

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: P239875

Luminaire Tested: **UTLD-AF24-20-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1807 lumens
Efficiency: N/A
Efficacy: 86.0 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

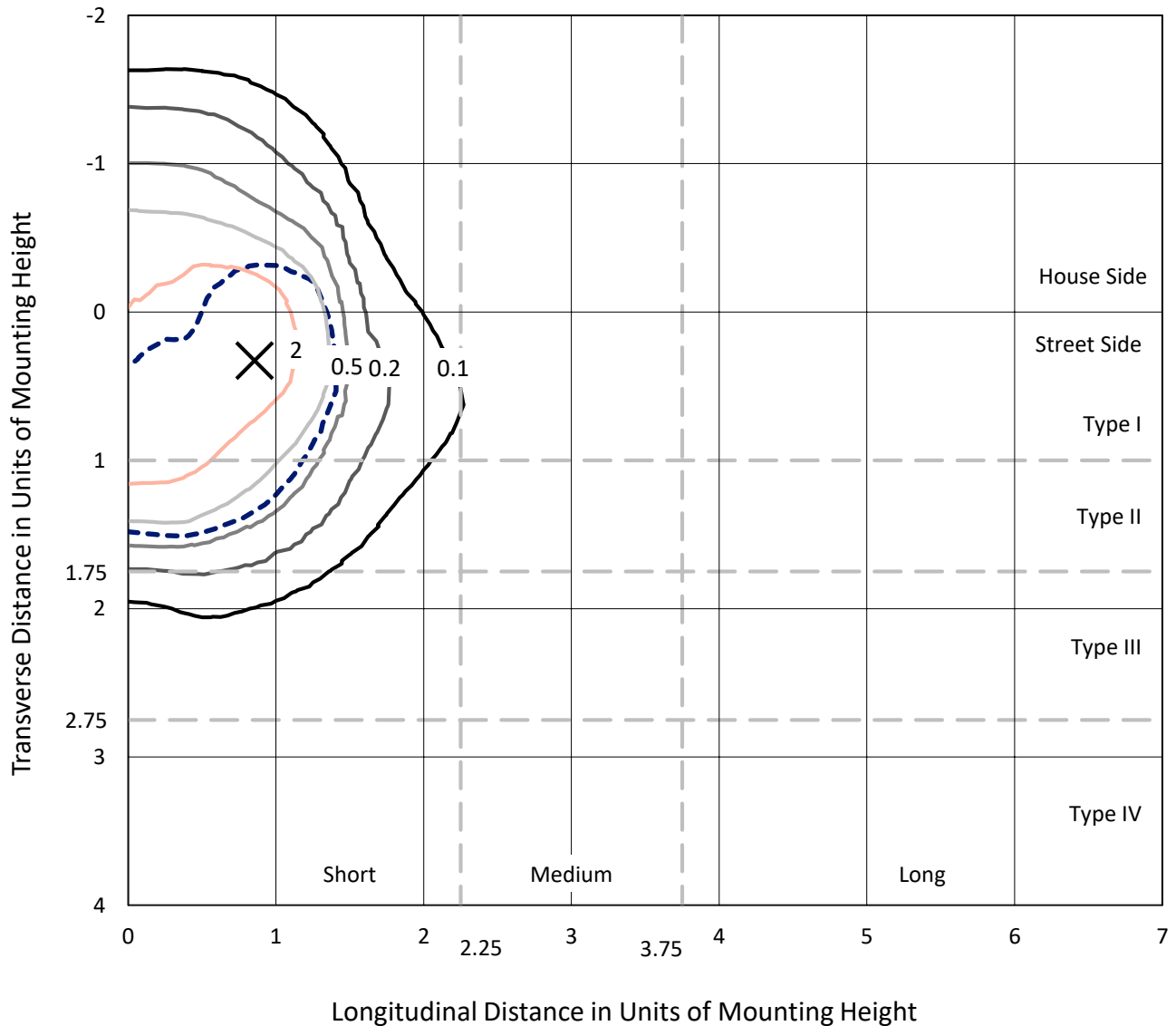


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

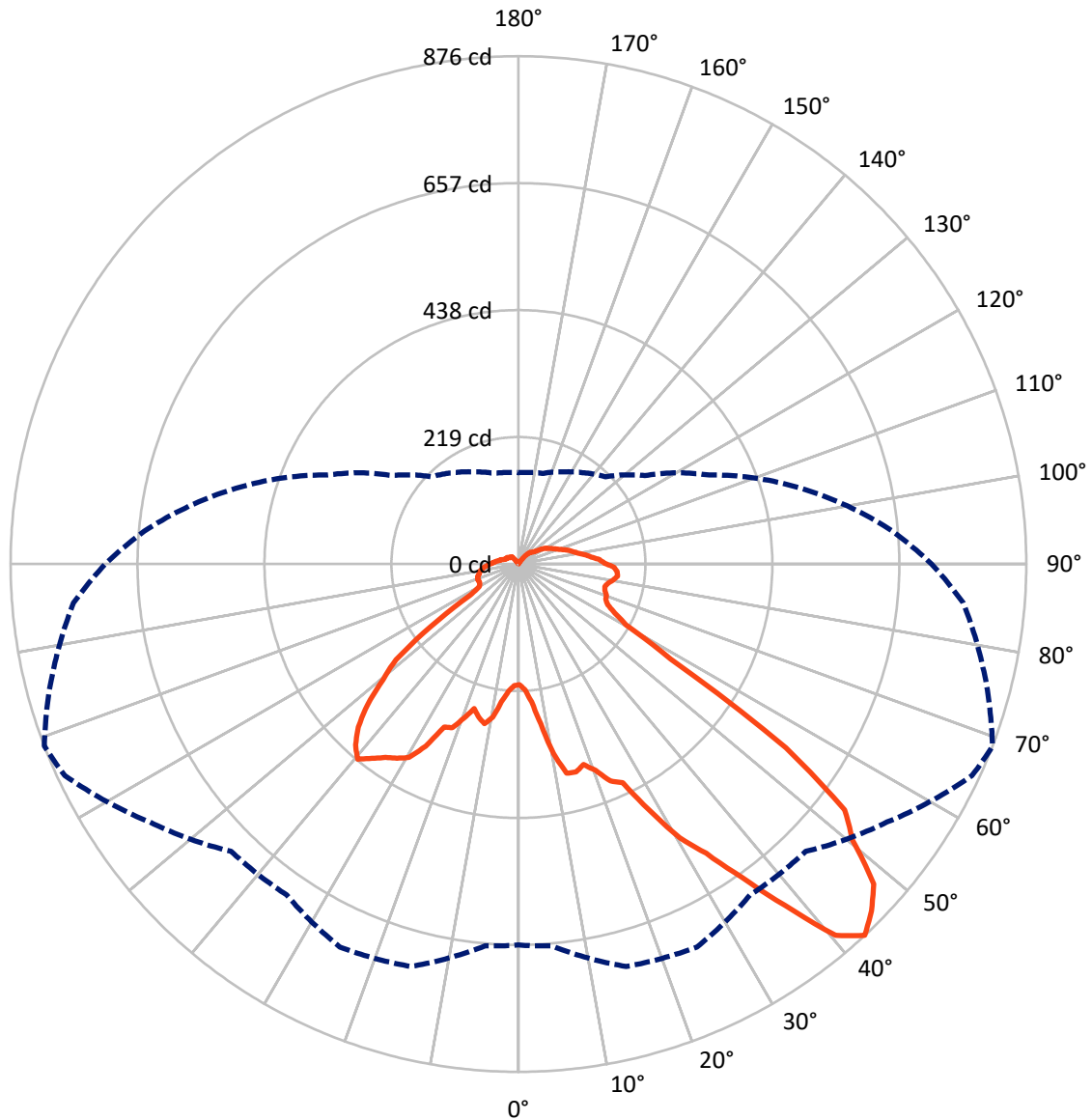


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 42.5-Deg Vertical

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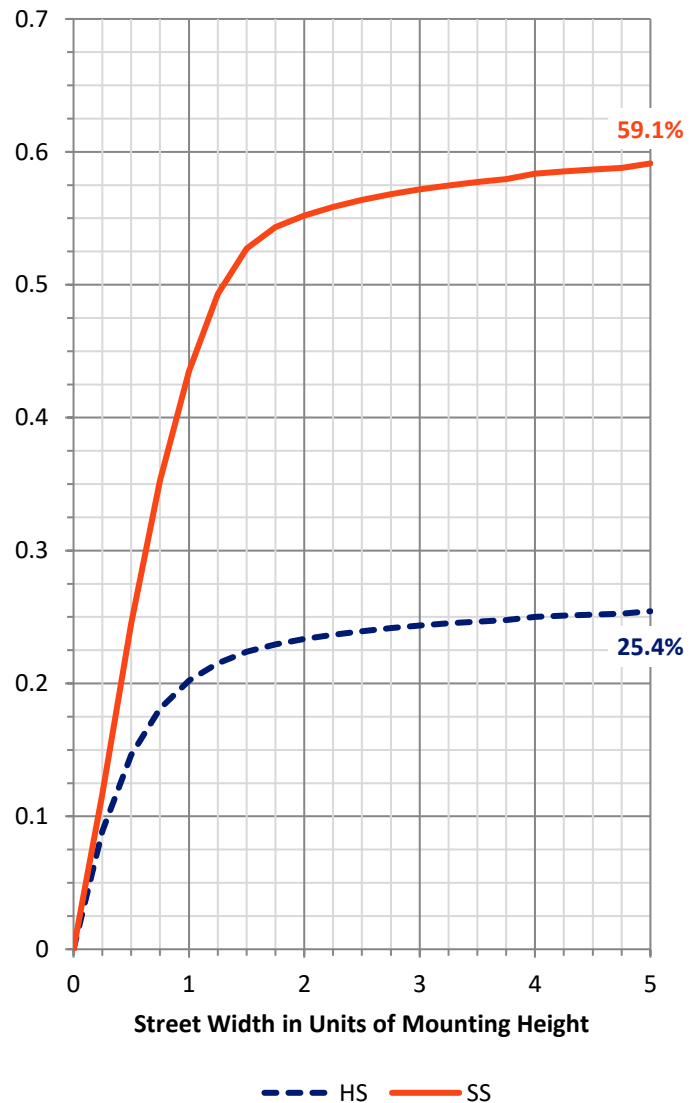
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.1	57.4	533.5
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1103.3	170.2	1273.5
	% Fixture	61.1	9.4	70.5
Total	Lumens	1579.4	227.6	1807.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	1.3
10°-20°	86.9	4.8
20°-30°	177.8	9.8
30°-40°	299.0	16.5
40°-50°	395.9	21.9
50°-60°	285.5	15.8
60°-70°	112.1	6.2
70°-80°	101.1	5.6
80°-90°	98.5	5.4
90°-100°	83.0	4.6
100°-110°	59.0	3.3
110°-120°	39.8	2.2
120°-130°	26.0	1.4
130°-140°	15.6	0.9
140°-150°	3.9	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1579.4	87.4
0°-180°	1807.0	100.0

Coefficient of Utilization



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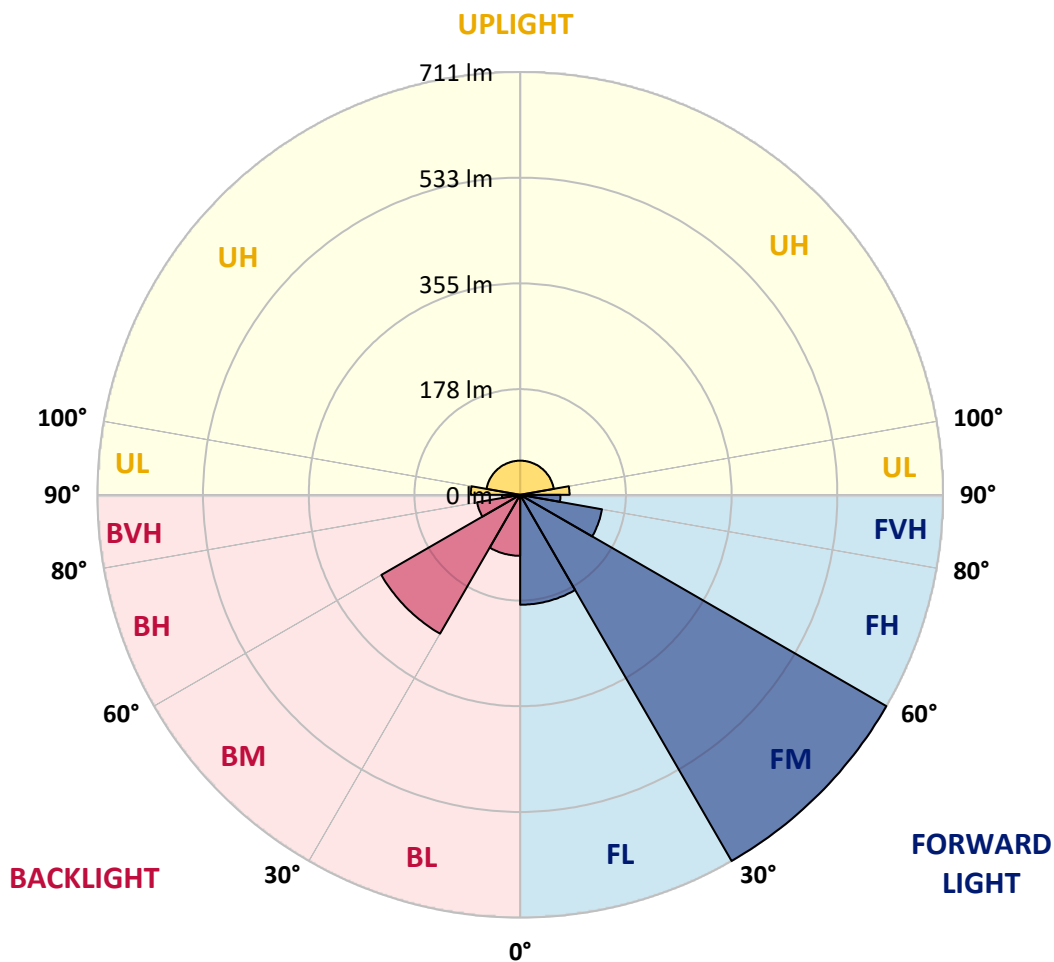
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.8	10.2			
FM (30°-60°)	710.9	39.3			
FH (60°-80°)	139.7	7.7			G0/660
FVH (80°-90°)	67.8	3.8			G1/100
BL (0°-30°)	102.6	5.7	B0/110		
BM (30°-60°)	269.5	14.9	B1/1000		
BH (60°-80°)	73.4	4.1	B0/110		G0/110
BVH (80°-90°)	30.6	1.7			G1/100
UL (90°-100°)	83.0	4.6		U3/500	
UH (100°-180°)	57.4	3.2		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°	69°	75°	85°
0°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9
2.5°	221.5	220.2	219.7	219.7	219.0	218.7	219.2	218.5	217.3	217.0	215.6
5°	237.0	236.5	236.2	238.2	239.9	240.4	239.9	239.9	238.4	238.4	233.8
7.5°	261.8	261.1	263.0	268.0	269.7	274.9	281.0	277.3	278.3	275.6	266.7
10°	290.6	289.4	298.5	305.1	320.4	326.8	334.6	333.9	332.4	327.8	313.0
12.5°	316.7	315.9	327.8	351.9	372.3	393.0	394.7	377.7	370.1	353.3	334.9
15°	349.2	349.9	367.9	402.1	432.3	440.7	419.8	386.3	372.0	354.8	327.5
17.5°	401.6	404.0	434.5	473.4	493.6	459.9	415.1	376.7	363.2	344.5	318.2
20°	432.1	433.6	475.4	528.1	534.0	479.3	432.8	391.5	379.7	364.9	343.3
22.5°	450.3	455.7	503.7	568.2	564.7	524.6	460.1	421.0	406.2	386.1	368.4
25°	479.6	483.5	529.5	591.8	576.5	539.4	484.5	432.3	417.8	403.1	385.3
27.5°	519.2	522.9	574.6	610.5	594.5	559.1	520.9	487.5	479.8	477.4	469.7
30°	540.4	542.8	600.9	631.2	603.8	587.4	576.8	550.0	547.7	542.8	525.3
32.5°	552.4	561.8	629.2	646.7	611.0	609.0	615.4	598.9	594.5	586.1	565.9
35°	563.2	567.9	631.4	658.0	622.5	621.6	665.6	673.2	663.4	646.2	597.9
37.5°	646.7	648.9	692.4	683.1	637.8	643.2	715.8	755.4	746.6	725.1	691.9
40°	691.9	695.9	736.2	716.8	670.0	676.2	752.0	834.2	842.0	841.3	812.3
42.5°	656.7	660.9	718.3	728.6	696.4	700.5	775.6	862.9	875.5	836.9	769.9
45°	771.4	774.6	806.8	731.3	678.4	694.4	757.1	842.0	853.3	842.0	784.7
47.5°	771.2	767.2	794.0	738.9	677.2	666.3	717.0	801.9	824.3	798.5	736.2
50°	677.9	677.7	743.8	712.1	663.9	638.8	673.0	740.2	745.6	715.3	631.9
52.5°	592.0	591.5	668.1	651.8	620.3	595.7	616.9	683.8	704.5	677.9	608.3
55°	516.0	537.2	604.3	569.6	556.6	532.2	553.4	569.9	559.3	485.5	327.5
57.5°	312.5	335.9	423.5	448.6	451.5	434.1	386.1	329.7	309.5	247.3	147.6
60°	145.7	151.3	222.2	270.4	330.0	301.7	244.1	212.6	212.6	186.8	128.2
62.5°	102.6	106.5	145.9	174.5	197.6	194.9	173.2	177.7	186.5	175.0	123.5
65°	96.5	98.9	129.9	138.5	147.4	149.1	146.2	159.7	169.0	167.6	125.2
67.5°	89.6	92.8	118.6	124.3	131.2	134.4	136.6	152.3	162.2	167.6	130.2
70°	81.4	85.1	109.5	117.4	124.0	131.4	134.1	151.1	161.2	166.6	131.9
72.5°	73.8	77.0	97.4	107.3	119.1	127.7	138.5	148.9	155.8	161.4	132.9
75°	66.4	70.1	87.4	98.7	112.5	128.7	141.7	149.4	154.0	158.5	131.6
77.5°	61.5	65.5	79.0	92.0	108.5	130.9	145.7	155.5	158.2	159.0	130.2
80°	57.1	61.5	75.8	89.6	107.5	131.9	150.3	162.2	165.8	167.6	138.5
82.5°	60.3	64.2	76.5	93.3	110.7	131.6	149.1	167.8	172.0	171.0	141.2
85°	68.2	71.4	86.4	102.1	115.6	129.4	144.7	165.1	171.0	176.2	149.6
87.5°	82.9	84.4	95.2	109.7	120.8	125.2	140.5	159.7	165.1	166.8	145.7
90°	90.8	92.3	105.1	117.1	120.6	122.0	125.2	144.4	148.4	155.3	139.3
92.5°	99.9	99.9	113.2	120.3	120.3	114.2	116.4	133.6	140.3	144.2	129.4
95°	108.8	108.3	115.6	119.8	113.4	104.8	108.5	122.0	126.2	130.4	120.3
97.5°	111.5	111.2	115.6	113.2	102.6	94.5	99.2	110.7	115.2	119.6	109.3
100°	108.5	107.3	108.5	103.1	93.3	87.1	89.8	99.4	104.1	107.8	98.4
102.5°	102.1	101.4	101.9	96.5	86.1	78.7	82.4	92.5	96.0	98.9	90.6
105°	99.2	97.9	95.7	87.8	77.8	72.6	75.8	85.9	89.1	95.0	88.1
107.5°	84.4	83.4	81.7	77.5	72.3	68.4	71.1	78.2	80.2	83.2	76.8
110°	72.8	72.3	71.9	70.9	67.7	65.0	66.4	70.4	72.8	75.0	68.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	70.4	69.6	69.1	67.4	63.2	60.3	61.3	65.7	67.2	67.9	61.0
115°	67.2	66.4	63.7	61.3	58.3	56.8	57.1	60.8	61.8	62.3	58.1
117.5°	59.5	58.8	57.1	56.1	54.4	53.6	54.9	56.8	57.1	57.3	53.6
120°	55.1	54.9	53.9	52.2	50.9	49.2	51.2	53.1	53.9	54.6	52.2
122.5°	50.2	49.7	48.7	46.5	46.5	45.5	45.3	46.5	46.8	48.7	47.5
125°	44.3	43.8	42.8	40.8	43.3	43.3	41.6	38.9	39.6	41.3	40.4
127.5°	39.6	39.1	38.1	37.2	40.6	41.8	38.9	34.0	34.4	34.9	34.2
130°	38.9	38.4	37.2	35.4	36.4	40.1	34.9	31.0	31.7	32.2	31.7
132.5°	38.1	37.9	36.2	34.0	32.7	36.2	30.3	29.3	30.0	30.8	30.3
135°	35.7	35.4	34.0	30.8	27.3	29.0	24.1	25.6	26.8	27.8	27.3
137.5°	31.7	31.5	30.3	27.1	22.4	20.9	18.5	21.9	22.9	24.1	24.1
140°	25.6	25.3	24.1	20.9	15.7	11.1	11.8	16.7	17.7	19.2	19.4
142.5°	18.7	18.2	17.0	14.0	8.9	3.7	6.6	10.1	11.3	12.8	13.8
145°	12.8	12.5	10.8	8.4	4.2	0.5	3.0	6.2	6.9	7.9	8.9
147.5°	8.1	8.1	6.9	4.7	1.2	0.5	0.7	3.2	3.9	4.9	5.7
150°	4.9	4.9	3.7	1.5	0.2	0.2	0.2	0.5	1.2	2.2	3.0
152.5°	1.2	1.2	0.7	0.5	0.2	0.0	0.2	0.2	0.2	0.2	0.5
155°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.0	0.2	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°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9
2.5°	214.8	213.3	211.4	208.7	206.0	203.2	200.5	199.1	198.3	197.8	197.6
5°	232.5	229.3	224.2	217.0	208.2	203.0	199.3	194.9	191.9	190.9	190.2
7.5°	263.8	258.6	248.3	233.0	222.2	206.9	193.9	185.5	179.4	175.9	175.9
10°	305.6	298.2	280.3	259.4	231.5	204.7	184.5	169.3	162.2	159.2	158.5
12.5°	324.1	316.9	295.8	271.4	241.9	210.6	185.0	166.8	158.2	154.8	155.3
15°	314.7	304.9	286.7	263.8	240.6	221.0	199.6	176.9	162.2	158.2	159.4
17.5°	305.4	295.3	275.8	250.5	227.9	214.8	199.8	184.5	170.5	164.9	163.9
20°	332.7	325.3	299.0	270.2	236.2	203.2	192.7	185.8	181.1	181.3	179.1
22.5°	358.8	348.7	324.6	290.8	254.2	225.4	208.2	199.1	193.9	196.1	196.4
25°	376.2	368.6	332.9	292.6	262.1	240.6	215.8	203.0	194.4	194.4	193.4
27.5°	465.1	446.1	389.5	327.8	282.2	246.8	216.8	202.0	191.2	188.0	188.5
30°	511.6	492.9	428.1	353.1	305.4	261.6	219.5	196.6	193.9	191.7	192.4
32.5°	551.4	523.9	447.3	359.7	301.2	263.8	225.4	197.8	184.8	182.6	183.6
35°	571.1	540.4	462.6	365.6	303.1	254.4	218.3	192.7	184.3	182.1	182.8
37.5°	661.9	615.9	486.7	374.5	302.7	242.1	208.7	188.0	172.5	165.8	165.8
40°	766.2	698.6	528.8	374.0	284.0	231.5	198.1	178.9	166.6	161.4	161.2
42.5°	712.1	647.6	504.2	362.9	265.7	212.4	192.2	175.0	161.7	158.2	157.5
45°	734.7	665.8	486.5	331.9	238.4	197.1	178.1	166.1	150.8	143.0	142.7
47.5°	662.9	607.5	450.3	292.6	214.8	173.2	161.4	153.5	143.9	137.3	136.6
50°	575.0	519.2	378.9	259.4	183.1	153.5	145.4	141.5	131.9	124.3	124.8
52.5°	549.5	481.8	330.2	226.4	157.5	133.9	129.9	125.5	115.9	107.0	108.0
55°	272.4	225.6	200.8	175.9	132.1	116.4	114.7	112.0	102.4	94.7	95.0
57.5°	127.0	109.5	96.0	102.1	99.7	101.1	100.4	98.7	89.6	78.7	78.0
60°	113.7	97.4	81.4	77.3	81.9	88.3	87.8	82.4	70.9	58.1	56.6
62.5°	109.7	93.3	79.0	72.8	74.8	79.0	76.0	69.1	59.8	48.0	47.7
65°	111.7	94.2	78.7	71.1	72.6	74.3	70.1	65.2	59.5	51.4	51.4
67.5°	115.9	97.9	80.5	70.4	71.1	72.8	68.9	65.5	62.5	57.1	57.1
70°	117.1	99.7	81.4	70.6	69.9	71.4	68.7	65.5	63.7	59.3	59.1
72.5°	117.6	100.6	81.0	69.4	67.7	68.9	66.9	65.5	64.7	61.3	60.8
75°	115.4	99.7	78.5	66.7	65.0	65.5	65.0	64.7	65.7	63.5	62.7
77.5°	112.7	98.2	76.5	63.7	61.8	62.0	61.5	62.3	63.2	61.8	60.5
80°	118.4	102.4	76.8	61.5	57.8	56.6	56.8	57.6	58.8	55.6	53.9
82.5°	120.3	102.6	73.3	56.6	51.9	50.2	50.7	52.7	53.6	50.7	49.0
85°	127.7	107.3	70.9	52.2	46.8	45.0	45.5	46.8	46.3	42.8	41.3
87.5°	124.8	104.1	66.4	47.0	42.6	41.1	41.3	41.8	40.1	35.7	34.4
90°	120.6	100.4	61.5	41.3	37.6	37.2	36.7	35.9	33.0	28.3	27.1
92.5°	112.9	93.7	57.1	37.4	33.5	33.2	32.5	31.0	28.3	23.6	22.4
95°	106.5	87.8	52.9	34.2	30.0	29.0	29.0	27.6	24.6	20.7	20.2
97.5°	96.0	80.0	48.7	31.5	26.8	25.8	25.6	24.6	22.4	19.4	19.2
100°	86.9	72.3	44.3	28.5	24.1	23.1	22.6	22.1	20.4	18.7	18.7
102.5°	80.5	66.9	41.3	26.1	21.7	20.7	20.7	20.2	19.2	18.0	18.0
105°	78.7	65.7	40.1	23.9	19.2	18.7	18.9	18.9	18.2	17.5	17.5
107.5°	68.4	56.6	34.4	21.2	17.5	17.0	17.2	17.5	17.2	17.0	17.0
110°	61.0	51.4	32.0	19.9	16.5	15.7	15.7	15.7	15.7	16.0	16.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	54.6	45.8	29.3	18.9	15.5	14.8	14.5	14.3	14.0	15.0	15.0
115°	52.2	44.5	28.5	18.5	14.8	14.0	13.3	12.8	12.3	13.0	13.3
117.5°	48.5	41.8	27.8	18.5	14.5	13.3	12.5	11.8	11.1	11.8	11.8
120°	47.5	41.6	28.3	18.7	14.0	12.3	11.6	10.6	10.1	10.8	11.1
122.5°	43.8	38.9	26.8	17.7	13.5	11.8	11.1	9.1	9.1	9.6	9.8
125°	37.2	33.0	23.1	16.0	12.8	11.8	10.8	8.1	8.4	8.9	8.9
127.5°	31.7	28.5	21.2	15.5	13.0	12.1	10.1	7.6	8.1	8.9	8.9
130°	30.0	27.3	21.4	16.2	13.5	12.3	8.4	6.6	7.9	8.6	8.6
132.5°	28.8	26.6	21.4	17.0	14.0	11.3	6.6	5.9	6.6	7.1	7.1
135°	26.1	24.6	20.4	16.2	12.8	8.9	5.4	5.2	6.2	6.6	6.6
137.5°	23.4	21.9	18.7	15.0	11.3	7.1	3.9	4.7	5.2	5.7	5.7
140°	19.2	18.2	15.5	12.3	8.4	3.9	3.0	3.7	4.4	4.9	4.9
142.5°	13.5	13.0	10.8	7.9	4.7	1.5	2.0	2.7	3.2	3.7	3.7
145°	8.9	8.4	6.9	4.9	2.0	0.5	1.2	1.7	2.5	2.7	2.7
147.5°	5.7	5.4	4.2	2.5	0.7	0.5	0.5	1.2	2.0	2.2	2.2
150°	2.7	2.5	1.7	0.7	0.5	0.2	0.2	0.5	1.2	1.5	1.5
152.5°	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.2	0.2	0.5	0.5
155°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.2	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	0.2	0.2	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)