

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: P240209

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.2 lumens
Efficiency: N/A
Efficacy: 93.8 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 - G3

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



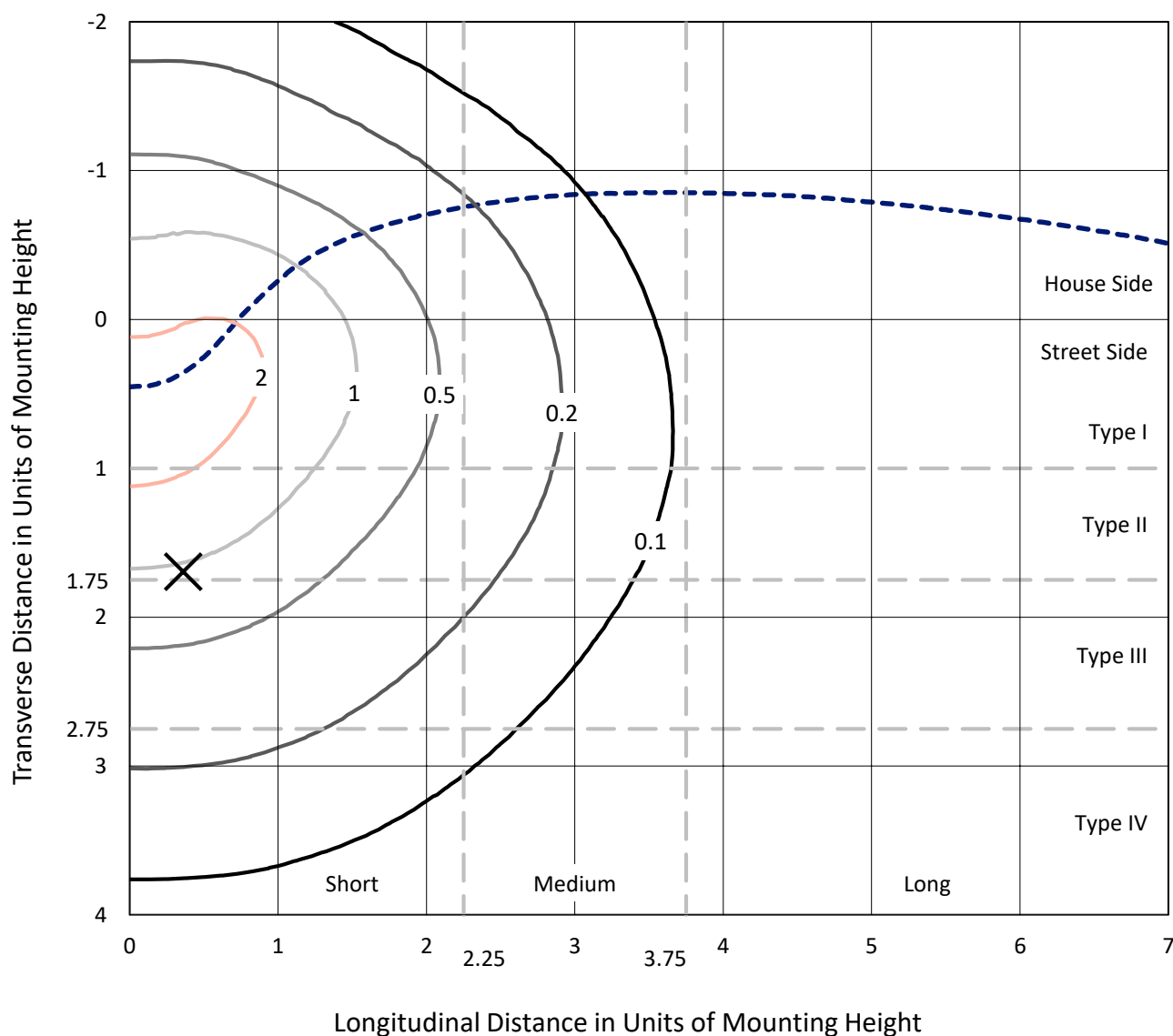
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

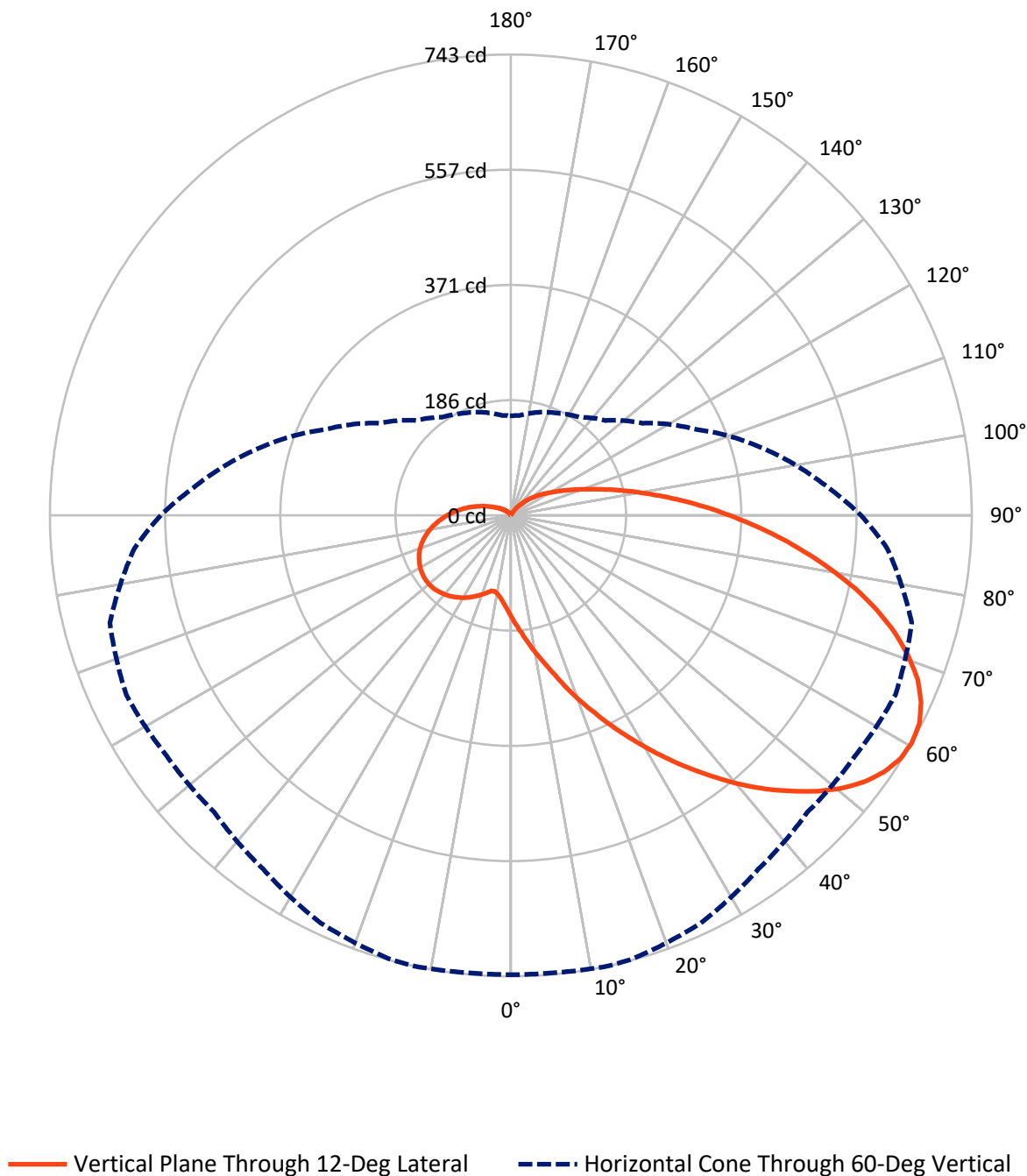


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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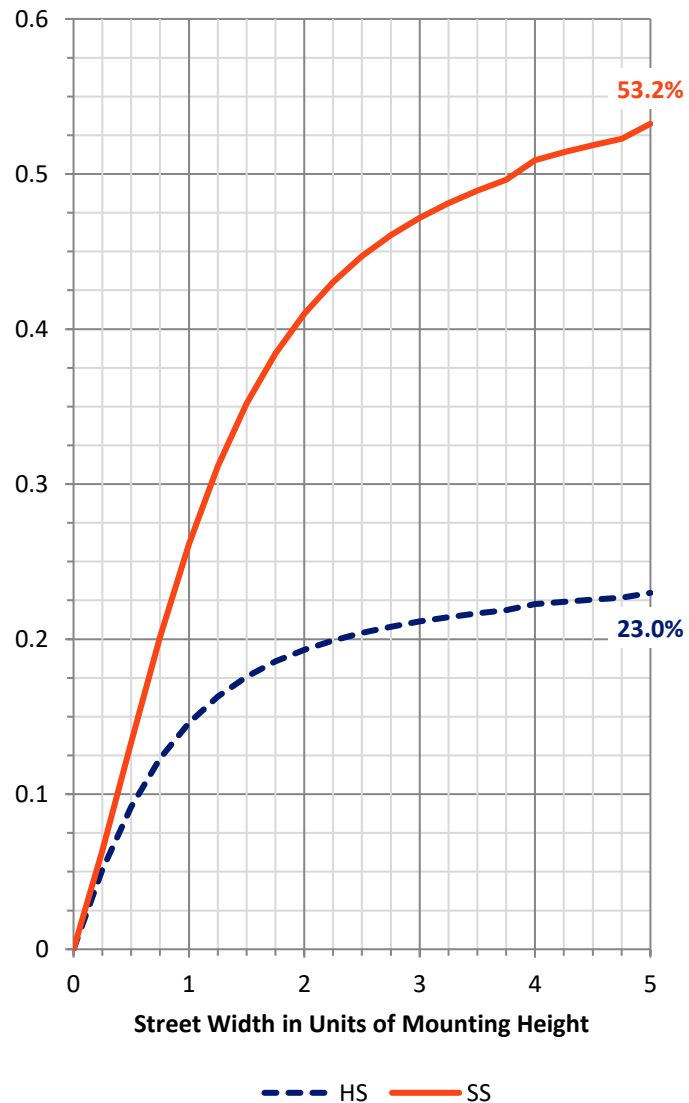
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.8	164.6	879.4
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	1686.7	341.1	2027.9
	% Fixture	58.0	11.7	69.8
Total	Lumens	2401.5	505.7	2907.2
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.6
10°-20°	57.0	2.0
20°-30°	122.3	4.2
30°-40°	214.1	7.4
40°-50°	322.4	11.1
50°-60°	420.9	14.5
60°-70°	468.7	16.1
70°-80°	437.6	15.1
80°-90°	342.3	11.8
90°-100°	231.3	8.0
100°-110°	139.8	4.8
110°-120°	77.0	2.6
120°-130°	38.3	1.3
130°-140°	15.3	0.5
140°-150°	3.7	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2401.5	82.6
0°-180°	2907.2	100.0

Coefficient of Utilization



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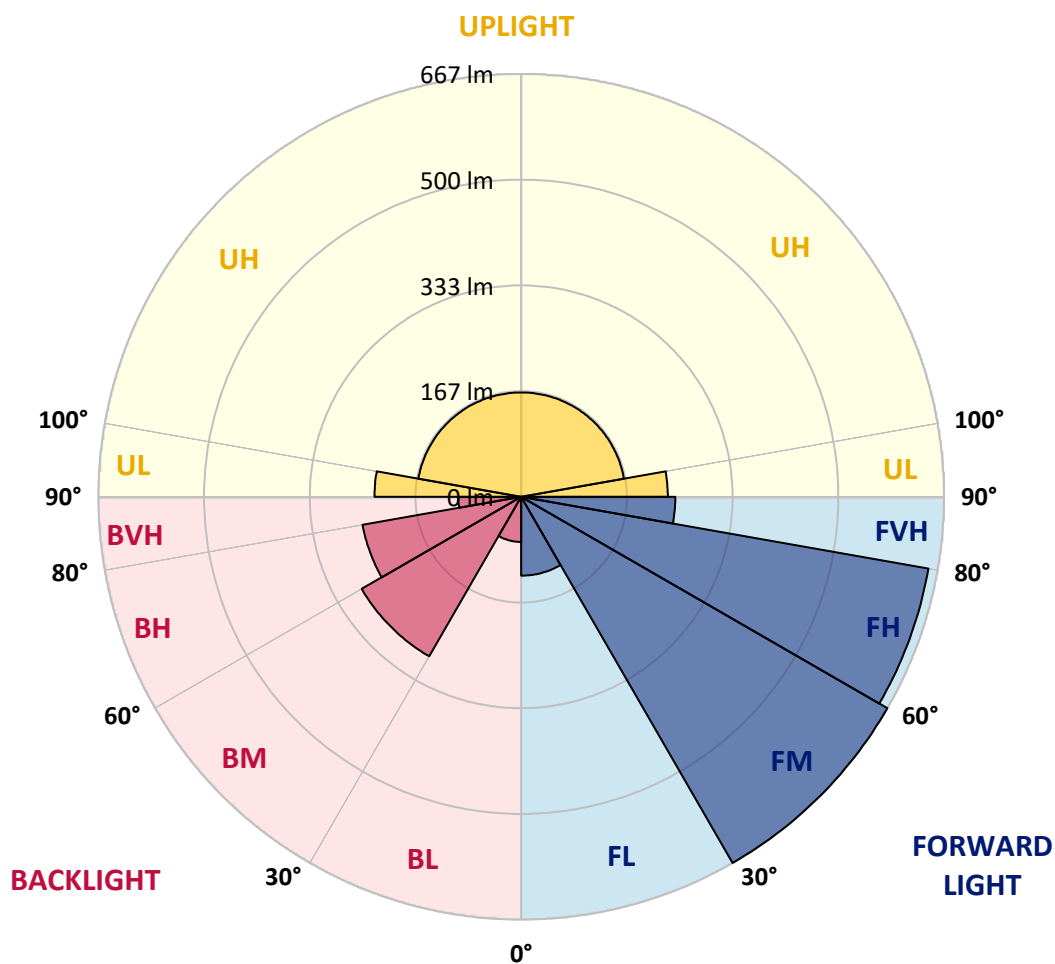
CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.3	4.3			
FM	(30°-60°)	667.0	22.9			
FH	(60°-80°)	652.3	22.4			G0/660
FVH	(80°-90°)	243.1	8.4			G3/500
BL	(0°-30°)	71.2	2.4	B0/110		
BM	(30°-60°)	290.4	10.0	B1/1000		
BH	(60°-80°)	253.9	8.7	B1/500		G1/500
BVH	(80°-90°)	99.2	3.4			G1/100
UL	(90°-100°)	231.3	8.0		U3/500	
UH	(100°-180°)	164.6	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	178.1	177.4	177.4	176.6	176.6	175.0	173.9	172.0	170.0	167.8	165.8
5°	192.4	192.4	191.6	191.6	190.1	187.4	184.6	181.3	177.8	173.9	169.3
7.5°	209.3	208.9	208.9	207.8	205.8	202.0	198.1	193.1	187.7	181.3	175.0
10°	226.6	226.3	226.3	225.0	222.8	218.2	212.4	206.6	199.7	191.2	182.8
12.5°	247.3	245.8	245.1	244.7	240.9	236.6	229.3	222.4	213.2	203.6	193.1
15°	269.3	268.9	266.7	265.5	261.7	255.1	248.2	239.7	230.5	219.7	207.0
17.5°	294.0	294.0	292.4	290.8	286.6	277.8	268.9	260.9	251.6	238.6	224.3
20°	320.5	320.5	318.5	316.3	310.9	303.2	294.3	284.7	273.5	259.3	242.0
22.5°	348.6	347.8	345.1	343.6	337.1	328.6	321.6	310.5	297.4	281.2	261.3
25°	378.2	377.1	374.4	372.9	365.1	358.5	350.5	337.5	322.4	303.9	281.6
27.5°	409.4	406.3	404.4	402.0	394.8	388.2	377.1	364.8	347.4	328.2	303.6
30°	439.4	438.2	435.9	432.8	426.3	418.6	406.3	392.8	375.9	354.8	327.4
32.5°	473.6	472.5	468.6	465.5	457.1	449.0	436.3	422.1	404.0	381.7	352.0
35°	507.9	506.4	502.1	498.6	491.7	479.8	464.8	451.3	433.2	410.5	378.6
37.5°	543.3	540.2	535.6	533.3	524.8	510.1	494.4	479.8	463.2	440.2	405.5
40°	576.7	575.2	569.8	567.1	557.9	539.8	522.5	509.4	494.4	470.1	433.6
42.5°	611.0	608.2	602.9	600.2	589.4	568.7	550.6	538.3	525.6	501.8	462.1
45°	641.4	640.3	633.7	632.2	619.1	596.8	575.9	565.2	554.0	531.3	488.3
47.5°	671.1	668.3	664.1	662.2	646.8	621.3	601.0	591.8	582.5	561.7	516.4
50°	695.2	694.9	691.0	688.8	671.1	643.3	622.6	615.2	610.2	590.2	541.8
52.5°	716.1	715.7	713.3	711.1	692.1	663.3	641.8	636.4	634.8	616.3	564.1
55°	730.6	730.3	729.5	727.2	708.7	679.0	658.0	653.7	655.6	638.3	584.0
57.5°	739.1	738.7	739.9	738.0	719.1	689.9	669.1	667.9	672.6	656.7	599.0
60°	739.9	739.9	742.6	741.4	724.5	695.6	676.0	676.4	683.7	668.7	608.7
62.5°	732.9	732.9	738.7	737.5	722.9	695.2	677.2	680.3	689.5	675.2	612.1
65°	717.9	719.9	726.4	726.4	714.8	689.9	673.3	677.9	689.1	674.8	609.8
67.5°	694.1	698.0	707.2	708.0	699.9	677.9	663.3	669.8	682.2	667.2	600.2
70°	664.5	669.8	679.4	682.2	678.7	660.6	648.3	656.0	667.9	652.9	584.4
72.5°	629.8	634.8	647.1	650.2	651.4	637.2	627.5	636.8	646.4	630.2	562.5
75°	591.4	595.6	609.5	612.5	617.6	609.5	603.3	610.6	621.3	601.4	534.4
77.5°	544.8	552.1	567.5	571.0	580.6	576.7	572.1	580.9	589.0	567.9	501.8
80°	499.8	509.0	521.7	528.7	540.2	539.8	540.5	546.4	553.3	530.2	466.4
82.5°	454.0	460.5	475.6	482.1	499.8	504.0	504.0	511.7	514.0	488.3	428.2
85°	407.9	415.5	430.6	437.1	456.3	465.5	468.2	472.1	472.5	445.5	389.0
87.5°	367.0	371.6	385.9	393.9	414.8	425.5	429.0	433.6	430.6	404.0	348.6
90°	326.2	330.5	344.3	350.9	373.6	386.3	393.9	395.9	389.7	361.7	311.7
92.5°	288.2	292.4	305.5	313.2	335.5	348.9	356.3	357.8	350.9	322.4	275.9
95°	254.7	254.7	268.9	274.7	299.7	314.8	321.6	321.6	312.0	284.0	241.6
97.5°	223.1	223.9	235.1	242.4	265.5	281.2	288.6	289.0	275.5	248.9	212.8
100°	194.7	195.8	206.2	212.8	235.1	251.6	258.2	257.0	243.2	215.8	183.9
102.5°	171.2	171.2	180.0	185.5	206.6	223.1	229.3	227.0	212.8	186.6	160.4
105°	150.1	150.8	156.6	161.9	182.0	197.3	203.6	200.1	185.5	160.1	140.0
107.5°	133.1	132.8	136.6	140.5	159.3	173.9	179.3	175.0	159.7	137.0	121.6
110°	116.2	116.6	119.7	122.3	139.6	153.5	157.3	153.9	136.6	116.6	105.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	102.7	102.7	105.1	107.3	119.7	133.1	137.8	132.8	116.2	98.9	92.0
115°	91.1	91.6	92.4	93.5	103.9	116.2	120.0	113.9	97.7	84.6	80.0
117.5°	81.2	81.2	81.5	82.8	89.3	100.5	103.1	96.6	82.8	72.3	70.4
120°	72.7	72.3	71.9	72.3	76.9	85.0	87.8	81.2	68.8	62.7	61.2
122.5°	64.7	64.7	63.8	64.2	65.4	71.6	73.4	67.3	58.1	54.2	53.9
125°	57.0	57.0	56.2	55.8	55.4	58.5	59.2	54.6	48.1	47.0	46.5
127.5°	49.6	50.0	48.9	48.5	47.0	47.4	47.7	43.5	39.6	40.0	40.4
130°	43.5	43.5	42.4	41.5	39.3	37.3	36.5	33.9	32.3	33.9	35.0
132.5°	37.7	36.9	36.2	35.4	31.9	29.3	27.7	25.4	26.2	28.4	29.7
135°	31.5	31.2	30.0	29.7	26.2	21.9	19.2	18.5	20.8	23.4	24.2
137.5°	25.8	25.8	24.7	23.8	20.0	15.8	13.1	13.1	15.8	18.5	20.0
140°	20.4	20.4	19.2	18.5	15.0	10.7	8.1	8.5	11.6	14.2	15.3
142.5°	15.3	15.3	14.2	13.8	10.7	7.0	4.6	5.4	8.1	10.4	11.6
145°	11.2	10.7	10.0	9.6	7.0	4.2	2.4	3.1	5.0	7.0	8.1
147.5°	7.3	7.3	6.5	6.1	4.2	2.4	0.8	1.5	3.1	4.2	5.4
150°	4.2	4.2	3.9	3.5	2.4	0.8	0.0	0.8	1.5	2.4	3.1
152.5°	2.4	2.4	1.9	1.9	0.8	0.4	0.0	0.0	0.4	1.1	1.1
155°	0.8	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	164.7	163.6	161.2	159.3	157.3	155.1	153.9	152.7	152.0	151.2	151.2
5°	166.9	164.7	160.4	156.2	152.3	148.9	145.8	143.5	142.4	141.6	141.2
7.5°	172.0	168.5	161.6	155.1	149.2	143.9	139.6	136.2	134.3	133.1	132.8
10°	178.5	173.5	164.7	155.8	148.1	141.2	135.4	131.2	128.5	127.4	126.5
12.5°	187.4	181.3	169.7	158.6	148.5	140.0	132.8	128.1	125.4	123.9	123.9
15°	200.8	192.7	178.5	163.6	151.2	140.9	132.8	127.8	125.8	125.0	124.7
17.5°	216.3	207.0	189.7	172.4	156.6	143.5	136.2	133.1	130.4	129.3	129.3
20°	233.1	222.0	202.0	182.4	164.7	151.2	143.1	138.1	135.0	133.9	133.5
22.5°	250.1	238.6	215.1	192.7	173.2	161.2	149.7	143.5	139.6	138.1	137.8
25°	269.3	256.7	228.9	203.9	185.1	171.5	158.1	149.2	144.2	142.4	142.0
27.5°	290.1	275.1	244.3	215.8	196.6	180.9	165.8	153.9	148.9	146.6	146.2
30°	311.7	295.1	259.7	228.1	207.8	188.9	173.2	159.7	153.1	150.5	150.1
32.5°	334.3	314.8	276.3	242.7	218.2	196.2	179.3	165.1	157.0	153.9	153.9
35°	359.8	337.1	292.4	256.2	227.8	203.6	184.6	170.0	160.4	157.3	157.3
37.5°	384.0	359.4	309.7	270.9	236.6	209.3	188.9	174.7	163.9	160.1	160.1
40°	409.8	381.7	326.2	282.7	244.3	213.9	192.7	178.1	166.6	163.2	162.3
42.5°	434.8	404.0	343.9	295.1	250.8	217.8	195.8	181.3	168.9	164.7	164.3
45°	460.9	426.3	360.9	305.1	256.2	220.4	197.3	183.1	171.5	166.2	165.4
47.5°	483.7	447.4	377.5	313.9	260.4	222.0	198.6	184.6	173.2	166.9	166.2
50°	506.4	466.4	391.3	321.3	262.8	222.8	199.0	185.1	174.3	166.9	166.2
52.5°	526.7	484.1	403.2	326.2	263.9	222.4	198.6	185.1	174.7	166.2	165.4
55°	543.7	498.3	411.6	329.4	263.9	221.3	197.3	184.3	174.3	165.4	164.3
57.5°	556.4	507.9	417.5	330.1	262.0	218.9	195.5	183.1	173.2	163.9	162.3
60°	564.1	513.2	419.4	328.2	258.9	216.3	193.1	181.6	172.0	161.6	160.4
62.5°	566.3	514.0	417.5	324.4	254.7	212.4	189.7	178.9	169.7	158.9	157.7
65°	562.5	509.8	412.0	318.1	248.9	207.8	186.2	175.8	166.9	155.8	154.7
67.5°	552.1	500.5	402.4	309.7	242.4	202.3	182.4	172.4	163.9	152.3	150.1
70°	536.7	486.7	390.2	299.3	234.7	196.6	177.8	168.2	159.7	148.5	146.2
72.5°	514.4	467.9	374.0	286.6	225.9	190.5	172.0	163.2	155.1	143.9	140.9
75°	487.4	443.7	354.8	273.5	216.7	183.1	166.2	157.7	149.7	138.5	135.8
77.5°	457.5	418.2	334.0	258.6	205.8	175.8	160.1	152.0	143.5	132.8	128.9
80°	424.7	388.6	311.3	243.2	195.8	167.8	153.1	145.5	137.0	126.5	122.3
82.5°	389.3	357.8	288.6	227.8	184.6	159.7	146.2	138.5	129.7	119.7	115.4
85°	354.8	326.2	264.7	211.2	173.9	151.2	138.5	130.8	122.8	112.3	108.5
87.5°	319.0	294.3	241.2	195.1	163.2	143.1	131.2	123.2	114.7	105.1	102.0
90°	287.8	264.3	219.3	179.6	152.0	134.3	123.5	115.1	107.0	97.7	95.0
92.5°	254.7	235.5	197.7	165.1	141.6	125.8	115.8	107.7	98.9	90.0	88.1
95°	226.3	210.4	178.1	150.5	130.4	117.7	108.1	99.6	90.8	82.3	81.2
97.5°	199.0	185.9	158.9	137.0	120.8	109.3	100.0	92.0	82.8	75.0	74.3
100°	174.7	163.2	141.6	124.7	110.4	101.2	92.7	84.3	75.0	67.7	67.7
102.5°	152.3	143.5	126.2	112.0	101.2	92.4	84.6	76.2	66.9	60.8	61.2
105°	134.3	125.8	111.6	100.8	92.0	83.9	76.5	68.1	59.2	54.2	54.6
107.5°	116.9	110.4	98.9	89.6	82.8	76.2	68.4	60.5	51.6	48.5	48.9
110°	102.0	97.0	87.8	80.0	74.7	68.4	61.6	53.1	45.0	43.1	43.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	88.9	84.6	77.7	71.6	66.2	61.2	53.9	46.1	38.5	37.7	37.7
115°	77.7	74.7	68.1	63.1	59.2	54.2	47.7	39.6	33.5	33.0	33.5
117.5°	68.1	65.4	60.0	55.8	52.4	47.7	41.5	33.9	28.4	28.8	29.3
120°	59.6	57.7	53.1	49.6	46.1	41.9	35.4	28.4	25.0	25.4	25.4
122.5°	52.7	50.7	47.0	43.5	40.4	36.2	30.4	23.8	21.6	22.3	22.3
125°	45.8	44.6	40.8	37.7	34.7	30.4	25.0	19.6	18.5	19.2	19.2
127.5°	39.6	38.9	35.8	32.3	29.3	25.4	20.4	16.2	15.8	16.6	16.6
130°	34.3	33.5	30.8	27.7	24.2	20.8	15.8	13.1	13.5	14.2	14.6
132.5°	29.3	28.8	26.2	22.7	19.6	16.2	12.3	10.7	11.6	12.3	12.3
135°	24.2	23.8	21.9	18.8	15.3	12.3	9.2	8.5	9.6	10.4	10.4
137.5°	20.0	19.2	17.7	14.6	11.6	8.9	6.5	7.0	7.7	8.5	8.5
140°	15.8	15.3	13.8	11.2	8.1	5.7	4.6	5.4	6.5	7.0	7.0
142.5°	11.6	11.6	10.0	7.7	5.0	3.5	3.1	3.9	5.0	5.4	5.4
145°	8.1	8.1	7.0	5.0	3.1	1.5	1.5	2.7	3.5	3.9	4.2
147.5°	5.4	5.0	4.2	3.1	1.5	0.4	0.8	1.9	2.4	2.7	2.7
150°	3.1	3.1	2.4	1.5	0.8	0.0	0.4	0.8	1.1	1.5	1.9
152.5°	1.1	1.1	0.8	0.4	0.4	0.0	0.0	0.0	0.4	0.8	0.8
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.0	0.4	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)