

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: P240145

Luminaire Tested: **UTLD-AF24-20-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
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-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.6 lumens
Efficiency: N/A
Efficacy: 94.2 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



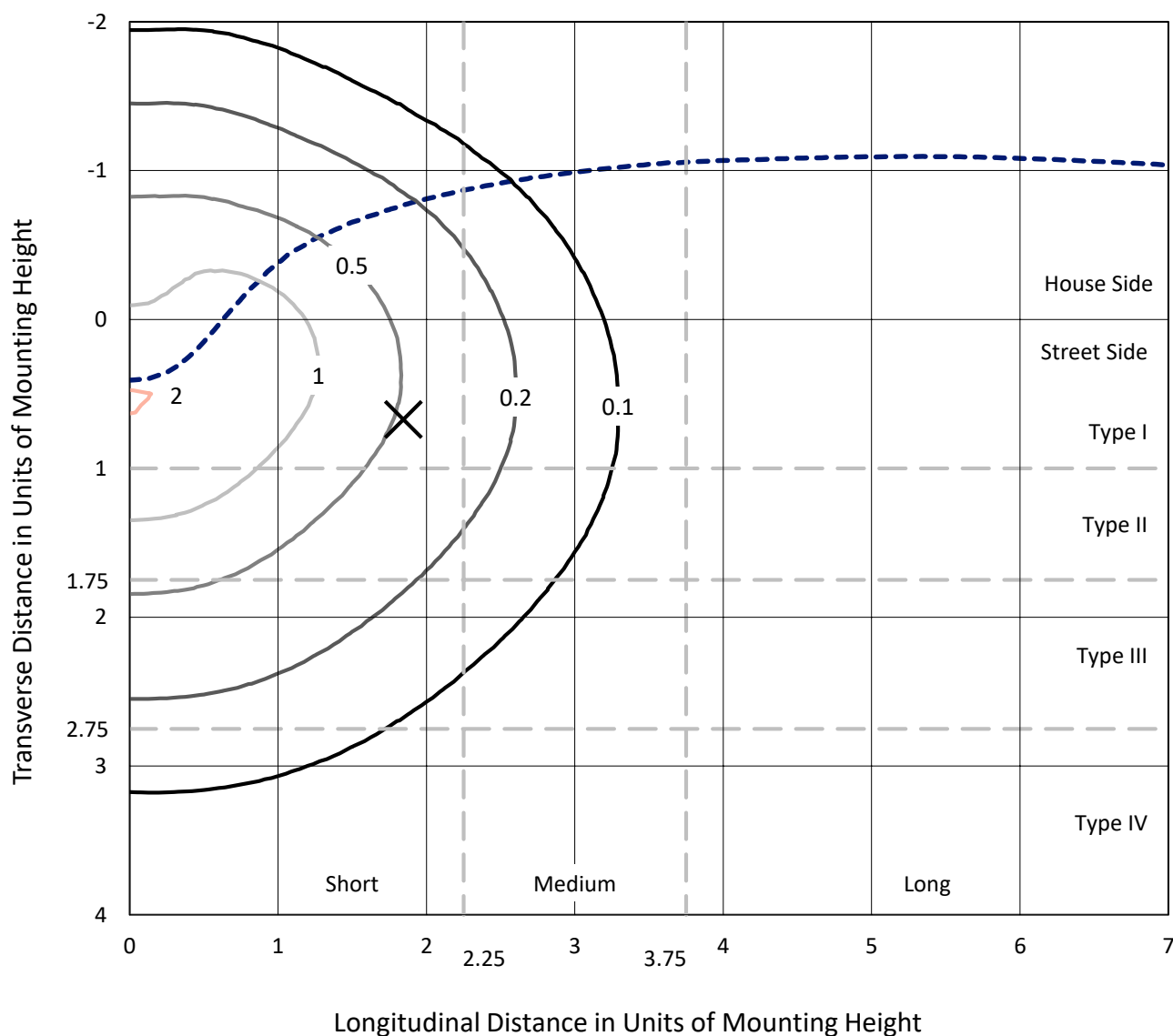
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

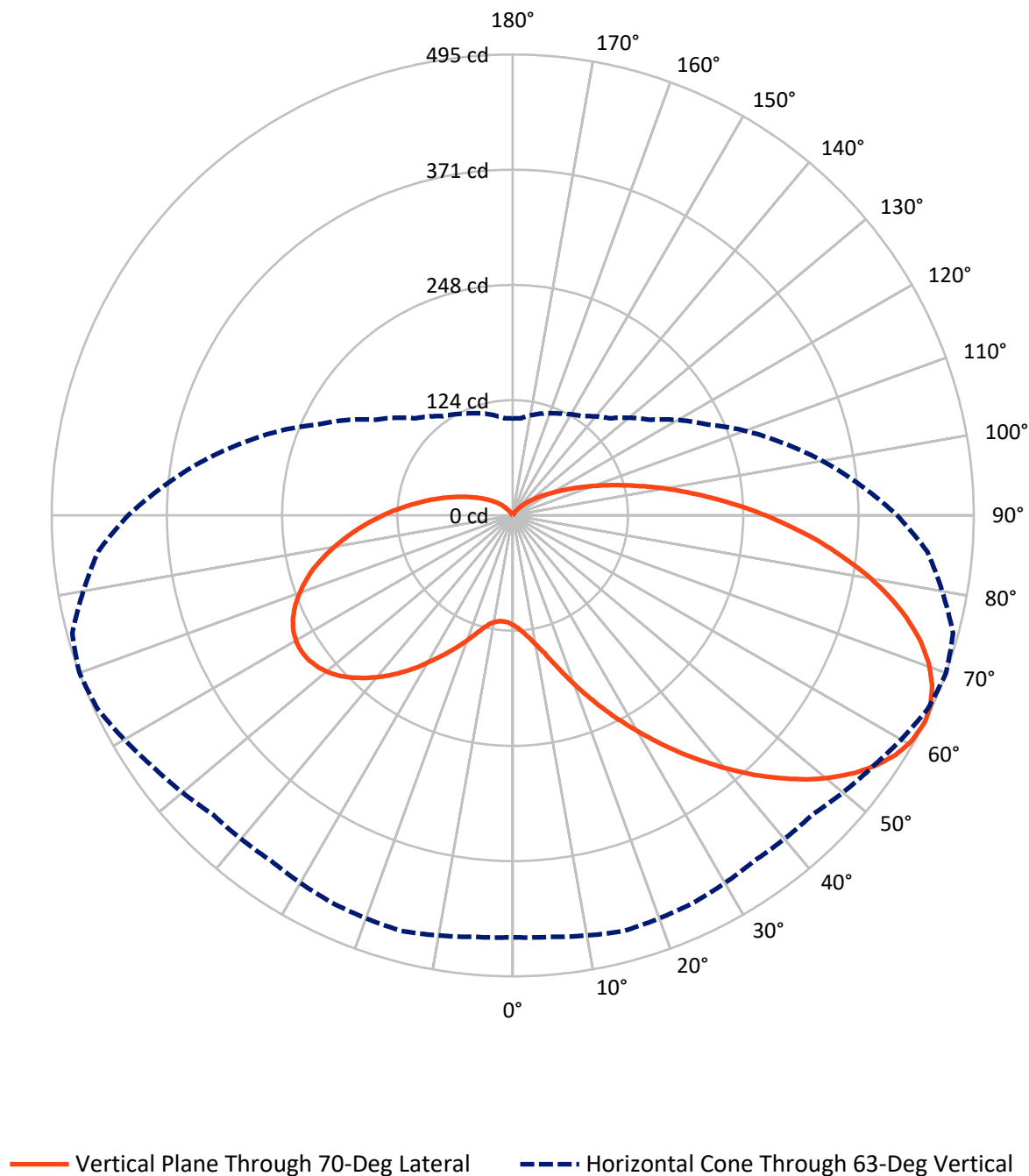


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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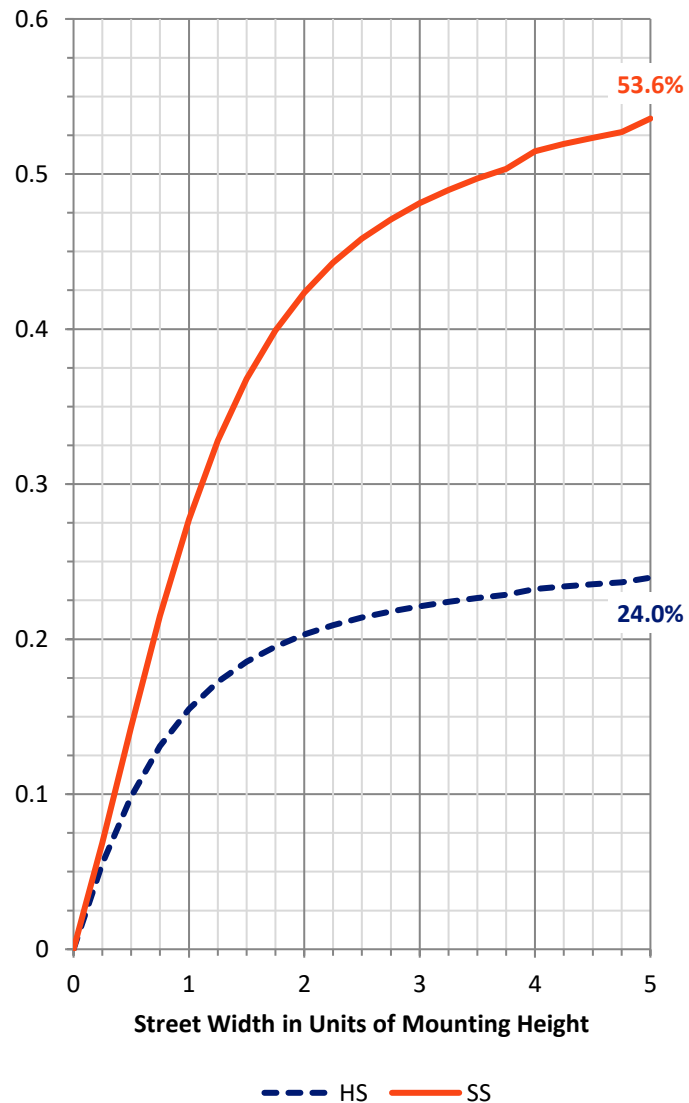
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.5	114.4	619.9
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1142.7	215.0	1357.7
	% Fixture	57.8	10.9	68.7
Total	Lumens	1648.2	329.4	1977.6
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.6
10°-20°	41.3	2.1
20°-30°	88.6	4.5
30°-40°	154.5	7.8
40°-50°	229.5	11.6
50°-60°	293.0	14.8
60°-70°	317.7	16.1
70°-80°	289.3	14.6
80°-90°	222.6	11.3
90°-100°	149.3	7.5
100°-110°	90.5	4.6
110°-120°	50.5	2.6
120°-130°	25.6	1.3
130°-140°	10.6	0.5
140°-150°	2.7	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1648.2	83.3
0°-180°	1977.6	100.0

Coefficient of Utilization



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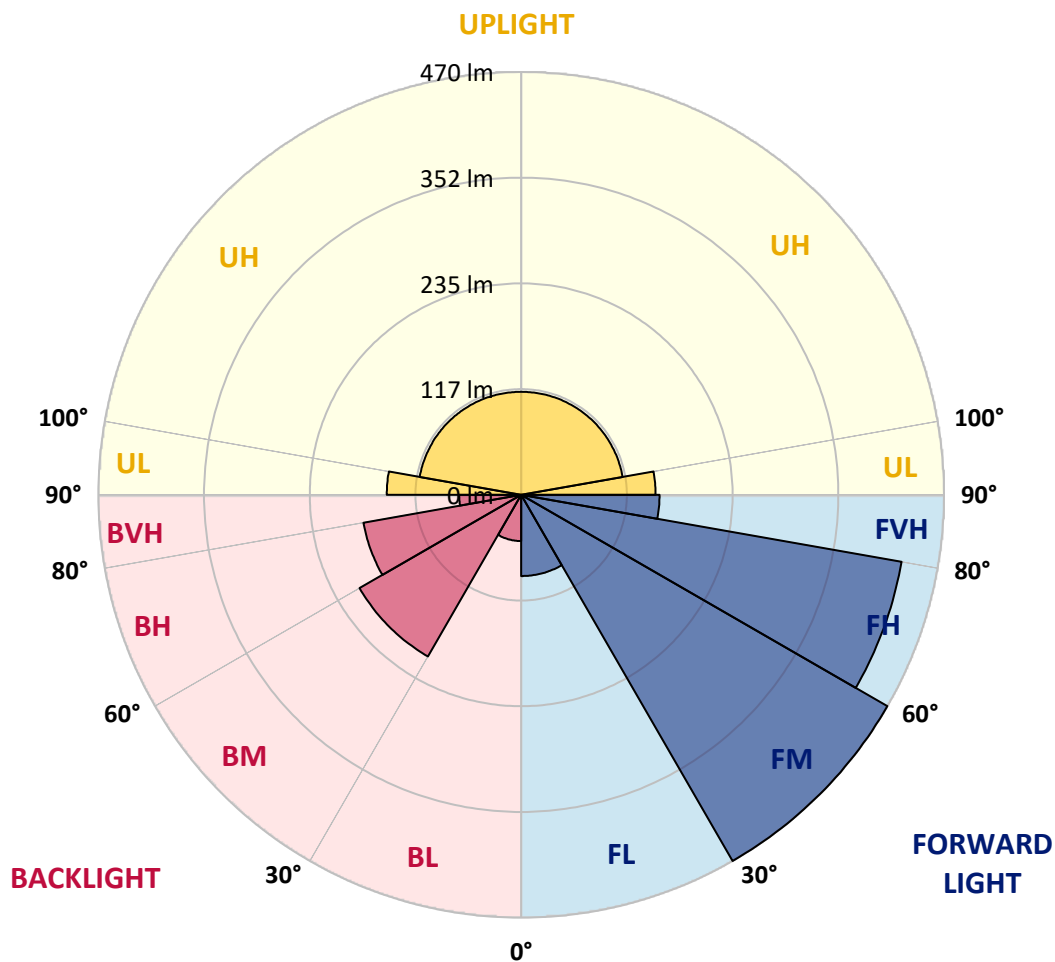
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.3	4.6			
FM	(30°-60°)	469.7	23.8			
FH	(60°-80°)	429.1	21.7			G0/660
FVH	(80°-90°)	153.7	7.8			G2/225
BL	(0°-30°)	51.4	2.6	B0/110		
BM	(30°-60°)	207.3	10.5	B0/220		
BH	(60°-80°)	177.9	9.0	B1/500		G1/500
BVH	(80°-90°)	68.9	3.5			G1/100
UL	(90°-100°)	149.3	7.5		U3/500	
UH	(100°-180°)	114.4	5.8		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	127.7	127.7	127.4	127.1	126.3	125.3	123.7	122.7	121.6	120.8	119.3
5°	138.5	139.1	138.0	137.5	135.7	133.7	131.2	128.4	127.1	125.3	122.2
7.5°	150.2	150.8	149.6	148.4	146.1	142.9	139.3	135.7	133.3	131.0	126.3
10°	163.3	163.5	162.2	160.6	157.8	153.8	150.0	144.5	141.9	138.8	132.5
12.5°	177.8	177.3	176.2	173.6	170.2	166.1	160.9	155.4	151.8	148.1	140.4
15°	194.5	194.2	192.4	189.2	185.0	180.4	174.2	168.2	164.6	160.6	151.4
17.5°	211.9	211.3	209.6	205.9	201.5	195.5	190.7	183.8	179.4	175.2	164.6
20°	229.2	229.0	227.7	223.6	218.6	213.9	207.7	200.4	196.0	190.2	178.1
22.5°	249.3	248.4	246.4	242.8	238.6	234.0	227.5	218.3	213.4	207.9	193.4
25°	269.4	269.0	266.5	262.6	259.2	253.9	247.7	237.1	232.1	224.6	209.0
27.5°	290.1	289.5	287.1	282.8	280.2	275.3	267.4	257.1	251.1	243.8	226.3
30°	311.7	311.4	308.3	304.2	301.2	296.6	288.6	277.3	271.4	263.4	243.8
32.5°	333.2	333.2	330.1	326.4	323.1	317.1	309.5	299.0	292.4	283.8	262.0
35°	355.8	354.5	352.3	348.9	343.4	337.4	330.6	321.0	314.2	305.0	281.8
37.5°	377.2	377.2	373.2	370.4	364.4	357.8	351.5	343.4	335.9	326.8	301.0
40°	398.2	398.5	394.9	391.2	383.4	377.2	371.7	365.3	358.5	349.1	322.1
42.5°	418.5	418.0	414.6	410.5	401.8	394.9	391.4	386.0	381.1	371.2	342.3
45°	437.2	436.0	433.3	428.4	418.5	411.5	410.2	407.5	402.4	393.6	362.8
47.5°	451.8	451.0	449.9	443.5	433.3	426.5	426.5	427.6	423.7	414.6	382.1
50°	463.7	463.5	462.9	455.7	444.8	439.6	441.6	445.2	442.7	434.7	399.3
52.5°	471.8	471.6	472.3	464.8	454.1	449.4	454.4	461.6	459.6	452.4	415.6
55°	474.9	474.9	477.3	470.3	459.6	455.9	464.1	474.0	473.8	467.4	428.1
57.5°	473.6	473.8	478.0	471.6	461.6	459.6	470.3	484.0	485.0	478.5	438.5
60°	467.6	467.8	473.6	468.6	460.1	459.6	473.1	490.0	492.1	486.3	444.4
62.5°	456.1	457.2	464.3	461.1	454.1	455.9	472.0	491.7	494.6	489.2	446.9
63°	453.1	454.4	461.9	459.0	452.6	454.6	471.2	491.7	495.0	489.5	446.9
65°	440.4	441.9	450.4	449.2	444.4	448.4	466.9	488.9	492.9	488.0	444.4
67.5°	419.8	423.0	432.7	433.9	431.5	437.5	457.8	481.7	485.7	481.2	437.5
70°	395.1	398.8	411.5	414.6	414.1	423.0	444.4	469.5	473.8	469.2	425.6
72.5°	368.6	373.5	385.2	392.0	395.4	405.1	428.1	452.8	457.2	452.4	409.6
75°	339.7	344.9	359.5	367.7	373.0	384.9	407.9	432.5	436.4	432.5	389.6
77.5°	310.9	316.1	330.9	341.6	349.6	364.0	386.6	409.1	412.0	407.9	366.2
80°	281.3	287.3	301.5	314.0	324.9	339.2	361.1	381.6	384.9	379.4	341.0
82.5°	251.9	257.1	273.1	287.8	299.5	313.8	334.6	353.8	355.3	349.8	313.2
85°	225.4	229.8	245.7	261.2	275.0	289.1	308.3	323.6	325.9	318.9	285.7
87.5°	200.4	203.8	220.3	235.8	249.7	265.4	282.6	294.8	294.8	289.3	256.9
90°	177.3	179.6	194.7	211.6	226.7	240.5	256.5	266.9	265.6	259.0	229.8
92.5°	154.9	157.8	172.6	188.7	204.1	218.3	231.3	238.4	236.5	229.6	203.8
95°	136.5	137.7	152.3	169.0	183.0	196.0	207.5	212.4	209.6	202.4	178.1
97.5°	119.5	120.6	133.3	149.2	164.3	176.2	184.0	187.2	184.3	177.3	157.0
100°	105.8	106.1	117.5	132.9	146.9	157.3	164.3	164.3	161.7	154.7	136.2
102.5°	92.4	92.8	102.1	117.5	130.8	139.9	145.4	144.8	140.1	133.1	118.2
105°	81.4	81.8	89.1	104.1	116.0	124.2	128.7	125.5	121.2	114.9	102.3
107.5°	71.8	72.0	77.7	91.0	102.3	110.3	112.5	109.2	104.3	98.3	89.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	64.3	63.9	68.4	79.8	90.6	97.2	98.6	94.4	89.4	84.4	77.2
112.5°	57.0	57.0	59.8	69.4	79.5	85.8	86.4	80.3	76.2	71.8	67.0
115°	51.0	50.7	52.8	60.3	69.7	74.9	74.3	68.9	65.0	61.3	58.2
117.5°	45.8	45.3	46.8	52.0	60.5	65.5	64.3	58.0	55.0	52.6	50.7
120°	41.1	40.9	41.6	45.3	52.0	55.9	54.6	49.1	46.6	45.3	44.1
122.5°	36.9	36.9	36.6	39.0	44.1	47.3	45.5	41.1	39.6	38.7	38.7
125°	33.4	33.4	32.8	33.6	36.9	39.6	37.9	34.3	33.4	33.4	33.6
127.5°	29.6	29.6	29.1	28.9	30.4	32.2	30.4	28.3	28.1	28.3	28.9
130°	26.2	26.0	25.4	24.5	24.7	25.4	24.1	23.2	23.4	24.1	24.7
132.5°	23.2	22.8	22.1	20.5	19.4	19.4	18.5	18.5	19.2	20.0	21.1
135°	20.0	19.7	19.0	17.2	15.3	14.3	13.5	14.5	15.7	16.4	17.4
137.5°	16.9	16.6	15.7	13.7	11.5	9.9	9.7	11.2	12.2	13.2	13.9
140°	13.7	13.5	12.4	10.7	8.0	6.2	6.2	8.3	9.4	10.2	11.2
142.5°	10.9	10.7	9.9	7.7	5.3	4.0	4.2	6.0	6.8	7.5	8.3
145°	8.0	8.0	7.3	5.5	3.2	1.8	2.3	4.0	4.7	5.3	6.0
147.5°	5.5	5.5	4.7	3.4	1.8	0.8	1.1	2.3	2.8	3.4	4.0
150°	3.4	3.4	2.8	1.8	0.8	0.0	0.5	1.1	1.5	1.8	2.3
152.5°	1.8	1.8	1.3	0.8	0.2	0.0	0.0	0.5	0.5	0.8	1.1
155°	0.8	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.0	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°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	118.5	117.8	116.0	114.6	113.1	111.8	111.0	109.7	108.9	109.2	108.9
5°	120.6	119.1	115.7	112.9	109.7	107.1	105.0	103.1	102.1	101.4	101.6
7.5°	124.0	121.6	116.7	112.0	107.4	103.5	100.3	98.0	95.9	95.4	95.2
10°	129.2	126.0	119.1	112.9	106.8	101.4	97.2	93.9	91.8	90.6	90.6
12.5°	136.5	132.1	123.3	114.9	107.4	100.6	95.4	91.2	88.9	87.9	87.6
15°	146.6	141.2	130.2	119.1	109.5	101.4	95.2	91.0	89.1	88.6	88.4
17.5°	158.3	152.3	138.8	125.7	113.6	103.5	97.5	94.1	92.0	91.0	90.6
20°	171.5	163.8	148.4	133.3	119.5	108.9	102.1	97.5	94.8	93.5	93.3
22.5°	185.0	176.5	158.9	141.4	126.3	116.5	106.8	101.1	97.5	95.9	95.4
25°	199.6	190.0	169.5	150.0	134.6	123.5	112.5	104.3	100.1	98.3	98.3
27.5°	215.2	204.1	180.6	158.9	143.2	130.0	118.0	107.6	102.7	100.6	100.3
30°	231.6	219.2	192.1	168.5	151.4	135.9	122.7	111.2	105.3	102.9	102.7
32.5°	249.3	235.0	204.9	178.8	158.9	141.4	126.8	114.6	107.6	104.8	104.5
35°	266.7	250.5	216.8	189.0	165.5	146.1	130.2	118.0	109.5	106.5	106.3
37.5°	285.9	267.2	229.6	198.9	171.9	149.6	133.1	120.6	111.2	108.1	107.6
40°	304.4	283.6	241.5	207.7	177.0	153.1	135.5	122.9	112.9	109.5	108.9
42.5°	322.6	300.3	253.5	216.0	181.5	155.1	137.0	124.5	114.4	110.5	109.7
45°	340.8	315.9	265.6	222.8	184.8	157.0	138.0	125.7	115.7	111.0	110.5
47.5°	357.8	331.2	276.9	228.8	187.2	157.8	138.5	126.3	116.7	111.2	110.5
50°	373.7	344.3	286.2	233.2	188.7	157.8	138.5	126.6	117.2	111.2	110.7
52.5°	387.9	355.8	293.7	236.0	189.0	157.0	137.7	126.3	117.2	110.7	110.0
55°	398.5	365.3	299.2	237.3	188.2	155.7	136.5	125.5	117.0	110.0	109.2
57.5°	407.1	371.7	302.5	237.1	186.4	153.6	134.9	124.5	116.2	108.6	107.8
60°	412.2	375.1	303.0	235.2	183.8	151.0	132.9	122.9	115.2	107.4	106.3
62.5°	413.0	374.9	301.2	231.6	179.8	147.9	130.2	120.8	113.3	105.3	104.3
63°	412.8	374.5	300.3	230.9	179.0	147.4	130.0	120.6	113.1	104.8	104.1
65°	409.9	371.5	296.3	226.7	175.5	144.2	127.7	118.5	111.6	103.1	101.9
67.5°	402.4	364.4	289.1	219.6	170.0	140.1	124.2	116.0	108.9	100.6	99.3
70°	390.9	354.5	279.1	211.9	164.3	135.7	120.6	112.5	106.1	97.8	96.1
72.5°	375.7	340.3	267.6	202.7	157.6	130.8	116.5	108.9	102.3	94.6	92.4
75°	357.2	323.6	255.0	192.9	150.2	125.5	112.3	105.3	98.8	91.0	88.6
77.5°	335.1	304.7	239.2	182.5	143.2	120.0	107.6	100.8	94.6	86.9	84.4
80°	311.4	283.6	223.3	170.8	135.5	114.4	102.9	96.1	89.9	82.7	79.8
82.5°	286.5	261.0	206.4	159.6	127.7	108.3	98.0	91.2	85.2	78.2	75.6
85°	261.2	238.4	190.0	148.4	119.5	102.7	92.8	86.6	80.1	73.3	70.7
87.5°	236.3	216.3	174.2	136.7	112.0	96.9	87.6	81.4	74.9	68.4	66.3
90°	212.4	194.9	157.6	125.7	104.3	90.6	82.4	76.2	69.9	63.4	61.3
92.5°	188.5	173.4	142.5	116.0	96.9	85.0	77.2	70.9	64.5	58.2	57.0
95°	167.1	154.2	128.2	105.3	89.9	79.5	72.0	66.0	59.2	53.3	52.6
97.5°	147.2	135.9	114.0	96.1	82.9	73.5	66.7	60.5	53.7	48.4	47.8
100°	129.2	120.0	102.1	86.9	75.9	68.1	61.8	55.6	48.8	44.1	43.7
102.5°	112.9	105.6	91.0	78.4	69.7	62.6	56.4	50.5	43.9	39.8	39.8
105°	98.8	92.4	80.7	70.7	63.2	57.0	51.3	45.3	38.7	35.4	35.4
107.5°	85.5	81.1	71.4	63.2	57.2	51.7	46.2	40.3	34.1	31.4	31.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	74.7	70.9	63.0	56.7	51.7	46.8	41.6	35.6	29.6	27.9	28.1
112.5°	65.0	62.2	55.4	50.5	46.2	42.1	36.9	30.9	25.7	24.7	24.9
115°	56.7	54.3	49.1	44.7	41.3	37.4	32.8	26.8	22.4	21.9	21.9
117.5°	49.3	47.5	43.1	39.8	36.6	33.4	28.6	23.2	19.2	19.2	19.2
120°	43.3	41.8	38.2	35.1	32.4	29.1	24.7	19.4	16.6	16.9	16.9
122.5°	37.7	36.6	33.4	30.9	28.3	25.4	21.1	16.2	14.3	14.9	15.1
125°	33.0	32.0	29.4	26.8	24.5	21.6	17.4	13.5	12.4	13.0	13.0
127.5°	28.3	27.9	25.4	23.2	21.1	18.2	14.3	11.2	10.9	11.5	11.5
130°	24.5	23.9	22.1	19.4	17.4	14.9	11.5	9.1	9.1	9.7	9.7
132.5°	20.8	20.5	18.7	16.4	14.3	11.7	9.1	7.3	7.7	8.3	8.3
135°	17.2	17.2	15.7	13.2	11.2	8.8	6.8	6.0	6.4	7.0	7.0
137.5°	13.9	13.7	12.4	10.4	8.3	6.4	4.9	4.7	5.5	6.0	6.0
140°	11.2	10.9	9.9	8.0	6.0	4.4	3.4	3.6	4.4	4.7	4.9
142.5°	8.3	8.3	7.3	6.0	4.0	2.6	2.0	2.8	3.4	3.6	4.0
145°	6.0	6.0	5.3	4.0	2.3	1.3	1.3	2.0	2.6	2.8	2.8
147.5°	4.0	4.0	3.4	2.3	1.3	0.5	0.8	1.3	1.8	2.0	2.0
150°	2.3	2.0	1.8	1.1	0.5	0.0	0.2	0.5	1.1	1.3	1.1
152.5°	1.1	1.1	0.8	0.5	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°	0.0	0.0	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)