

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: P266263

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-SL3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1696 lumens
Efficiency: N/A
Efficacy: 80.8 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: B0 - 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



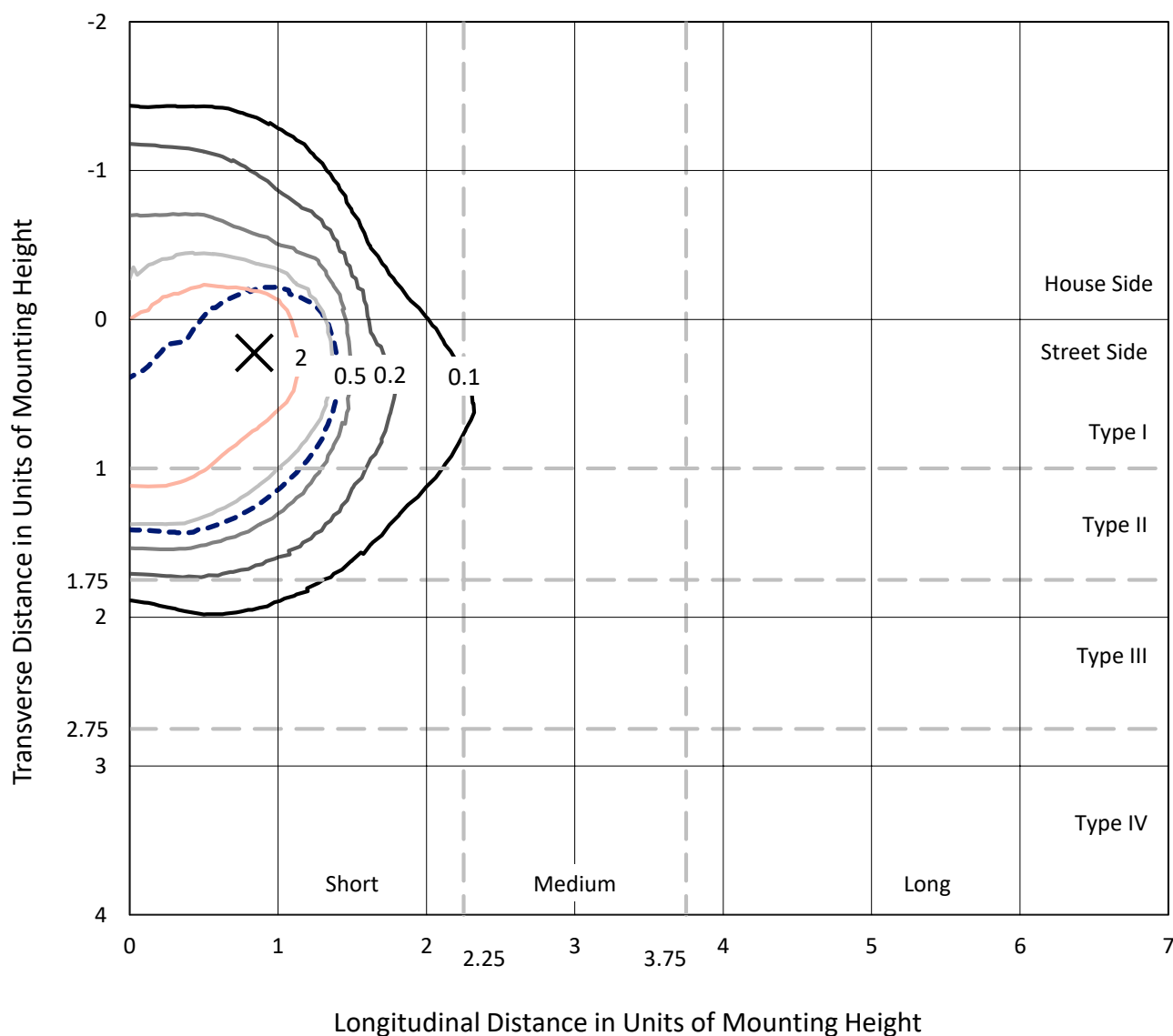
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

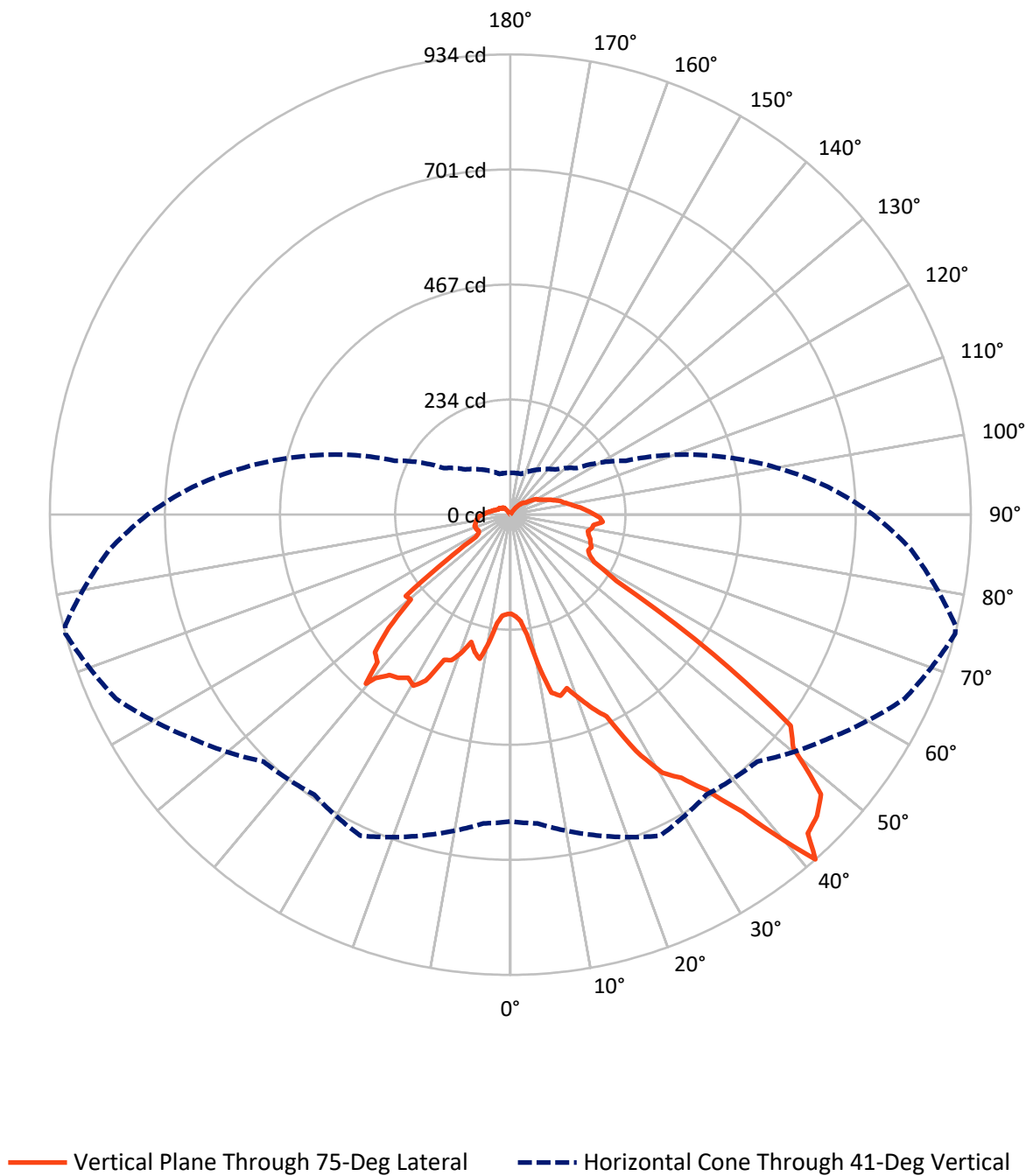


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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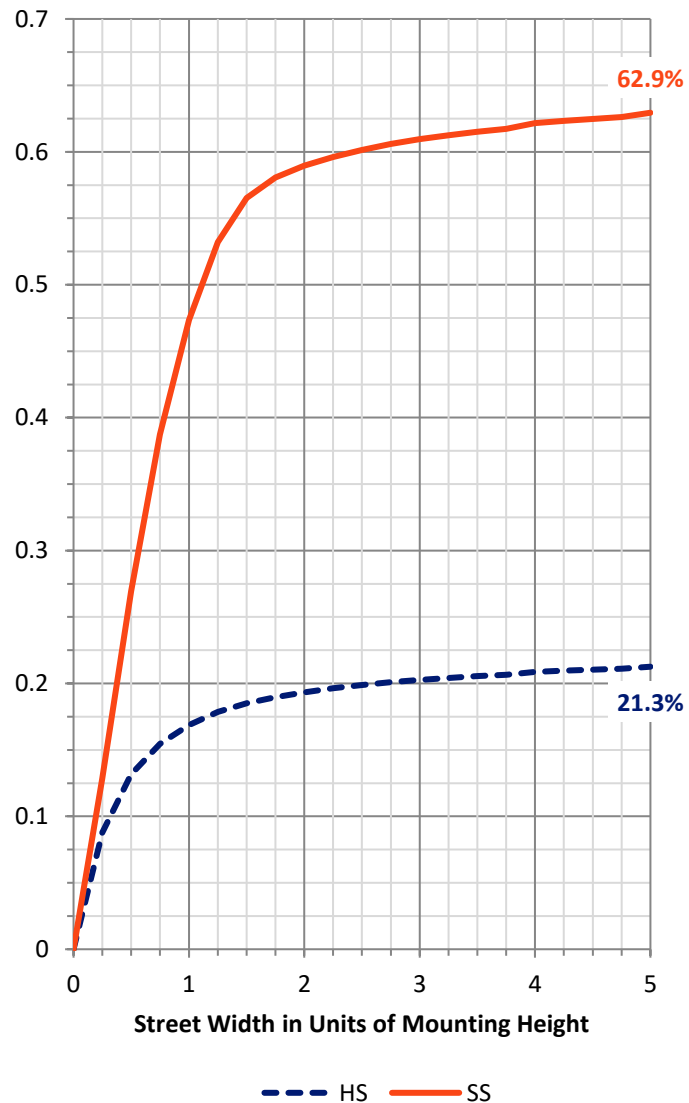
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	374.1	47.7	421.8
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	1100.3	173.9	1274.2
	% Fixture	64.9	10.3	75.1
Total	Lumens	1474.4	221.6	1696.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.2
10°-20°	83.9	4.9
20°-30°	172.4	10.2
30°-40°	280.7	16.6
40°-50°	364.6	21.5
50°-60°	258.5	15.2
60°-70°	105.1	6.2
70°-80°	95.1	5.6
80°-90°	92.9	5.5
90°-100°	79.7	4.7
100°-110°	57.7	3.4
110°-120°	39.4	2.3
120°-130°	25.6	1.5
130°-140°	15.2	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°	1474.4	86.9
0°-180°	1696.0	100.0

Coefficient of Utilization



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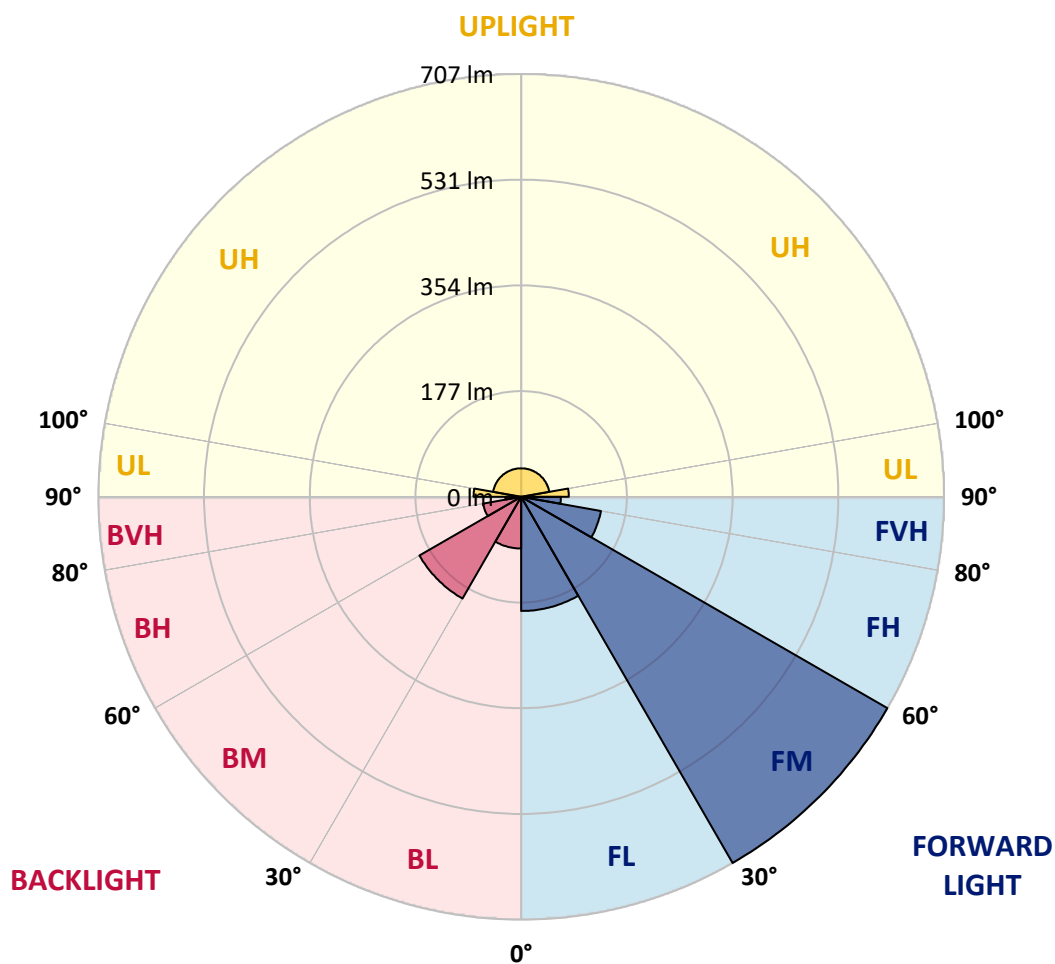
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.0	11.3			
FM	(30°-60°)	707.4	41.7			
FH	(60°-80°)	135.4	8.0			G0/660
FVH	(80°-90°)	66.5	3.9			G1/100
BL	(0°-30°)	86.6	5.1	B0/110		
BM	(30°-60°)	196.5	11.6	B0/220		
BH	(60°-80°)	64.7	3.8	B0/110		G0/110
BVH	(80°-90°)	26.4	1.6			G1/100
UL	(90°-100°)	79.7	4.7		U3/500	
UH	(100°-180°)	47.7	2.8		U2/50	

BUG Rating: B0-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2
2.5°	215.2	215.7	214.8	213.9	213.4	212.1	210.8	209.1	206.7	206.5	205.5
5°	234.7	234.7	234.7	233.1	231.1	228.0	225.4	221.5	216.9	216.6	213.0
7.5°	266.3	266.3	264.9	262.6	258.3	253.3	252.9	252.5	246.1	245.3	238.9
10°	300.5	299.4	300.3	302.1	304.3	310.9	314.9	315.5	308.7	307.0	297.6
12.5°	313.8	314.6	323.2	338.7	364.7	390.9	404.2	393.2	370.7	367.9	345.6
15°	334.0	335.2	349.3	375.1	418.6	456.2	444.7	416.9	381.4	378.7	344.4
17.5°	388.3	393.9	407.4	448.6	492.7	477.4	438.4	402.6	370.6	367.3	338.7
20°	426.5	429.7	455.7	495.1	526.2	503.1	476.3	440.3	397.1	397.1	374.7
22.5°	458.1	457.1	478.4	537.8	556.1	541.0	509.9	473.1	427.2	425.1	395.9
25°	507.9	511.0	547.7	613.5	596.8	558.7	517.6	483.9	453.9	451.2	421.9
27.5°	536.8	545.1	587.4	644.4	633.8	582.3	546.3	541.3	543.5	541.3	509.3
30°	544.2	547.7	600.0	656.4	649.3	611.0	611.0	619.6	608.4	605.3	562.5
32.5°	562.2	571.0	621.0	664.9	647.3	640.0	643.8	642.2	637.3	633.0	583.3
35°	591.8	599.2	646.2	679.2	647.0	649.7	684.5	704.5	687.2	683.3	609.1
37.5°	669.2	676.6	718.7	716.8	664.1	669.2	732.3	768.9	765.9	765.4	692.0
40°	653.7	677.7	729.0	736.9	689.8	695.4	770.7	850.3	887.0	886.2	795.1
41°	622.9	629.4	674.1	719.3	693.9	708.7	790.8	883.3	934.4	930.9	816.7
42.5°	634.1	645.6	672.1	687.2	689.1	718.6	806.5	887.3	884.7	883.0	789.8
45°	728.6	733.5	744.7	715.9	667.4	704.0	797.8	872.9	872.7	864.9	822.8
47.5°	683.0	696.7	744.2	718.6	665.1	664.7	726.3	828.0	848.2	837.1	732.6
50°	646.2	655.9	683.5	656.2	632.8	632.2	690.3	766.9	743.6	740.6	596.8
52.5°	573.1	582.8	602.4	595.5	582.3	580.8	625.0	705.2	712.4	710.1	602.4
55°	435.7	442.4	516.2	518.1	508.1	513.0	548.8	581.4	500.1	487.2	338.7
57.5°	255.9	273.4	344.9	389.5	410.0	413.9	401.6	344.0	253.9	244.7	156.2
60°	126.3	135.3	185.1	232.3	285.5	287.4	248.3	219.7	194.9	189.4	136.7
62.5°	90.1	95.4	128.0	153.2	182.8	187.7	173.9	185.7	180.4	177.1	133.0
65°	81.7	86.1	113.5	126.8	139.1	146.7	149.9	169.8	173.9	171.8	132.1
67.5°	74.6	79.2	103.7	113.7	123.0	135.0	142.2	161.9	177.5	176.1	140.0
70°	65.9	71.2	93.5	105.8	117.0	131.0	140.9	161.3	172.7	170.8	135.7
72.5°	57.8	62.5	80.7	95.2	111.7	127.5	142.2	157.3	169.8	168.2	137.4
75°	50.2	55.1	70.7	85.8	104.8	128.5	143.2	156.0	164.0	161.5	135.0
77.5°	45.2	49.9	63.5	78.2	99.5	130.0	156.6	161.3	161.1	158.7	132.1
80°	41.1	46.0	58.7	72.9	94.7	133.0	167.4	172.2	167.9	164.7	132.8
82.5°	39.9	44.5	56.2	72.0	95.6	135.0	170.5	182.5	170.3	166.4	132.1
85°	44.1	47.2	59.4	77.1	101.9	138.3	169.3	188.4	188.1	184.1	144.2
87.5°	52.6	55.1	67.2	85.0	108.7	140.3	184.3	192.0	181.8	179.9	145.6
90°	65.1	67.0	79.5	95.8	115.7	139.3	152.0	161.9	168.6	167.2	138.2
92.5°	77.6	79.7	91.1	103.1	112.1	119.8	132.1	155.0	156.0	154.8	132.8
95°	92.0	93.5	100.0	106.0	107.9	110.6	123.0	133.0	144.2	142.7	128.0
97.5°	100.0	100.7	103.7	102.9	98.4	98.8	112.6	123.3	130.2	128.5	112.1
100°	98.1	98.8	99.3	95.0	88.7	90.5	101.9	115.0	120.3	119.6	103.8
102.5°	91.7	93.0	93.2	88.9	83.2	83.5	94.7	104.7	110.1	109.1	96.8
105°	90.1	90.5	88.5	82.6	75.8	76.8	87.5	98.1	104.7	104.2	91.5
107.5°	81.1	81.7	78.5	72.9	70.5	73.2	82.9	89.7	94.0	94.0	81.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	68.1	68.1	67.5	66.1	66.7	70.5	78.5	82.9	86.4	86.1	74.6
112.5°	65.9	65.4	64.7	63.8	62.3	65.4	70.7	76.0	76.8	76.5	66.7
115°	64.9	64.3	61.9	59.2	57.5	59.8	64.0	68.8	70.7	70.5	63.5
117.5°	57.5	57.5	55.5	53.5	52.9	56.1	61.2	64.3	64.5	64.9	58.2
120°	51.5	51.5	50.2	49.2	49.8	51.3	56.8	59.4	61.9	61.5	55.8
122.5°	46.8	47.2	46.2	44.1	46.0	47.3	50.5	53.1	55.8	55.5	51.5
125°	42.3	42.0	41.1	38.8	42.8	44.6	44.9	44.6	47.3	47.3	43.7
127.5°	37.4	37.2	36.2	35.0	40.1	42.8	42.3	38.4	40.1	39.9	38.2
130°	36.9	36.7	35.0	33.5	36.0	40.6	38.4	35.8	37.2	37.4	35.8
132.5°	36.7	36.6	34.8	32.3	31.6	36.6	32.6	33.1	34.8	34.8	33.3
135°	34.2	34.0	32.6	29.3	25.8	30.3	25.8	28.4	30.7	30.7	29.5
137.5°	30.3	30.0	28.4	25.6	20.8	21.5	19.6	24.0	26.3	26.6	25.6
140°	24.0	24.2	22.6	19.9	15.0	11.4	12.8	18.5	21.0	21.0	20.8
142.5°	17.8	17.8	16.3	13.6	8.8	4.1	7.2	11.4	14.3	14.6	15.0
145°	12.5	12.5	11.0	8.8	4.3	0.7	3.4	6.7	9.0	9.0	9.6
147.5°	8.3	8.3	6.9	4.9	1.2	0.2	1.0	3.4	5.3	5.3	5.7
150°	5.1	5.1	3.9	1.4	0.2	0.0	0.2	0.7	2.4	2.4	3.1
152.5°	1.6	1.4	0.7	0.4	0.2	0.0	0.0	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2
2.5°	204.4	203.8	202.2	200.1	197.3	193.9	191.8	190.8	189.6	188.6	189.2
5°	211.1	209.3	205.5	198.5	192.0	187.1	183.3	179.9	178.3	176.7	176.7
7.5°	235.7	232.8	221.9	210.2	195.4	182.0	172.7	167.9	162.4	160.8	160.5
10°	289.3	285.8	262.8	234.3	206.5	180.4	156.8	144.0	137.9	134.7	135.5
12.5°	333.8	325.5	299.4	267.2	228.7	186.7	153.9	131.0	120.7	116.9	115.4
15°	330.1	316.5	288.1	257.5	227.5	196.9	164.0	138.2	117.0	110.1	108.7
17.5°	322.2	307.7	270.3	231.0	195.9	177.1	158.7	139.9	123.8	113.2	111.3
20°	362.7	346.3	297.6	258.4	209.1	161.5	140.6	130.0	119.8	114.4	113.2
22.5°	380.2	363.5	318.5	269.0	220.3	179.2	144.8	125.4	117.4	116.4	115.0
25°	406.3	385.3	324.1	261.8	214.8	181.2	145.2	125.9	113.9	113.9	113.2
27.5°	490.6	459.8	378.5	290.8	222.9	174.1	141.6	120.3	106.0	100.5	99.3
30°	528.3	499.0	399.2	298.2	226.6	175.8	134.7	110.4	101.0	96.8	96.4
32.5°	555.5	517.3	390.6	280.2	208.1	164.2	128.9	106.8	97.3	93.8	92.7
35°	569.0	518.9	402.1	273.7	197.1	150.7	122.2	102.6	96.8	94.0	94.0
37.5°	634.9	572.7	407.9	271.9	188.6	137.7	116.2	102.9	90.5	86.4	86.6
40°	726.0	637.3	429.7	259.4	172.2	133.0	112.3	98.4	87.0	84.4	83.4
41°	736.2	646.8	451.4	259.2	164.5	129.6	112.1	97.8	85.5	85.0	84.8
42.5°	709.1	616.5	402.6	235.4	154.2	124.1	111.6	97.3	84.0	85.2	85.0
45°	740.1	648.2	391.8	215.7	136.7	115.0	105.8	94.7	83.2	80.8	81.1
47.5°	642.9	549.5	337.1	187.7	121.0	105.0	97.8	88.7	80.7	79.5	79.5
50°	512.0	430.8	265.2	165.0	106.4	96.8	90.1	84.0	75.8	72.8	73.8
52.5°	521.6	436.4	268.9	153.6	96.8	88.5	84.0	76.5	67.0	61.2	62.1
55°	286.9	248.8	157.3	117.9	89.8	82.1	77.1	69.3	58.7	52.2	52.9
57.5°	130.2	108.2	83.5	81.1	77.8	75.5	70.1	63.1	52.9	45.6	45.6
60°	116.4	95.4	74.6	67.8	69.6	69.8	64.0	57.2	47.3	38.8	39.2
62.5°	113.7	93.0	72.5	64.7	66.1	66.1	60.6	53.9	44.9	36.2	36.2
65°	113.2	92.0	72.8	63.8	64.7	64.9	59.4	53.9	47.8	41.5	42.0
67.5°	120.1	97.3	75.1	63.1	64.0	64.0	59.4	55.3	51.7	47.8	48.2
70°	116.4	95.6	74.6	63.1	62.5	62.5	59.2	55.5	53.5	50.2	50.5
72.5°	117.9	98.5	76.0	62.5	60.6	60.1	58.0	55.8	54.1	52.5	52.6
75°	115.7	97.6	73.8	60.1	57.8	56.8	55.3	54.8	55.1	54.3	53.9
77.5°	112.3	95.8	72.0	57.8	55.1	52.9	51.9	52.2	53.1	52.5	51.7
80°	111.7	96.1	71.2	56.2	51.7	48.1	46.8	47.3	47.6	46.2	44.6
82.5°	110.4	94.2	67.8	52.5	46.6	42.0	41.1	41.9	42.0	40.6	39.2
85°	118.8	99.3	67.0	48.8	42.3	37.4	35.8	36.0	34.2	32.1	30.7
87.5°	122.2	100.3	63.1	43.2	37.9	33.9	31.6	30.3	27.6	24.0	22.9
90°	116.2	95.2	56.8	37.2	33.3	30.3	27.6	25.6	22.2	18.5	17.3
92.5°	112.6	91.3	52.2	33.3	29.3	26.6	24.2	21.3	17.8	13.7	13.0
95°	110.4	89.8	49.2	29.7	26.1	23.4	21.0	18.3	15.0	11.9	11.4
97.5°	96.1	77.8	43.5	26.6	22.9	20.5	18.3	15.7	12.5	10.2	9.6
100°	89.3	72.5	40.3	24.0	20.3	18.1	16.2	14.1	11.4	9.6	9.4
102.5°	83.5	67.5	36.7	21.5	18.1	15.9	14.3	12.2	10.4	9.0	9.3
105°	79.2	64.3	35.3	19.9	16.2	14.6	12.5	11.0	9.3	8.3	8.3
107.5°	70.2	57.0	31.1	17.8	14.7	13.0	11.6	10.2	8.8	7.9	8.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	64.9	52.9	29.7	17.2	14.1	12.0	10.6	9.3	7.7	7.7	7.7
112.5°	57.8	47.6	27.6	16.2	13.0	11.4	9.9	8.3	6.7	6.9	7.2
115°	55.3	46.0	26.6	15.5	12.5	10.9	9.3	7.7	6.1	6.5	6.7
117.5°	50.9	42.5	25.8	15.5	12.0	10.2	8.8	7.2	5.7	6.3	6.3
120°	49.4	41.9	25.8	15.2	11.6	9.6	8.3	6.3	5.3	5.7	5.7
122.5°	46.2	39.2	24.7	15.0	11.0	9.3	7.9	5.3	4.6	5.1	5.1
125°	39.6	34.0	22.2	14.1	10.6	9.3	7.7	4.3	4.3	4.9	4.9
127.5°	34.6	30.0	20.3	13.7	10.9	9.6	7.2	3.7	3.9	4.3	4.3
130°	32.9	29.3	21.0	15.0	11.9	10.2	5.3	3.4	3.7	4.1	4.3
132.5°	31.1	28.2	21.5	16.2	12.5	9.9	4.3	3.1	3.4	3.9	3.9
135°	27.8	25.6	20.0	15.5	11.9	7.9	3.1	2.6	3.1	3.7	3.7
137.5°	24.4	22.6	18.3	14.3	10.9	6.3	2.2	2.4	2.6	3.0	3.0
140°	20.0	18.5	15.2	11.6	7.9	3.4	1.4	1.9	2.2	2.4	2.4
142.5°	14.6	13.6	10.9	7.7	4.6	1.2	1.0	1.4	1.6	1.9	1.9
145°	9.6	9.0	6.9	4.9	1.6	0.7	0.4	1.0	1.4	1.4	1.6
147.5°	5.7	5.6	4.1	2.2	0.7	0.4	0.4	0.7	1.0	1.2	1.2
150°	3.0	3.0	1.9	0.7	0.4	0.2	0.2	0.2	0.4	0.7	0.7
152.5°	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
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	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.2	0.2	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)