

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: P266270

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1799 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

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



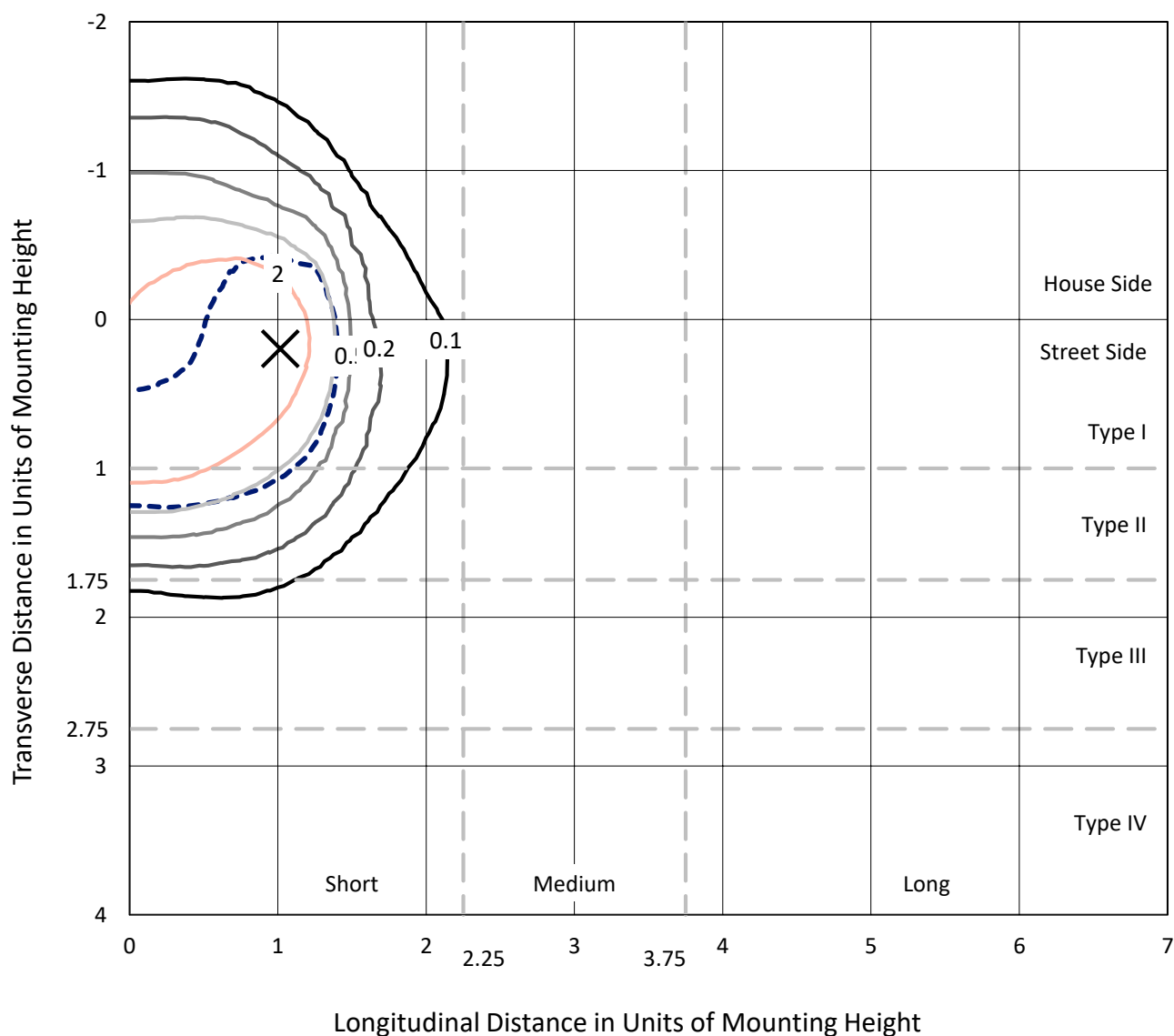
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

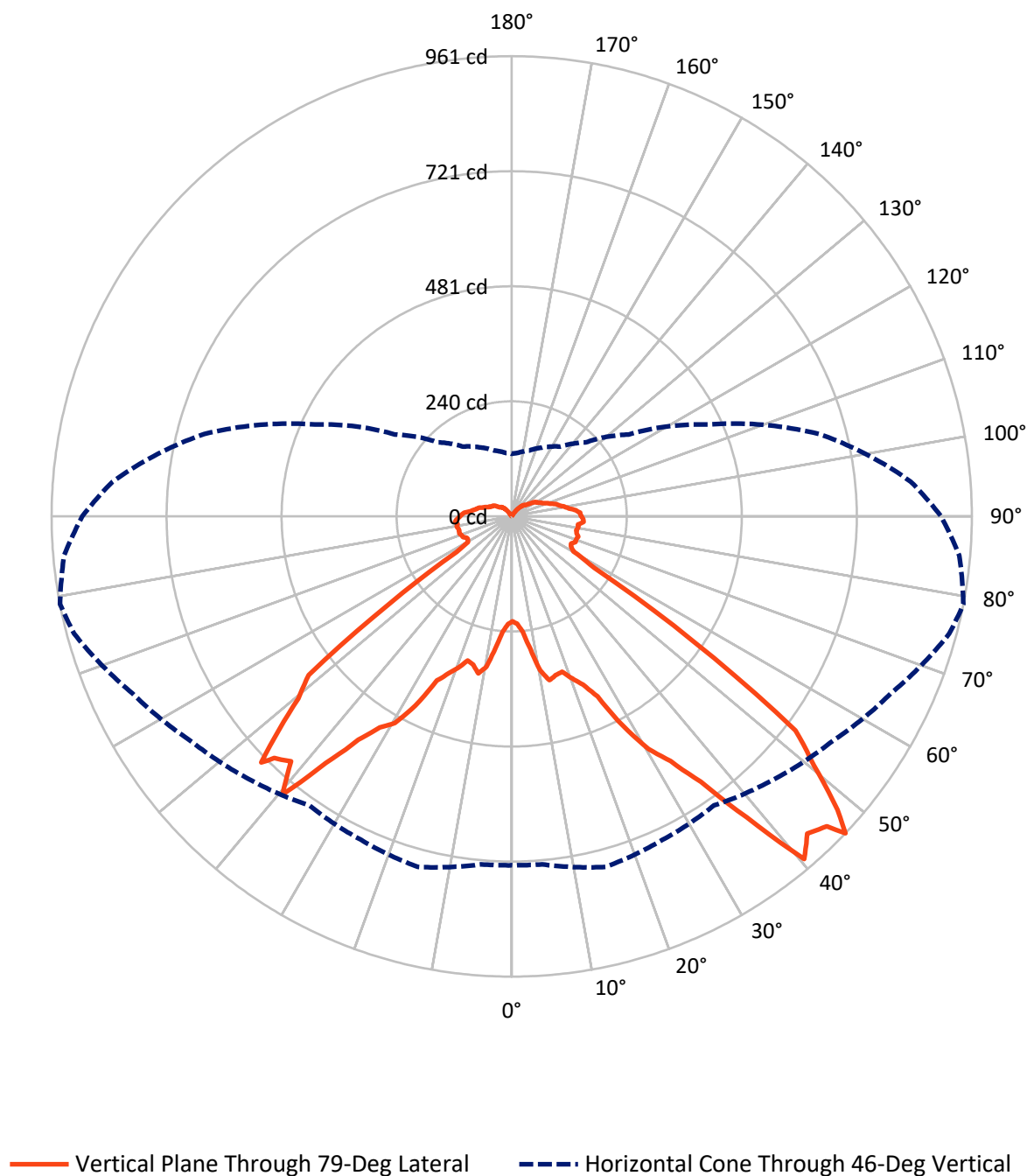


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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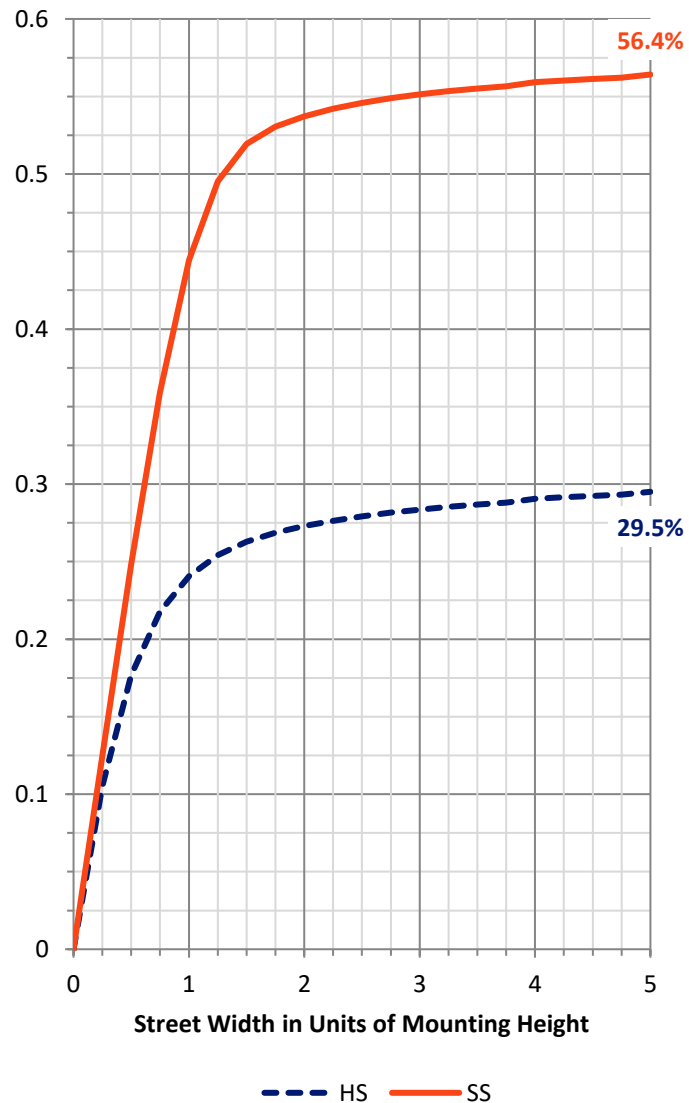
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.4	68.2	616.6
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	1034.5	148.0	1182.5
	% Fixture	57.5	8.2	65.7
Total	Lumens	1582.9	216.1	1799.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	1.3
10°-20°	85.5	4.8
20°-30°	172.7	9.6
30°-40°	316.1	17.6
40°-50°	436.8	24.3
50°-60°	278.8	15.5
60°-70°	99.9	5.6
70°-80°	89.7	5.0
80°-90°	79.7	4.4
90°-100°	73.1	4.1
100°-110°	56.9	3.2
110°-120°	39.5	2.2
120°-130°	26.4	1.5
130°-140°	15.8	0.9
140°-150°	4.2	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1582.9	88.0
0°-180°	1799.0	100.0

Coefficient of Utilization



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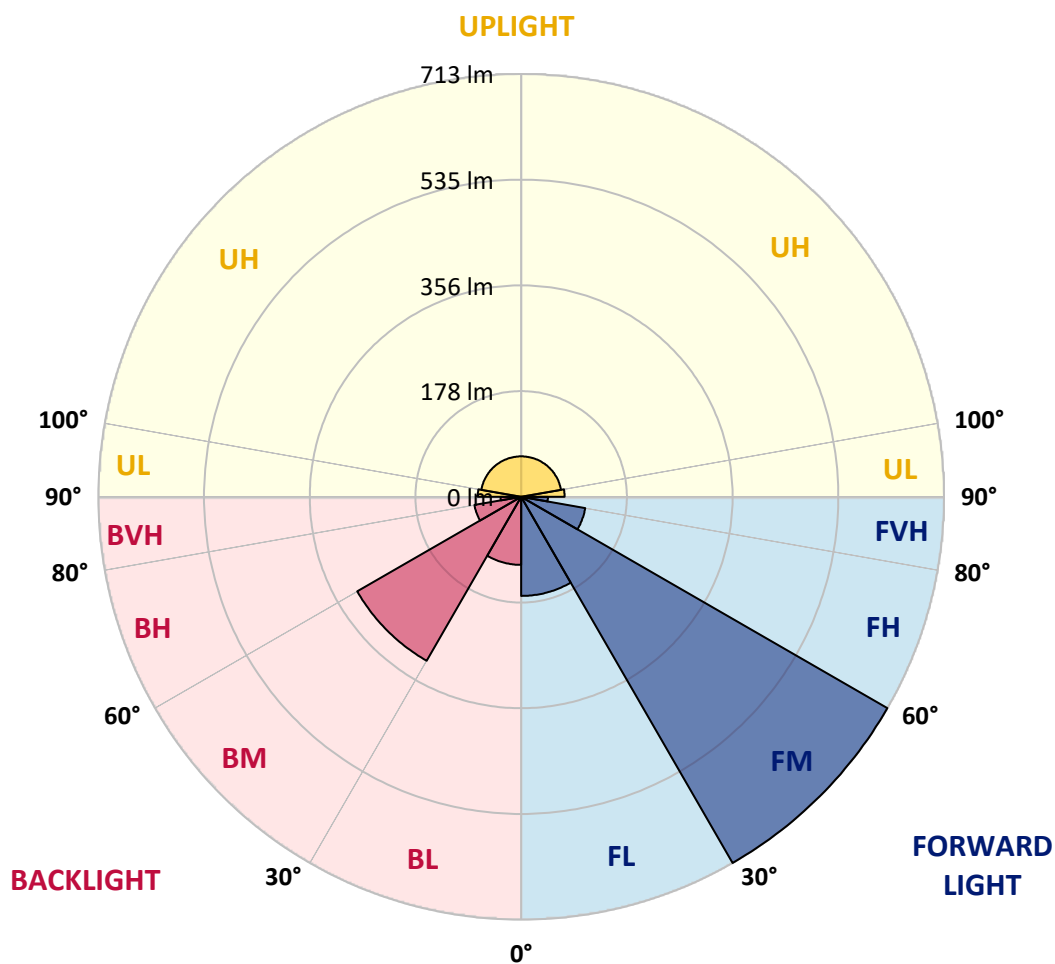
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.1	9.3			
FM	(30°-60°)	712.7	39.6			
FH	(60°-80°)	109.6	6.1			G0/660
FVH	(80°-90°)	45.0	2.5			G1/100
BL	(0°-30°)	114.7	6.4	B1/500		
BM	(30°-60°)	319.1	17.7	B1/1000		
BH	(60°-80°)	80.0	4.4	B0/110		G0/110
BVH	(80°-90°)	34.7	1.9			G1/100
UL	(90°-100°)	73.1	4.1		U3/500	
UH	(100°-180°)	68.2	3.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2
2.5°	222.9	223.6	223.4	222.9	223.9	224.3	224.3	224.0	224.3	224.8	225.7
5°	233.5	233.3	234.0	236.0	238.6	239.3	241.5	240.9	242.3	242.3	243.7
7.5°	252.2	252.3	254.8	256.6	259.6	265.9	271.8	279.9	279.6	279.2	281.1
10°	271.4	271.4	276.3	283.2	295.2	308.4	314.1	321.1	328.4	327.3	325.2
12.5°	277.4	278.5	286.9	304.3	329.9	352.6	364.2	362.7	355.5	351.3	344.8
15°	288.5	289.8	299.0	325.5	356.0	376.2	380.6	362.7	347.0	344.1	338.5
17.5°	330.3	330.3	339.7	364.2	387.1	382.5	365.4	356.8	346.7	341.3	333.2
20°	359.3	360.9	376.0	393.2	405.7	390.8	390.9	375.2	364.9	361.5	354.0
22.5°	387.3	389.8	394.0	420.9	424.4	427.5	418.7	404.4	387.1	381.5	373.9
25°	446.7	447.4	452.0	464.9	455.3	450.4	437.8	426.2	419.5	416.5	408.4
27.5°	517.2	515.1	517.1	518.1	503.2	489.9	471.6	483.9	493.6	496.3	488.9
30°	531.7	528.2	542.8	558.6	551.3	535.4	534.1	549.0	567.0	563.6	553.4
32.5°	590.1	584.6	591.4	593.2	591.9	587.3	585.3	603.9	617.0	609.5	594.8
35°	637.3	637.1	613.2	618.8	622.0	632.6	643.4	668.7	680.2	680.7	668.3
37.5°	738.0	730.7	721.8	686.6	667.9	672.8	709.5	754.3	780.4	797.7	778.0
40°	772.5	775.6	768.2	764.3	737.2	725.9	768.2	845.5	916.2	941.3	938.9
42.5°	715.8	723.0	718.6	745.5	767.0	781.4	832.4	898.6	912.0	905.6	871.0
45°	763.1	763.1	751.5	734.9	742.3	789.4	829.8	874.4	916.7	923.5	904.4
46°	728.9	729.6	758.0	745.5	737.0	776.1	818.1	874.4	946.6	961.4	938.9
47.5°	665.6	664.3	716.7	720.8	726.5	758.8	804.9	874.2	915.0	915.9	888.0
50°	527.5	529.6	601.5	639.8	677.9	709.5	771.7	810.9	820.2	818.4	788.0
52.5°	428.1	433.9	472.1	520.2	566.3	627.1	699.6	736.0	756.2	742.8	714.8
55°	296.8	309.3	357.3	400.6	468.2	526.6	589.2	592.6	501.1	459.4	407.4
57.5°	183.6	185.9	228.4	289.6	340.3	386.1	386.9	300.7	234.0	203.3	169.1
60°	101.9	104.1	141.8	186.8	236.4	242.0	216.1	173.8	155.9	148.0	136.0
62.5°	75.8	77.6	102.1	130.0	149.7	157.7	145.2	142.2	142.6	138.9	131.0
65°	68.4	69.3	89.7	103.7	115.3	116.9	121.5	131.6	137.3	136.5	133.0
67.5°	62.1	63.3	81.7	91.7	98.8	107.0	110.9	126.5	141.6	143.9	140.8
70°	55.2	57.2	73.7	84.4	92.3	100.3	107.9	127.5	139.5	143.0	141.6
72.5°	47.8	50.2	64.0	75.1	84.0	92.7	106.0	122.7	139.1	145.2	146.2
75°	42.0	45.2	56.6	66.5	75.8	86.1	100.3	121.0	136.5	140.2	142.2
77.5°	37.9	41.3	49.9	59.2	68.1	79.4	95.6	120.6	133.8	138.1	141.6
80°	34.8	38.2	45.5	52.6	60.1	72.9	90.8	119.7	136.5	141.0	143.0
82.5°	32.3	35.6	41.9	48.2	54.3	65.9	87.5	118.5	135.7	139.5	140.6
85°	32.6	35.0	40.9	46.8	52.5	62.3	85.7	119.0	144.6	150.6	151.6
87.5°	34.2	36.0	42.0	49.0	55.2	65.4	88.8	118.0	143.6	149.3	151.6
90°	37.2	38.6	45.9	54.1	61.5	71.0	88.2	115.4	139.5	144.6	146.2
92.5°	46.2	47.3	55.2	64.1	70.7	73.9	85.2	119.6	140.2	143.2	143.2
95°	59.6	61.1	68.8	75.5	76.7	75.1	83.8	106.3	128.0	134.2	137.9
97.5°	74.6	75.1	79.4	80.7	77.1	73.2	81.8	99.3	116.2	120.6	121.5
100°	79.4	79.4	82.4	81.3	74.4	69.1	74.1	90.3	106.8	111.6	112.9
102.5°	80.4	80.8	83.8	80.7	71.2	62.5	65.9	81.3	96.6	101.9	104.8
105°	85.2	85.5	83.8	76.0	64.5	56.8	59.6	75.1	91.3	96.4	99.5
107.5°	79.7	79.1	74.4	67.2	59.4	53.9	57.2	68.6	80.8	85.0	87.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	65.9	65.4	63.8	61.1	56.2	52.1	54.3	64.7	76.5	79.7	81.7
112.5°	63.5	63.1	61.4	58.2	52.6	49.4	53.1	62.1	69.3	70.7	71.0
115°	61.1	60.6	56.8	53.1	48.8	47.3	49.8	57.9	64.7	66.5	67.8
117.5°	52.6	52.1	49.2	47.2	45.5	46.2	50.2	54.8	59.6	61.1	62.1
120°	46.8	46.6	45.2	43.7	42.7	43.2	47.6	52.6	57.5	58.8	59.6
122.5°	44.1	43.9	42.3	40.1	40.1	40.1	43.5	47.3	52.6	53.9	55.5
125°	38.8	38.8	37.2	35.6	37.9	38.8	39.6	39.9	43.9	45.9	46.6
127.5°	34.6	34.8	33.3	32.1	36.6	38.6	38.2	35.0	37.4	38.8	39.9
130°	34.0	34.0	32.3	30.9	33.1	37.4	36.0	32.9	35.8	36.7	37.2
132.5°	33.1	33.1	31.4	29.3	29.7	34.6	31.4	30.6	33.3	34.2	34.6
135°	30.5	30.5	29.3	26.3	24.4	29.3	25.3	26.8	29.5	30.3	30.5
137.5°	27.0	27.0	25.8	23.4	19.4	22.0	19.6	22.6	25.3	26.1	26.3
140°	22.2	22.0	21.3	18.3	14.1	12.2	13.2	18.1	20.8	21.3	22.0
142.5°	16.3	16.7	15.5	13.0	8.4	4.6	7.7	11.6	14.6	15.2	15.7
145°	12.0	11.9	10.6	8.4	4.6	0.7	3.7	7.2	9.2	9.9	10.4
147.5°	7.9	7.9	6.9	5.1	1.4	0.2	1.0	3.7	5.7	6.3	6.5
150°	5.3	5.3	3.9	1.4	0.2	0.2	0.2	0.7	2.4	3.0	3.4
152.5°	1.6	1.6	0.7	0.4	0.2	0.0	0.0	0.2	0.4	0.4	0.7
155°	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.2	0.2	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°	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2
2.5°	226.1	225.7	225.0	224.3	222.4	219.9	217.6	216.0	215.0	214.2	213.9
5°	243.3	243.7	240.2	234.7	229.3	224.5	219.9	215.7	213.3	211.3	210.6
7.5°	279.6	280.5	273.7	264.9	251.3	234.9	221.0	211.6	204.8	200.7	200.0
10°	324.7	322.9	314.9	296.4	271.6	246.3	219.9	199.8	188.9	183.8	183.6
12.5°	343.2	340.5	331.6	316.2	290.2	257.2	224.5	197.7	181.5	175.1	174.8
15°	334.7	330.0	313.7	299.4	289.3	271.0	241.7	211.0	188.9	180.6	178.5
17.5°	327.4	322.9	309.0	288.5	269.5	261.5	247.3	221.9	198.7	187.1	184.7
20°	348.7	345.8	328.7	301.4	280.5	248.6	237.0	219.5	202.1	194.9	193.0
22.5°	368.2	366.8	345.3	316.8	288.5	266.3	243.3	230.3	213.4	208.3	206.3
25°	404.7	397.9	362.7	324.3	299.9	278.1	248.6	228.4	207.9	201.4	200.2
27.5°	490.5	474.8	423.3	365.6	316.7	282.1	248.0	218.6	196.1	187.8	187.3
30°	545.0	530.8	472.8	409.3	342.7	291.2	244.9	209.3	192.4	184.5	184.7
32.5°	578.1	559.0	493.9	413.4	348.7	295.8	246.9	206.3	183.6	173.5	173.2
35°	649.8	623.2	528.7	446.5	360.5	289.1	238.6	199.8	178.8	171.1	170.3
37.5°	752.1	722.1	593.8	473.2	365.4	280.1	228.0	192.1	167.2	156.8	155.9
40°	899.6	855.5	684.1	505.7	361.5	273.4	216.4	180.9	160.1	153.3	151.2
42.5°	826.4	776.7	630.3	499.4	351.9	254.8	205.3	175.3	155.9	150.6	147.9
45°	872.1	814.0	636.8	464.3	314.9	227.2	186.4	164.2	144.8	137.4	136.7
46°	897.3	836.7	665.0	453.7	298.0	218.6	178.0	159.1	142.6	132.8	130.7
47.5°	842.3	774.9	611.4	433.1	284.5	199.0	166.8	151.2	139.9	131.0	129.4
50°	738.6	672.8	528.8	369.3	244.9	175.6	148.8	139.3	128.0	118.3	116.6
52.5°	674.2	618.9	484.1	335.0	207.9	148.0	132.8	124.7	112.9	101.7	100.3
55°	370.7	332.6	299.1	251.6	172.5	125.0	115.7	110.9	99.1	87.9	87.1
57.5°	152.6	137.3	136.0	128.2	118.5	105.3	100.0	97.0	85.2	71.8	71.2
60°	128.5	114.4	100.9	88.8	88.2	87.9	86.1	81.1	68.1	54.1	53.5
62.5°	125.0	111.3	98.1	83.4	77.1	79.1	75.8	69.6	59.6	46.2	45.6
65°	127.5	113.2	97.6	80.8	74.1	74.9	71.4	66.7	59.8	50.2	49.8
67.5°	135.7	121.0	103.3	79.9	71.8	73.2	70.7	67.2	63.3	57.2	56.1
70°	136.9	123.8	103.7	80.4	69.1	70.7	70.1	67.0	64.1	58.8	58.2
72.5°	140.6	128.6	105.8	78.7	66.1	67.0	67.8	67.0	65.1	62.1	60.8
75°	137.3	126.8	104.8	77.3	63.3	62.8	65.1	66.5	67.0	65.7	64.1
77.5°	136.5	127.7	105.0	76.3	60.6	58.7	60.6	62.5	63.5	62.3	61.1
80°	137.4	130.0	108.2	76.5	57.8	52.9	53.9	56.1	56.2	54.1	52.5
82.5°	135.3	128.0	104.8	73.9	53.1	47.2	47.3	49.4	49.8	47.2	45.2
85°	144.8	136.3	107.2	70.4	48.2	42.9	43.2	44.1	42.7	39.9	37.9
87.5°	144.6	134.2	102.3	65.1	45.2	40.6	40.3	40.1	37.6	34.2	32.6
90°	139.5	128.6	95.8	57.5	39.9	37.2	36.6	35.0	31.6	27.8	26.6
92.5°	136.3	124.7	91.4	54.3	35.0	32.6	32.1	30.6	27.3	23.1	22.5
95°	132.6	121.2	84.4	47.6	30.9	28.4	27.8	26.3	23.6	20.3	19.9
97.5°	116.9	105.8	74.4	43.2	27.5	24.9	24.4	23.1	21.0	18.5	18.3
100°	107.9	98.1	69.1	39.6	24.7	21.6	21.5	20.8	19.4	17.6	17.3
102.5°	100.9	91.3	64.0	36.7	22.0	19.4	19.0	18.9	18.1	16.9	16.9
105°	95.6	86.4	61.4	34.2	19.9	17.6	17.3	17.3	16.7	15.9	15.9
107.5°	83.4	75.5	53.4	30.5	18.1	16.2	16.2	16.2	15.7	15.2	15.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	78.5	71.2	50.8	28.4	17.3	15.0	14.7	14.7	14.6	14.7	14.7
112.5°	67.6	61.4	44.6	27.3	16.9	14.3	13.6	13.0	12.5	13.0	13.2
115°	64.9	59.2	43.2	26.3	16.3	13.7	12.8	12.0	11.0	11.9	11.9
117.5°	59.6	54.3	40.1	25.6	16.3	13.0	12.0	11.4	10.4	10.9	10.9
120°	57.2	52.6	40.3	26.3	16.7	12.2	11.4	10.2	9.4	10.2	10.2
122.5°	53.9	49.8	37.9	24.9	15.9	12.0	11.0	8.8	8.3	9.0	9.0
125°	45.2	41.9	32.6	22.0	15.2	12.0	10.9	7.7	7.7	8.3	8.4
127.5°	38.4	35.8	28.2	20.5	15.5	12.8	10.4	6.7	7.2	7.9	7.9
130°	36.2	34.0	27.9	21.0	16.2	13.6	8.4	6.3	6.7	7.5	7.5
132.5°	33.7	31.9	27.0	21.5	16.3	12.8	6.9	5.7	6.3	6.7	6.7
135°	29.7	28.2	24.4	19.6	14.7	10.2	5.6	5.1	5.7	6.3	6.5
137.5°	26.1	24.9	21.5	17.6	13.2	8.8	3.9	4.6	5.1	5.3	5.6
140°	21.5	20.8	18.1	14.6	9.9	4.9	3.0	3.7	4.1	4.6	4.6
142.5°	15.7	15.2	12.8	9.4	6.1	1.9	1.9	2.6	3.1	3.7	3.7
145°	10.4	9.9	8.3	6.1	2.6	0.4	1.2	1.9	2.6	3.0	3.0
147.5°	6.5	6.3	5.1	3.1	1.0	0.4	0.4	1.4	1.9	2.2	2.2
150°	3.4	3.1	2.2	1.0	0.4	0.2	0.2	0.4	1.2	1.4	1.4
152.5°	0.7	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
155°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.2	0.2	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)