

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: P240253

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-SL3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.8 lumens
Efficiency: N/A
Efficacy: 90.9 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



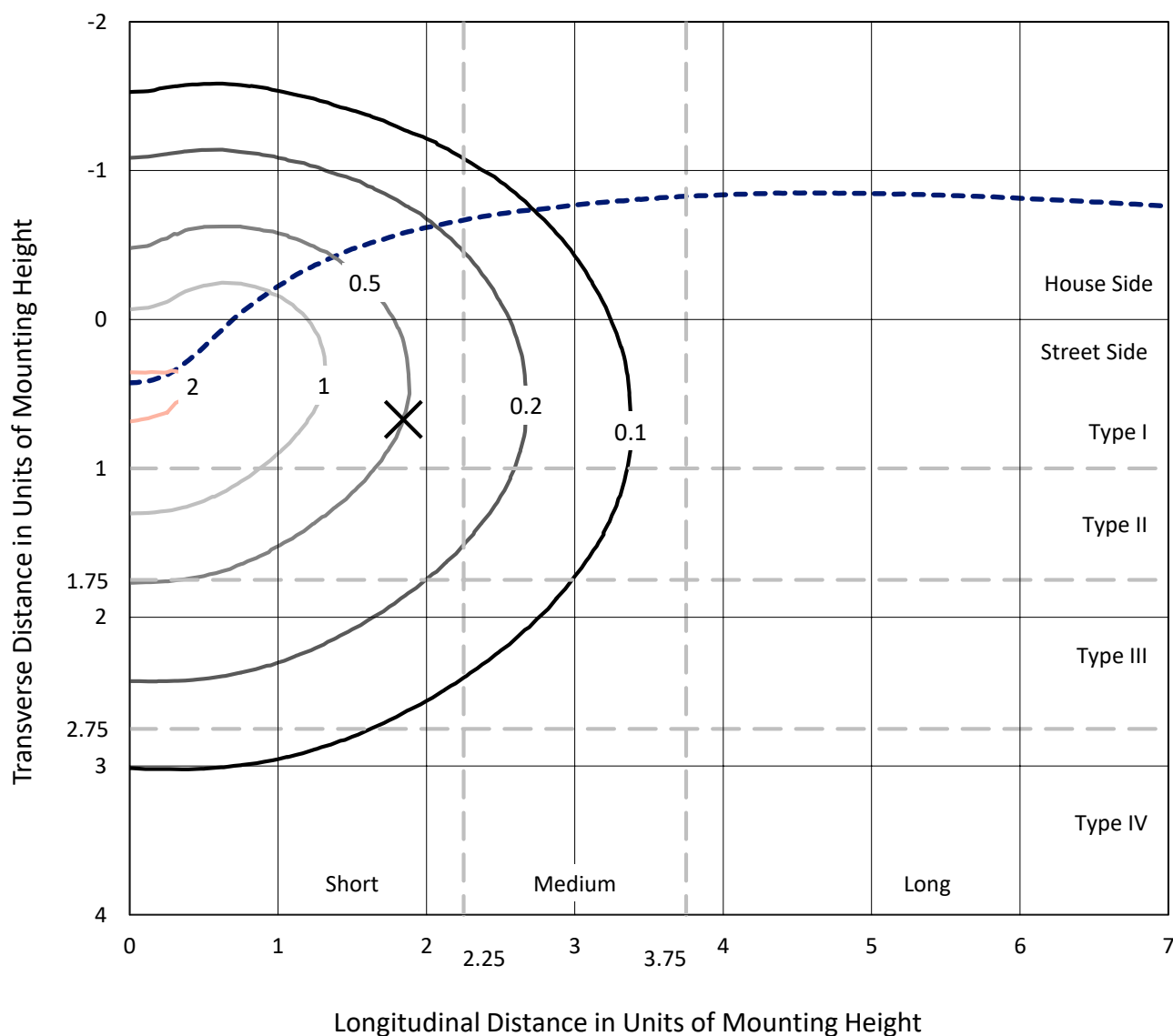
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

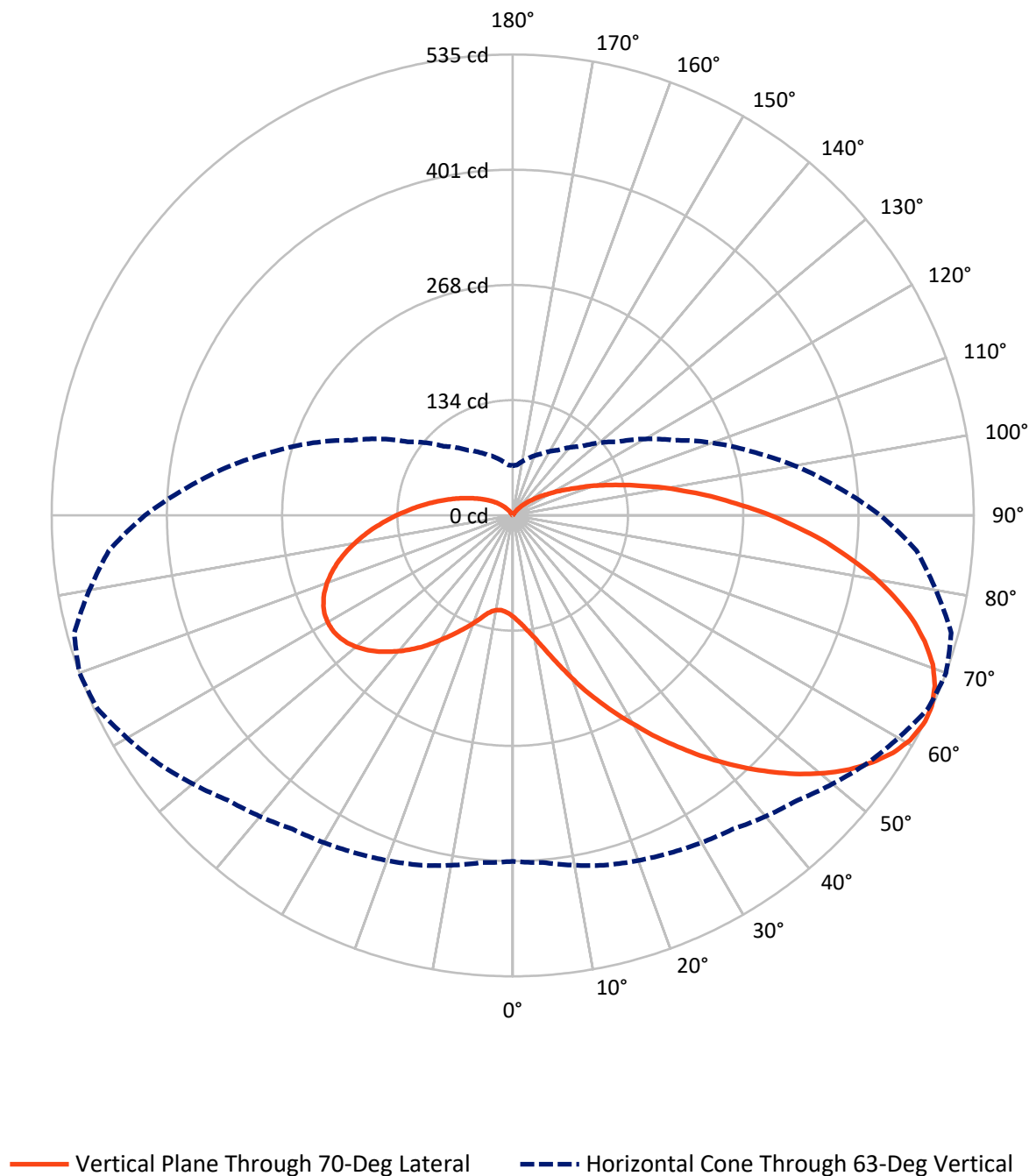


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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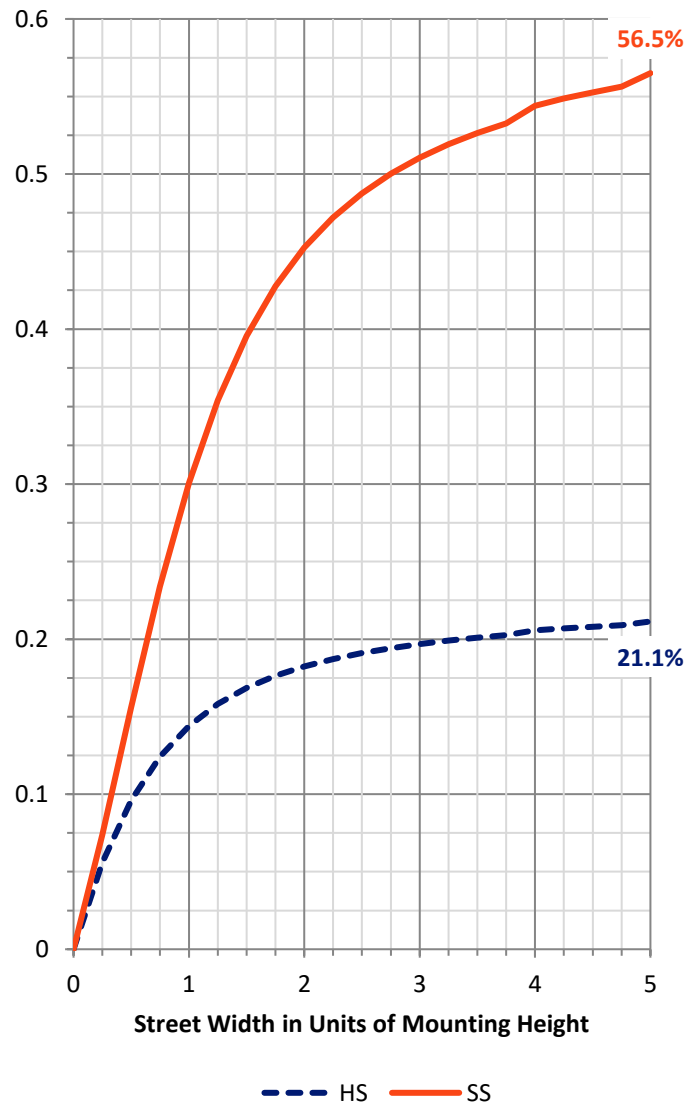
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.7	103.7	532.4
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1158.8	217.5	1376.3
	% Fixture	60.7	11.4	72.1
Total	Lumens	1587.5	321.2	1908.8
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.6
10°-20°	40.8	2.1
20°-30°	86.6	4.5
30°-40°	149.4	7.8
40°-50°	220.4	11.5
50°-60°	280.5	14.7
60°-70°	304.4	15.9
70°-80°	278.4	14.6
80°-90°	215.4	11.3
90°-100°	145.1	7.6
100°-110°	88.3	4.6
110°-120°	49.5	2.6
120°-130°	25.2	1.3
130°-140°	10.4	0.5
140°-150°	2.6	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1587.5	83.2
0°-180°	1908.8	100.0

Coefficient of Utilization



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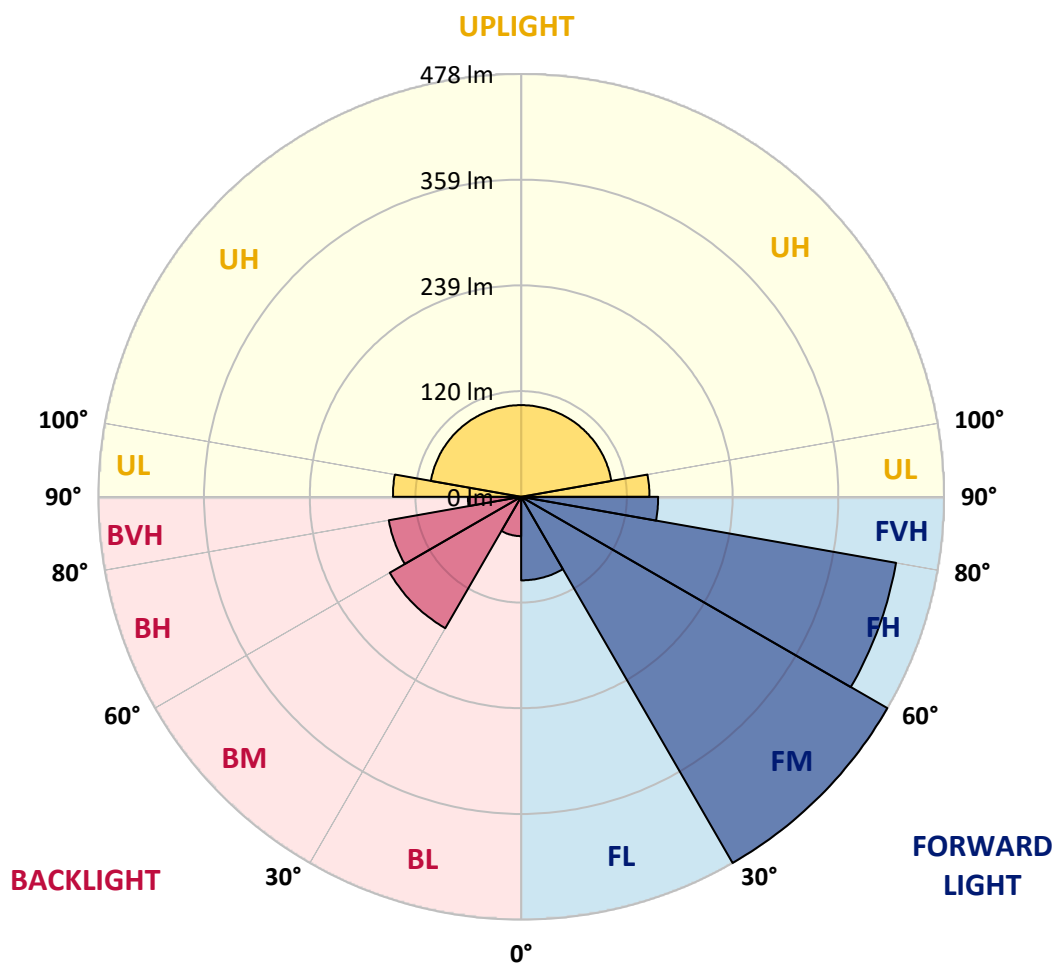
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	94.6	5.0			
FM	(30°-60°)	478.5	25.1			
FH	(60°-80°)	430.7	22.6			G0/660
FVH	(80°-90°)	155.0	8.1			G2/225
BL	(0°-30°)	44.5	2.3	B0/110		
BM	(30°-60°)	171.7	9.0	B0/220		
BH	(60°-80°)	152.1	8.0	B1/500		G1/500
BVH	(80°-90°)	60.3	3.2			G1/100
UL	(90°-100°)	145.1	7.6		U3/500	
UH	(100°-180°)	103.7	5.4		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°	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8
2.5°	131.3	131.0	130.8	129.5	128.9	127.2	125.5	123.8	122.7	121.8	119.6
5°	145.1	144.5	143.7	142.5	140.1	137.5	134.4	130.8	128.9	126.8	122.7
7.5°	158.5	158.3	158.1	155.4	153.1	148.9	144.5	139.3	136.8	133.4	127.2
10°	173.4	173.9	172.4	170.0	166.1	161.7	156.0	148.9	145.6	141.9	133.7
12.5°	190.3	190.0	188.7	184.8	180.8	175.7	168.7	161.1	157.4	152.3	141.7
15°	207.5	206.4	204.9	202.2	197.1	191.3	183.8	175.3	170.8	165.3	153.4
17.5°	225.4	224.6	223.6	219.2	214.7	207.7	201.5	192.1	186.7	180.8	166.9
20°	243.3	242.8	241.5	238.0	232.7	226.3	220.4	210.6	204.4	197.1	181.5
22.5°	262.3	262.0	260.7	256.9	252.4	248.6	241.0	229.8	223.9	215.0	196.7
25°	281.8	282.1	279.7	276.1	272.9	269.4	261.5	249.8	242.5	233.5	212.9
27.5°	302.8	301.8	300.3	296.8	294.2	290.1	282.1	270.1	263.1	253.2	230.3
30°	322.4	322.7	319.2	317.2	315.3	311.4	303.8	291.7	283.8	274.8	248.6
32.5°	343.4	342.4	340.1	337.9	336.6	332.4	325.5	314.7	307.0	295.5	267.0
35°	361.8	361.6	359.0	359.6	356.1	352.8	347.6	337.7	329.6	318.7	287.6
37.5°	380.9	380.3	378.5	379.0	375.1	372.6	369.2	360.5	353.8	342.6	308.8
40°	398.8	397.4	396.2	396.9	394.1	392.2	390.5	384.5	377.5	365.8	329.9
42.5°	413.3	413.1	412.4	413.6	410.7	410.3	411.3	408.2	401.8	389.9	351.3
45°	425.8	425.8	426.8	427.6	425.0	425.8	431.0	430.3	425.3	413.3	373.3
47.5°	435.7	435.4	438.0	439.1	437.8	440.7	449.3	452.9	448.7	437.5	393.9
50°	441.4	441.4	446.1	447.4	447.6	453.1	465.1	473.1	470.3	459.7	413.3
52.5°	442.9	443.5	450.0	452.9	453.9	462.5	478.9	491.1	490.0	479.8	431.0
55°	440.5	441.2	449.7	454.2	457.2	469.3	489.8	507.0	506.2	496.8	445.6
57.5°	433.1	434.2	445.0	451.6	457.2	472.9	497.7	519.4	520.4	511.7	458.1
60°	421.6	423.0	436.3	444.8	453.7	472.6	502.0	527.5	529.8	520.7	466.4
62.5°	405.8	407.3	422.8	434.7	446.7	468.9	502.3	531.3	534.5	526.4	470.3
63°	401.6	404.5	420.3	432.3	444.8	467.6	502.0	531.6	535.1	526.9	470.6
65°	385.5	388.6	406.9	420.8	436.0	461.7	498.3	530.4	534.5	526.7	469.3
67.5°	363.0	367.1	386.3	403.5	422.8	451.0	490.2	523.8	528.5	520.9	463.5
70°	337.2	342.8	363.2	384.5	405.8	436.7	477.8	512.7	517.2	509.2	452.2
72.5°	311.2	317.4	339.5	362.4	386.3	419.1	460.4	495.7	499.9	493.2	436.3
75°	284.9	289.6	312.5	339.0	365.0	398.6	441.2	474.1	478.9	470.8	416.5
77.5°	257.1	263.7	287.3	314.0	341.9	377.5	418.3	449.5	452.4	444.2	391.0
80°	229.8	237.1	260.2	289.1	318.5	352.8	391.8	422.2	423.7	415.1	363.8
82.5°	205.9	212.6	236.3	264.1	293.8	328.9	364.5	390.5	391.4	383.5	335.3
85°	182.8	188.7	211.3	240.0	269.9	302.3	336.4	358.5	359.8	350.1	305.5
87.5°	161.9	166.6	188.5	217.1	246.2	278.2	306.5	324.9	325.3	315.9	275.8
90°	144.0	146.9	168.2	196.2	223.9	252.4	278.9	295.1	293.1	283.1	245.2
92.5°	126.6	128.9	148.5	175.7	203.0	228.8	252.0	262.3	259.9	251.4	217.9
95°	112.5	113.6	131.5	157.4	181.7	206.2	225.9	233.5	231.1	222.1	190.7
97.5°	98.3	99.9	116.3	139.7	163.3	185.3	201.5	206.4	202.0	193.2	167.1
100°	87.6	88.2	101.9	124.2	146.6	165.8	178.6	181.7	177.0	169.1	145.6
102.5°	77.7	77.5	89.9	110.8	130.8	146.9	157.8	157.6	152.6	145.6	126.3
105°	69.2	69.0	78.5	97.8	115.7	130.0	138.0	137.0	132.1	125.3	110.0
107.5°	61.0	61.6	68.7	85.5	101.6	114.4	120.4	118.0	113.6	107.4	95.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	55.0	55.0	60.5	75.2	89.9	100.3	105.0	101.6	97.5	91.2	82.4
112.5°	49.6	49.6	53.5	65.5	79.0	88.4	91.6	87.1	82.2	78.0	71.4
115°	44.7	44.7	47.3	57.0	69.0	76.7	78.5	73.9	69.7	66.5	62.4
117.5°	40.5	40.5	42.1	48.8	59.5	66.7	67.8	62.6	59.8	56.7	54.3
120°	36.6	36.9	37.4	41.8	50.7	57.0	57.5	52.6	50.1	48.6	47.3
122.5°	33.4	33.4	33.6	36.2	43.1	48.4	48.4	44.1	42.6	42.1	41.1
125°	30.1	30.1	30.1	31.2	35.8	40.0	39.6	36.9	36.2	36.2	35.6
127.5°	27.4	27.0	26.8	27.0	29.4	32.2	32.2	30.4	30.4	30.7	30.9
130°	24.5	24.1	23.7	23.2	23.4	25.4	25.2	24.7	25.2	26.0	26.6
132.5°	21.6	21.6	20.8	19.4	18.7	19.2	19.4	19.7	20.5	21.6	22.4
135°	18.7	18.7	17.9	16.2	14.5	14.3	13.9	15.3	16.6	17.7	18.5
137.5°	15.9	15.9	15.1	13.0	10.9	9.9	9.7	11.7	13.0	13.9	14.9
140°	13.2	13.0	12.2	10.2	7.7	6.2	6.2	8.3	9.7	10.7	11.7
142.5°	10.4	10.4	9.7	7.7	5.3	3.6	4.0	5.7	6.8	7.5	8.3
145°	7.7	7.7	7.0	5.3	3.2	1.8	2.0	3.6	4.4	5.3	6.0
147.5°	5.5	5.5	4.7	3.4	1.5	0.5	1.1	2.0	2.6	3.2	3.6
150°	3.4	3.4	2.8	1.8	0.8	0.0	0.2	1.1	1.3	1.5	2.0
152.5°	1.8	1.8	1.3	0.8	0.2	0.0	0.0	0.2	0.5	0.8	1.1
155°	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
157.5°	0.2	0.2	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°	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8	117.8
2.5°	118.5	117.5	115.2	113.1	111.2	109.5	107.8	106.6	106.3	105.6	105.8
5°	120.4	118.3	113.8	110.0	105.8	102.3	99.9	97.5	95.7	94.8	94.6
7.5°	124.0	120.6	113.8	107.6	101.9	96.7	92.4	88.9	86.9	85.5	85.8
10°	129.3	124.8	115.7	107.1	99.1	92.0	86.4	82.2	79.0	77.7	77.7
12.5°	135.9	130.8	119.1	107.8	97.8	88.9	81.6	76.5	73.5	71.8	71.8
15°	146.9	139.3	124.8	110.5	97.8	87.1	79.0	73.3	70.7	69.4	69.2
17.5°	158.5	150.2	132.9	115.7	100.1	86.9	78.7	73.9	70.7	69.2	69.2
20°	171.3	161.4	141.4	121.8	104.1	89.9	80.9	74.9	71.0	69.0	68.7
22.5°	185.0	174.2	150.6	128.0	108.7	95.2	83.5	75.6	71.0	69.0	68.7
25°	200.4	187.2	159.8	134.9	114.9	99.9	86.6	76.7	71.0	68.4	68.1
27.5°	216.0	201.2	170.2	141.7	121.4	104.3	89.4	77.5	71.0	68.1	67.8
30°	232.9	215.2	180.4	149.4	127.4	108.1	91.8	78.2	71.0	67.8	67.6
32.5°	249.5	230.5	191.3	158.3	133.1	111.2	93.9	79.8	71.2	67.6	67.0
35°	268.0	246.9	203.0	167.1	138.3	114.1	95.7	80.9	71.0	67.0	66.7
37.5°	287.3	263.1	213.7	175.0	142.5	116.3	96.7	81.6	71.0	66.7	66.3
40°	306.5	279.4	225.2	182.8	146.4	118.0	97.8	82.4	70.7	66.3	65.8
42.5°	325.3	295.5	236.3	189.2	149.4	119.3	98.3	82.9	70.7	65.8	65.2
45°	344.5	311.9	248.0	195.5	151.9	119.8	98.3	82.9	71.0	65.2	64.7
47.5°	363.0	327.3	258.6	200.4	153.6	120.0	98.3	82.9	71.0	64.7	63.9
50°	379.2	341.3	267.4	204.7	154.7	120.0	98.0	82.9	71.0	63.9	63.2
52.5°	395.2	353.6	275.8	207.5	155.1	119.6	97.5	82.4	71.0	63.2	62.4
55°	407.9	364.5	281.6	209.2	154.7	118.8	96.4	81.8	70.7	62.4	61.4
57.5°	418.0	372.2	285.9	209.8	153.6	117.5	95.4	81.1	70.2	61.4	60.5
60°	424.5	376.7	287.3	208.8	152.1	115.7	94.1	80.3	69.4	60.3	59.2
62.5°	426.8	378.2	286.7	206.7	149.8	113.8	92.8	79.3	68.7	59.0	58.0
63°	426.8	378.0	286.5	206.2	148.9	113.3	92.6	79.0	68.4	58.8	57.7
65°	425.3	376.0	283.8	203.0	146.6	111.6	91.2	78.0	67.8	58.0	56.7
67.5°	418.8	370.5	277.9	198.3	142.7	108.9	89.1	76.5	66.5	56.7	55.4
70°	408.4	361.1	269.9	192.1	138.5	106.1	87.1	74.9	65.2	55.4	53.9
72.5°	393.2	348.1	259.7	184.8	133.7	102.9	84.7	73.1	63.5	53.9	52.0
75°	374.1	332.2	247.8	176.6	128.7	99.3	82.4	71.0	61.6	52.2	49.9
77.5°	351.7	313.8	234.0	167.9	122.9	95.7	79.5	68.7	59.8	50.7	47.8
80°	326.8	291.9	219.2	158.3	117.0	91.8	76.7	66.3	57.2	48.6	45.8
82.5°	301.8	270.1	203.5	148.5	111.0	87.9	73.5	63.7	54.8	46.6	43.7
85°	274.8	247.3	188.3	138.3	104.8	83.5	70.5	60.8	52.6	44.5	41.3
87.5°	248.8	224.1	171.3	128.4	98.8	79.5	67.3	58.0	49.6	41.8	39.6
90°	223.6	202.0	156.8	118.3	92.4	75.2	63.9	54.8	46.8	39.3	37.4
92.5°	199.2	179.6	141.0	108.9	86.4	71.0	60.3	51.7	43.9	36.9	35.4
95°	176.2	160.2	127.7	99.5	80.7	66.7	57.0	48.8	40.9	34.1	33.0
97.5°	154.7	141.7	114.6	91.6	74.3	62.6	53.3	45.5	37.7	31.4	30.9
100°	136.5	125.3	102.3	83.1	69.0	58.5	49.9	42.1	34.5	28.9	28.9
102.5°	119.3	109.5	91.0	75.4	63.5	54.1	46.0	38.8	31.4	26.6	26.6
105°	104.3	96.1	81.4	68.4	58.2	49.9	42.4	35.4	28.1	24.1	24.1
107.5°	90.4	84.2	72.2	61.8	53.0	45.5	38.8	31.6	24.7	21.9	22.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	79.3	74.3	64.3	55.4	48.1	41.8	35.4	28.3	21.6	19.7	19.7
112.5°	68.7	64.7	56.7	49.9	43.7	37.9	31.6	24.9	19.0	17.9	17.9
115°	60.1	57.0	50.1	44.5	39.3	34.1	28.1	21.6	16.4	15.9	16.2
117.5°	52.6	49.9	44.7	40.0	35.4	30.4	24.9	18.5	14.3	14.3	14.3
120°	45.8	43.9	39.3	35.4	31.4	26.8	21.6	15.7	12.4	12.4	12.8
122.5°	40.3	38.5	35.1	31.2	27.6	23.4	18.5	13.0	10.9	11.2	11.5
125°	34.9	33.8	30.7	27.4	23.9	19.7	15.3	10.7	9.7	9.9	10.2
127.5°	30.4	29.6	26.6	23.7	20.5	16.6	12.4	8.6	8.0	8.6	8.8
130°	26.0	25.4	23.2	20.3	17.2	13.7	9.9	7.0	7.0	7.5	7.5
132.5°	22.1	21.6	19.4	16.6	13.9	10.7	7.5	5.7	6.0	6.4	6.4
135°	18.5	17.9	16.2	13.7	10.9	8.0	5.7	4.7	5.3	5.5	5.5
137.5°	15.1	14.5	13.0	10.7	8.0	5.7	4.2	3.6	4.2	4.7	4.7
140°	11.5	11.5	10.2	8.0	5.7	4.0	2.8	2.8	3.4	3.6	3.6
142.5°	8.6	8.3	7.5	5.7	3.6	2.3	1.8	2.0	2.6	2.8	2.8
145°	6.0	5.7	5.3	4.0	2.0	1.3	1.1	1.5	1.8	2.0	2.0
147.5°	4.0	3.6	3.4	2.3	1.1	0.5	0.5	1.1	1.3	1.5	1.5
150°	2.0	2.0	1.8	1.1	0.5	0.0	0.2	0.5	0.8	0.8	0.8
152.5°	1.1	1.1	0.8	0.5	0.2	0.0	0.0	0.0	0.2	0.2	0.2
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	0.2	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	0.2	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)