

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: P266300

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266300
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-AF24-30-D-U-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2399.7 lumens
Efficiency: N/A
Efficacy: 77.4 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): 31
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



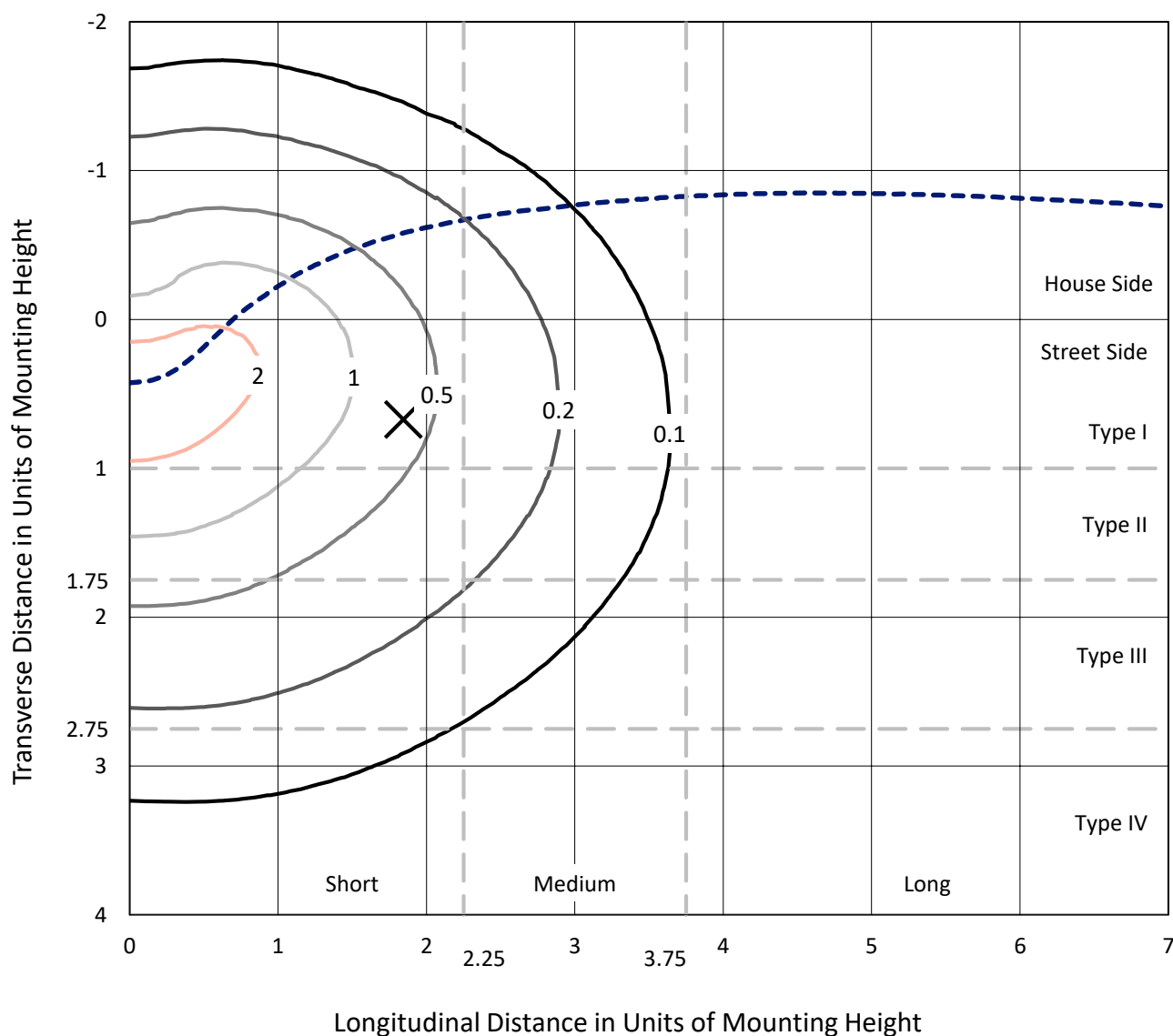
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

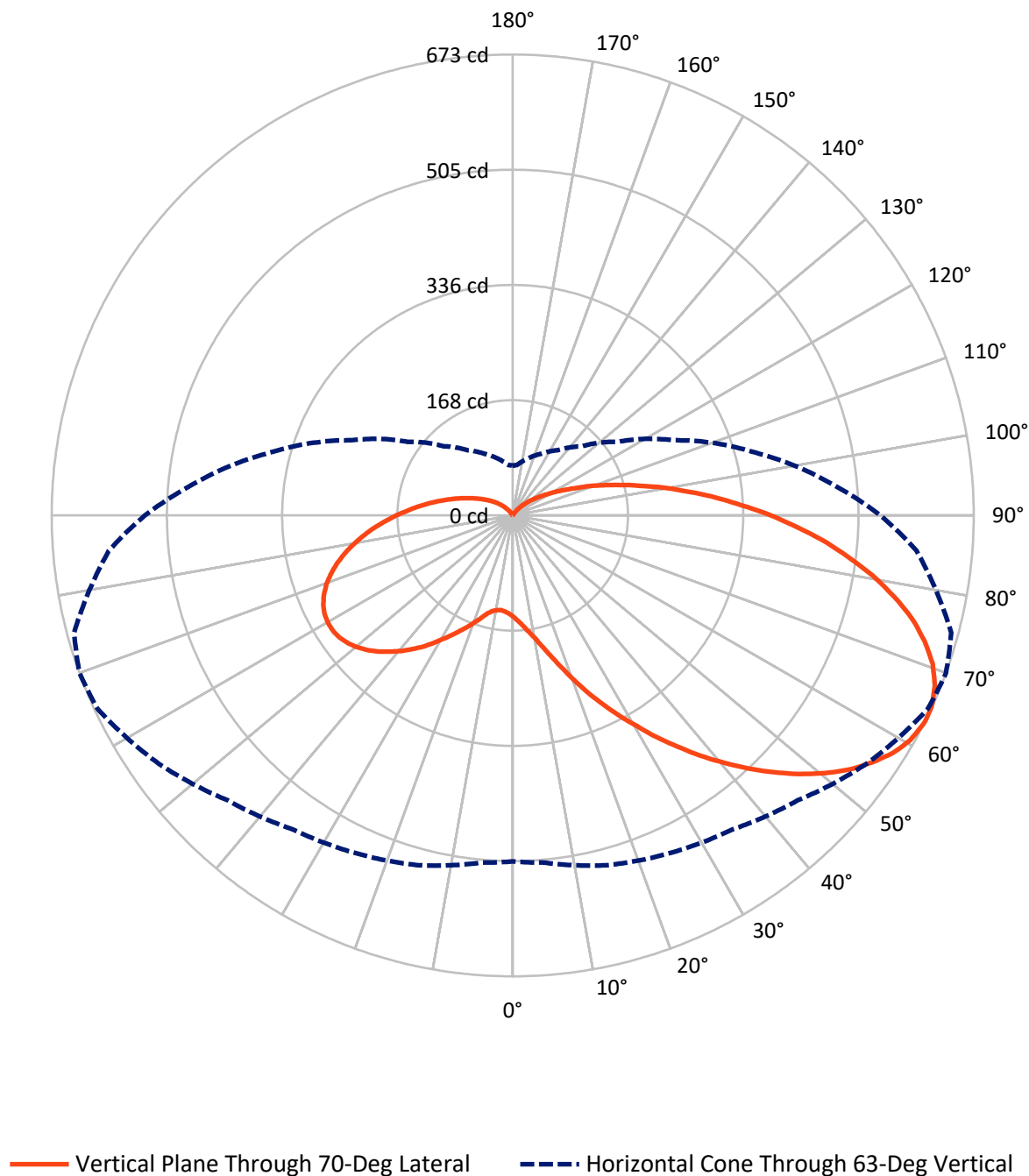


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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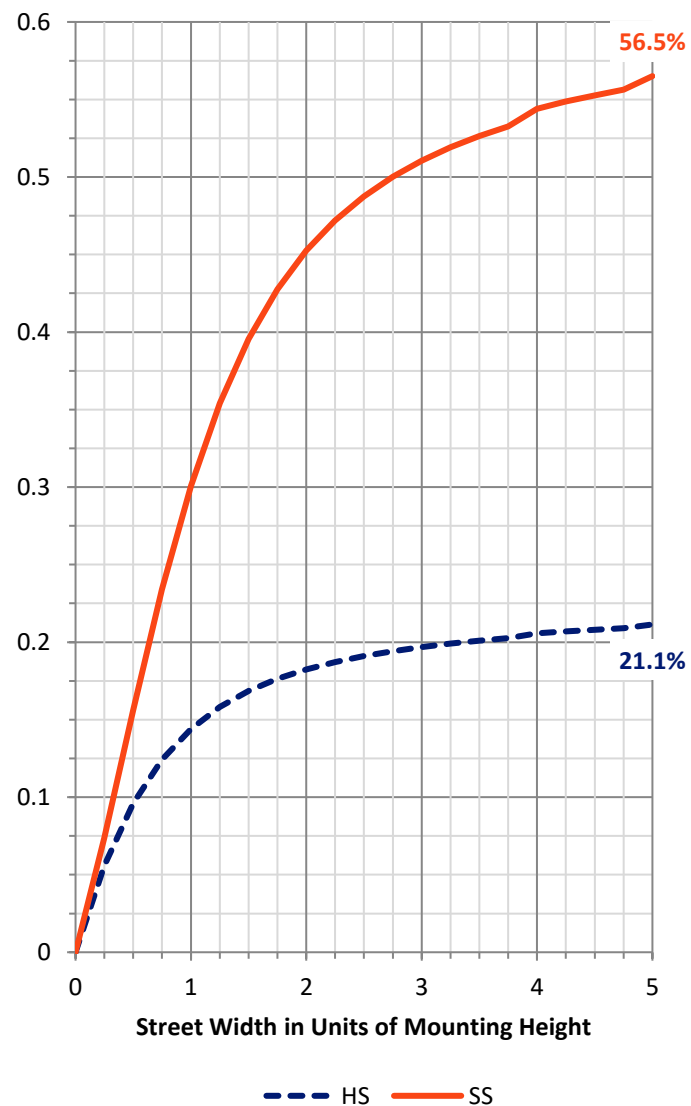
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	539.0	130.4	669.4
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1456.9	273.4	1730.3
	% Fixture	60.7	11.4	72.1
Total	Lumens	1995.9	403.8	2399.7
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.6
10°-20°	51.3	2.1
20°-30°	108.9	4.5
30°-40°	187.8	7.8
40°-50°	277.0	11.5
50°-60°	352.6	14.7
60°-70°	382.7	15.9
70°-80°	350.0	14.6
80°-90°	270.8	11.3
90°-100°	182.5	7.6
100°-110°	111.0	4.6
110°-120°	62.2	2.6
120°-130°	31.7	1.3
130°-140°	13.1	0.5
140°-150°	3.2	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1995.9	83.2
0°-180°	2399.7	100.0

Coefficient of Utilization



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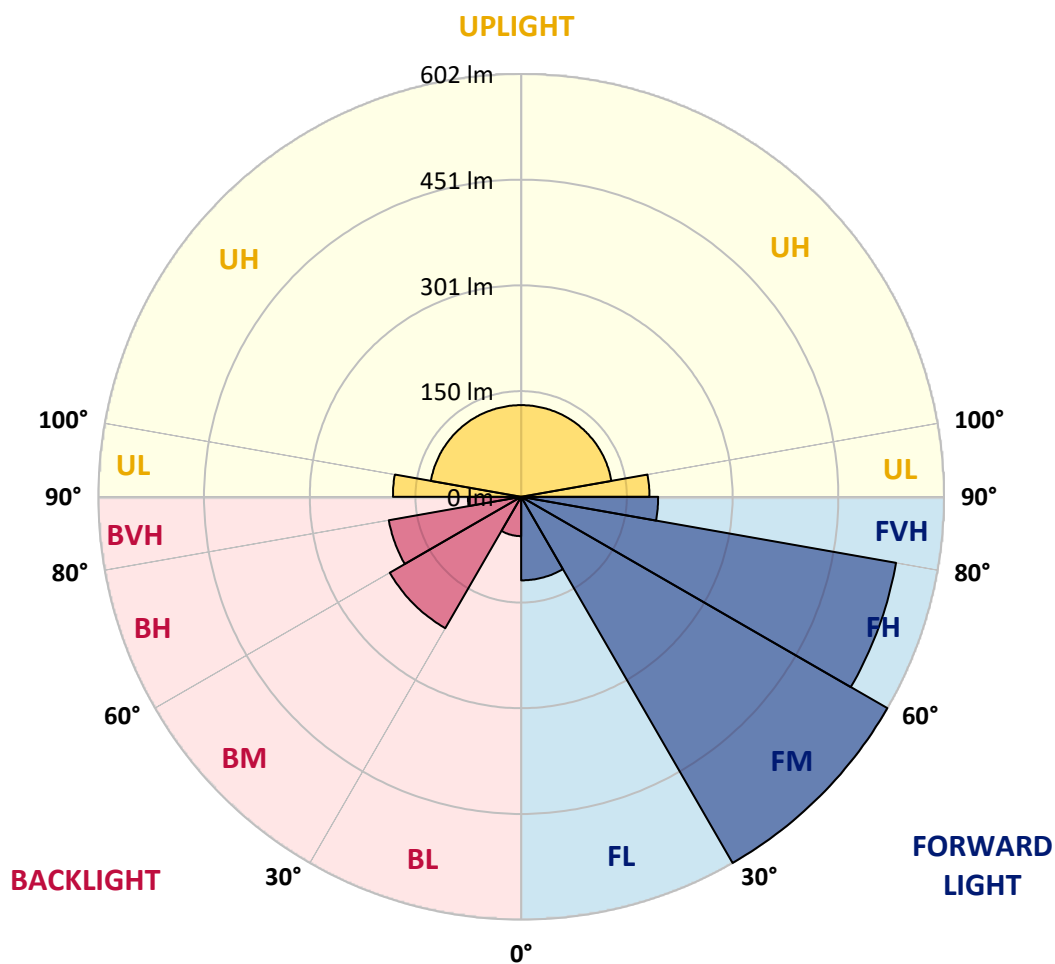
CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.9	5.0			
FM	(30°-60°)	601.6	25.1			
FH	(60°-80°)	541.5	22.6			G0/660
FVH	(80°-90°)	194.9	8.1			G2/225
BL	(0°-30°)	56.0	2.3	B0/110		
BM	(30°-60°)	215.9	9.0	B0/220		
BH	(60°-80°)	191.3	8.0	B1/500		G1/500
BVH	(80°-90°)	75.8	3.2			G1/100
UL	(90°-100°)	182.5	7.6		U3/500	
UH	(100°-180°)	130.4	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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	165.1	164.7	164.4	162.8	162.1	159.8	157.8	155.5	154.2	152.9	150.3
5°	182.4	181.6	180.6	179.1	176.2	173.0	169.1	164.4	162.1	159.4	154.2
7.5°	199.3	199.1	198.7	195.4	192.4	187.2	181.6	175.2	171.9	167.7	159.8
10°	218.0	218.6	216.8	213.7	208.9	203.2	196.1	187.2	183.1	178.5	168.1
12.5°	239.3	238.9	237.3	232.4	227.1	221.0	212.1	202.7	197.7	191.5	178.1
15°	260.8	259.5	257.5	254.3	247.8	240.6	231.0	220.3	214.8	207.9	192.9
17.5°	283.3	282.3	281.1	275.5	270.0	261.1	253.3	241.6	234.6	227.1	209.8
20°	306.0	305.2	303.6	299.3	292.5	284.7	277.1	264.7	256.8	247.8	228.1
22.5°	329.8	329.5	327.8	322.9	317.3	312.4	303.0	289.0	281.3	270.3	247.5
25°	354.3	354.7	351.6	347.0	343.2	338.7	328.8	314.0	305.0	293.4	267.6
27.5°	380.7	379.4	377.5	373.2	370.0	364.7	354.7	339.6	330.8	318.3	289.6
30°	405.2	405.7	401.4	398.8	396.4	391.5	382.0	366.7	356.8	345.5	312.4
32.5°	431.7	430.5	427.6	424.9	423.2	418.0	409.2	395.9	386.0	371.5	335.6
35°	454.9	454.6	451.4	451.9	447.7	443.6	436.9	424.5	414.4	400.7	361.5
37.5°	478.7	478.2	475.8	476.6	471.6	468.3	464.2	453.4	444.8	430.7	388.2
40°	501.3	499.7	498.1	499.1	495.4	493.2	491.0	483.4	474.6	459.8	414.7
42.5°	519.7	519.3	518.3	519.9	516.3	515.7	517.1	513.1	505.2	490.3	441.5
45°	535.4	535.4	536.6	537.6	534.4	535.4	541.9	540.9	534.8	519.7	469.4
47.5°	547.7	547.4	550.8	552.0	550.4	554.0	564.8	569.3	564.1	550.0	495.1
50°	555.0	555.0	560.8	562.5	562.8	569.6	584.6	594.9	591.3	577.8	519.7
52.5°	556.9	557.6	565.8	569.3	570.7	581.5	602.0	617.3	616.1	603.3	541.9
55°	553.6	554.7	565.5	571.1	574.8	589.9	615.8	637.3	636.4	624.6	560.3
57.5°	544.6	545.8	559.6	567.6	574.8	594.5	625.8	653.0	654.3	643.1	575.9
60°	530.1	531.7	548.4	559.3	570.3	594.1	631.1	663.2	666.2	654.7	586.4
62.5°	510.1	512.2	531.4	546.4	561.5	589.6	631.5	668.1	671.9	661.8	591.3
63°	504.9	508.5	528.6	543.6	559.3	588.0	631.1	668.3	672.7	662.5	591.5
65°	484.6	488.6	511.5	529.1	548.1	580.5	626.6	666.7	671.9	662.2	589.9
67.5°	456.2	461.5	485.7	507.3	531.4	567.1	616.3	658.5	664.4	655.0	582.7
70°	423.9	431.0	456.6	483.4	510.1	549.0	600.7	644.5	650.1	640.2	568.4
72.5°	391.2	399.0	426.9	455.6	485.7	526.9	578.8	623.2	628.5	620.0	548.4
75°	358.2	364.2	392.9	426.2	458.9	501.1	554.7	596.1	602.0	592.0	523.6
77.5°	323.2	331.5	361.2	394.9	429.7	474.6	525.9	565.2	568.6	558.6	491.6
80°	289.0	298.1	327.2	363.5	400.4	443.6	492.5	530.8	532.8	521.9	457.2
82.5°	258.8	267.3	297.1	332.1	369.4	413.4	458.2	491.0	492.2	482.1	421.7
85°	229.7	237.3	265.7	301.7	339.3	380.2	422.9	450.7	452.3	440.3	384.0
87.5°	203.6	209.6	237.0	272.9	309.6	349.7	385.4	408.5	408.9	397.1	346.7
90°	181.1	184.6	211.6	246.8	281.3	317.3	350.7	371.0	368.3	355.9	308.2
92.5°	159.2	162.1	186.6	221.0	255.3	287.5	316.7	329.8	326.9	316.1	274.0
95°	141.6	142.8	165.4	197.7	228.4	259.3	284.0	293.4	290.5	279.2	239.8
97.5°	123.5	125.6	146.2	175.4	205.3	233.0	253.3	259.5	254.0	242.8	210.2
100°	110.1	110.9	128.1	156.2	184.3	208.5	224.5	228.4	222.6	212.4	183.1
102.5°	97.7	97.3	113.0	139.2	164.4	184.6	198.3	198.0	191.9	183.1	158.8
105°	87.0	86.5	98.8	122.9	145.4	163.4	173.6	172.2	166.0	157.6	138.2
107.5°	76.8	77.4	86.2	107.5	127.7	143.8	151.4	148.4	142.8	134.9	120.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	69.3	69.3	76.1	94.4	113.0	126.1	132.1	127.7	122.6	114.8	103.7
112.5°	62.4	62.4	67.4	82.4	99.4	111.1	115.1	109.6	103.2	98.1	89.9
115°	56.2	56.2	59.5	71.5	86.5	96.4	98.8	92.9	87.6	83.6	78.4
117.5°	50.9	50.9	52.9	61.4	74.9	84.0	85.2	78.8	75.2	71.2	68.4
120°	46.2	46.4	47.2	52.6	63.7	71.5	72.3	66.0	63.2	61.2	59.5
122.5°	41.9	41.9	42.2	45.5	54.3	60.7	60.7	55.5	53.5	52.9	51.7
125°	37.9	37.9	37.9	39.3	45.2	50.3	49.6	46.4	45.5	45.5	44.7
127.5°	34.3	34.0	33.6	34.0	36.9	40.6	40.6	38.3	38.3	38.5	38.8
130°	30.7	30.5	29.7	29.0	29.5	32.0	31.7	31.0	31.7	32.7	33.3
132.5°	27.0	27.0	26.1	24.6	23.5	24.2	24.6	24.9	25.8	27.0	28.0
135°	23.5	23.5	22.5	20.2	18.2	18.0	17.6	19.3	20.9	22.2	23.1
137.5°	19.9	19.9	19.0	16.3	13.7	12.4	12.0	14.7	16.3	17.6	18.7
140°	16.7	16.3	15.5	12.8	9.8	7.8	7.8	10.5	12.0	13.5	14.7
142.5°	13.0	13.0	12.0	9.8	6.6	4.6	4.9	7.1	8.5	9.5	10.5
145°	9.8	9.8	8.9	6.6	4.0	2.2	2.6	4.6	5.6	6.6	7.5
147.5°	6.8	6.8	5.8	4.2	1.9	0.7	1.3	2.6	3.2	4.0	4.6
150°	4.2	4.2	3.7	2.2	1.0	0.0	0.3	1.3	1.6	1.9	2.6
152.5°	2.2	2.2	1.6	1.0	0.3	0.0	0.0	0.3	0.7	1.0	1.3
155°	1.0	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	148.9	147.7	144.7	142.2	139.9	137.6	135.6	133.9	133.7	132.7	132.9
5°	151.4	148.7	143.2	138.2	132.9	128.7	125.6	122.6	120.3	119.3	118.9
7.5°	155.9	151.6	143.2	135.4	128.1	121.6	116.1	111.7	109.1	107.5	107.8
10°	162.5	156.8	145.4	134.7	124.5	115.7	108.5	103.2	99.4	97.7	97.7
12.5°	170.9	164.4	149.7	135.6	122.9	111.7	102.6	96.1	92.4	90.2	90.2
15°	184.6	175.2	156.8	138.9	122.9	109.6	99.4	92.2	88.9	87.2	87.0
17.5°	199.3	189.0	167.1	145.4	125.9	109.1	99.1	92.9	88.9	87.0	87.0
20°	215.4	202.9	177.9	152.9	130.8	113.0	101.7	94.1	89.2	86.5	86.2
22.5°	232.8	218.9	189.3	160.7	136.6	119.7	104.9	95.1	89.2	86.5	86.2
25°	252.0	235.4	201.0	169.6	144.4	125.6	108.9	96.4	89.2	86.0	85.6
27.5°	271.6	253.0	214.1	178.1	152.6	131.1	112.5	97.3	89.2	85.6	85.2
30°	292.8	270.6	226.8	187.9	160.2	136.0	115.3	98.4	89.2	85.2	85.0
32.5°	313.8	290.0	240.6	199.1	167.4	139.9	117.9	100.3	89.6	85.0	84.4
35°	337.0	310.5	255.3	210.2	173.9	143.5	120.3	101.7	89.2	84.4	84.0
37.5°	361.2	330.8	268.7	219.9	179.1	146.2	121.6	102.6	89.2	84.0	83.4
40°	385.4	351.3	283.1	229.7	184.1	148.4	122.9	103.7	88.9	83.4	82.6
42.5°	408.9	371.5	297.1	238.0	187.9	149.9	123.5	104.3	88.9	82.6	82.0
45°	433.1	392.2	311.8	245.7	190.9	150.6	123.5	104.3	89.2	82.0	81.3
47.5°	456.2	411.5	325.1	252.0	193.1	150.9	123.5	104.3	89.2	81.3	80.4
50°	476.8	429.1	336.3	257.3	194.5	150.9	123.2	104.3	89.2	80.4	79.4
52.5°	496.9	444.5	346.7	260.8	195.1	150.3	122.6	103.7	89.2	79.4	78.4
55°	512.8	458.2	353.9	263.2	194.5	149.4	121.2	102.9	88.9	78.4	77.2
57.5°	525.6	468.0	359.5	263.7	193.1	147.7	120.0	102.0	88.3	77.2	76.1
60°	533.8	473.5	361.2	262.5	191.2	145.4	118.2	101.0	87.2	75.8	74.5
62.5°	536.6	475.6	360.5	259.8	188.3	143.2	116.7	99.7	86.2	74.2	72.9
63°	536.6	475.3	360.2	259.3	187.2	142.6	116.3	99.4	86.0	73.9	72.6
65°	534.8	472.6	356.8	255.3	184.3	140.2	114.8	98.1	85.2	72.9	71.2
67.5°	526.5	465.7	349.4	249.4	179.4	136.9	112.1	96.1	83.6	71.2	69.6
70°	513.4	454.0	339.3	241.6	174.2	133.4	109.6	94.1	82.0	69.6	67.6
72.5°	494.2	437.7	326.5	232.4	168.1	129.4	106.5	91.8	79.8	67.6	65.3
75°	470.4	417.7	311.4	221.9	161.8	124.9	103.7	89.2	77.4	65.7	62.7
77.5°	442.1	394.4	294.1	211.1	154.6	120.3	100.0	86.2	75.2	63.7	60.1
80°	410.9	367.0	275.5	199.1	147.1	115.3	96.4	83.4	72.0	61.2	57.5
82.5°	379.4	339.6	255.8	186.6	139.5	110.5	92.4	80.0	69.0	58.5	54.8
85°	345.5	310.9	236.7	173.9	131.7	104.9	88.6	76.4	66.0	55.9	51.9
87.5°	312.8	281.7	215.4	161.4	124.1	100.0	84.6	72.9	62.4	52.6	49.6
90°	281.1	254.0	197.1	148.7	116.1	94.4	80.4	69.0	58.7	49.3	47.2
92.5°	250.4	225.8	177.1	136.9	108.5	89.2	75.8	65.0	55.2	46.4	44.5
95°	221.6	201.3	160.4	125.1	101.2	84.0	71.5	61.4	51.4	42.8	41.5
97.5°	194.5	178.1	144.2	115.1	93.5	78.8	67.1	57.2	47.4	39.5	38.8
100°	171.5	157.6	128.7	104.7	86.5	73.5	62.7	52.9	43.5	36.3	36.3
102.5°	149.9	137.6	114.4	94.9	79.8	68.0	57.9	48.7	39.5	33.3	33.3
105°	131.1	120.9	102.2	86.0	73.2	62.7	53.3	44.5	35.4	30.5	30.5
107.5°	113.7	105.9	90.9	77.9	66.7	57.2	48.7	39.9	31.0	27.5	27.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	99.7	93.5	80.8	69.6	60.5	52.6	44.5	35.7	27.0	24.9	24.9
112.5°	86.2	81.3	71.2	62.7	54.8	47.7	39.9	31.4	23.9	22.5	22.5
115°	75.5	71.5	63.2	55.9	49.3	42.8	35.4	27.0	20.7	19.9	20.2
117.5°	66.0	62.7	56.2	50.3	44.5	38.3	31.4	23.1	18.0	18.0	18.0
120°	57.5	55.2	49.3	44.5	39.5	33.6	27.0	19.7	15.7	15.7	16.0
122.5°	50.7	48.4	44.1	39.3	34.7	29.5	23.1	16.3	13.7	14.1	14.5
125°	43.7	42.5	38.5	34.3	30.1	24.9	19.3	13.5	12.0	12.4	12.8
127.5°	38.3	37.3	33.3	29.7	25.8	20.9	15.7	10.8	10.2	10.8	11.0
130°	32.7	32.0	29.0	25.5	21.6	17.2	12.4	8.9	8.9	9.5	9.5
132.5°	27.8	27.0	24.6	20.9	17.6	13.5	9.5	7.1	7.5	8.2	8.2
135°	23.1	22.5	20.2	17.2	13.7	10.2	7.1	5.8	6.6	6.8	6.8
137.5°	19.0	18.2	16.3	13.5	10.2	7.1	5.2	4.6	5.2	5.8	5.8
140°	14.5	14.5	12.8	10.2	7.1	4.9	3.7	3.7	4.2	4.6	4.6
142.5°	10.8	10.5	9.5	7.1	4.6	3.0	2.2	2.6	3.2	3.7	3.7
145°	7.5	7.1	6.6	4.9	2.6	1.6	1.3	1.9	2.2	2.6	2.6
147.5°	4.9	4.6	4.2	3.0	1.3	0.7	0.7	1.3	1.6	1.9	1.9
150°	2.6	2.6	2.2	1.3	0.7	0.0	0.3	0.7	1.0	1.0	1.0
152.5°	1.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.3	0.3	0.3
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	0.3	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	0.3	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)