

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: P266321

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266321
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2469.4 lumens
Efficiency: N/A
Efficacy: 79.7 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



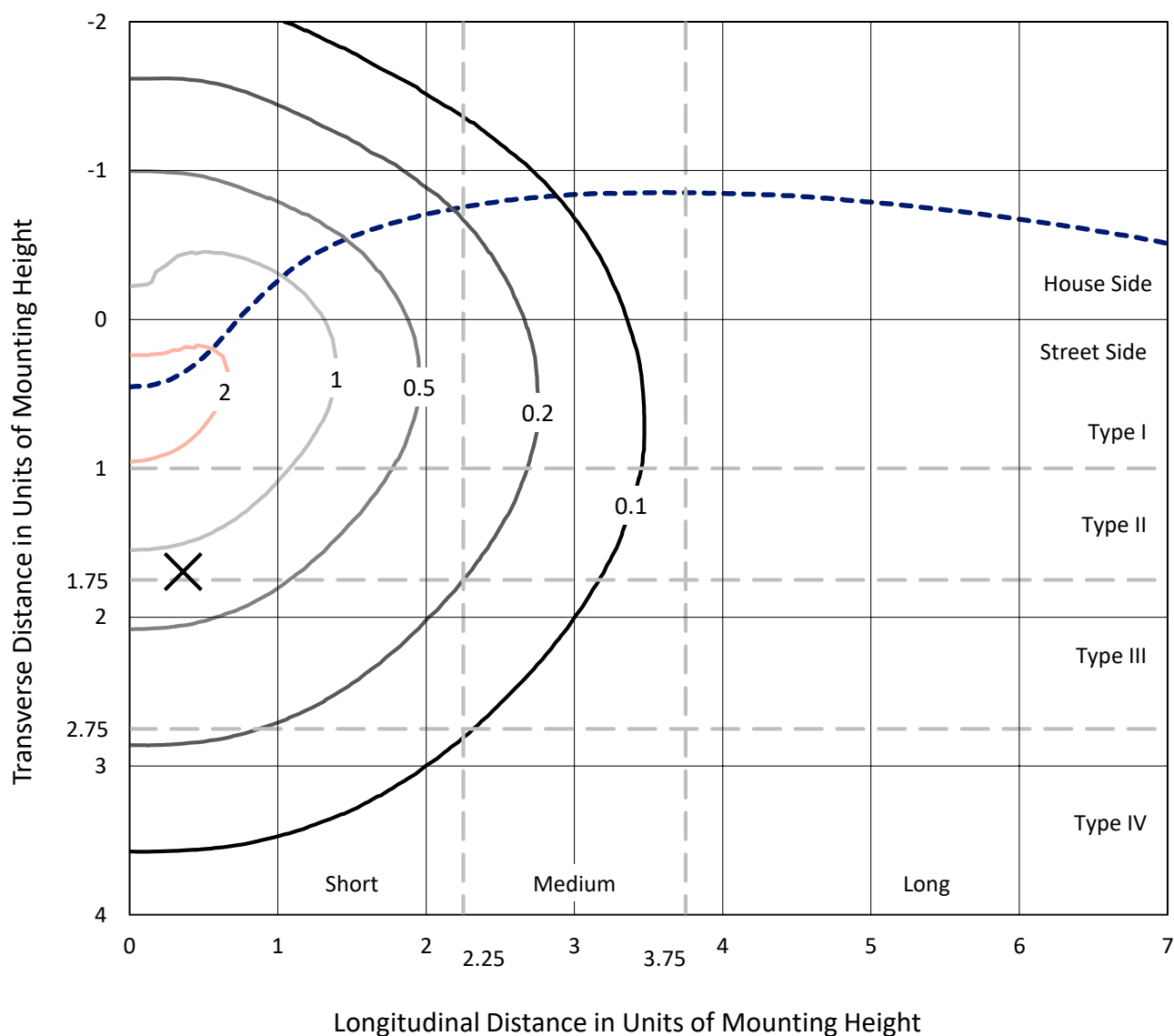
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

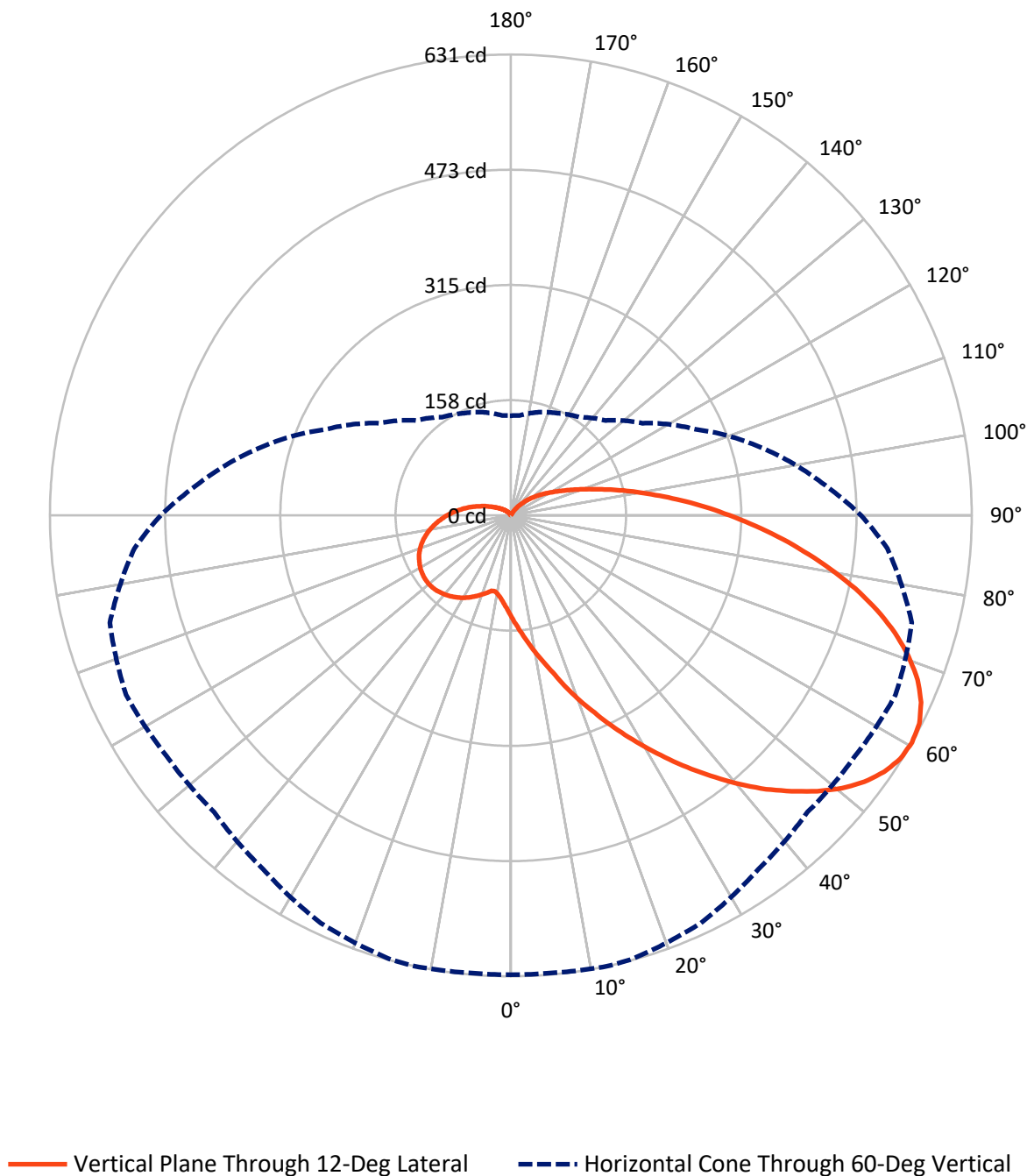


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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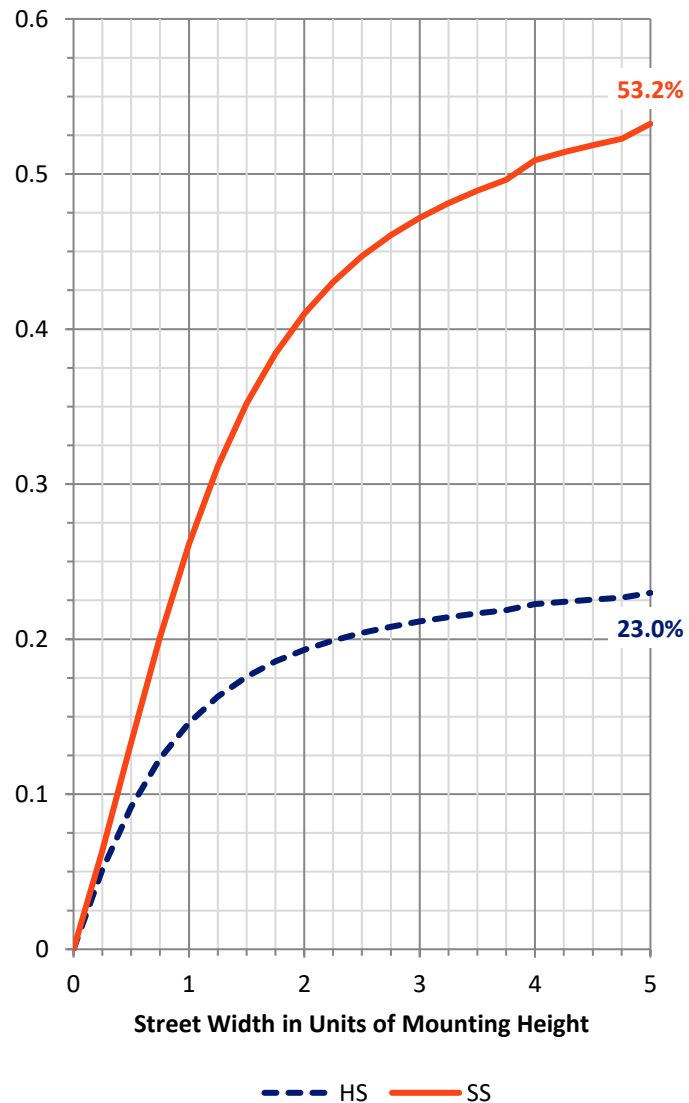
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	607.1	139.8	747.0
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	1432.7	289.7	1722.5
	% Fixture	58.0	11.7	69.8
Total	Lumens	2039.8	429.6	2469.4
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.6
10°-20°	48.4	2.0
20°-30°	103.9	4.2
30°-40°	181.8	7.4
40°-50°	273.8	11.1
50°-60°	357.5	14.5
60°-70°	398.1	16.1
70°-80°	371.7	15.1
80°-90°	290.8	11.8
90°-100°	196.5	8.0
100°-110°	118.8	4.8
110°-120°	65.4	2.6
120°-130°	32.5	1.3
130°-140°	13.0	0.5
140°-150°	3.1	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2039.8	82.6
0°-180°	2469.4	100.0

Coefficient of Utilization



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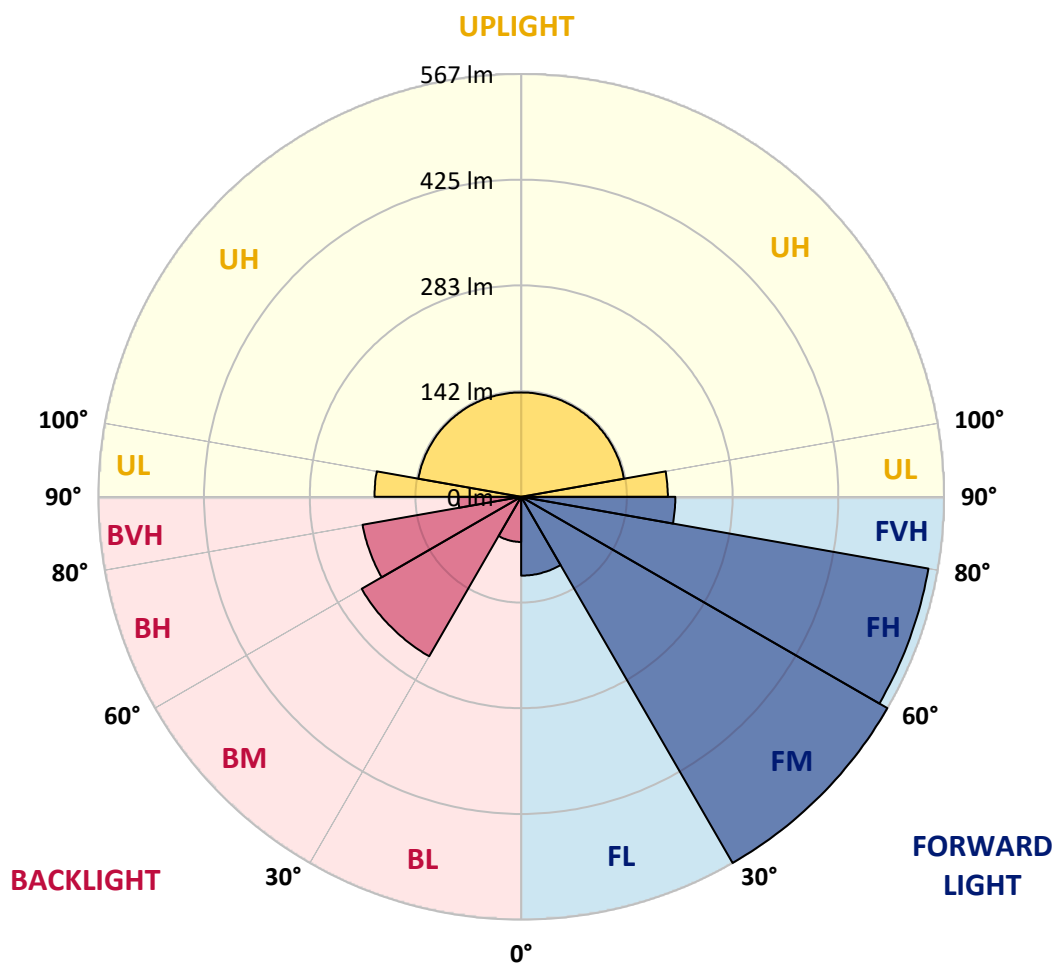
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.6	4.3			
FM	(30°-60°)	566.5	22.9			
FH	(60°-80°)	554.1	22.4			G0/660
FVH	(80°-90°)	206.5	8.4			G2/225
BL	(0°-30°)	60.5	2.5	B0/110		
BM	(30°-60°)	246.6	10.0	B1/1000		
BH	(60°-80°)	215.7	8.7	B1/500		G1/500
BVH	(80°-90°)	84.3	3.4			G1/100
UL	(90°-100°)	196.5	8.0		U3/500	
UH	(100°-180°)	139.8	5.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
2.5°	151.4	150.6	150.6	149.9	149.9	148.7	147.7	146.1	144.4	142.6	140.9
5°	163.4	163.4	162.8	162.8	161.4	159.2	156.8	153.9	150.9	147.7	143.8
7.5°	177.8	177.4	177.4	176.4	174.8	171.5	168.3	164.1	159.4	153.9	148.7
10°	192.4	192.1	192.1	191.2	189.3	185.3	180.4	175.4	169.6	162.5	155.2
12.5°	210.2	208.9	208.1	207.9	204.5	201.0	194.8	189.0	181.1	172.8	164.1
15°	228.8	228.3	226.6	225.6	222.2	216.8	210.8	203.6	195.8	186.6	175.8
17.5°	249.6	249.6	248.4	247.0	243.5	236.0	228.3	221.6	213.7	202.6	190.5
20°	272.2	272.2	270.6	268.7	264.0	257.5	250.0	241.9	232.3	220.3	205.5
22.5°	296.1	295.5	293.1	291.8	286.3	279.2	273.3	263.7	252.7	238.9	221.9
25°	321.2	320.2	318.0	316.7	310.2	304.5	297.7	286.6	273.9	258.2	239.2
27.5°	347.7	345.0	343.5	341.5	335.2	329.8	320.2	309.8	295.2	278.7	257.9
30°	373.2	372.3	370.3	367.6	362.0	355.5	345.0	333.7	319.3	301.3	278.1
32.5°	402.4	401.4	398.0	395.4	388.2	381.4	370.6	358.6	343.2	324.2	299.0
35°	431.4	430.1	426.4	423.6	417.6	407.6	394.7	383.3	367.9	348.7	321.6
37.5°	461.5	458.9	454.9	452.9	445.7	433.3	420.0	407.6	393.5	373.9	344.5
40°	489.8	488.6	483.9	481.8	473.9	458.6	443.9	432.8	420.0	399.3	368.3
42.5°	519.0	516.6	512.2	509.8	500.6	483.0	467.7	457.1	446.4	426.2	392.5
45°	544.8	543.8	538.3	536.9	525.9	506.9	489.2	480.1	470.6	451.3	414.7
47.5°	570.0	567.6	564.0	562.3	549.4	527.8	510.4	502.6	494.7	477.1	438.6
50°	590.5	590.2	587.0	584.9	570.0	546.3	528.8	522.5	518.3	501.3	460.1
52.5°	608.2	607.9	605.8	603.9	587.9	563.3	545.1	540.5	539.3	523.5	479.1
55°	620.5	620.3	619.7	617.7	602.0	576.8	558.8	555.2	556.9	542.1	496.1
57.5°	627.7	627.5	628.5	626.7	610.8	586.0	568.3	567.3	571.2	557.8	508.8
60°	628.5	628.5	630.7	629.7	615.3	590.8	574.1	574.6	580.8	568.0	517.1
62.5°	622.5	622.5	627.5	626.5	614.1	590.5	575.2	577.8	585.6	573.6	519.9
65°	609.8	611.4	617.0	617.0	607.3	586.0	572.0	575.9	585.3	573.2	518.1
67.5°	589.6	592.8	600.6	601.3	594.5	575.9	563.3	568.9	579.4	566.7	509.8
70°	564.3	568.9	577.2	579.4	576.5	561.1	550.8	557.2	567.3	554.7	496.5
72.5°	535.0	539.3	549.8	552.3	553.3	541.1	533.1	540.9	549.0	535.3	477.8
75°	502.3	505.8	517.7	520.3	524.5	517.7	512.5	518.6	527.8	510.7	454.0
77.5°	462.7	468.9	482.0	484.9	493.2	489.8	486.0	493.4	500.4	482.4	426.2
80°	424.4	432.4	443.1	449.1	458.9	458.6	459.2	464.1	470.0	450.3	396.2
82.5°	385.6	391.2	404.0	409.4	424.4	428.1	428.1	434.7	436.7	414.7	363.8
85°	346.4	352.9	365.7	371.3	387.6	395.4	397.7	401.1	401.4	378.5	330.3
87.5°	311.8	315.8	327.8	334.7	352.2	361.5	364.4	368.3	365.7	343.2	296.1
90°	277.1	280.7	292.5	298.1	317.3	328.2	334.7	336.2	331.0	307.2	264.7
92.5°	244.8	248.4	259.5	266.0	285.0	296.4	302.5	303.9	298.1	273.9	234.3
95°	216.3	216.3	228.3	233.3	254.6	267.3	273.3	273.3	265.0	241.1	205.3
97.5°	189.5	190.3	199.7	205.9	225.6	238.9	245.1	245.4	234.0	211.5	180.6
100°	165.4	166.4	175.2	180.6	199.7	213.7	219.2	218.3	206.5	183.3	156.2
102.5°	145.4	145.4	152.9	157.6	175.4	189.5	194.8	192.9	180.6	158.6	136.4
105°	127.5	128.1	132.9	137.6	154.6	167.7	172.8	169.9	157.6	136.0	118.9
107.5°	113.0	112.7	116.1	119.3	135.4	147.7	152.4	148.7	135.6	116.3	103.2
110°	98.8	99.1	101.7	103.9	118.7	130.4	133.7	130.8	116.1	99.1	89.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	87.2	87.2	89.2	91.2	101.7	113.0	117.0	112.7	98.8	84.0	78.2
115°	77.4	77.8	78.4	79.4	88.3	98.8	102.0	96.7	83.1	72.0	68.0
117.5°	69.0	69.0	69.3	70.2	75.8	85.2	87.6	82.0	70.2	61.4	59.7
120°	61.8	61.4	61.2	61.4	65.3	72.3	74.5	69.0	58.5	53.3	51.9
122.5°	54.8	54.8	54.3	54.5	55.5	60.7	62.4	57.2	49.3	46.1	45.8
125°	48.4	48.4	47.7	47.4	47.0	49.6	50.3	46.4	40.9	39.9	39.5
127.5°	42.2	42.5	41.5	41.2	39.9	40.2	40.6	36.9	33.6	34.0	34.3
130°	36.9	36.9	35.9	35.4	33.3	31.7	31.0	28.7	27.5	28.7	29.7
132.5°	32.0	31.4	30.7	30.1	27.0	24.9	23.5	21.6	22.2	24.2	25.2
135°	26.8	26.5	25.5	25.2	22.2	18.7	16.3	15.7	17.6	19.9	20.7
137.5°	21.9	21.9	20.9	20.2	17.0	13.5	11.0	11.0	13.5	15.7	17.0
140°	17.2	17.2	16.3	15.7	12.8	9.2	6.8	7.1	9.8	12.0	13.0
142.5°	13.0	13.0	12.0	11.8	9.2	5.8	4.0	4.6	6.8	8.9	9.8
145°	9.5	9.2	8.5	8.2	5.8	3.7	1.9	2.6	4.2	5.8	6.8
147.5°	6.2	6.2	5.6	5.2	3.7	1.9	0.7	1.3	2.6	3.7	4.6
150°	3.7	3.7	3.2	3.0	1.9	0.7	0.0	0.7	1.3	1.9	2.6
152.5°	1.9	1.9	1.6	1.6	0.7	0.3	0.0	0.0	0.3	1.0	1.0
155°	0.7	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
2.5°	139.9	138.9	136.9	135.4	133.7	131.7	130.8	129.7	129.0	128.5	128.5
5°	141.8	139.9	136.4	132.7	129.4	126.5	123.8	121.9	120.9	120.3	120.0
7.5°	146.1	143.1	137.3	131.7	126.8	122.2	118.7	115.7	114.1	113.0	112.7
10°	151.6	147.4	139.9	132.4	125.9	120.0	115.1	111.4	109.1	108.2	107.4
12.5°	159.2	153.9	144.1	134.7	126.1	118.9	112.7	108.9	106.4	105.2	105.2
15°	170.6	163.8	151.6	138.9	128.5	119.7	112.7	108.4	106.9	106.2	105.9
17.5°	183.7	175.8	161.2	146.5	132.9	121.9	115.7	113.0	110.9	109.9	109.9
20°	198.0	188.6	171.5	154.9	139.9	128.5	121.6	117.3	114.8	113.7	113.4
22.5°	212.4	202.6	182.6	163.8	147.1	136.9	127.1	121.9	118.7	117.3	117.0
25°	228.8	218.0	194.5	173.3	157.3	145.7	134.3	126.8	122.6	120.9	120.6
27.5°	246.4	233.6	207.5	183.3	167.1	153.6	140.9	130.8	126.5	124.5	124.1
30°	264.7	250.6	220.7	193.9	176.4	160.4	147.1	135.6	130.1	127.7	127.5
32.5°	284.0	267.3	234.6	206.3	185.3	166.6	152.4	140.1	133.4	130.8	130.8
35°	305.6	286.3	248.4	217.7	193.4	172.8	156.8	144.4	136.4	133.7	133.7
37.5°	326.2	305.2	263.1	230.1	201.0	177.8	160.4	148.4	139.1	136.0	136.0
40°	348.1	324.2	277.1	240.1	207.5	181.6	163.8	151.4	141.6	138.6	137.9
42.5°	369.4	343.2	292.2	250.6	213.1	185.1	166.4	153.9	143.5	139.9	139.5
45°	391.5	362.0	306.5	259.2	217.7	187.2	167.7	155.5	145.7	141.2	140.6
47.5°	410.7	380.1	320.5	266.6	221.3	188.6	168.6	156.8	147.1	141.8	141.2
50°	430.1	396.2	332.4	272.8	223.1	189.3	168.9	157.3	148.0	141.8	141.2
52.5°	447.4	411.2	342.6	277.1	224.1	189.0	168.6	157.3	148.4	141.2	140.6
55°	461.8	423.2	349.7	279.7	224.1	187.9	167.7	156.6	148.0	140.6	139.5
57.5°	472.6	431.4	354.7	280.5	222.6	185.9	166.0	155.5	147.1	139.1	137.9
60°	479.1	435.9	356.2	278.7	219.9	183.7	164.1	154.2	146.1	137.3	136.4
62.5°	481.0	436.7	354.7	275.5	216.3	180.4	161.2	152.0	144.1	134.9	133.9
65°	477.8	433.1	350.0	270.3	211.5	176.4	158.2	149.4	141.8	132.4	131.4
67.5°	468.9	425.2	341.9	263.1	205.9	171.8	154.9	146.5	139.1	129.4	127.5
70°	455.9	413.4	331.4	254.3	199.3	167.1	150.9	142.8	135.6	126.1	124.1
72.5°	436.9	397.4	317.7	243.5	191.9	161.8	146.1	138.6	131.7	122.2	119.7
75°	414.1	376.7	301.3	232.3	184.1	155.5	141.2	133.9	127.1	117.7	115.3
77.5°	388.5	355.2	283.7	219.6	174.8	149.4	136.0	129.0	121.9	112.7	109.5
80°	360.8	330.0	264.5	206.5	166.4	142.6	130.1	123.5	116.3	107.4	103.9
82.5°	330.8	303.9	245.1	193.4	156.8	135.6	124.1	117.7	110.1	101.7	98.1
85°	301.3	277.1	224.8	179.4	147.7	128.5	117.7	111.1	104.3	95.4	92.2
87.5°	270.8	250.0	205.0	165.6	138.6	121.6	111.4	104.7	97.3	89.2	86.5
90°	244.5	224.5	186.3	152.6	129.0	114.1	104.9	97.7	90.9	83.1	80.7
92.5°	216.3	200.1	168.0	140.1	120.3	106.9	98.4	91.4	84.0	76.4	74.9
95°	192.1	178.8	151.4	127.7	110.9	100.0	91.8	84.6	77.2	70.0	69.0
97.5°	168.9	157.8	134.9	116.3	102.6	92.9	85.0	78.2	70.2	63.7	63.2
100°	148.4	138.6	120.3	105.9	93.9	86.0	78.7	71.5	63.7	57.5	57.5
102.5°	129.4	121.9	107.2	95.1	86.0	78.4	72.0	64.7	56.9	51.7	51.9
105°	114.1	106.9	94.9	85.6	78.2	71.2	65.0	57.9	50.3	46.1	46.4
107.5°	99.4	93.9	84.0	76.1	70.2	64.7	58.2	51.4	43.7	41.2	41.5
110°	86.5	82.4	74.5	68.0	63.4	58.2	52.3	45.2	38.3	36.7	36.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	75.5	72.0	66.0	60.7	56.2	51.9	45.8	39.3	32.7	32.0	32.0
115°	66.0	63.4	57.9	53.5	50.3	46.1	40.6	33.6	28.4	28.0	28.4
117.5°	57.9	55.5	50.9	47.4	44.5	40.6	35.4	28.7	24.2	24.6	24.9
120°	50.7	49.0	45.2	42.2	39.3	35.7	30.1	24.2	21.2	21.6	21.6
122.5°	44.7	43.2	39.9	36.9	34.3	30.7	25.8	20.2	18.2	19.0	19.0
125°	38.8	37.9	34.7	32.0	29.5	25.8	21.2	16.7	15.7	16.3	16.3
127.5°	33.6	33.0	30.5	27.5	24.9	21.6	17.2	13.7	13.5	14.1	14.1
130°	29.0	28.4	26.1	23.5	20.7	17.6	13.5	11.0	11.5	12.0	12.4
132.5°	24.9	24.6	22.2	19.3	16.7	13.7	10.5	9.2	9.8	10.5	10.5
135°	20.7	20.2	18.7	16.0	13.0	10.5	7.8	7.1	8.2	8.9	8.9
137.5°	17.0	16.3	15.0	12.4	9.8	7.5	5.6	5.8	6.6	7.1	7.1
140°	13.5	13.0	11.8	9.5	6.8	4.9	4.0	4.6	5.6	5.8	5.8
142.5°	9.8	9.8	8.5	6.6	4.2	3.0	2.6	3.2	4.2	4.6	4.6
145°	6.8	6.8	5.8	4.2	2.6	1.3	1.3	2.2	3.0	3.2	3.7
147.5°	4.6	4.2	3.7	2.6	1.3	0.3	0.7	1.6	1.9	2.2	2.2
150°	2.6	2.6	1.9	1.3	0.7	0.0	0.3	0.7	1.0	1.3	1.6
152.5°	1.0	1.0	0.7	0.3	0.3	0.0	0.0	0.0	0.3	0.7	0.7
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°	0.3	0.0	0.3	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)