

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: P266280

Luminaire Tested: **UTLD-AF24-20-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266280
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 1776.5 lumens
Efficiency: N/A
Efficacy: 84.6 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



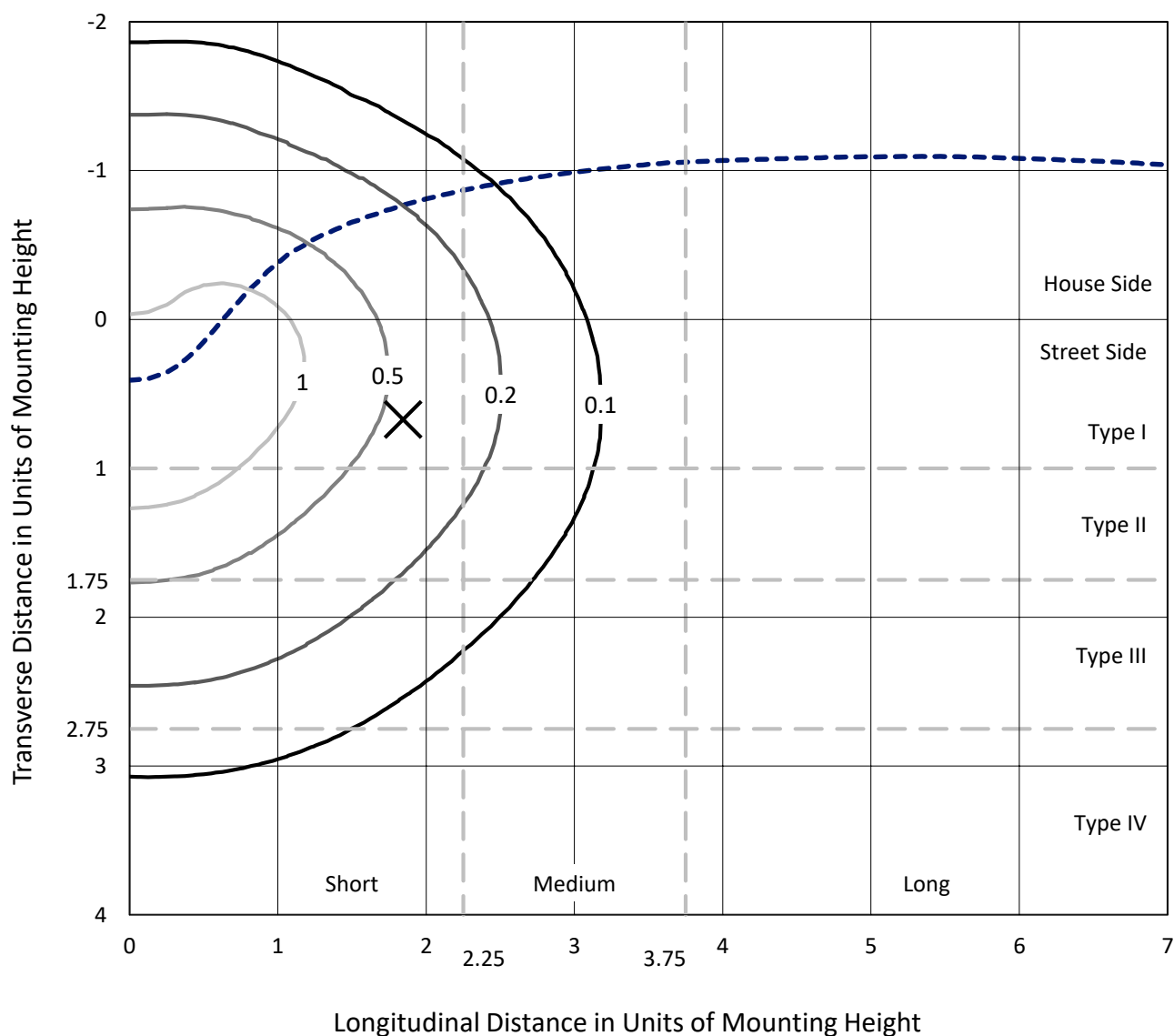
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

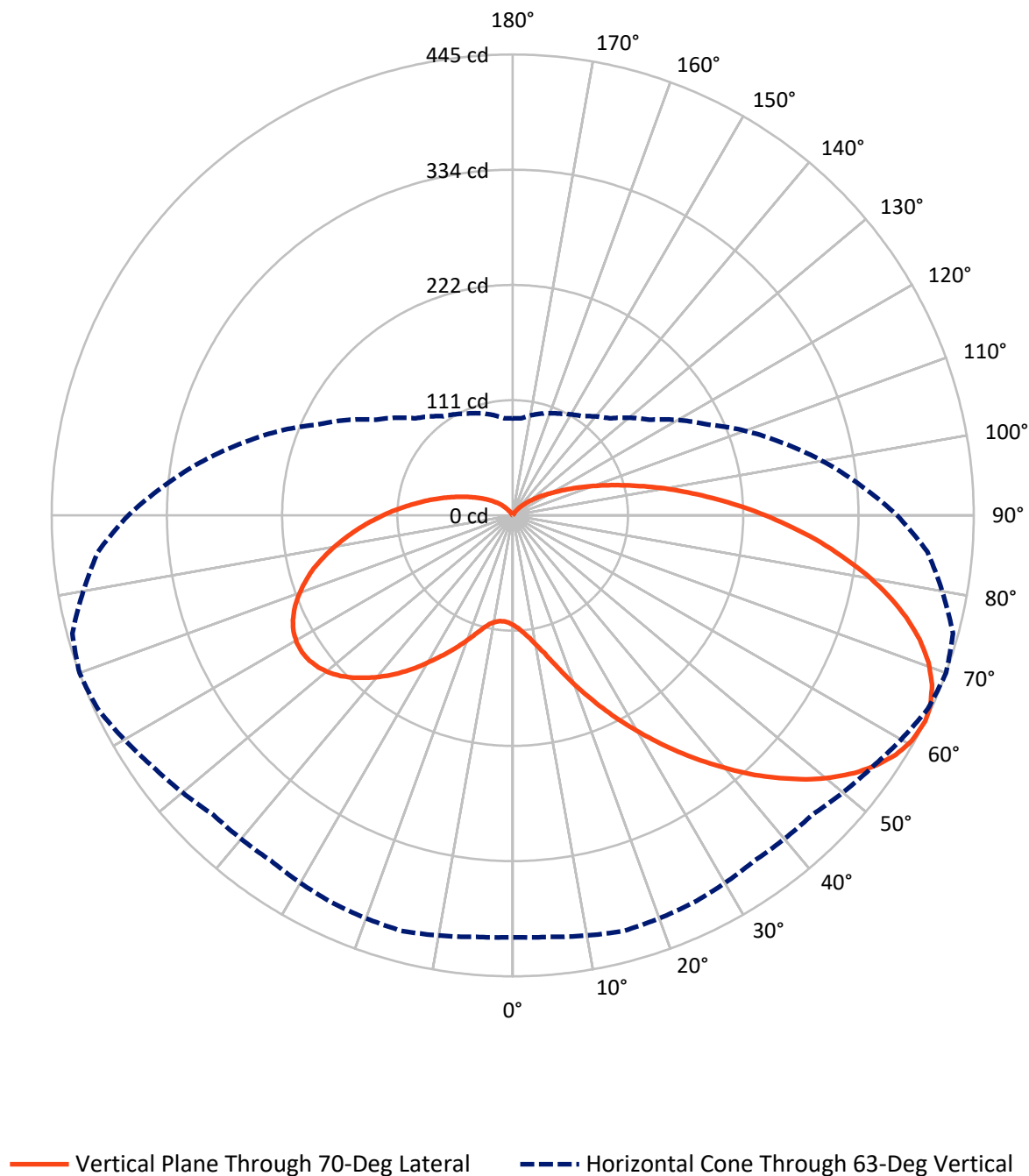


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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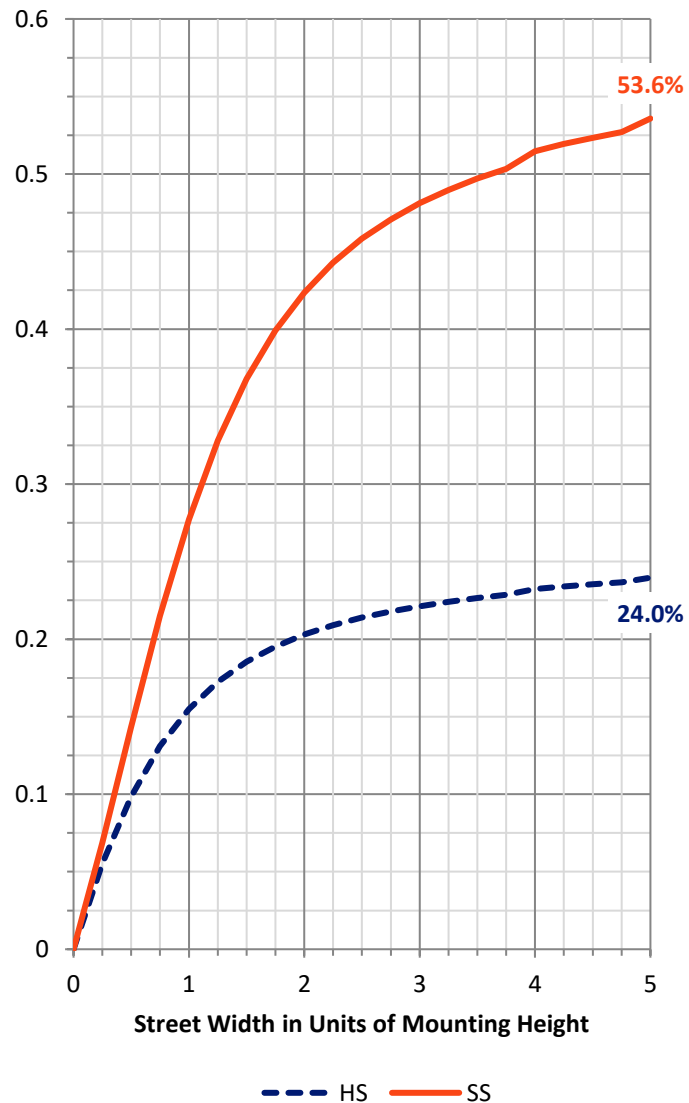
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.1	102.8	556.9
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1026.5	193.1	1219.6
	% Fixture	57.8	10.9	68.7
Total	Lumens	1480.6	295.9	1776.5
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.6
10°-20°	37.1	2.1
20°-30°	79.6	4.5
30°-40°	138.7	7.8
40°-50°	206.2	11.6
50°-60°	263.2	14.8
60°-70°	285.4	16.1
70°-80°	259.9	14.6
80°-90°	199.9	11.3
90°-100°	134.1	7.5
100°-110°	81.3	4.6
110°-120°	45.4	2.6
120°-130°	23.0	1.3
130°-140°	9.5	0.5
140°-150°	2.4	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1480.6	83.3
0°-180°	1776.5	100.0

Coefficient of Utilization



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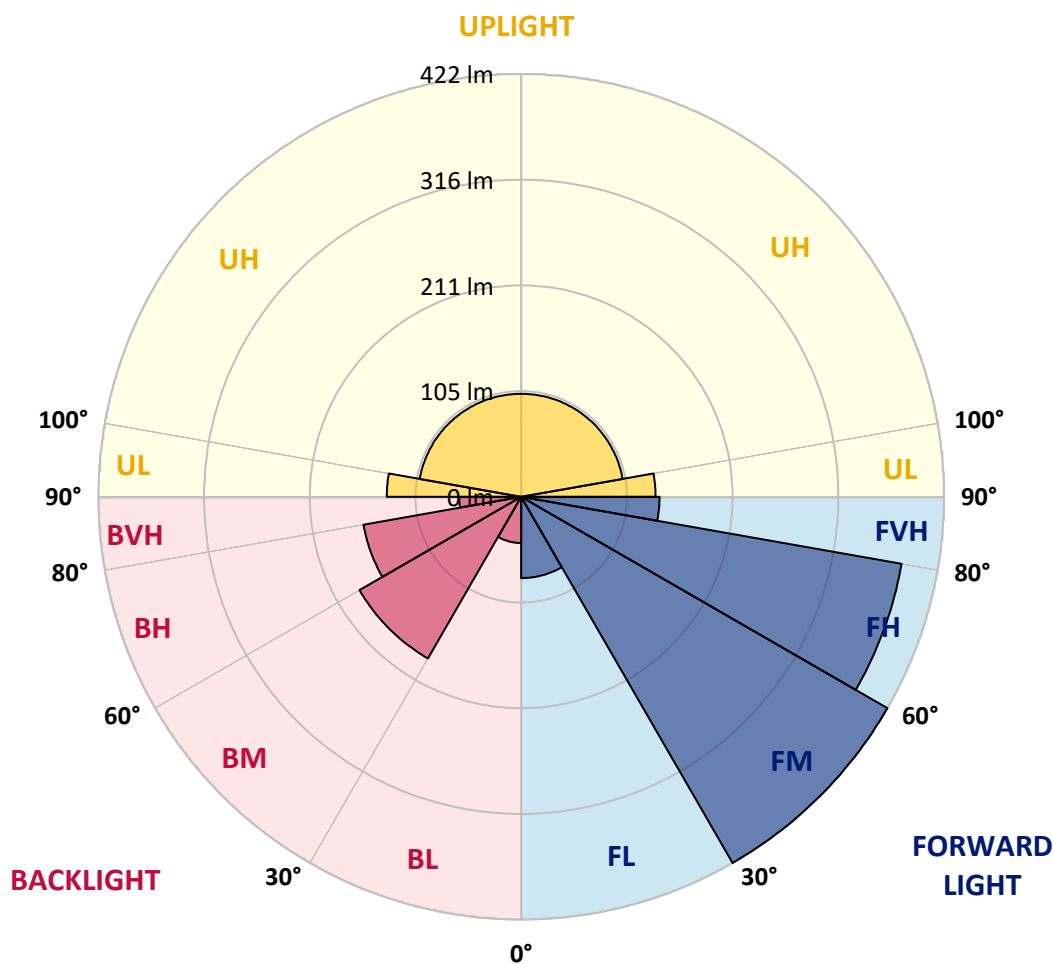
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.1	4.6			
FM	(30°-60°)	421.9	23.8			
FH	(60°-80°)	385.4	21.7			G0/660
FVH	(80°-90°)	138.0	7.8			G2/225
BL	(0°-30°)	46.1	2.6	B0/110		
BM	(30°-60°)	186.2	10.5	B0/220		
BH	(60°-80°)	159.8	9.0	B1/500		G1/500
BVH	(80°-90°)	61.9	3.5			G1/100
UL	(90°-100°)	134.1	7.5		U3/500	
UH	(100°-180°)	102.8	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°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	114.7	114.7	114.4	114.2	113.5	112.6	111.1	110.2	109.2	108.5	107.2
5°	124.4	125.0	124.0	123.5	121.9	120.1	117.9	115.3	114.2	112.6	109.8
7.5°	134.9	135.5	134.4	133.3	131.2	128.4	125.1	121.9	119.7	117.7	113.5
10°	146.7	146.9	145.7	144.3	141.8	138.2	134.7	129.8	127.5	124.7	119.0
12.5°	159.7	159.3	158.3	155.9	152.9	149.2	144.5	139.6	136.4	133.0	126.1
15°	174.7	174.5	172.8	170.0	166.2	162.1	156.5	151.1	147.9	144.3	136.0
17.5°	190.4	189.8	188.3	185.0	181.0	175.6	171.3	165.1	161.2	157.4	147.9
20°	205.9	205.7	204.5	200.9	196.4	192.1	186.6	180.0	176.1	170.9	160.0
22.5°	223.9	223.1	221.3	218.1	214.3	210.2	204.4	196.1	191.7	186.8	173.7
25°	242.0	241.6	239.4	235.9	232.8	228.1	222.5	213.0	208.5	201.8	187.7
27.5°	260.6	260.1	257.9	254.0	251.7	247.3	240.2	231.0	225.6	219.0	203.3
30°	280.0	279.7	276.9	273.3	270.6	266.4	259.3	249.1	243.8	236.6	219.0
32.5°	299.3	299.3	296.5	293.2	290.2	284.9	278.0	268.6	262.7	254.9	235.4
35°	319.6	318.4	316.5	313.4	308.5	303.1	297.0	288.4	282.2	274.0	253.1
37.5°	338.8	338.8	335.2	332.7	327.3	321.4	315.8	308.5	301.7	293.6	270.4
40°	357.7	358.0	354.7	351.4	344.4	338.8	333.9	328.2	322.0	313.6	289.3
42.5°	375.9	375.5	372.4	368.8	360.9	354.7	351.6	346.7	342.3	333.5	307.5
45°	392.7	391.7	389.2	384.8	375.9	369.7	368.5	366.1	361.5	353.6	325.9
47.5°	405.9	405.1	404.1	398.4	389.2	383.1	383.1	384.1	380.6	372.4	343.2
50°	416.5	416.4	415.8	409.4	399.6	394.9	396.7	399.9	397.7	390.5	358.7
52.5°	423.8	423.6	424.3	417.5	407.9	403.7	408.2	414.7	412.9	406.4	373.3
55°	426.6	426.6	428.8	422.5	412.9	409.5	416.9	425.8	425.6	419.9	384.6
57.5°	425.4	425.6	429.4	423.6	414.7	412.9	422.5	434.8	435.7	429.8	393.9
60°	420.0	420.2	425.4	420.9	413.3	412.9	425.0	440.2	442.1	436.8	399.2
62.5°	409.7	410.7	417.1	414.2	407.9	409.5	424.0	441.7	444.3	439.5	401.5
63°	407.0	408.2	414.9	412.3	406.6	408.4	423.3	441.7	444.7	439.7	401.5
65°	395.6	397.0	404.6	403.5	399.2	402.8	419.4	439.2	442.8	438.4	399.2
67.5°	377.1	380.0	388.7	389.8	387.6	393.0	411.2	432.7	436.3	432.3	393.0
70°	354.9	358.2	369.7	372.4	372.0	380.0	399.2	421.8	425.6	421.5	382.3
72.5°	331.1	335.5	346.0	352.1	355.2	363.9	384.6	406.8	410.7	406.4	367.9
75°	305.2	309.8	322.9	330.3	335.1	345.8	366.4	388.5	392.0	388.5	350.0
77.5°	279.3	284.0	297.2	306.9	314.0	327.0	347.3	367.5	370.1	366.4	329.0
80°	252.7	258.1	270.8	282.1	291.9	304.7	324.4	342.8	345.8	340.8	306.3
82.5°	226.3	231.0	245.3	258.5	269.0	281.9	300.6	317.8	319.2	314.2	281.3
85°	202.5	206.4	220.7	234.6	247.0	259.7	276.9	290.7	292.8	286.5	256.6
87.5°	180.0	183.1	197.9	211.8	224.3	238.4	253.9	264.8	264.8	259.9	230.8
90°	159.3	161.3	174.9	190.1	203.6	216.0	230.4	239.8	238.6	232.7	206.4
92.5°	139.1	141.8	155.0	169.5	183.3	196.1	207.8	214.2	212.4	206.3	183.1
95°	122.6	123.7	136.8	151.8	164.4	176.1	186.4	190.8	188.3	181.8	160.0
97.5°	107.3	108.3	119.7	134.0	147.6	158.3	165.3	168.2	165.6	159.3	141.0
100°	95.0	95.3	105.6	119.4	132.0	141.3	147.6	147.6	145.3	139.0	122.3
102.5°	83.0	83.4	91.7	105.6	117.5	125.7	130.6	130.1	125.9	119.6	106.2
105°	73.1	73.5	80.0	93.5	104.2	111.6	115.6	112.7	108.9	103.2	91.9
107.5°	64.5	64.7	69.8	81.7	91.9	99.1	101.1	98.1	93.7	88.3	80.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	57.8	57.4	61.4	71.7	81.4	87.3	88.6	84.8	80.3	75.8	69.3
112.5°	51.2	51.2	53.7	62.3	71.4	77.1	77.6	72.1	68.5	64.5	60.2
115°	45.8	45.5	47.4	54.2	62.6	67.3	66.7	61.9	58.4	55.1	52.3
117.5°	41.1	40.7	42.0	46.7	54.3	58.8	57.8	52.1	49.4	47.3	45.5
120°	36.9	36.7	37.4	40.7	46.7	50.2	49.0	44.1	41.9	40.7	39.6
122.5°	33.1	33.1	32.9	35.0	39.6	42.5	40.9	36.9	35.6	34.8	34.8
125°	30.0	30.0	29.5	30.2	33.1	35.6	34.0	30.8	30.0	30.0	30.2
127.5°	26.6	26.6	26.1	26.0	27.3	28.9	27.3	25.4	25.2	25.4	26.0
130°	23.5	23.4	22.8	22.0	22.2	22.8	21.6	20.8	21.0	21.6	22.2
132.5°	20.8	20.5	19.9	18.4	17.4	17.4	16.6	16.6	17.2	18.0	19.0
135°	18.0	17.7	17.1	15.5	13.7	12.8	12.1	13.0	14.1	14.7	15.6
137.5°	15.2	14.9	14.1	12.3	10.3	8.9	8.7	10.1	11.0	11.9	12.5
140°	12.3	12.1	11.1	9.6	7.2	5.6	5.6	7.5	8.4	9.2	10.1
142.5°	9.8	9.6	8.9	6.9	4.8	3.6	3.8	5.4	6.1	6.7	7.5
145°	7.2	7.2	6.6	4.9	2.9	1.6	2.1	3.6	4.2	4.8	5.4
147.5°	4.9	4.9	4.2	3.1	1.6	0.7	1.0	2.1	2.5	3.1	3.6
150°	3.1	3.1	2.5	1.6	0.7	0.0	0.4	1.0	1.3	1.6	2.1
152.5°	1.6	1.6	1.2	0.7	0.2	0.0	0.0	0.4	0.4	0.7	1.0
155°	0.7	0.4	0.4	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°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	106.4	105.8	104.2	102.9	101.6	100.4	99.7	98.5	97.8	98.1	97.8
5°	108.3	107.0	103.9	101.4	98.5	96.2	94.3	92.6	91.7	91.1	91.3
7.5°	111.4	109.2	104.8	100.6	96.5	93.0	90.1	88.0	86.1	85.7	85.5
10°	116.1	113.2	107.0	101.4	95.9	91.1	87.3	84.4	82.5	81.4	81.4
12.5°	122.6	118.7	110.8	103.2	96.5	90.4	85.7	81.9	79.9	79.0	78.7
15°	131.7	126.8	117.0	107.0	98.4	91.1	85.5	81.7	80.0	79.6	79.4
17.5°	142.2	136.8	124.7	112.9	102.0	93.0	87.6	84.5	82.6	81.7	81.4
20°	154.1	147.1	133.3	119.7	107.3	97.8	91.7	87.6	85.2	84.0	83.8
22.5°	166.2	158.6	142.7	127.0	113.5	104.7	95.9	90.8	87.6	86.1	85.7
25°	179.3	170.7	152.3	134.7	120.9	110.9	101.1	93.7	89.9	88.3	88.3
27.5°	193.3	183.3	162.2	142.7	128.6	116.8	106.0	96.7	92.3	90.4	90.1
30°	208.0	196.9	172.6	151.4	136.0	122.1	110.2	99.9	94.6	92.4	92.3
32.5°	223.9	211.1	184.1	160.6	142.7	127.0	113.9	102.9	96.7	94.1	93.9
35°	239.6	225.0	194.8	169.8	148.7	131.2	117.0	106.0	98.4	95.7	95.5
37.5°	256.8	240.0	206.3	178.7	154.4	134.4	119.6	108.3	99.9	97.1	96.7
40°	273.4	254.8	216.9	186.6	159.0	137.5	121.7	110.4	101.4	98.4	97.8
42.5°	289.8	269.8	227.7	194.0	163.0	139.3	123.1	111.8	102.8	99.3	98.5
45°	306.1	283.8	238.6	200.1	166.0	141.0	124.0	112.9	103.9	99.7	99.3
47.5°	321.4	297.5	248.7	205.5	168.2	141.8	124.4	113.5	104.8	99.9	99.3
50°	335.7	309.3	257.1	209.5	169.5	141.8	124.4	113.7	105.3	99.9	99.4
52.5°	348.5	319.6	263.8	212.0	169.8	141.0	123.7	113.5	105.3	99.4	98.8
55°	358.0	328.2	268.8	213.2	169.1	139.9	122.6	112.7	105.1	98.8	98.1
57.5°	365.7	333.9	271.7	213.0	167.4	138.0	121.2	111.8	104.4	97.6	96.8
60°	370.3	337.0	272.2	211.3	165.1	135.6	119.4	110.4	103.5	96.5	95.5
62.5°	371.0	336.8	270.6	208.0	161.5	132.9	117.0	108.5	101.8	94.6	93.7
63°	370.8	336.4	269.8	207.4	160.8	132.4	116.8	108.3	101.6	94.1	93.5
65°	368.2	333.7	266.2	203.6	157.7	129.5	114.7	106.4	100.3	92.6	91.5
67.5°	361.5	327.3	259.7	197.3	152.7	125.9	111.6	104.2	97.8	90.4	89.2
70°	351.1	318.4	250.7	190.4	147.6	121.9	108.3	101.1	95.3	87.9	86.3
72.5°	337.5	305.7	240.4	182.1	141.6	117.5	104.7	97.8	91.9	85.0	83.0
75°	320.9	290.7	229.1	173.3	134.9	112.7	100.9	94.6	88.8	81.7	79.6
77.5°	301.0	273.7	214.9	163.9	128.6	107.8	96.7	90.5	85.0	78.1	75.8
80°	279.7	254.8	200.6	153.4	121.7	102.8	92.4	86.3	80.8	74.3	71.7
82.5°	257.4	234.5	185.4	143.4	114.7	97.3	88.0	81.9	76.5	70.2	67.9
85°	234.6	214.2	170.7	133.3	107.3	92.3	83.4	77.8	72.0	65.8	63.5
87.5°	212.3	194.3	156.5	122.8	100.6	87.0	78.7	73.1	67.3	61.4	59.6
90°	190.8	175.1	141.6	112.9	93.7	81.4	74.0	68.5	62.8	57.0	55.1
92.5°	169.3	155.8	128.0	104.2	87.0	76.4	69.3	63.7	57.9	52.3	51.2
95°	150.1	138.5	115.2	94.6	80.8	71.4	64.7	59.3	53.2	47.9	47.3
97.5°	132.2	122.1	102.4	86.3	74.5	66.0	59.9	54.3	48.2	43.5	42.9
100°	116.1	107.8	91.7	78.1	68.2	61.2	55.5	49.9	43.8	39.6	39.3
102.5°	101.4	94.9	81.7	70.4	62.6	56.2	50.7	45.4	39.4	35.8	35.8
105°	88.8	83.0	72.5	63.5	56.8	51.2	46.1	40.7	34.8	31.8	31.8
107.5°	76.8	72.9	64.1	56.8	51.4	46.4	41.5	36.2	30.6	28.2	28.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	67.1	63.7	56.6	50.9	46.4	42.0	37.4	32.0	26.6	25.1	25.2
112.5°	58.4	55.9	49.8	45.4	41.5	37.8	33.1	27.8	23.1	22.2	22.4
115°	50.9	48.8	44.1	40.2	37.1	33.6	29.5	24.1	20.1	19.7	19.7
117.5°	44.3	42.7	38.7	35.8	32.9	30.0	25.7	20.8	17.2	17.2	17.2
120°	38.9	37.5	34.3	31.5	29.1	26.1	22.2	17.4	14.9	15.2	15.2
122.5°	33.9	32.9	30.0	27.8	25.4	22.8	19.0	14.6	12.8	13.4	13.6
125°	29.6	28.7	26.4	24.1	22.0	19.4	15.6	12.1	11.1	11.7	11.7
127.5°	25.4	25.1	22.8	20.8	19.0	16.3	12.8	10.1	9.8	10.3	10.3
130°	22.0	21.5	19.9	17.4	15.6	13.4	10.3	8.2	8.2	8.7	8.7
132.5°	18.7	18.4	16.8	14.7	12.8	10.5	8.2	6.6	6.9	7.5	7.5
135°	15.5	15.5	14.1	11.9	10.1	7.9	6.1	5.4	5.7	6.3	6.3
137.5°	12.5	12.3	11.1	9.3	7.5	5.7	4.4	4.2	4.9	5.4	5.4
140°	10.1	9.8	8.9	7.2	5.4	4.0	3.1	3.2	4.0	4.2	4.4
142.5°	7.5	7.5	6.6	5.4	3.6	2.3	1.8	2.5	3.1	3.2	3.6
145°	5.4	5.4	4.8	3.6	2.1	1.2	1.2	1.8	2.3	2.5	2.5
147.5°	3.6	3.6	3.1	2.1	1.2	0.4	0.7	1.2	1.6	1.8	1.8
150°	2.1	1.8	1.6	1.0	0.4	0.0	0.2	0.4	1.0	1.2	1.0
152.5°	1.0	1.0	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.4	0.4
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)