

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: P240199

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.5 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

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



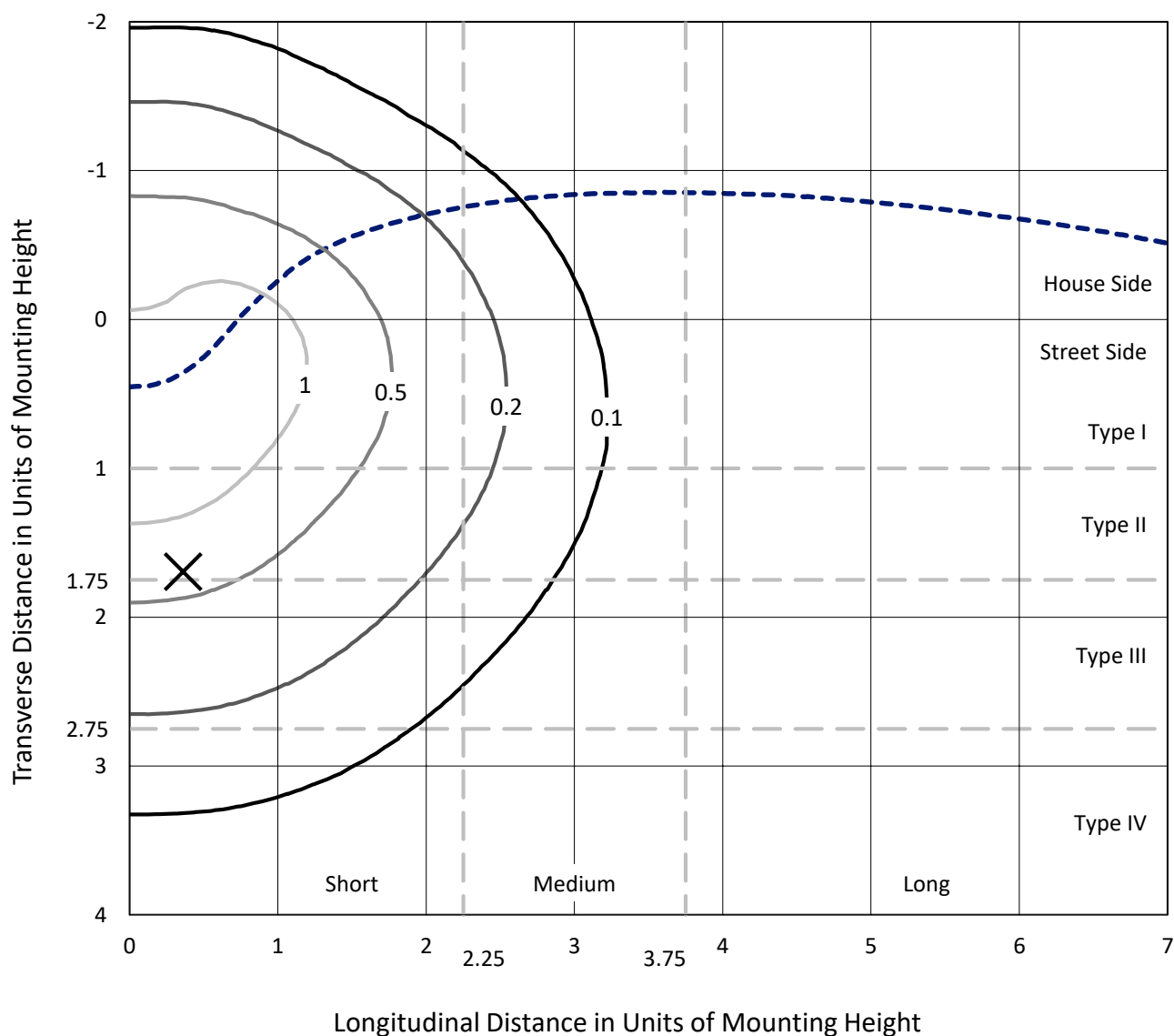
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

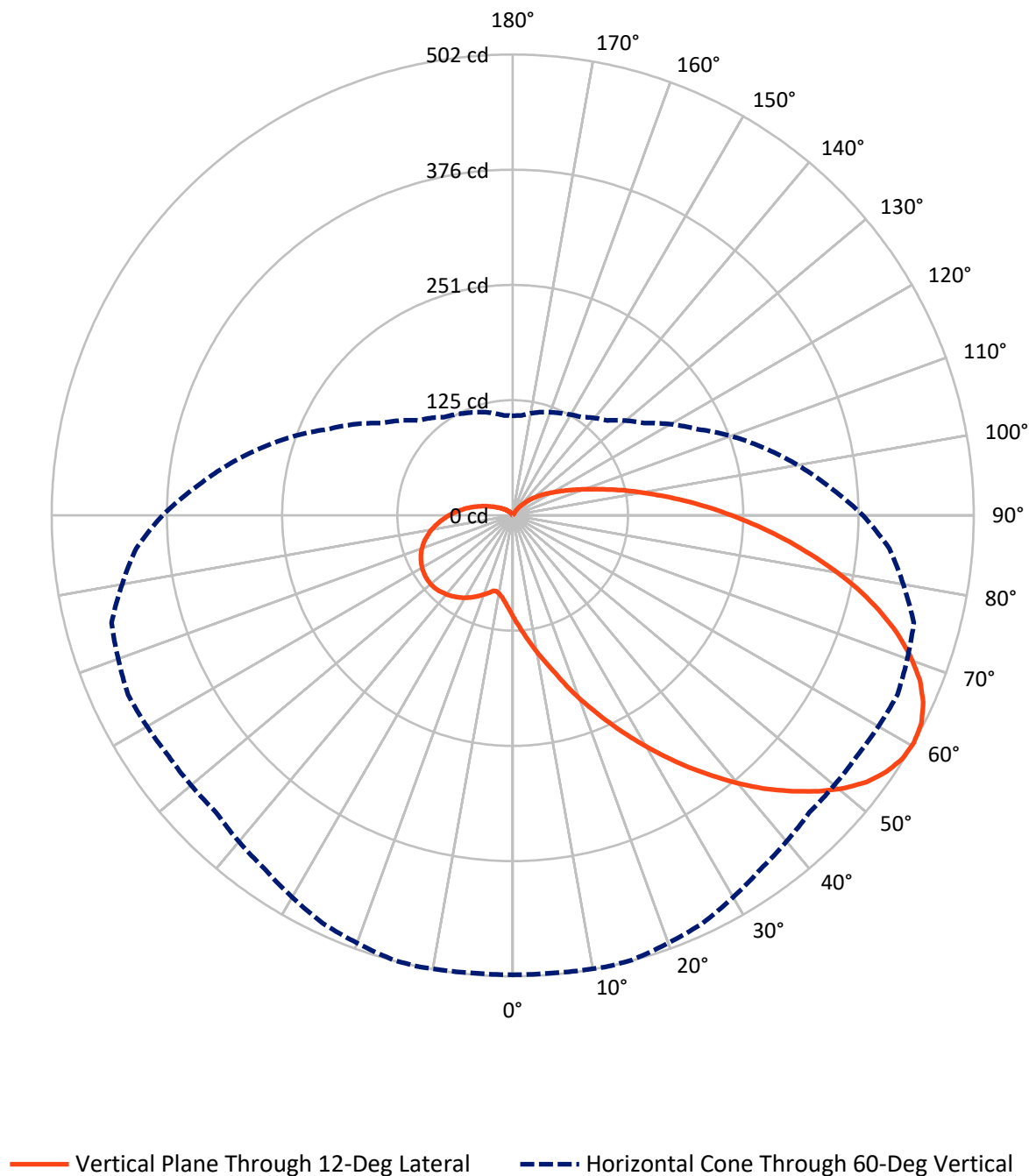


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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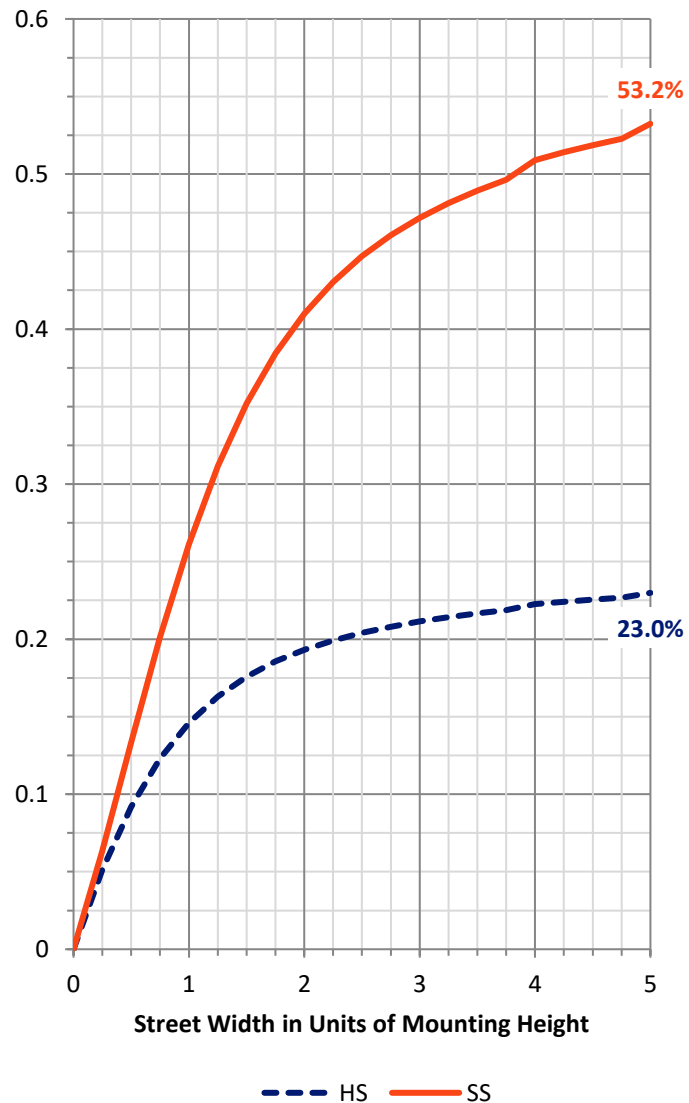
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.0	111.2	594.2
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	1139.8	230.5	1370.3
	% Fixture	58.0	11.7	69.8
Total	Lumens	1622.8	341.7	1964.5
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.6
10°-20°	38.5	2.0
20°-30°	82.6	4.2
30°-40°	144.6	7.4
40°-50°	217.8	11.1
50°-60°	284.4	14.5
60°-70°	316.7	16.1
70°-80°	295.7	15.1
80°-90°	231.3	11.8
90°-100°	156.3	8.0
100°-110°	94.5	4.8
110°-120°	52.0	2.6
120°-130°	25.9	1.3
130°-140°	10.4	0.5
140°-150°	2.5	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1622.8	82.6
0°-180°	1964.5	100.0

Coefficient of Utilization



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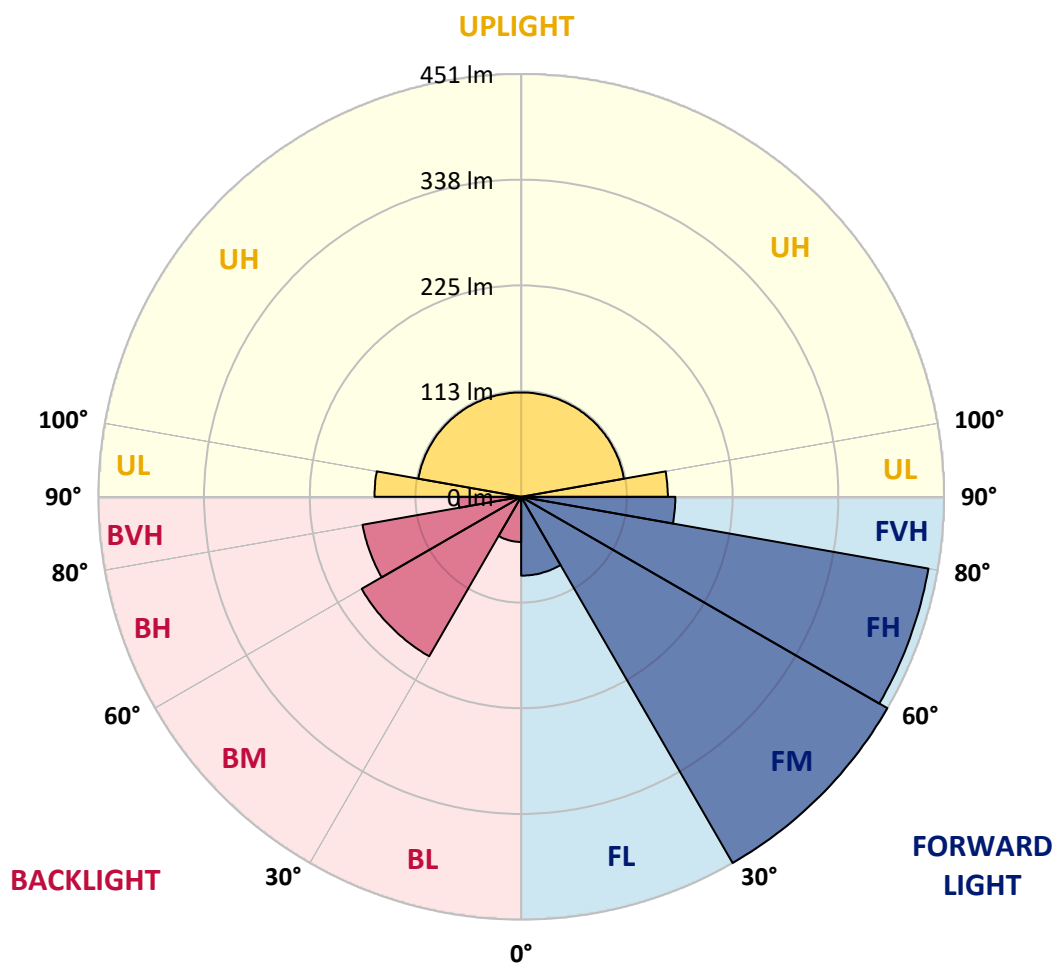
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.0	4.3			
FM	(30°-60°)	450.7	22.9			
FH	(60°-80°)	440.8	22.4			G0/660
FVH	(80°-90°)	164.3	8.4			G2/225
BL	(0°-30°)	48.1	2.4	B0/110		
BM	(30°-60°)	196.2	10.0	B0/220		
BH	(60°-80°)	171.6	8.7	B1/500		G1/500
BVH	(80°-90°)	67.1	3.4			G1/100
UL	(90°-100°)	156.3	8.0		U3/500	
UH	(100°-180°)	111.2	5.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8
2.5°	120.4	119.8	119.8	119.3	119.3	118.3	117.6	116.3	114.9	113.3	112.1
5°	130.0	130.0	129.5	129.5	128.4	126.6	124.8	122.5	120.0	117.6	114.4
7.5°	141.4	141.2	141.2	140.4	139.1	136.5	133.9	130.6	126.8	122.5	118.3
10°	153.2	152.9	152.9	152.1	150.6	147.4	143.4	139.7	134.9	129.3	123.5
12.5°	167.1	166.2	165.6	165.3	162.8	159.8	154.9	150.2	144.0	137.5	130.6
15°	182.0	181.7	180.2	179.4	176.8	172.4	167.7	161.9	155.7	148.5	139.9
17.5°	198.7	198.7	197.5	196.5	193.7	187.7	181.7	176.2	170.0	161.1	151.6
20°	216.6	216.6	215.2	213.7	210.1	204.9	198.9	192.4	184.8	175.3	163.6
22.5°	235.6	235.0	233.2	232.1	227.7	222.1	217.3	209.8	200.9	190.0	176.6
25°	255.5	254.8	252.9	252.0	246.7	242.3	236.9	228.1	217.9	205.4	190.3
27.5°	276.7	274.6	273.2	271.7	266.7	262.3	254.8	246.5	234.8	221.8	205.1
30°	296.8	296.1	294.6	292.5	288.1	282.9	274.6	265.4	254.0	239.8	221.2
32.5°	320.0	319.2	316.7	314.5	308.8	303.4	294.8	285.1	273.0	257.9	237.8
35°	343.2	342.1	339.2	336.9	332.2	324.2	314.0	305.0	292.7	277.4	255.7
37.5°	367.1	365.0	361.8	360.3	354.6	344.7	334.2	324.2	313.0	297.4	274.0
40°	389.7	388.6	385.0	383.2	377.0	364.7	353.0	344.1	334.2	317.7	293.1
42.5°	412.9	411.1	407.4	405.6	398.2	384.3	372.0	363.8	355.1	339.0	312.3
45°	433.4	432.6	428.2	427.2	418.4	403.2	389.2	382.0	374.4	359.0	330.0
47.5°	453.4	451.6	448.7	447.4	437.0	419.9	406.1	399.9	393.7	379.5	348.9
50°	469.9	469.5	467.0	465.3	453.4	434.8	420.6	415.7	412.4	398.8	366.0
52.5°	483.8	483.6	482.1	480.4	467.7	448.2	433.6	430.1	429.0	416.5	381.1
55°	493.8	493.5	493.0	491.3	478.9	458.9	444.5	441.7	443.0	431.3	394.7
57.5°	499.5	499.2	500.0	498.7	485.8	466.1	452.2	451.4	454.4	443.8	404.8
60°	500.0	500.0	501.7	501.0	489.6	470.1	456.8	457.0	461.9	451.9	411.3
62.5°	495.3	495.3	499.2	498.4	488.5	469.9	457.6	459.7	465.9	456.2	413.6
65°	485.1	486.4	490.9	490.9	483.0	466.1	454.9	458.2	465.7	456.0	412.1
67.5°	469.0	471.6	477.9	478.3	472.9	458.2	448.2	452.7	461.0	450.8	405.6
70°	448.9	452.7	459.1	461.0	458.6	446.5	438.0	443.3	451.4	441.2	394.9
72.5°	425.6	429.0	437.2	439.3	440.2	430.5	424.0	430.3	436.8	425.9	380.1
75°	399.6	402.5	411.8	413.9	417.3	411.8	407.6	412.6	419.9	406.3	361.1
77.5°	368.1	373.1	383.5	385.8	392.3	389.7	386.6	392.6	398.0	383.7	339.0
80°	337.7	343.9	352.6	357.2	365.0	364.7	365.3	369.2	373.8	358.3	315.1
82.5°	306.8	311.2	321.3	325.8	337.7	340.6	340.6	345.8	347.3	330.0	289.3
85°	275.6	280.8	290.9	295.3	308.3	314.5	316.5	319.0	319.2	301.0	262.9
87.5°	248.0	251.2	260.8	266.3	280.2	287.6	289.9	293.1	290.9	273.0	235.6
90°	220.4	223.3	232.7	237.1	252.5	261.0	266.3	267.5	263.4	244.4	210.6
92.5°	194.7	197.5	206.4	211.6	226.7	235.8	240.7	241.8	237.1	217.9	186.4
95°	172.1	172.1	181.7	185.6	202.5	212.6	217.3	217.3	210.9	191.9	163.3
97.5°	150.8	151.4	158.9	163.8	179.4	190.0	195.0	195.2	186.2	168.3	143.7
100°	131.5	132.3	139.3	143.7	158.9	170.0	174.5	173.7	164.3	145.9	124.2
102.5°	115.7	115.7	121.8	125.3	139.7	150.8	154.9	153.4	143.7	126.0	108.3
105°	101.4	101.9	105.8	109.5	123.0	133.4	137.5	135.2	125.3	108.1	94.6
107.5°	89.9	89.7	92.4	94.9	107.6	117.6	121.2	118.3	107.9	92.6	82.2
110°	78.5	78.7	80.9	82.7	94.4	103.7	106.3	104.1	92.4	78.7	71.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	69.4	69.4	71.0	72.5	80.9	89.9	93.1	89.7	78.5	66.8	62.2
115°	61.6	61.8	62.4	63.2	70.2	78.5	81.1	76.9	66.0	57.2	54.1
117.5°	54.8	54.8	55.0	55.9	60.3	67.8	69.7	65.2	55.9	48.8	47.5
120°	49.1	48.8	48.6	48.8	52.0	57.5	59.3	54.8	46.6	42.4	41.3
122.5°	43.7	43.7	43.1	43.3	44.2	48.4	49.6	45.5	39.3	36.7	36.4
125°	38.5	38.5	37.9	37.7	37.4	39.6	40.0	36.9	32.4	31.6	31.4
127.5°	33.6	33.8	33.0	32.8	31.6	32.0	32.2	29.4	26.8	27.0	27.4
130°	29.4	29.4	28.6	28.1	26.6	25.2	24.7	22.8	21.9	22.8	23.7
132.5°	25.4	24.9	24.5	23.9	21.7	19.7	18.7	17.2	17.7	19.2	20.0
135°	21.3	21.1	20.3	20.0	17.7	14.9	13.0	12.4	13.9	15.9	16.4
137.5°	17.4	17.4	16.6	16.2	13.5	10.7	8.8	8.8	10.7	12.4	13.5
140°	13.7	13.7	13.0	12.4	10.2	7.3	5.5	5.7	7.7	9.7	10.4
142.5°	10.4	10.4	9.7	9.4	7.3	4.7	3.2	3.6	5.5	7.0	7.7
145°	7.5	7.3	6.8	6.4	4.7	2.8	1.5	2.0	3.4	4.7	5.5
147.5°	4.9	4.9	4.4	4.2	2.8	1.5	0.5	1.1	2.0	2.8	3.6
150°	2.8	2.8	2.6	2.3	1.5	0.5	0.0	0.5	1.1	1.5	2.0
152.5°	1.5	1.5	1.3	1.3	0.5	0.2	0.0	0.0	0.2	0.8	0.8
155°	0.5	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8
2.5°	111.2	110.5	108.9	107.6	106.3	104.8	104.1	103.2	102.7	102.1	102.1
5°	112.9	111.2	108.3	105.6	102.9	100.6	98.6	97.0	96.1	95.7	95.4
7.5°	116.3	113.8	109.2	104.8	100.8	97.2	94.4	92.0	90.6	89.9	89.7
10°	120.6	117.2	111.2	105.3	100.1	95.4	91.6	88.6	86.9	86.1	85.5
12.5°	126.6	122.5	114.6	107.1	100.3	94.6	89.7	86.6	84.7	83.7	83.7
15°	135.7	130.2	120.6	110.5	102.1	95.2	89.7	86.4	85.0	84.4	84.2
17.5°	146.1	139.9	128.2	116.5	105.8	97.0	92.0	89.9	88.2	87.4	87.4
20°	157.6	150.0	136.5	123.3	111.2	102.1	96.7	93.3	91.2	90.4	90.2
22.5°	169.1	161.1	145.4	130.2	117.0	108.9	101.2	97.0	94.4	93.3	93.1
25°	182.0	173.4	154.7	137.7	125.1	116.0	106.8	100.8	97.5	96.1	95.9
27.5°	196.0	185.8	165.1	145.9	132.9	122.2	112.1	104.1	100.6	99.1	98.8
30°	210.6	199.4	175.5	154.2	140.4	127.7	117.0	107.9	103.5	101.6	101.4
32.5°	225.9	212.6	186.7	164.0	147.4	132.6	121.2	111.6	106.1	104.1	104.1
35°	243.1	227.7	197.5	173.1	153.9	137.5	124.8	114.9	108.3	106.3	106.3
37.5°	259.5	242.8	209.3	183.0	159.8	141.4	127.7	118.0	110.8	108.1	108.1
40°	276.9	257.9	220.4	191.1	165.1	144.5	130.2	120.4	112.5	110.3	109.7
42.5°	293.8	273.0	232.4	199.4	169.5	147.2	132.3	122.5	114.1	111.2	111.0
45°	311.5	288.1	243.8	206.2	173.1	148.9	133.4	123.8	116.0	112.3	111.8
47.5°	326.8	302.3	255.0	212.2	176.0	150.0	134.2	124.8	117.0	112.9	112.3
50°	342.1	315.1	264.4	217.1	177.5	150.6	134.4	125.1	117.8	112.9	112.3
52.5°	355.9	327.0	272.5	220.4	178.3	150.2	134.2	125.1	118.0	112.3	111.8
55°	367.3	336.6	278.2	222.6	178.3	149.4	133.4	124.5	117.8	111.8	111.0
57.5°	376.0	343.2	282.1	223.1	177.0	147.9	132.1	123.8	117.0	110.8	109.7
60°	381.1	346.8	283.4	221.8	175.0	146.1	130.6	122.7	116.3	109.2	108.3
62.5°	382.7	347.3	282.1	219.2	172.1	143.4	128.2	120.8	114.6	107.4	106.6
65°	380.1	344.5	278.4	215.0	168.3	140.4	125.8	118.8	112.9	105.3	104.6
67.5°	373.1	338.2	271.9	209.3	163.8	136.8	123.3	116.5	110.8	102.9	101.4
70°	362.6	328.9	263.7	202.2	158.7	132.9	120.0	113.6	107.9	100.3	98.8
72.5°	347.6	316.2	252.7	193.7	152.6	128.7	116.3	110.3	104.8	97.2	95.2
75°	329.4	299.8	239.8	184.8	146.4	123.8	112.3	106.6	101.2	93.6	91.8
77.5°	309.1	282.7	225.6	174.7	139.1	118.8	108.1	102.7	97.0	89.7	87.1
80°	287.1	262.6	210.4	164.3	132.3	113.3	103.5	98.3	92.6	85.5	82.7
82.5°	263.1	241.8	195.0	153.9	124.8	107.9	98.8	93.6	87.6	80.9	78.0
85°	239.8	220.4	178.8	142.7	117.6	102.1	93.6	88.4	82.9	75.9	73.3
87.5°	215.6	198.9	163.1	131.7	110.3	96.7	88.6	83.1	77.5	71.0	69.0
90°	194.5	178.6	148.1	121.4	102.7	90.6	83.5	77.7	72.3	66.0	64.3
92.5°	172.1	159.1	133.7	111.6	95.7	85.0	78.2	72.7	66.8	60.8	59.5
95°	152.9	142.2	120.4	101.6	88.2	79.5	73.1	67.3	61.4	55.6	54.8
97.5°	134.4	125.5	107.4	92.6	81.6	73.9	67.6	62.2	55.9	50.7	50.1
100°	118.0	110.3	95.7	84.2	74.7	68.4	62.6	57.0	50.7	45.8	45.8
102.5°	102.9	97.0	85.2	75.6	68.4	62.4	57.2	51.5	45.3	41.1	41.3
105°	90.6	85.0	75.4	68.1	62.2	56.7	51.8	46.0	40.0	36.7	36.9
107.5°	79.0	74.7	66.8	60.5	55.9	51.5	46.3	40.9	34.9	32.8	33.0
110°	69.0	65.5	59.3	54.1	50.5	46.3	41.6	35.8	30.4	29.2	29.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	60.1	57.2	52.6	48.4	44.7	41.3	36.4	31.2	26.0	25.4	25.4
115°	52.6	50.5	46.0	42.6	40.0	36.7	32.2	26.8	22.6	22.4	22.6
117.5°	46.0	44.2	40.5	37.7	35.4	32.2	28.1	22.8	19.2	19.4	19.7
120°	40.3	39.0	35.8	33.6	31.2	28.3	23.9	19.2	16.9	17.2	17.2
122.5°	35.6	34.3	31.6	29.4	27.4	24.5	20.5	16.2	14.5	15.1	15.1
125°	30.9	30.1	27.6	25.4	23.4	20.5	16.9	13.2	12.4	13.0	13.0
127.5°	26.8	26.2	24.1	21.9	19.7	17.2	13.7	10.9	10.7	11.2	11.2
130°	23.2	22.6	20.8	18.7	16.4	13.9	10.7	8.8	9.1	9.7	9.9
132.5°	19.7	19.4	17.7	15.3	13.2	10.9	8.3	7.3	7.7	8.3	8.3
135°	16.4	16.2	14.9	12.8	10.4	8.3	6.2	5.7	6.4	7.0	7.0
137.5°	13.5	13.0	11.9	9.9	7.7	6.0	4.4	4.7	5.3	5.7	5.7
140°	10.7	10.4	9.4	7.5	5.5	4.0	3.2	3.6	4.4	4.7	4.7
142.5°	7.7	7.7	6.8	5.3	3.4	2.3	2.0	2.6	3.4	3.6	3.6
145°	5.5	5.5	4.7	3.4	2.0	1.1	1.1	1.8	2.3	2.6	2.8
147.5°	3.6	3.4	2.8	2.0	1.1	0.2	0.5	1.3	1.5	1.8	1.8
150°	2.0	2.0	1.5	1.1	0.5	0.0	0.2	0.5	0.8	1.1	1.3
152.5°	0.8	0.8	0.5	0.2	0.2	0.0	0.0	0.0	0.2	0.5	0.5
155°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.0	0.2	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)