

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: P240146

Luminaire Tested: **UTLD-AF24-30-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240146
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-AF24-30-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 2767.5 lumens
Efficiency: N/A
Efficacy: 89.3 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



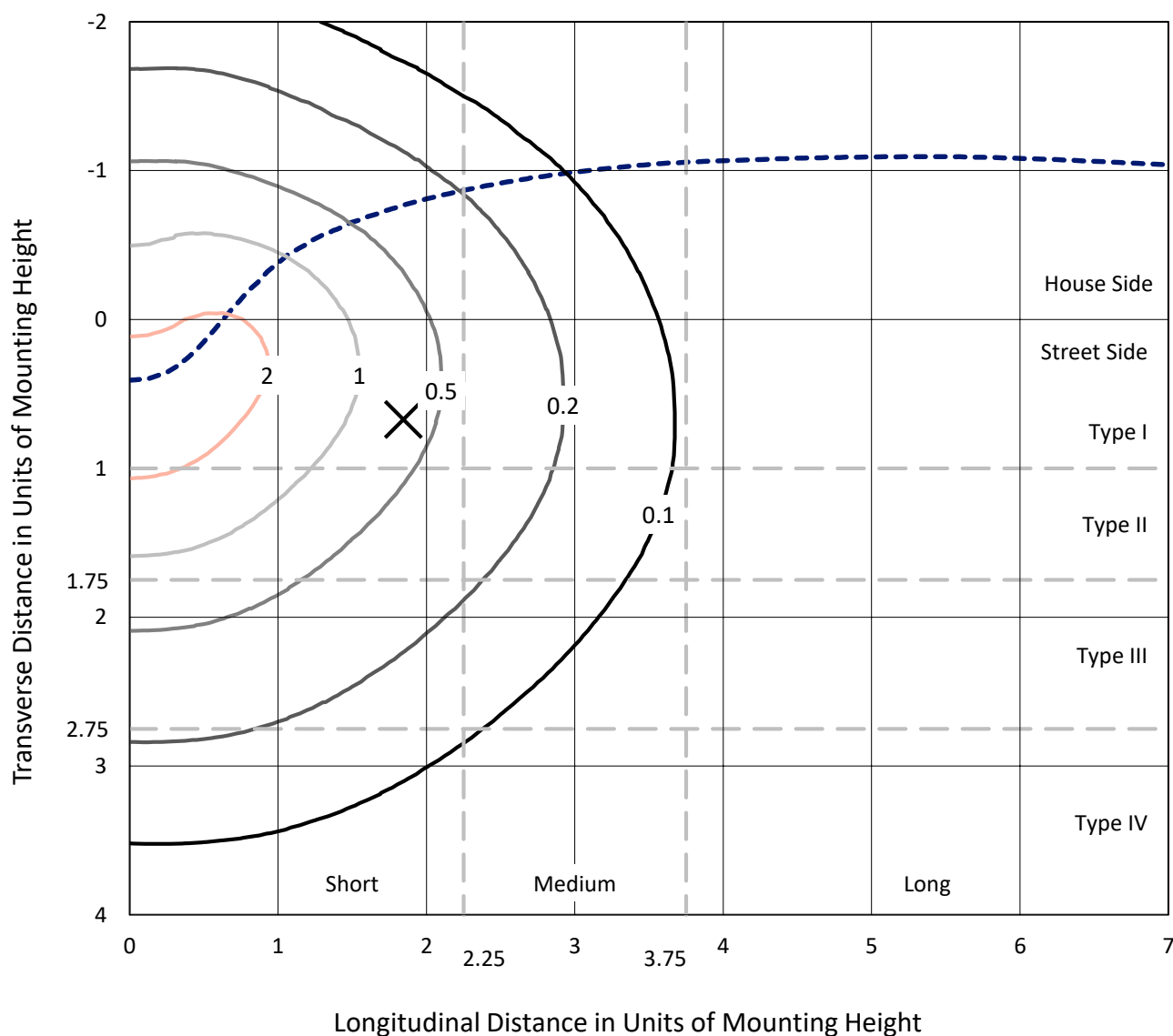
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

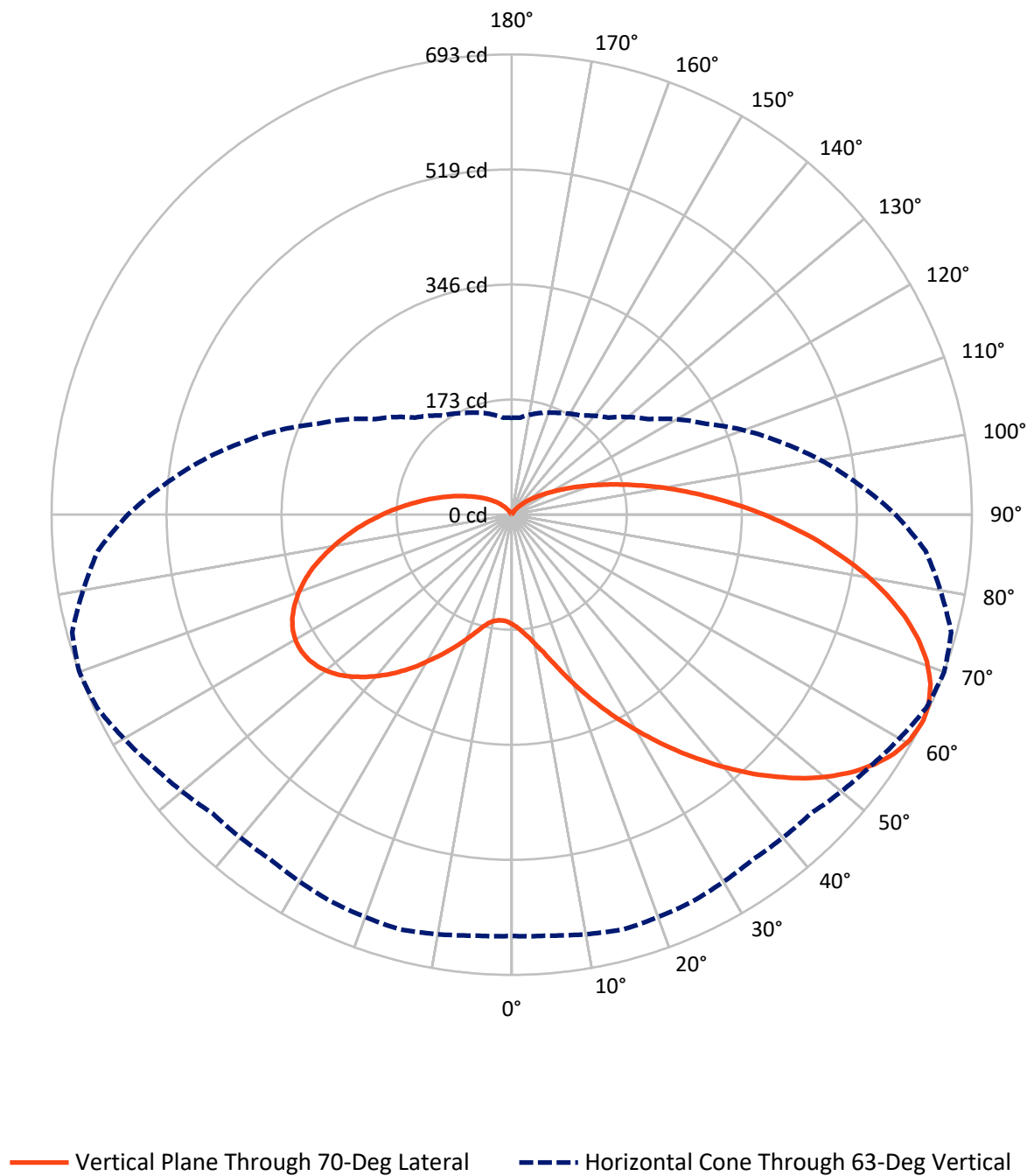


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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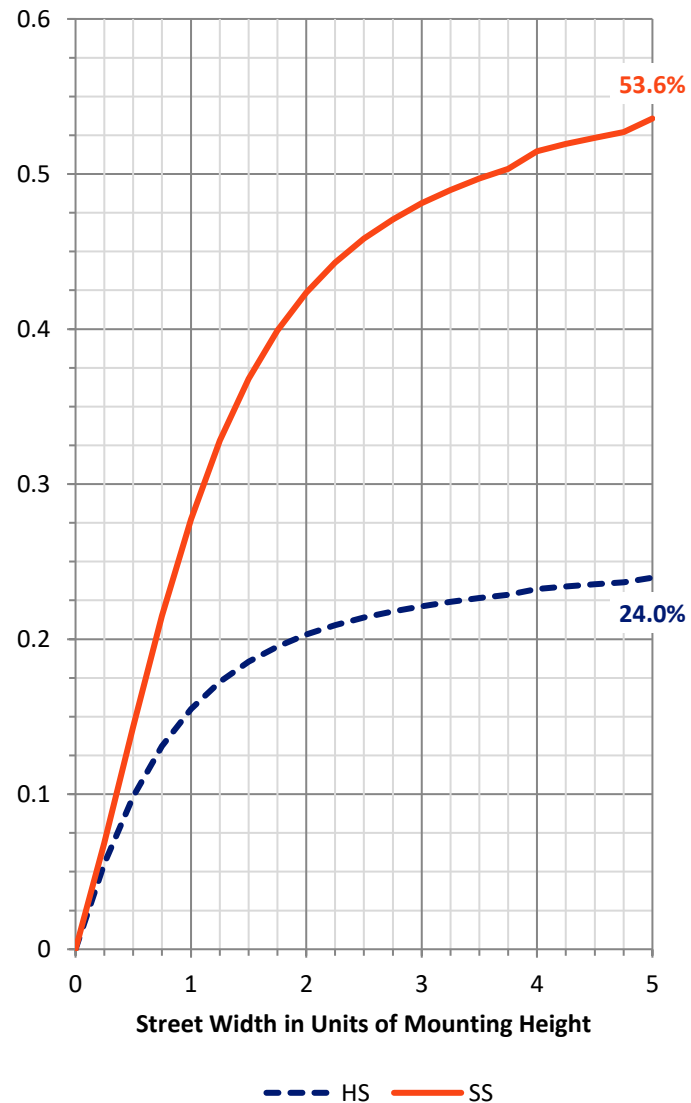
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.4	160.1	867.5
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	1599.1	300.9	1900.0
	% Fixture	57.8	10.9	68.7
Total	Lumens	2306.5	461.0	2767.5
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.6
10°-20°	57.7	2.1
20°-30°	124.0	4.5
30°-40°	216.1	7.8
40°-50°	321.2	11.6
50°-60°	410.1	14.8
60°-70°	444.6	16.1
70°-80°	404.9	14.6
80°-90°	311.5	11.3
90°-100°	208.9	7.5
100°-110°	126.6	4.6
110°-120°	70.7	2.6
120°-130°	35.9	1.3
130°-140°	14.9	0.5
140°-150°	3.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2306.5	83.3
0°-180°	2767.5	100.0

Coefficient of Utilization



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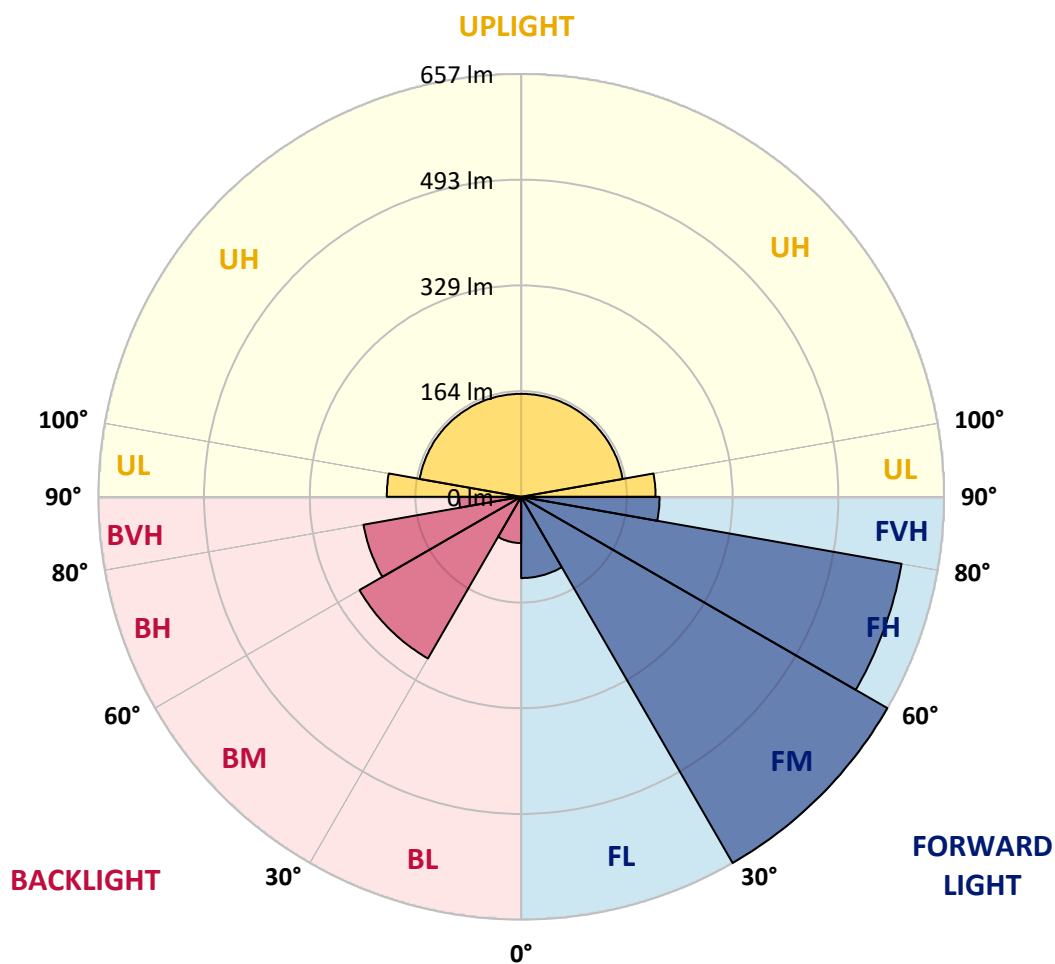
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.3	4.6			
FM	(30°-60°)	657.3	23.8			
FH	(60°-80°)	600.5	21.7			G0/660
FVH	(80°-90°)	215.1	7.8			G2/225
BL	(0°-30°)	71.9	2.6	B0/110		
BM	(30°-60°)	290.1	10.5	B1/1000		
BH	(60°-80°)	249.0	9.0	B1/500		G1/500
BVH	(80°-90°)	96.4	3.5			G1/100
UL	(90°-100°)	208.9	7.5		U3/500	
UH	(100°-180°)	160.1	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°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	178.6	178.6	178.2	177.9	176.8	175.4	173.1	171.6	170.2	169.2	166.9
5°	193.9	194.6	193.2	192.4	189.9	187.0	183.7	179.7	177.9	175.4	171.0
7.5°	210.3	211.0	209.6	207.7	204.5	200.1	195.0	189.9	186.7	183.3	176.8
10°	228.5	228.8	227.0	224.8	220.8	215.3	209.9	202.2	198.7	194.3	185.5
12.5°	248.8	248.1	246.6	243.0	238.3	232.4	225.2	217.5	212.4	207.4	196.4
15°	272.0	271.7	269.3	264.9	259.1	252.5	243.7	235.4	230.3	224.8	211.8
17.5°	296.4	295.8	293.2	288.1	281.9	273.5	267.0	257.2	251.0	245.2	230.3
20°	320.9	320.4	318.7	312.8	305.9	299.4	290.6	280.5	274.2	266.3	249.2
22.5°	348.9	347.8	344.8	339.8	333.9	327.3	318.3	305.6	298.6	291.0	270.6
25°	376.8	376.5	372.9	367.4	362.6	355.4	346.7	331.7	324.8	314.3	292.5
27.5°	406.0	405.3	401.6	395.7	392.1	385.2	374.3	359.8	351.4	341.2	316.9
30°	436.2	435.8	431.5	425.6	421.6	415.0	403.8	388.1	379.7	368.5	341.2
32.5°	466.3	466.3	461.9	456.9	452.2	443.8	433.2	418.4	409.2	397.2	366.7
35°	498.0	496.1	492.9	488.2	480.5	472.2	462.7	449.3	439.8	426.6	394.3
37.5°	527.8	527.8	522.4	518.3	510.0	500.5	491.7	480.5	470.1	457.2	421.2
40°	557.3	557.7	552.6	547.5	536.6	527.8	520.2	511.2	501.6	488.5	450.7
42.5°	585.6	585.0	580.1	574.3	562.3	552.6	547.8	540.2	533.3	519.4	479.1
45°	611.9	610.0	606.4	599.5	585.6	575.8	574.0	570.4	563.1	550.7	507.8
47.5°	632.2	631.2	629.7	620.6	606.4	597.0	597.0	598.4	592.9	580.1	534.8
50°	649.0	648.6	647.9	637.6	622.4	615.1	618.1	623.1	619.5	608.2	558.8
52.5°	660.3	659.9	661.0	650.4	635.5	629.0	635.9	646.0	643.1	632.9	581.7
55°	664.7	664.7	667.9	658.1	643.1	638.1	649.3	663.5	663.1	654.0	599.2
57.5°	662.7	663.1	669.0	659.9	646.0	643.1	658.1	677.3	678.8	669.6	613.7
60°	654.5	654.8	662.7	655.9	643.9	643.1	662.1	685.7	688.7	680.5	622.0
62.5°	638.4	639.8	649.6	645.2	635.5	638.1	660.6	688.3	692.2	684.6	625.3
63°	634.0	635.9	646.4	642.5	633.2	636.2	659.5	688.3	692.6	684.9	625.3
65°	616.2	618.4	630.4	628.6	622.0	627.4	653.4	684.3	689.8	682.8	622.0
67.5°	587.5	591.8	605.7	607.2	603.8	612.2	640.6	674.0	679.9	673.4	612.2
70°	553.0	558.0	575.8	580.1	579.5	591.8	622.0	656.9	663.1	656.6	595.5
72.5°	515.8	522.7	539.0	548.6	553.3	566.7	599.2	633.7	639.8	632.9	573.3
75°	475.5	482.7	503.1	514.7	522.0	538.7	570.8	605.3	610.8	605.3	545.3
77.5°	435.1	442.4	463.0	478.0	489.3	509.2	541.0	572.5	576.6	570.8	512.5
80°	393.6	402.0	422.0	439.4	454.7	474.7	505.4	534.1	538.7	531.1	477.3
82.5°	352.5	359.8	382.3	402.7	419.0	439.1	468.1	495.1	497.2	489.6	438.3
85°	315.4	321.6	343.7	365.6	384.9	404.5	431.5	452.9	456.1	446.4	399.8
87.5°	280.5	285.1	308.4	330.0	349.6	371.4	395.4	412.6	412.6	405.0	359.4
90°	248.1	251.4	272.5	296.1	317.2	336.5	359.0	373.5	371.8	362.3	321.6
92.5°	216.8	220.8	241.6	264.1	285.6	305.6	323.7	333.6	331.0	321.2	285.1
95°	190.9	192.9	213.2	236.4	256.1	274.2	290.3	297.1	293.2	283.4	249.2
97.5°	167.3	168.8	186.7	208.8	229.9	246.6	257.6	261.9	258.0	248.1	219.7
100°	148.0	148.4	164.4	185.8	205.5	220.0	229.9	229.9	226.2	216.5	190.6
102.5°	129.2	129.9	142.9	164.4	183.0	195.7	203.3	202.5	196.1	186.3	165.5
105°	113.8	114.6	124.8	145.6	162.2	173.8	180.1	175.7	169.5	160.8	143.3
107.5°	100.4	100.7	108.7	127.3	143.3	154.3	157.6	152.8	145.9	137.5	125.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	89.8	89.5	95.7	111.7	127.0	136.0	137.8	132.1	125.1	118.2	108.0
112.5°	79.6	79.6	83.7	97.1	111.3	120.0	120.7	112.4	106.6	100.4	93.9
115°	71.3	70.9	73.9	84.3	97.5	104.8	104.1	96.3	90.9	85.9	81.5
117.5°	64.0	63.3	65.4	72.7	84.7	91.7	89.8	81.1	77.1	73.5	70.9
120°	57.5	57.2	58.2	63.3	72.7	78.2	76.4	68.8	65.1	63.3	61.8
122.5°	51.7	51.7	51.3	54.5	61.8	66.2	63.7	57.5	55.2	54.2	54.2
125°	46.6	46.6	45.9	46.9	51.7	55.2	53.1	48.0	46.6	46.6	46.9
127.5°	41.5	41.5	40.8	40.4	42.6	45.2	42.6	39.7	39.4	39.7	40.4
130°	36.7	36.4	35.6	34.2	34.5	35.6	33.9	32.3	32.8	33.9	34.5
132.5°	32.3	32.0	30.9	28.7	27.4	27.4	25.7	25.7	26.9	28.0	29.5
135°	28.0	27.7	26.6	24.0	21.5	20.0	18.9	20.3	21.9	23.0	24.4
137.5°	23.6	23.3	21.9	19.2	16.0	13.8	13.4	15.7	17.1	18.6	19.6
140°	19.2	18.9	17.5	15.0	11.3	8.7	8.7	11.7	13.1	14.2	15.7
142.5°	15.3	15.0	13.8	10.9	7.3	5.5	5.8	8.4	9.5	10.6	11.7
145°	11.3	11.3	10.2	7.6	4.4	2.5	3.3	5.5	6.5	7.3	8.4
147.5°	7.6	7.6	6.5	4.7	2.5	1.1	1.4	3.3	4.1	4.7	5.5
150°	4.7	4.7	4.1	2.5	1.1	0.0	0.8	1.4	2.1	2.5	3.3
152.5°	2.5	2.5	1.8	1.1	0.3	0.0	0.0	0.8	0.8	1.1	1.4
155°	1.1	0.8	0.8	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°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	165.8	164.8	162.2	160.4	158.2	156.5	155.3	153.5	152.4	152.8	152.4
5°	168.8	166.6	161.9	157.9	153.5	149.9	147.0	144.4	142.9	141.8	142.2
7.5°	173.5	170.2	163.4	156.8	150.2	144.8	140.4	137.1	134.3	133.6	133.2
10°	180.9	176.5	166.6	157.9	149.4	141.8	136.0	131.3	128.4	127.0	127.0
12.5°	190.9	184.7	172.4	160.8	150.2	140.7	133.6	127.8	124.4	122.9	122.6
15°	205.2	197.5	182.3	166.6	153.2	141.8	133.2	127.3	124.8	124.0	123.7
17.5°	221.6	213.2	194.3	176.0	159.0	144.8	136.5	131.6	128.8	127.3	127.0
20°	240.1	229.2	207.7	186.7	167.3	152.4	142.9	136.5	132.8	131.0	130.6
22.5°	259.1	247.0	222.3	197.9	176.8	163.1	149.4	141.5	136.5	134.3	133.6
25°	279.3	265.9	237.2	209.9	188.5	172.7	157.6	145.9	140.1	137.5	137.5
27.5°	301.2	285.6	252.8	222.3	200.4	181.9	165.2	150.6	143.6	140.7	140.4
30°	324.1	306.7	268.8	235.7	211.8	190.2	171.6	155.7	147.3	144.0	143.6
32.5°	348.9	328.9	286.7	250.3	222.3	197.9	177.5	160.4	150.6	146.6	146.2
35°	373.2	350.7	303.4	264.4	231.7	204.5	182.3	165.2	153.2	149.1	148.8
37.5°	400.1	374.0	321.2	278.3	240.5	209.6	186.3	168.8	155.7	151.4	150.6
40°	426.0	396.8	337.9	290.6	247.7	214.2	189.6	172.1	157.9	153.2	152.4
42.5°	451.5	420.1	354.6	302.3	253.9	217.2	191.7	174.3	160.1	154.6	153.5
45°	476.9	442.0	371.8	311.7	258.6	219.7	193.2	176.0	161.9	155.3	154.6
47.5°	500.5	463.5	387.5	320.1	261.9	220.8	193.9	176.8	163.4	155.7	154.6
50°	523.2	482.0	400.6	326.2	264.1	220.8	193.9	177.1	164.1	155.7	154.9
52.5°	542.7	498.0	411.1	330.3	264.4	219.7	192.9	176.8	164.1	154.9	153.8
55°	557.7	511.2	418.7	332.1	263.4	217.9	190.9	175.7	163.7	153.8	152.8
57.5°	569.7	520.2	423.4	331.7	260.8	215.0	188.8	174.3	162.6	152.1	151.0
60°	576.9	524.9	424.2	329.2	257.2	211.3	185.8	172.1	161.1	150.2	148.8
62.5°	578.0	524.6	421.6	324.1	251.8	206.9	182.3	169.2	158.7	147.3	145.9
63°	577.7	524.2	420.1	323.1	250.6	206.3	181.9	168.8	158.2	146.6	145.6
65°	573.6	519.8	414.7	317.2	245.5	201.9	178.6	165.8	156.0	144.4	142.6
67.5°	563.1	510.0	404.5	307.3	237.8	196.1	173.8	162.2	152.4	140.7	139.0
70°	547.1	496.1	390.7	296.4	229.9	189.9	168.8	157.6	148.4	136.8	134.6
72.5°	525.6	476.2	374.6	283.7	220.4	183.0	163.1	152.4	143.3	132.4	129.2
75°	499.9	452.9	356.8	269.9	210.3	175.7	157.2	147.3	138.2	127.3	124.0
77.5°	468.9	426.3	334.7	255.3	200.4	168.0	150.6	141.2	132.4	121.5	118.2
80°	435.8	396.8	312.5	239.0	189.6	160.1	144.0	134.6	125.8	115.7	111.7
82.5°	400.9	365.3	288.9	223.3	178.6	151.7	137.1	127.8	119.3	109.5	105.9
85°	365.6	333.6	265.9	207.7	167.3	143.6	129.9	121.2	112.0	102.6	99.0
87.5°	330.6	302.6	243.7	191.3	156.8	135.7	122.6	113.8	104.8	95.7	92.8
90°	297.1	272.8	220.4	176.0	145.9	127.0	115.3	106.6	97.9	88.7	85.9
92.5°	263.8	242.7	199.4	162.2	135.7	119.0	108.0	99.3	90.2	81.5	79.6
95°	234.0	215.7	179.3	147.3	125.8	111.3	100.7	92.5	82.9	74.7	73.5
97.5°	205.9	190.2	159.7	134.6	116.1	102.9	93.5	84.7	75.3	67.6	66.9
100°	180.9	168.0	142.9	121.5	106.2	95.3	86.6	77.8	68.4	61.8	61.0
102.5°	157.9	147.7	127.3	109.8	97.5	87.6	78.8	70.6	61.5	55.6	55.6
105°	138.2	129.2	112.7	99.0	88.4	79.6	71.7	63.3	54.2	49.5	49.5
107.5°	119.6	113.5	100.1	88.4	80.0	72.4	64.8	56.4	47.6	44.0	44.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	104.5	99.3	88.1	79.3	72.4	65.4	58.2	49.8	41.5	38.9	39.4
112.5°	90.9	87.0	77.5	70.6	64.8	58.9	51.7	43.2	36.0	34.5	35.0
115°	79.3	76.1	68.8	62.6	57.8	52.3	45.9	37.4	31.2	30.6	30.6
117.5°	69.2	66.5	60.4	55.6	51.3	46.6	40.0	32.3	26.9	26.9	26.9
120°	60.7	58.6	53.4	49.0	45.5	40.8	34.5	27.4	23.3	23.6	23.6
122.5°	52.8	51.3	46.6	43.2	39.7	35.6	29.5	22.5	20.0	20.8	21.1
125°	46.2	44.8	41.1	37.4	34.2	30.1	24.4	18.9	17.5	18.1	18.1
127.5°	39.7	38.9	35.6	32.3	29.5	25.4	20.0	15.7	15.3	16.0	16.0
130°	34.2	33.5	30.9	27.4	24.4	20.8	16.0	12.8	12.8	13.4	13.4
132.5°	29.1	28.7	26.2	23.0	20.0	16.4	12.8	10.2	10.9	11.7	11.7
135°	24.0	24.0	21.9	18.6	15.7	12.3	9.5	8.4	9.1	9.9	9.9
137.5°	19.6	19.2	17.5	14.5	11.7	9.1	6.9	6.5	7.6	8.4	8.4
140°	15.7	15.3	13.8	11.3	8.4	6.2	4.7	5.1	6.2	6.5	6.9
142.5°	11.7	11.7	10.2	8.4	5.5	3.6	2.9	4.1	4.7	5.1	5.5
145°	8.4	8.4	7.3	5.5	3.3	1.8	1.8	2.9	3.6	4.1	4.1
147.5°	5.5	5.5	4.7	3.3	1.8	0.8	1.1	1.8	2.5	2.9	2.9
150°	3.3	2.9	2.5	1.4	0.8	0.0	0.3	0.8	1.4	1.8	1.4
152.5°	1.4	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.3	0.8	0.8
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)