

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: P266272

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1960.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U2 - 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

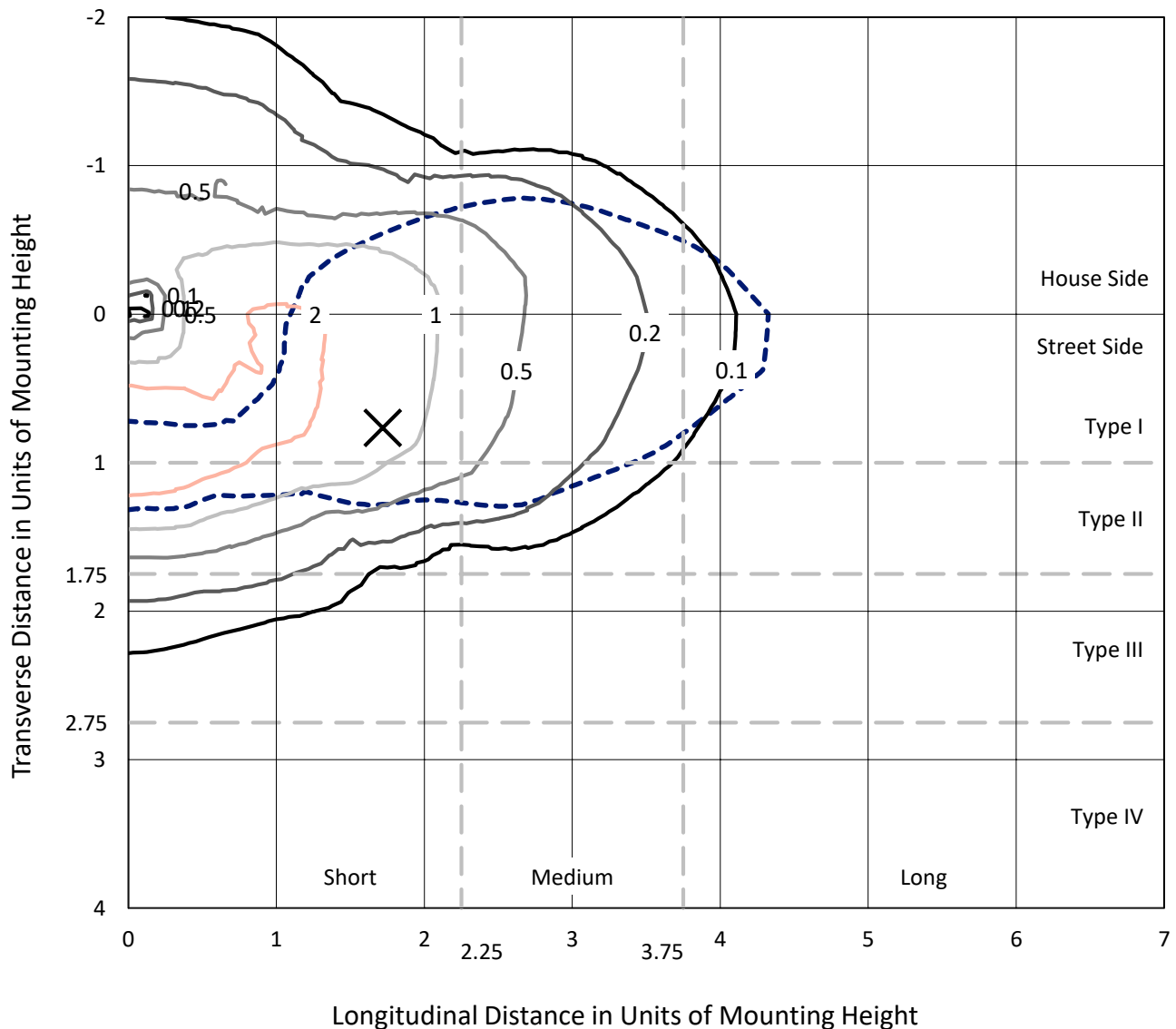


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

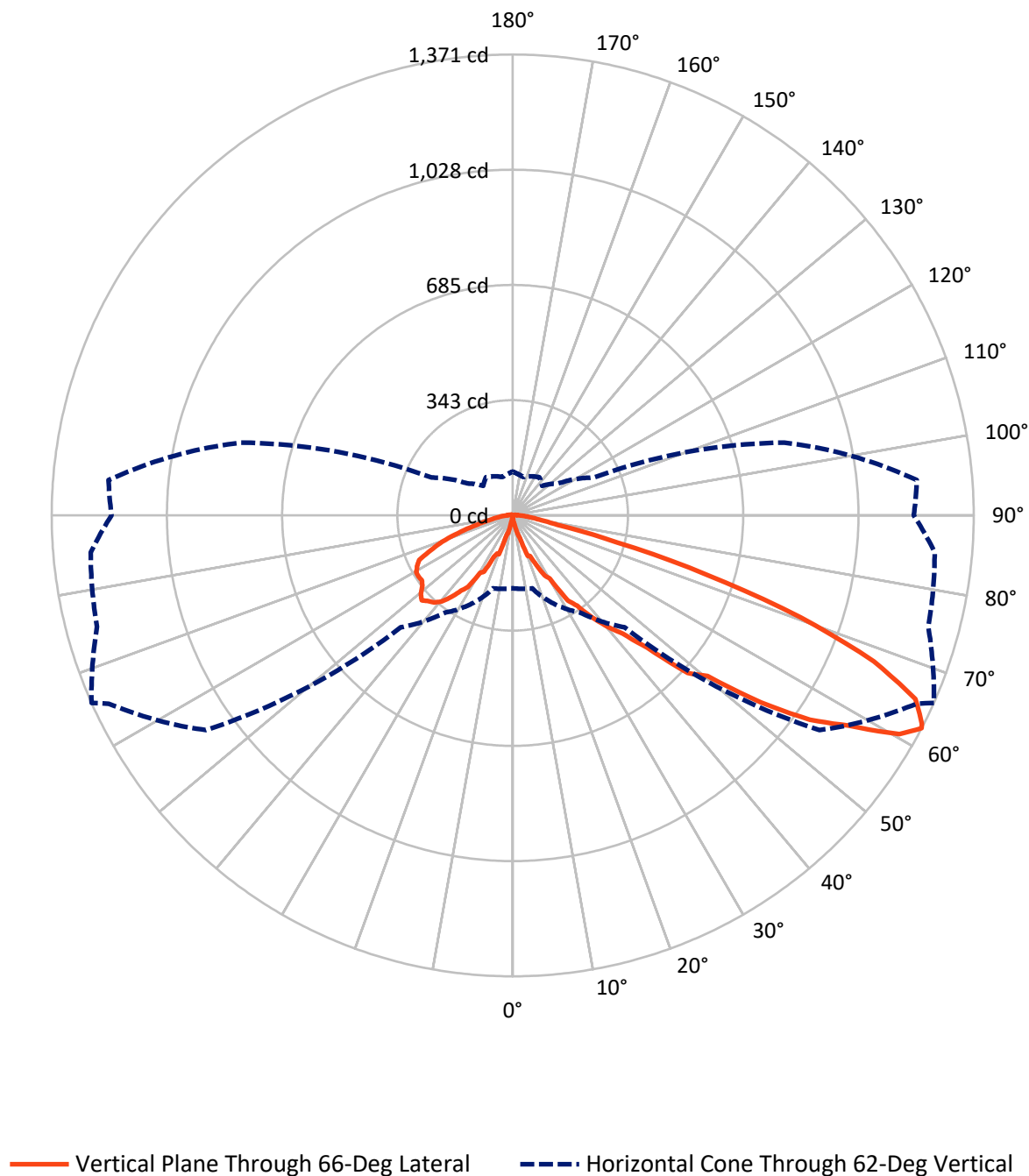


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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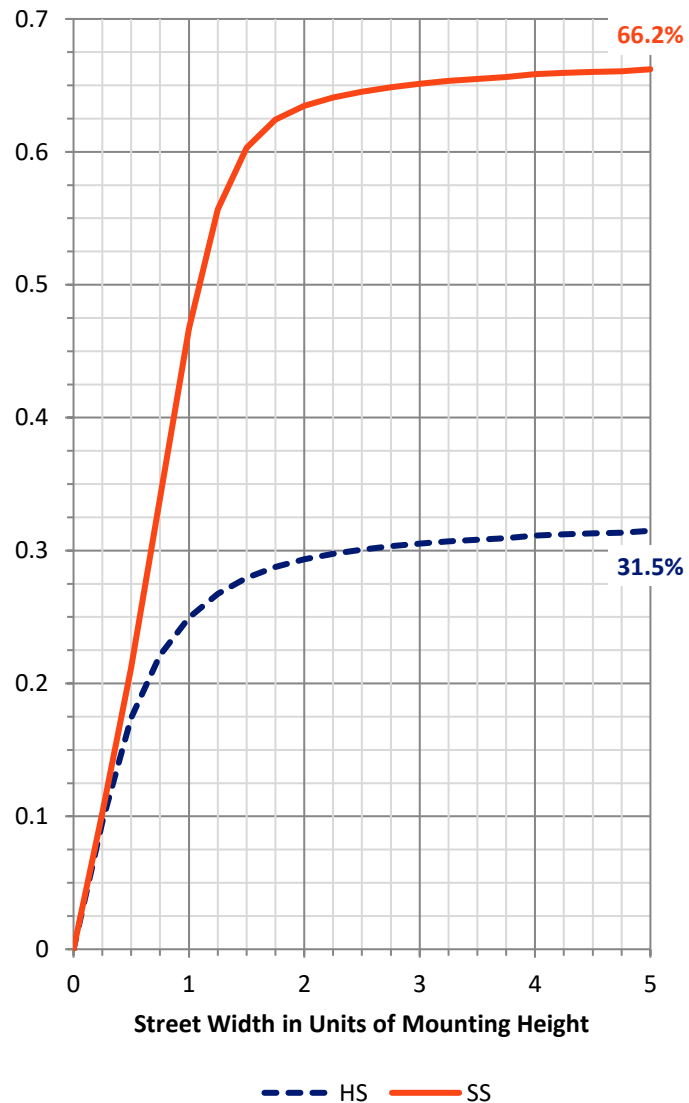
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.0	15.0	644.0
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	1306.0	11.0	1317.0
	% Fixture	66.6	0.6	67.2
Total	Lumens	1935.0	26.0	1960.9
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.1
10°-20°	19.9	1.0
20°-30°	78.8	4.0
30°-40°	196.4	10.0
40°-50°	374.6	19.1
50°-60°	510.8	26.1
60°-70°	469.3	23.9
70°-80°	239.4	12.2
80°-90°	44.0	2.2
90°-100°	11.6	0.6
100°-110°	5.6	0.3
110°-120°	3.4	0.2
120°-130°	2.6	0.1
130°-140°	1.7	0.1
140°-150°	0.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1935.0	98.7
0°-180°	1960.9	100.0

Coefficient of Utilization



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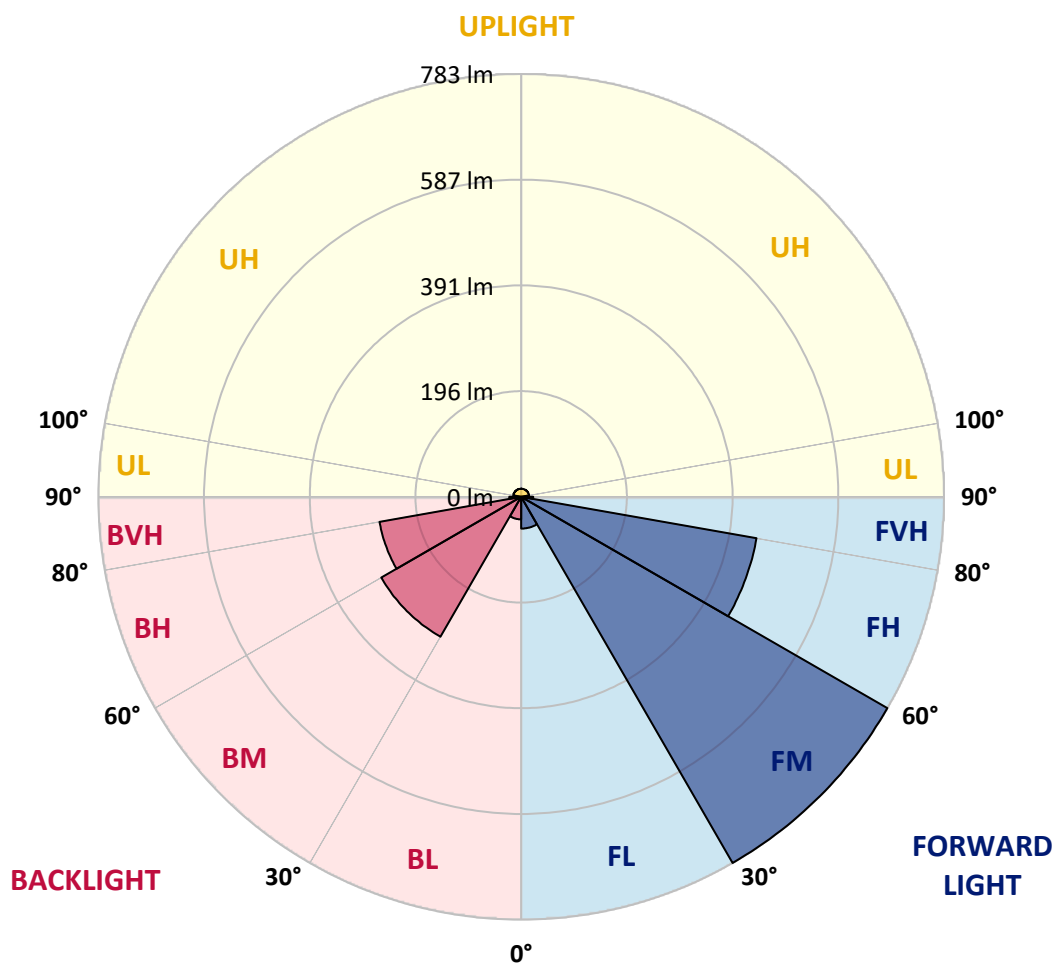
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.8	3.0			
FM	(30°-60°)	782.7	39.9			
FH	(60°-80°)	442.3	22.6			G0/660
FVH	(80°-90°)	22.1	1.1			G1/100
BL	(0°-30°)	41.7	2.1	B0/110		
BM	(30°-60°)	299.1	15.3	B1/1000		
BH	(60°-80°)	266.3	13.6	B1/500		G1/500
BVH	(80°-90°)	21.9	1.1			G1/100
UL	(90°-100°)	11.6	0.6		U2/50	
UH	(100°-180°)	15.0	0.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	24.3	23.1	17.3	15.2	12.8	10.4	7.9	6.7	6.5	6.0	5.6
5°	24.3	24.3	25.2	26.6	29.5	26.8	28.2	10.2	9.6	6.5	5.3
7.5°	46.6	45.4	57.0	40.3	25.3	23.6	36.0	22.0	22.0	10.2	6.0
10°	63.1	62.8	77.1	49.2	45.4	55.1	24.3	25.2	25.2	17.3	8.4
12.5°	61.9	61.4	62.3	67.8	57.0	48.2	49.0	32.1	40.1	63.2	64.9
15°	87.0	91.4	86.6	66.4	60.8	60.5	78.2	59.4	60.4	69.4	50.9
17.5°	115.9	116.4	126.8	107.6	84.7	89.7	82.9	83.1	73.4	77.1	86.1
20°	126.3	124.1	129.8	120.5	120.5	107.2	84.5	119.7	128.6	120.9	119.6
22.5°	216.9	215.9	188.9	132.1	136.6	125.4	128.0	139.5	131.2	123.2	120.9
25°	247.3	244.1	234.6	225.2	167.5	175.8	155.0	151.6	161.1	194.4	210.4
27.5°	328.8	332.5	284.0	253.5	226.0	189.1	177.2	217.7	202.1	212.7	210.4
30°	413.8	412.0	394.7	339.0	284.0	234.6	235.1	228.7	218.0	250.5	284.7
32.5°	536.5	542.8	464.2	405.9	354.9	285.7	258.8	303.9	302.0	292.6	305.5
35°	668.8	667.8	603.7	507.3	383.8	323.0	309.2	336.1	329.6	315.0	338.8
37.5°	752.8	743.3	699.7	616.9	469.4	368.1	373.1	392.6	386.0	367.0	410.6
40°	874.5	864.1	812.0	699.4	585.2	446.2	473.4	457.5	436.2	433.0	438.5
42.5°	919.1	919.7	868.8	786.8	685.9	557.7	572.0	502.0	480.5	516.4	504.4
45°	933.2	931.3	895.7	834.3	751.3	690.9	645.6	582.8	561.1	593.9	607.0
47.5°	902.4	894.7	900.6	832.0	820.4	749.1	739.8	695.4	700.1	681.5	712.3
50°	820.2	808.8	824.0	806.1	855.6	812.2	921.8	753.5	750.9	784.4	822.6
52.5°	692.5	684.0	733.2	718.6	847.9	881.0	958.0	921.1	923.5	926.6	905.9
55°	567.4	571.7	609.4	600.6	736.2	896.0	1079.0	1058.5	1072.4	994.8	995.0
57.5°	405.1	414.7	482.6	487.7	613.5	788.1	1176.1	1143.3	1179.1	1106.5	1122.7
60°	279.2	284.9	321.7	372.7	460.4	654.2	1124.4	1288.1	1320.7	1220.2	1219.4
62°	216.6	218.9	224.5	290.0	353.5	470.4	1113.0	1324.6	1370.6	1279.1	1259.3
62.5°	201.0	203.6	207.1	263.2	325.9	427.7	1070.5	1332.5	1365.3	1286.6	1266.2
65°	160.7	162.1	153.8	175.0	230.3	255.5	769.2	1295.0	1316.0	1277.4	1246.6
67.5°	148.9	144.5	133.3	127.5	172.4	164.7	418.6	1103.8	1158.2	1222.7	1190.6
70°	123.3	132.9	123.8	113.9	137.6	126.5	177.7	893.4	908.5	1119.3	1114.9
72.5°	94.4	101.4	108.7	107.4	106.0	101.9	118.0	558.1	602.9	918.6	1032.4
75°	76.5	79.4	94.6	91.4	94.1	80.7	93.0	265.3	321.1	650.3	897.9
77.5°	61.5	63.5	73.7	71.0	78.1	63.1	74.1	120.3	136.2	373.8	614.9
80°	40.9	41.9	53.5	53.1	57.0	55.8	56.1	84.4	85.2	174.8	321.9
82.5°	30.5	30.0	36.9	37.2	36.9	40.3	38.4	57.8	60.1	85.7	107.0
85°	19.9	19.0	22.0	23.4	22.5	22.2	28.9	40.6	42.2	61.1	63.7
87.5°	10.9	11.6	14.6	14.6	15.2	15.0	23.6	27.0	28.2	40.9	34.2
90°	7.2	7.2	7.9	7.7	8.3	7.9	12.2	15.9	16.2	20.5	18.3
92.5°	6.5	6.9	7.9	7.9	8.8	7.5	11.0	13.6	13.7	16.7	14.1
95°	5.7	6.0	6.7	6.9	7.5	5.3	8.4	11.0	11.4	13.7	11.4
97.5°	4.9	5.3	5.7	6.0	6.7	4.9	6.9	9.0	9.2	10.6	8.8
100°	4.9	5.1	5.1	5.1	5.7	4.1	6.0	7.7	7.9	8.8	7.2
102.5°	4.6	4.9	4.6	4.3	4.9	3.7	5.3	6.5	6.5	6.3	6.0
105°	4.6	4.6	3.9	3.4	4.1	3.4	4.6	4.9	4.9	4.9	5.6
107.5°	4.3	4.3	3.7	3.1	3.4	3.0	3.9	4.1	4.1	4.3	5.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	4.1	3.9	3.1	2.6	2.6	2.6	3.1	3.4	3.4	3.9	5.6
112.5°	3.7	3.7	2.6	2.4	2.4	2.4	3.0	3.1	3.1	3.7	5.3
115°	3.4	3.4	2.6	2.2	2.2	2.2	2.6	3.0	3.0	3.4	5.3
117.5°	3.7	3.4	2.4	2.2	1.9	1.9	2.2	2.6	2.6	3.4	5.3
120°	3.1	3.1	2.4	1.9	1.6	1.9	2.2	2.4	2.6	3.7	5.3
122.5°	3.4	3.1	2.4	1.6	1.6	1.6	1.9	2.4	2.4	3.4	4.9
125°	3.1	3.0	2.2	1.6	1.4	1.6	1.9	2.2	2.4	3.4	4.9
127.5°	3.1	3.0	2.2	1.6	1.4	1.4	1.9	2.2	2.2	3.1	4.6
130°	3.0	3.0	1.9	1.4	1.4	1.4	1.6	1.9	1.9	3.0	4.1
132.5°	2.6	2.4	1.9	1.4	1.2	1.4	1.6	1.6	1.6	2.6	3.9
135°	2.4	2.4	1.9	1.4	1.2	1.2	1.4	1.6	1.6	2.4	3.4
137.5°	2.2	2.2	1.9	1.4	1.2	1.2	1.2	1.4	1.4	2.2	3.0
140°	2.2	2.2	1.9	1.4	1.2	1.2	1.2	1.2	1.2	1.6	2.4
142.5°	2.2	2.2	1.9	1.4	1.2	1.0	1.0	1.0	1.0	1.4	1.9
145°	1.9	1.9	1.6	1.4	1.0	0.7	0.7	1.0	1.0	1.2	1.4
147.5°	1.9	1.9	1.6	1.2	0.7	0.4	0.4	0.7	0.7	1.0	1.2
150°	1.4	1.4	1.4	1.0	0.4	0.0	0.4	0.4	0.4	1.0	1.0
152.5°	1.0	1.0	0.7	0.4	0.2	0.2	0.2	0.4	0.4	0.4	0.7
155°	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.2	0.2	0.4	0.4
157.5°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
162.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	5.6	5.3	5.3	5.3	5.6	5.6	5.6	5.3	5.1	5.1	5.1
5°	5.1	4.9	4.9	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
7.5°	5.6	5.1	5.1	4.9	4.9	5.1	5.6	8.3	14.3	20.0	23.4
10°	7.7	7.7	6.7	6.3	6.3	9.2	34.0	36.9	36.9	35.0	33.7
12.5°	70.0	55.2	48.8	17.2	14.1	28.4	32.6	30.6	42.5	49.4	52.5
15°	50.8	55.5	59.8	53.9	72.7	30.5	49.2	59.8	80.7	81.6	82.4
17.5°	85.2	91.9	66.4	57.9	67.8	90.1	73.7	76.3	76.3	76.3	76.5
20°	120.1	122.2	127.5	121.9	68.1	95.0	94.4	76.7	86.4	107.6	113.7
22.5°	127.5	131.8	125.6	121.7	143.9	88.7	97.6	122.2	123.5	117.8	120.7
25°	216.3	210.1	184.4	129.8	143.6	123.8	126.0	114.4	117.6	114.3	116.4
27.5°	214.7	211.2	190.7	187.3	150.8	146.6	117.0	132.1	140.2	145.5	144.5
30°	299.9	280.0	221.0	193.3	178.1	140.2	128.6	125.0	124.1	130.3	130.9
32.5°	301.3	298.3	254.5	250.1	183.3	141.9	121.5	114.3	130.3	139.1	137.6
35°	349.6	334.6	291.0	269.9	210.6	133.5	108.4	114.3	116.9	123.2	122.9
37.5°	392.7	388.2	352.4	298.1	202.7	121.7	122.3	121.7	118.5	119.6	119.6
40°	450.3	424.9	393.1	324.5	189.7	130.3	132.1	115.0	111.7	110.1	110.1
42.5°	518.6	475.7	446.2	337.3	180.4	153.6	125.0	112.3	109.1	104.4	103.6
45°	599.3	545.9	501.8	341.4	151.4	159.1	129.8	127.6	117.4	112.9	111.3
47.5°	670.0	626.9	565.8	348.2	175.4	151.9	170.9	145.0	113.2	119.6	118.5
50°	776.2	720.9	610.6	331.0	187.6	147.5	177.7	127.0	116.6	125.0	124.5
52.5°	870.2	817.5	657.6	305.2	177.4	204.1	157.7	145.5	135.3	130.9	130.3
55°	968.5	915.7	689.5	292.0	175.3	163.2	163.9	157.7	122.2	131.6	131.3
57.5°	1081.4	1052.5	758.9	286.6	179.7	144.2	163.9	131.8	139.2	131.6	132.9
60°	1141.7	1141.7	799.1	281.0	165.8	148.0	140.8	144.8	120.9	122.3	126.3
62°	1192.5	1206.0	836.1	266.3	165.4	124.1	138.3	128.0	118.2	125.6	130.3
62.5°	1209.6	1220.0	847.2	263.5	169.5	117.6	128.2	127.6	122.7	123.5	128.0
65°	1226.2	1274.2	873.7	245.1	155.9	111.1	109.7	121.2	106.2	101.7	101.9
67.5°	1210.3	1276.5	864.8	197.3	126.5	95.4	96.7	101.1	95.8	94.1	95.1
70°	1152.2	1178.9	773.8	162.8	109.1	87.3	93.0	89.3	87.9	87.7	87.3
72.5°	1072.4	1021.6	607.8	122.3	94.0	75.7	79.7	82.4	82.9	81.6	80.2
75°	904.7	802.2	396.4	91.7	75.1	64.1	72.7	74.9	76.7	73.4	72.3
77.5°	621.0	505.8	205.3	72.9	64.9	53.9	63.7	67.2	69.1	64.0	64.7
80°	288.3	230.9	95.0	59.6	53.9	44.6	54.1	58.4	61.1	54.3	51.9
82.5°	97.2	88.8	57.2	46.2	44.1	34.0	43.7	48.8	49.4	45.2	38.4
85°	57.9	58.2	40.1	35.6	32.6	21.2	31.4	38.4	38.4	31.9	26.1
87.5°	33.2	37.4	30.6	27.0	24.3	14.6	23.4	26.3	25.8	20.3	14.6
90°	16.7	19.6	18.1	17.8	18.3	9.2	18.3	19.9	19.9	14.1	9.0
92.5°	12.2	15.0	16.2	15.2	15.5	6.9	14.7	15.0	14.7	10.9	6.9
95°	10.4	13.0	16.2	15.2	14.7	5.7	13.6	13.7	14.1	10.6	7.7
97.5°	8.3	9.9	12.5	12.2	13.2	4.9	12.2	12.2	11.9	8.8	6.5
100°	7.5	8.8	10.6	10.6	11.6	4.3	10.9	9.9	9.4	6.9	6.0
102.5°	6.3	6.9	8.3	7.9	8.8	4.1	7.9	7.7	7.2	6.0	5.7
105°	6.0	6.3	6.3	5.7	6.0	3.9	5.6	5.3	5.1	5.1	5.3
107.5°	5.7	5.7	5.3	4.9	4.9	3.7	4.1	3.9	4.1	5.3	5.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.7	5.7	4.9	4.3	3.9	3.4	3.7	3.1	3.7	5.3	5.7
112.5°	5.7	5.7	4.3	3.7	3.7	3.1	3.1	3.0	3.4	5.3	5.7
115°	5.6	5.6	4.1	3.4	3.1	3.0	3.0	2.6	3.4	5.3	5.7
117.5°	5.6	5.6	4.1	3.4	3.0	2.6	2.6	2.4	3.4	5.6	5.7
120°	5.6	5.6	4.1	3.1	3.0	2.6	2.4	2.4	3.4	5.3	5.7
122.5°	5.3	5.1	3.9	3.0	2.6	2.4	2.4	2.4	3.4	5.6	5.7
125°	5.1	4.9	3.9	3.0	2.4	2.4	2.2	2.2	3.4	5.3	5.6
127.5°	4.9	4.9	3.7	2.6	2.4	2.2	2.2	2.2	3.4	5.6	5.6
130°	4.6	4.3	3.4	2.4	2.2	1.9	1.9	2.2	3.7	5.1	5.3
132.5°	4.1	3.9	3.1	2.2	1.9	1.9	1.9	1.9	3.4	5.1	5.1
135°	3.4	3.4	2.6	1.9	1.6	1.6	1.6	1.9	3.1	4.3	4.6
137.5°	3.1	3.0	2.4	1.9	1.4	1.6	1.6	1.9	3.1	4.1	4.3
140°	2.6	2.4	1.9	1.4	1.4	1.4	1.4	1.6	2.6	3.7	3.9
142.5°	1.9	1.9	1.6	1.2	1.2	1.2	1.2	1.6	2.4	3.1	3.1
145°	1.6	1.6	1.4	1.2	1.0	0.7	0.7	1.2	1.9	2.6	2.6
147.5°	1.2	1.2	1.2	1.0	0.7	0.7	0.7	1.0	1.4	1.9	1.9
150°	1.0	1.0	1.0	0.7	0.7	0.4	0.4	0.7	1.2	1.4	1.4
152.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.7	1.0	1.0
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.4
157.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0
162.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	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)