

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: P240154

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240154
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2091.9 lumens
Efficiency: N/A
Efficacy: 99.6 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



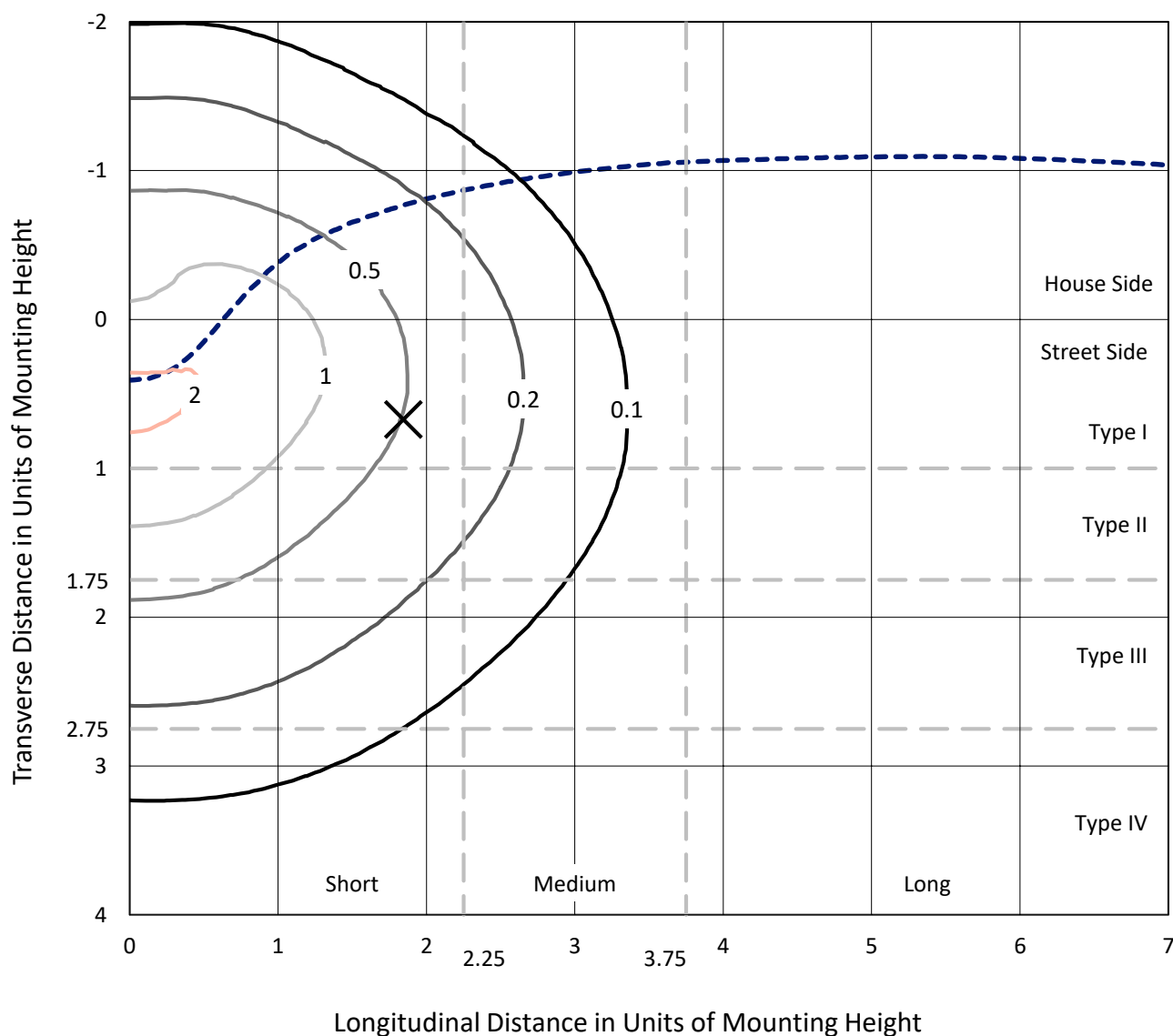
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

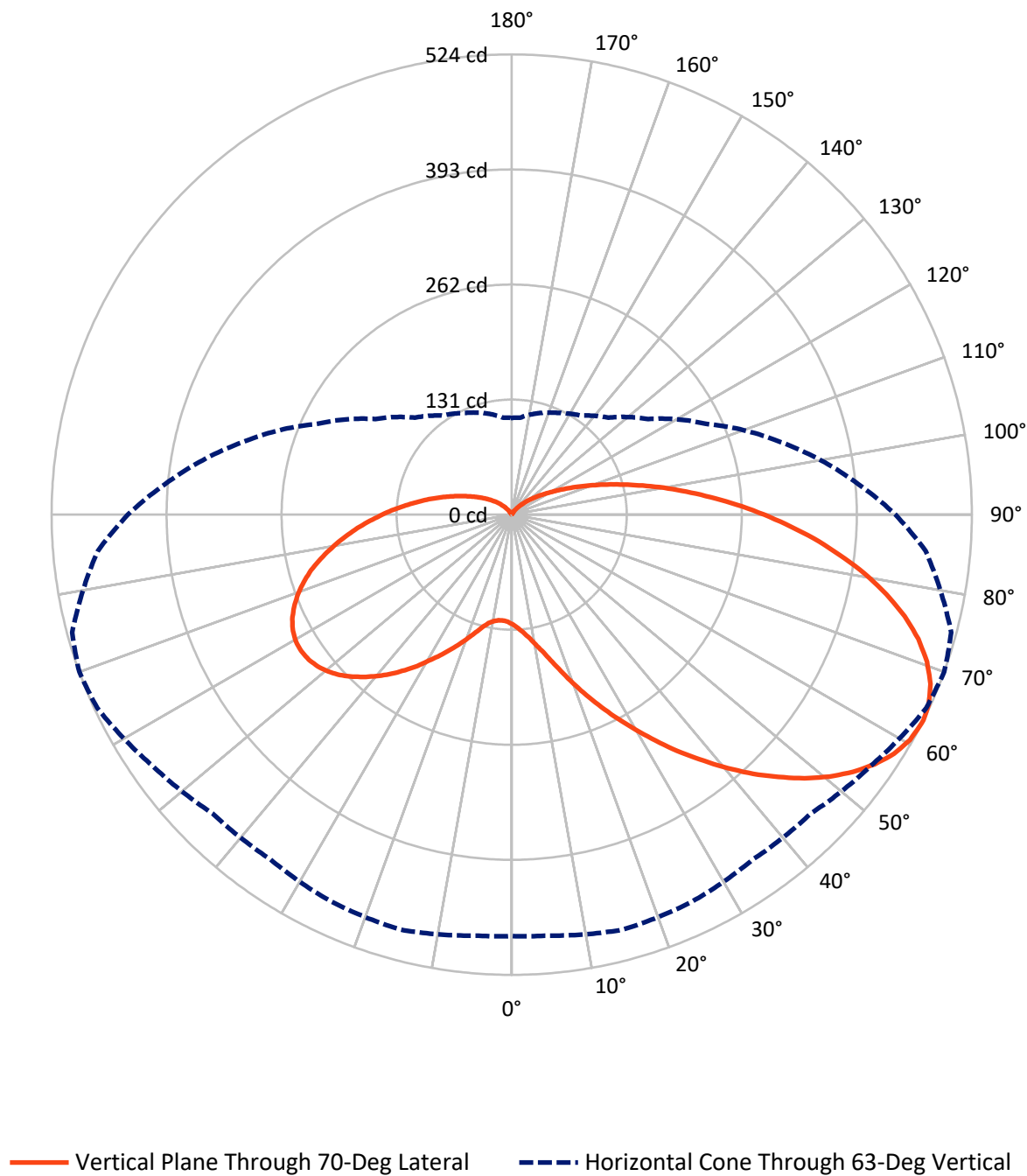


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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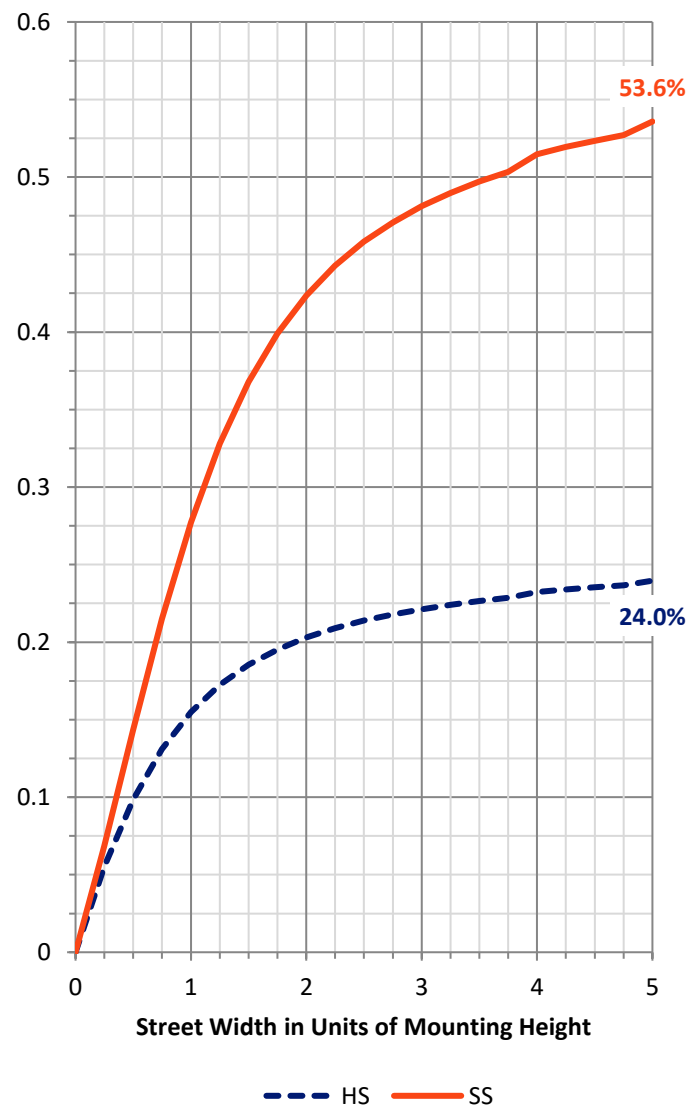
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	534.7	121.0	655.8
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1208.8	227.4	1436.2
	% Fixture	57.8	10.9	68.7
Total	Lumens	1743.5	348.4	2091.9
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.6
10°-20°	43.6	2.1
20°-30°	93.8	4.5
30°-40°	163.4	7.8
40°-50°	242.8	11.6
50°-60°	310.0	14.8
60°-70°	336.1	16.1
70°-80°	306.0	14.6
80°-90°	235.4	11.3
90°-100°	157.9	7.5
100°-110°	95.7	4.6
110°-120°	53.4	2.6
120°-130°	27.1	1.3
130°-140°	11.2	0.5
140°-150°	2.9	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1743.5	83.3
0°-180°	2091.9	100.0

Coefficient of Utilization



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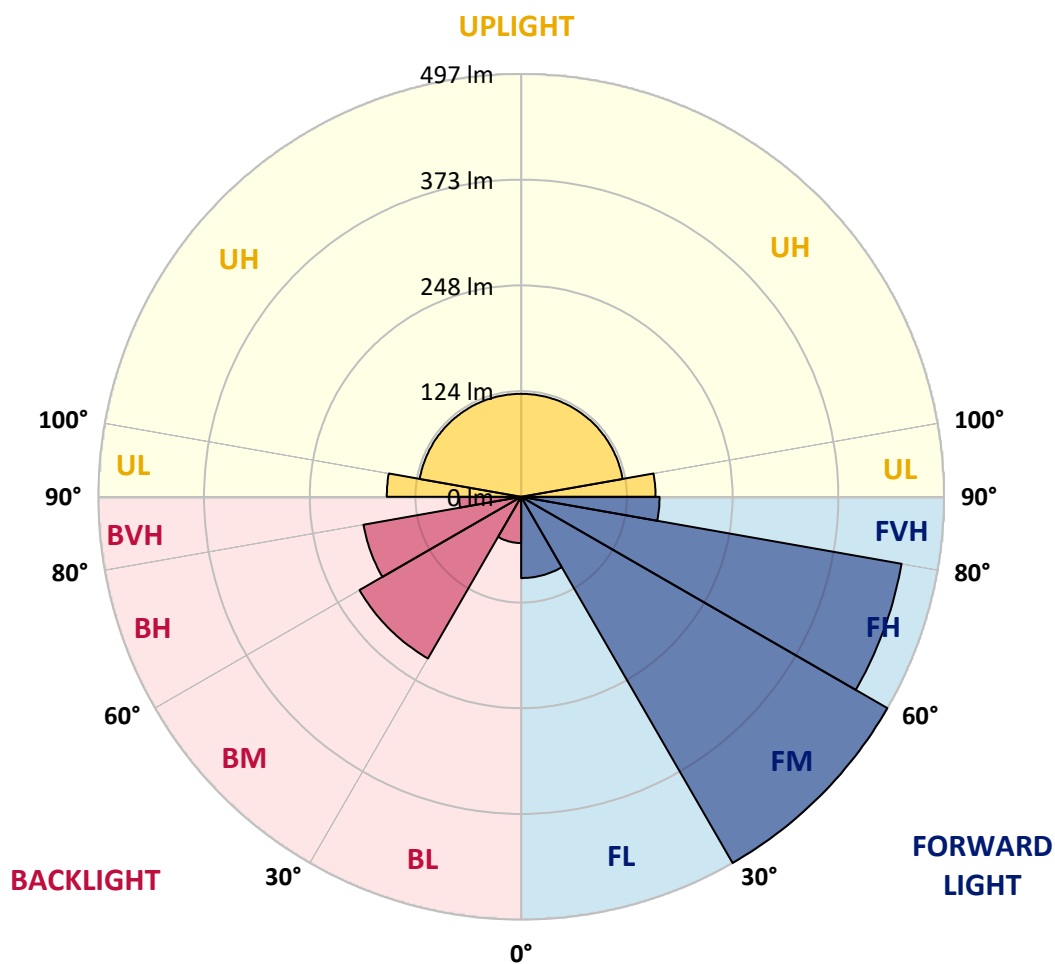
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.5	4.6			
FM	(30°-60°)	496.8	23.8			
FH	(60°-80°)	453.9	21.7			G0/660
FVH	(80°-90°)	162.5	7.8			G2/225
BL	(0°-30°)	54.3	2.6	B0/110		
BM	(30°-60°)	219.3	10.5	B0/220		
BH	(60°-80°)	188.2	9.0	B1/500		G1/500
BVH	(80°-90°)	72.9	3.5			G1/100
UL	(90°-100°)	157.9	7.5		U3/500	
UH	(100°-180°)	121.0	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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	135.0	135.0	134.7	134.4	133.6	132.6	130.8	129.8	128.7	127.9	126.2
5°	146.6	147.1	146.0	145.5	143.5	141.4	138.8	135.8	134.4	132.6	129.2
7.5°	159.0	159.5	158.4	157.0	154.6	151.2	147.4	143.5	141.1	138.6	133.6
10°	172.7	173.0	171.5	169.9	166.9	162.8	158.7	152.9	150.2	146.8	140.2
12.5°	188.1	187.5	186.4	183.7	180.1	175.7	170.2	164.4	160.6	156.7	148.5
15°	205.7	205.4	203.5	200.2	195.8	190.8	184.2	177.9	174.0	169.9	160.0
17.5°	224.1	223.5	221.7	217.8	213.1	206.7	201.8	194.4	189.8	185.4	174.0
20°	242.5	242.2	240.9	236.5	231.3	226.3	219.7	212.0	207.4	201.3	188.3
22.5°	263.7	262.9	260.6	256.9	252.5	247.5	240.6	231.0	225.8	219.9	204.6
25°	284.9	284.6	281.8	277.7	274.2	268.6	262.1	250.7	245.5	237.5	221.1
27.5°	306.9	306.3	303.6	299.2	296.5	291.2	282.9	271.9	265.7	257.9	239.5
30°	329.7	329.4	326.1	321.7	318.6	313.7	305.2	293.4	287.0	278.5	257.9
32.5°	352.5	352.5	349.2	345.3	341.8	335.4	327.4	316.2	309.3	300.2	277.1
35°	376.4	375.0	372.6	369.0	363.2	356.9	349.7	339.6	332.5	322.5	298.1
37.5°	399.0	399.0	394.9	391.8	385.6	378.4	371.7	363.2	355.3	345.7	318.4
40°	421.3	421.6	417.7	413.8	405.6	399.0	393.2	386.4	379.2	369.3	340.6
42.5°	442.7	442.1	438.5	434.1	425.1	417.7	414.1	408.4	403.1	392.6	362.1
45°	462.5	461.1	458.4	453.2	442.7	435.3	433.9	431.2	425.6	416.3	383.8
47.5°	477.9	477.1	476.0	469.1	458.4	451.2	451.2	452.3	448.2	438.5	404.2
50°	490.5	490.3	489.7	482.0	470.5	464.9	467.2	471.0	468.3	459.7	422.4
52.5°	499.1	498.8	499.6	491.6	480.4	475.4	480.7	488.4	486.1	478.4	439.7
55°	502.4	502.4	504.8	497.5	486.1	482.3	490.8	501.6	501.2	494.4	452.9
57.5°	500.9	501.2	505.6	498.8	488.4	486.1	497.5	512.0	513.1	506.3	463.9
60°	494.7	494.9	500.9	495.7	486.7	486.1	500.4	518.3	520.5	514.4	470.1
62.5°	482.5	483.7	491.1	487.7	480.4	482.3	499.3	520.3	523.2	517.5	472.7
63°	479.3	480.7	488.7	485.6	478.7	480.9	498.5	520.3	523.5	517.7	472.7
65°	465.7	467.5	476.5	475.2	470.1	474.3	493.9	517.2	521.3	516.1	470.1
67.5°	444.1	447.3	457.8	458.9	456.4	462.8	484.3	509.5	513.9	508.9	462.8
70°	418.0	421.8	435.3	438.5	438.0	447.3	470.1	496.5	501.2	496.3	450.1
72.5°	389.9	395.2	407.5	414.6	418.2	428.4	452.9	478.9	483.7	478.4	433.3
75°	359.4	364.9	380.2	389.0	394.6	407.2	431.4	457.6	461.7	457.6	412.1
77.5°	328.9	334.4	350.1	361.3	369.8	384.9	408.9	432.8	435.8	431.4	387.4
80°	297.5	303.8	319.0	332.2	343.7	358.9	382.0	403.7	407.2	401.4	360.8
82.5°	266.5	271.9	289.0	304.4	316.8	331.8	353.8	374.2	375.8	370.1	331.3
85°	238.3	243.1	259.8	276.3	290.9	305.8	326.1	342.4	344.8	337.4	302.2
87.5°	212.0	215.5	233.1	249.4	264.2	280.7	298.9	311.8	311.8	306.1	271.7
90°	187.5	190.0	205.9	223.8	239.8	254.3	271.4	282.4	281.0	273.8	243.1
92.5°	163.9	166.9	182.6	199.6	215.8	231.0	244.7	252.2	250.2	242.7	215.5
95°	144.3	145.8	161.1	178.7	193.5	207.4	219.4	224.6	221.7	214.2	188.3
97.5°	126.4	127.6	141.1	157.8	173.8	186.4	194.7	197.9	195.0	187.5	166.1
100°	111.9	112.2	124.3	140.6	155.4	166.3	173.8	173.8	171.0	163.6	144.0
102.5°	97.6	98.2	108.0	124.3	138.3	147.9	153.7	153.1	148.2	140.8	125.1
105°	86.0	86.6	94.3	110.0	122.7	131.4	136.2	132.8	128.2	121.5	108.3
107.5°	75.9	76.2	82.2	96.3	108.3	116.6	119.1	115.5	110.3	103.9	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	67.9	67.6	72.3	84.4	96.0	102.8	104.2	99.8	94.6	89.4	81.6
112.5°	60.3	60.3	63.2	73.4	84.2	90.7	91.2	85.0	80.6	75.9	70.9
115°	53.9	53.6	55.9	63.8	73.7	79.2	78.7	72.8	68.7	64.9	61.6
117.5°	48.4	47.9	49.5	55.0	64.0	69.3	67.9	61.3	58.3	55.5	53.6
120°	43.5	43.2	44.0	47.9	55.0	59.1	57.7	52.0	49.2	47.9	46.7
122.5°	39.1	39.1	38.8	41.2	46.7	50.0	48.1	43.5	41.8	41.0	41.0
125°	35.2	35.2	34.7	35.5	39.1	41.8	40.1	36.3	35.2	35.2	35.5
127.5°	31.3	31.3	30.8	30.5	32.1	34.1	32.1	30.0	29.7	30.0	30.5
130°	27.7	27.5	26.9	25.9	26.1	26.9	25.6	24.4	24.8	25.6	26.1
132.5°	24.4	24.2	23.3	21.7	20.7	20.7	19.5	19.5	20.4	21.2	22.3
135°	21.2	20.9	20.0	18.1	16.3	15.1	14.3	15.4	16.5	17.3	18.4
137.5°	17.9	17.6	16.5	14.5	12.1	10.4	10.1	11.9	12.9	14.0	14.8
140°	14.5	14.3	13.2	11.3	8.5	6.6	6.6	8.8	9.9	10.7	11.9
142.5°	11.6	11.3	10.4	8.3	5.5	4.1	4.4	6.3	7.2	8.0	8.8
145°	8.5	8.5	7.7	5.7	3.3	1.9	2.5	4.1	4.9	5.5	6.3
147.5°	5.7	5.7	4.9	3.6	1.9	0.8	1.1	2.5	3.1	3.6	4.1
150°	3.6	3.6	3.1	1.9	0.8	0.0	0.5	1.1	1.6	1.9	2.5
152.5°	1.9	1.9	1.3	0.8	0.3	0.0	0.0	0.5	0.5	0.8	1.1
155°	0.8	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	125.4	124.6	122.7	121.2	119.6	118.3	117.4	116.0	115.2	115.5	115.2
5°	127.6	125.9	122.3	119.4	116.0	113.2	111.1	109.1	108.0	107.2	107.5
7.5°	131.1	128.7	123.5	118.6	113.5	109.5	106.2	103.6	101.5	100.9	100.7
10°	136.7	133.4	125.9	119.4	113.0	107.2	102.8	99.2	97.1	96.0	96.0
12.5°	144.3	139.6	130.3	121.5	113.5	106.4	100.9	96.5	94.0	93.0	92.7
15°	155.1	149.4	137.8	125.9	115.8	107.2	100.7	96.3	94.3	93.8	93.5
17.5°	167.5	161.1	146.8	133.1	120.2	109.5	103.1	99.5	97.4	96.3	96.0
20°	181.5	173.2	157.0	141.1	126.4	115.2	108.0	103.1	100.4	99.0	98.7
22.5°	195.8	186.7	168.0	149.6	133.6	123.2	113.0	107.0	103.1	101.5	100.9
25°	211.1	201.0	179.3	158.7	142.4	130.6	119.1	110.3	105.9	103.9	103.9
27.5°	227.7	215.8	191.1	168.0	151.5	137.5	124.8	113.9	108.6	106.4	106.2
30°	245.0	231.8	203.2	178.2	160.0	143.8	129.8	117.6	111.4	108.8	108.6
32.5°	263.7	248.6	216.7	189.1	168.0	149.6	134.2	121.2	113.9	110.8	110.6
35°	282.1	265.0	229.3	199.9	175.1	154.6	137.8	124.8	115.8	112.7	112.4
37.5°	302.5	282.6	242.7	210.3	181.8	158.4	140.8	127.6	117.6	114.4	113.9
40°	322.0	300.0	255.4	219.7	187.3	161.9	143.2	130.0	119.4	115.8	115.2
42.5°	341.3	317.6	268.1	228.5	191.9	164.2	145.0	131.8	121.0	116.8	116.0
45°	360.5	334.1	281.0	235.7	195.5	166.1	146.0	133.1	122.3	117.4	116.8
47.5°	378.4	350.3	292.9	241.9	197.9	166.9	146.6	133.6	123.5	117.6	116.8
50°	395.4	364.4	302.7	246.6	199.6	166.9	146.6	133.9	124.0	117.6	117.1
52.5°	410.2	376.4	310.7	249.7	199.9	166.1	145.8	133.6	124.0	117.1	116.3
55°	421.6	386.4	316.5	251.0	199.1	164.7	144.3	132.8	123.8	116.3	115.5
57.5°	430.6	393.2	320.1	250.7	197.1	162.5	142.7	131.8	123.0	115.0	114.2
60°	436.1	396.8	320.6	248.9	194.4	159.8	140.6	130.0	121.8	113.5	112.4
62.5°	436.9	396.5	318.6	245.0	190.3	156.4	137.8	127.9	119.9	111.4	110.3
63°	436.6	396.2	317.6	244.2	189.5	155.9	137.5	127.6	119.6	110.8	110.0
65°	433.6	392.9	313.4	239.8	185.6	152.6	135.0	125.4	117.9	109.1	107.8
67.5°	425.6	385.6	305.8	232.3	179.8	148.2	131.4	122.7	115.2	106.4	105.1
70°	413.6	375.0	295.3	224.1	173.8	143.5	127.6	119.1	112.2	103.4	101.8
72.5°	397.3	360.0	283.3	214.5	166.6	138.3	123.2	115.2	108.3	100.0	97.6
75°	377.8	342.4	269.8	204.0	159.0	132.8	118.8	111.4	104.4	96.3	93.8
77.5°	354.5	322.2	253.0	193.0	151.5	127.1	113.9	106.7	100.0	91.9	89.4
80°	329.4	300.0	236.2	180.7	143.2	121.0	108.8	101.8	95.1	87.5	84.4
82.5°	303.0	276.1	218.3	168.8	135.0	114.7	103.6	96.5	90.2	82.8	80.0
85°	276.3	252.2	201.0	157.0	126.4	108.6	98.2	91.6	84.7	77.5	74.8
87.5°	249.9	228.7	184.2	144.6	118.6	102.6	92.7	86.0	79.2	72.3	70.1
90°	224.6	206.2	166.6	133.1	110.3	96.0	87.2	80.6	74.0	67.1	64.9
92.5°	199.4	183.4	150.7	122.7	102.6	89.9	81.6	75.1	68.2	61.6	60.3
95°	176.8	163.1	135.5	111.4	95.1	84.2	76.2	69.9	62.7	56.4	55.5
97.5°	155.6	143.8	120.7	101.8	87.7	77.8	70.7	64.0	56.9	51.1	50.6
100°	136.7	127.1	108.0	91.9	80.3	72.0	65.5	58.8	51.7	46.7	46.2
102.5°	119.4	111.6	96.3	83.1	73.7	66.3	59.6	53.3	46.4	42.0	42.0
105°	104.4	97.6	85.2	74.8	66.8	60.3	54.2	47.9	41.0	37.4	37.4
107.5°	90.4	85.8	75.6	66.8	60.5	54.7	48.9	42.7	36.0	33.2	33.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	78.9	75.1	66.5	59.9	54.7	49.5	44.0	37.6	31.3	29.5	29.7
112.5°	68.7	65.7	58.6	53.3	48.9	44.5	39.1	32.7	27.2	26.1	26.4
115°	59.9	57.5	52.0	47.3	43.7	39.6	34.7	28.3	23.6	23.1	23.1
117.5°	52.3	50.3	45.6	42.0	38.8	35.2	30.3	24.4	20.4	20.4	20.4
120°	45.9	44.3	40.4	37.1	34.4	30.8	26.1	20.7	17.6	17.9	17.9
122.5°	39.9	38.8	35.2	32.7	30.0	26.9	22.3	17.1	15.1	15.7	16.0
125°	34.9	33.9	31.1	28.3	25.9	22.8	18.4	14.3	13.2	13.7	13.7
127.5°	30.0	29.5	26.9	24.4	22.3	19.2	15.1	11.9	11.6	12.1	12.1
130°	25.9	25.3	23.3	20.7	18.4	15.7	12.1	9.6	9.6	10.1	10.1
132.5°	22.0	21.7	19.8	17.3	15.1	12.4	9.6	7.7	8.3	8.8	8.8
135°	18.1	18.1	16.5	14.0	11.9	9.3	7.2	6.3	6.9	7.5	7.5
137.5°	14.8	14.5	13.2	11.0	8.8	6.9	5.2	4.9	5.7	6.3	6.3
140°	11.9	11.6	10.4	8.5	6.3	4.7	3.6	3.9	4.7	4.9	5.2
142.5°	8.8	8.8	7.7	6.3	4.1	2.8	2.3	3.1	3.6	3.9	4.1
145°	6.3	6.3	5.5	4.1	2.5	1.3	1.3	2.3	2.8	3.1	3.1
147.5°	4.1	4.1	3.6	2.5	1.3	0.5	0.8	1.3	1.9	2.3	2.3
150°	2.5	2.3	1.9	1.1	0.5	0.0	0.3	0.5	1.1	1.3	1.1
152.5°	1.1	1.1	0.8	0.5	0.3	0.0	0.0	0.0	0.3	0.5	0.5
155°	0.3	0.3	0.3	0.3	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)