	551.6	562.1	563.7	522.8	483.6
32.5°	516.4	514.5	569.3	598.8	607.3	574.1	557.2	574.8	600.4	557.9	515.9
35°	536.5	538.2	597.1	617.1	625.1	577.0	560.2	598.8	650.6	617.9	547.3
37.5°	665.5	663.5	682.1	689.1	669.0	587.0	571.2	628.5	704.5	690.3	614.7
40°	694.6	688.1	743.6	747.7	712.4	621.9	601.7	646.3	747.0	772.4	712.3
42.5°	670.0	668.2	728.9	734.5	709.1	645.6	621.6	660.9	751.8	772.6	672.7
45°	778.4	769.5	801.1	794.6	724.4	635.5	609.4	644.7	735.2	793.4	714.2
46°	766.1	754.8	794.6	802.7	738.8	630.4	597.1	616.1	718.6	790.0	714.6
47.5°	728.4	729.3	782.6	783.0	724.0	631.1	576.8	599.0	681.4	746.9	646.3
50°	635.9	625.1	722.1	725.3	669.0	603.8	556.1	566.1	644.7	684.7	582.6
52.5°	612.3	603.8	661.1	660.6	609.9	562.2	518.1	528.7	617.3	662.9	590.0
55°	562.6	559.6	607.8	603.7	568.1	511.1	479.4	486.1	512.0	494.2	294.0
57.5°	373.8	384.8	467.8	475.8	476.1	449.3	409.6	349.6	302.5	257.4	143.9
60°	152.6	165.4	257.9	269.9	287.5	336.9	297.0	233.6	195.3	203.0	124.3
62.5°	115.2	120.1	172.1	174.4	181.1	205.0	202.6	169.5	166.8	183.8	119.0
65°	107.2	111.5	152.6	151.9	148.7	155.2	154.8	147.1	149.9	171.1	118.5
67.5°	101.4	105.7	141.8	141.9	139.2	140.6	141.6	137.6	144.4	166.4	121.7
70°	95.6	100.3	130.3	131.2	132.9	137.4	139.1	136.2	142.2	160.3	121.5
72.5°	88.7	93.7	119.7	120.9	124.9	134.7	140.6	139.7	140.6	151.4	120.9
75°	86.1	91.3	110.9	112.9	118.5	133.5	148.5	143.6	138.8	145.5	118.0
77.5°	75.5	81.3	101.4	106.2	118.5	137.4	153.8	152.2	143.2	141.8	115.0
80°	72.7	78.2	97.6	102.9	116.2	140.8	159.1	159.4	154.8	147.1	118.0
82.5°	73.1	78.4	98.5	104.6	119.7	143.2	154.8	160.7	161.2	151.6	121.7
85°	86.0	91.0	110.1	116.4	129.6	142.4	151.4	155.8	160.1	160.1	133.5
87.5°	91.7	96.4	110.9	116.4	129.1	144.2	142.7	149.9	154.2	159.8	137.6
90°	97.0	99.9	115.0	120.3	127.0	139.1	135.3	132.9	136.6	142.4	128.9
92.5°	100.9	103.6	116.9	121.5	127.2	129.8	124.1	117.8	126.8	131.3	120.1
95°	107.9	110.3	117.4	119.0	118.2	120.7	111.7	109.4	113.2	118.2	111.1
97.5°	103.0	104.8	111.5	113.5	112.9	109.4	100.4	99.1	102.3	106.2	98.3
100°	103.0	105.3	110.3	111.5	108.7	99.4	90.3	89.8	91.9	94.0	86.4
102.5°	105.3	106.2	107.2	107.9	102.5	92.4	85.7	84.0	84.7	85.7	79.0
105°	99.7	99.9	100.4	98.3	94.0	86.1	79.4	76.5	79.0	81.8	76.3
107.5°	86.1	86.0	86.1	85.5	85.0	80.4	75.5	72.0	72.0	72.9	67.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	80.4	80.7	80.4	80.4	78.2	75.1	70.4	66.7	64.7	65.1	60.4
112.5°	73.7	73.7	73.9	74.1	72.9	70.0	65.4	61.5	59.2	58.7	54.1
115°	73.7	72.9	70.7	70.4	68.1	64.0	60.5	55.8	54.1	54.1	51.3
117.5°	65.7	65.1	63.5	63.1	61.5	58.2	56.2	52.5	51.3	50.5	47.8
120°	58.2	58.2	57.4	57.2	55.8	53.9	49.8	48.2	47.3	48.2	46.6
122.5°	54.1	54.1	52.9	52.5	50.8	49.2	45.6	42.9	41.3	43.2	42.2
125°	49.8	49.4	47.8	47.6	44.6	44.6	42.7	39.3	34.8	36.7	36.2
127.5°	43.7	43.5	41.3	41.1	39.3	41.3	40.9	36.4	30.2	31.4	31.4
130°	42.0	41.5	39.5	39.2	37.4	36.9	38.8	31.9	28.2	29.5	29.3
132.5°	42.0	41.5	39.2	38.4	35.8	33.1	35.0	27.8	27.0	28.4	28.2
135°	37.9	37.9	35.8	34.2	31.6	26.8	27.3	21.5	23.6	25.8	25.8
137.5°	32.1	32.1	30.0	29.5	26.3	21.5	19.4	16.3	20.0	22.5	22.6
140°	25.2	25.2	23.4	22.5	20.3	14.3	9.0	10.2	15.2	17.3	18.1
142.5°	18.1	17.8	16.3	15.2	13.0	7.7	3.0	5.7	9.0	11.9	12.8
145°	12.5	12.2	10.6	9.9	7.9	3.7	0.7	2.4	5.3	6.9	8.3
147.5°	7.5	7.5	6.3	6.0	4.1	1.0	0.4	0.7	2.6	4.3	5.1
150°	4.3	4.3	3.1	2.4	1.0	0.2	0.2	0.2	0.7	1.9	2.4
152.5°	1.0	1.0	0.7	0.4	0.4	0.2	0.0	0.2	0.2	0.2	0.4
155°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
162.5°	0.2	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.2	0.2
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°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	196.0	195.1	192.9	190.3	188.4	186.7	185.4	184.7	184.2	183.1	183.6
5°	203.2	201.4	196.3	192.1	187.8	184.0	181.1	179.1	178.5	177.4	177.4
7.5°	224.0	219.5	211.7	202.1	193.1	185.4	178.1	174.1	170.5	168.5	168.1
10°	264.9	258.8	242.2	222.4	202.7	185.4	171.4	161.2	156.5	154.8	154.8
12.5°	298.6	289.3	267.5	245.2	219.2	192.0	171.1	157.5	150.8	148.7	148.7
15°	308.7	296.5	270.8	249.2	225.7	202.7	183.6	163.8	151.9	148.2	147.1
17.5°	305.7	293.6	270.4	244.1	217.7	200.6	183.6	172.8	162.1	155.8	154.8
20°	325.6	314.5	290.4	261.0	228.7	190.3	179.4	177.0	174.4	170.1	170.1
22.5°	342.3	332.0	307.8	276.1	237.3	212.2	196.0	193.7	190.7	190.0	189.5
25°	355.2	344.1	311.0	274.5	246.2	227.9	207.1	199.0	192.0	189.7	189.1
27.5°	423.6	406.4	353.3	301.6	261.0	233.2	209.3	198.7	192.1	189.5	191.2
30°	463.5	445.0	386.8	319.0	278.7	244.8	213.6	201.1	202.7	205.0	206.7
32.5°	494.2	469.9	401.5	321.1	275.7	246.9	220.7	205.7	201.0	203.7	204.3
35°	524.4	494.6	420.5	334.9	279.6	238.9	215.9	207.1	205.7	209.6	208.9
37.5°	585.8	546.9	444.2	338.8	276.0	229.5	207.7	198.4	191.0	190.0	191.2
40°	665.9	613.7	467.8	337.0	259.0	218.3	197.3	186.8	181.1	177.4	175.3
42.5°	625.8	573.4	437.5	323.5	238.5	197.9	186.7	177.4	170.0	165.4	164.2
45°	669.7	618.6	445.2	296.3	215.1	179.9	170.7	164.4	154.0	149.7	148.9
46°	656.4	598.5	436.5	287.7	203.7	172.1	164.4	157.9	150.1	144.2	143.6
47.5°	608.2	540.6	411.0	265.1	196.0	159.4	154.0	150.1	146.1	139.1	138.1
50°	542.8	491.1	364.8	235.6	165.2	142.2	137.6	136.5	131.8	123.3	124.1
52.5°	537.6	487.7	339.6	216.9	146.6	124.5	123.2	119.6	115.6	108.2	107.9
55°	259.3	220.4	188.6	169.7	122.7	110.3	109.7	107.9	103.0	96.4	97.6
57.5°	122.9	107.0	92.4	98.1	96.4	96.7	97.2	97.0	91.4	82.4	84.4
60°	107.6	93.5	79.9	75.7	79.7	85.7	85.7	82.0	74.4	63.5	62.5
62.5°	103.8	89.7	77.3	71.8	73.7	77.3	75.3	69.4	61.9	51.9	51.5
65°	104.4	89.1	77.1	70.0	71.8	73.1	69.4	64.9	60.8	53.9	53.9
67.5°	106.4	91.0	78.1	69.3	70.4	71.4	68.1	64.7	62.3	57.0	57.4
70°	107.0	92.3	79.0	69.4	69.3	70.2	67.8	64.7	63.5	59.8	59.6
72.5°	107.0	93.2	78.1	67.8	67.4	67.8	66.4	64.7	64.5	62.3	61.9
75°	103.3	91.0	74.6	64.5	64.0	64.5	64.0	63.7	64.7	63.7	62.8
77.5°	99.7	88.8	72.3	61.9	61.1	60.8	60.5	60.8	62.3	61.5	60.1
80°	101.4	89.8	71.8	59.6	57.4	56.6	56.6	56.8	56.8	54.5	52.5
82.5°	104.4	91.4	69.3	55.5	51.9	50.2	50.8	52.5	53.1	51.5	49.8
85°	115.0	99.3	69.8	52.6	47.3	45.4	46.2	48.2	46.8	44.5	42.5
87.5°	119.6	101.9	68.4	48.2	43.9	43.2	43.2	44.5	43.5	39.5	37.9
90°	114.3	97.6	61.9	41.1	38.2	38.8	39.2	37.9	33.7	29.5	27.9
92.5°	107.0	91.3	57.2	37.6	33.7	33.5	33.2	32.6	29.5	24.7	23.6
95°	100.9	86.0	52.9	34.6	30.9	30.2	30.0	28.9	26.1	22.5	22.0
97.5°	87.9	75.1	48.1	31.9	27.8	27.3	27.0	25.8	23.1	20.5	20.3
100°	79.0	66.8	42.9	28.7	25.2	24.3	24.2	23.4	21.2	19.4	19.0
102.5°	71.8	61.4	39.9	26.3	22.5	21.5	21.5	21.0	19.9	18.5	18.5
105°	69.8	60.1	38.6	24.2	20.0	19.6	19.4	19.4	18.3	17.6	17.6
107.5°	61.4	52.6	33.2	21.5	18.1	17.6	17.6	17.6	17.3	17.2	17.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	55.2	47.6	30.6	20.0	16.9	16.2	16.2	16.2	16.2	16.7	16.7
112.5°	49.2	42.7	28.2	19.0	15.7	15.0	14.6	14.3	14.1	15.0	15.2
115°	46.6	40.9	27.0	18.1	15.0	14.3	13.2	12.8	12.0	12.8	13.0
117.5°	43.9	38.6	26.6	17.8	14.6	13.2	12.2	11.9	10.9	11.6	11.6
120°	43.2	38.4	27.0	18.1	14.1	12.2	11.6	10.4	9.9	10.4	10.6
122.5°	39.9	35.6	25.3	16.9	13.2	11.9	10.9	9.0	8.8	9.4	9.4
125°	33.7	30.5	22.0	15.2	12.5	11.6	10.6	7.9	8.3	8.8	9.0
127.5°	29.7	26.8	20.0	14.7	12.5	11.9	9.9	6.9	7.7	8.4	8.8
130°	27.8	25.6	20.0	15.2	13.0	12.0	8.3	6.5	7.2	7.9	7.9
132.5°	27.0	25.3	20.5	16.2	13.6	11.6	6.7	6.0	6.7	7.2	7.2
135°	24.9	23.4	19.6	15.7	12.2	9.2	5.3	5.3	6.3	6.7	6.7
137.5°	22.0	20.8	17.6	14.6	10.9	6.9	3.9	4.6	5.3	5.7	5.7
140°	17.6	16.9	14.6	11.4	7.7	3.9	3.0	3.7	4.3	4.9	4.9
142.5°	12.5	12.0	10.2	7.2	4.6	1.6	1.9	2.6	3.4	3.9	3.9
145°	8.3	7.7	6.3	4.6	1.9	0.4	1.2	1.9	2.6	3.0	3.0
147.5°	5.1	4.9	3.9	2.2	0.7	0.4	0.4	1.4	1.9	2.2	2.2
150°	2.6	2.4	1.6	0.7	0.2	0.2	0.2	0.4	1.2	1.4	1.6
152.5°	0.7	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7
155°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.2	0.0	0.2	0.2	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)