

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: P241063

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-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

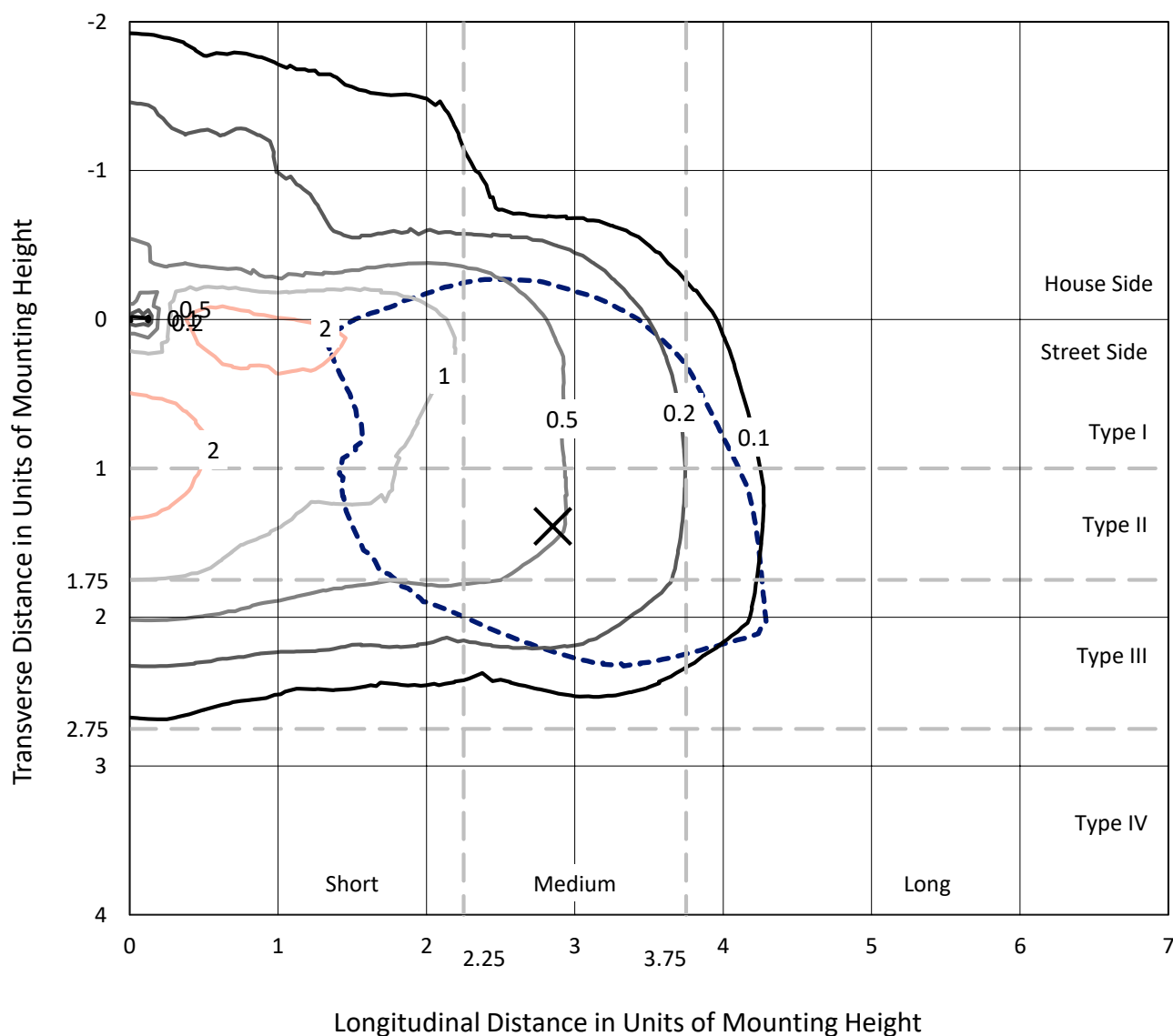


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

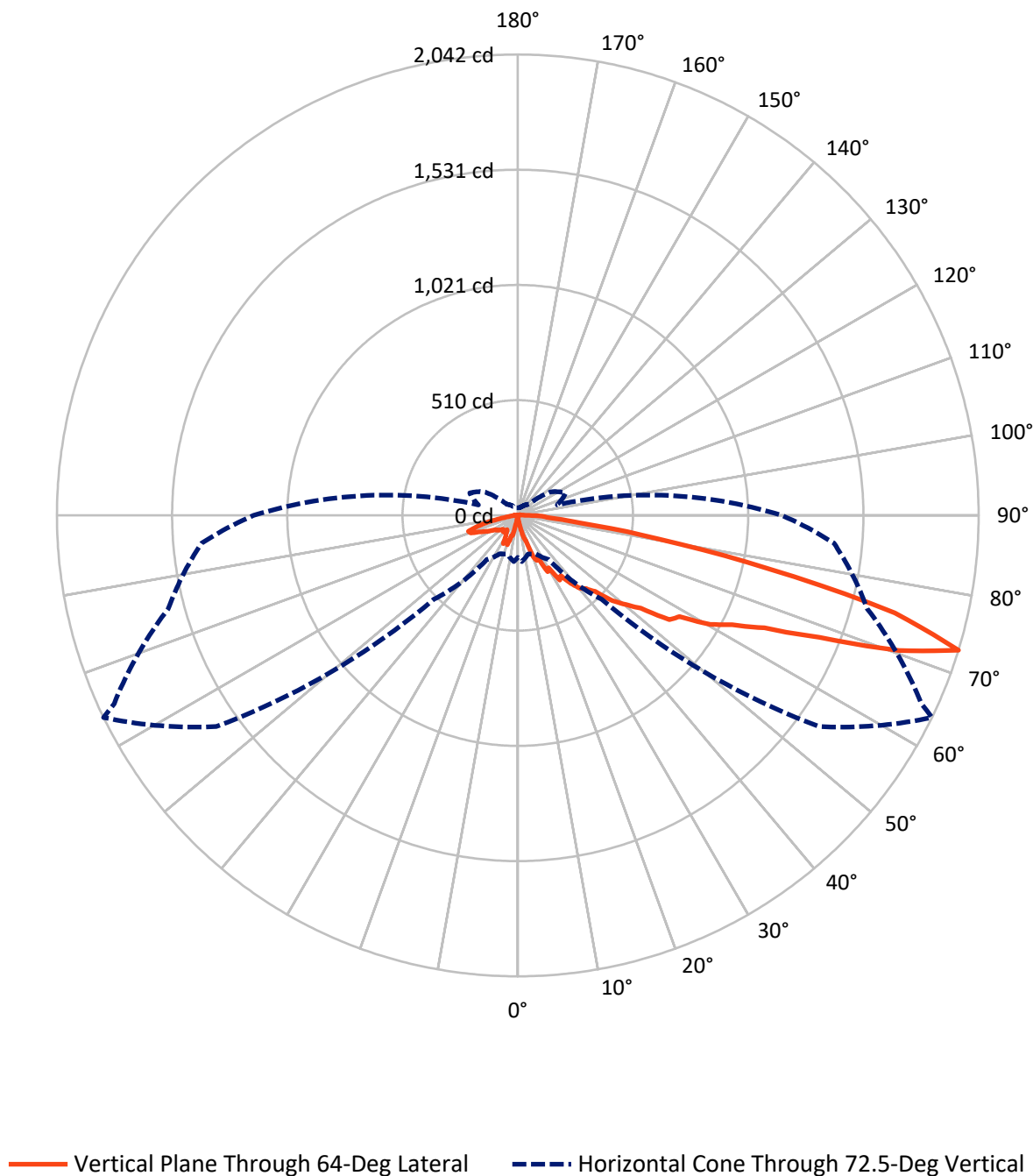


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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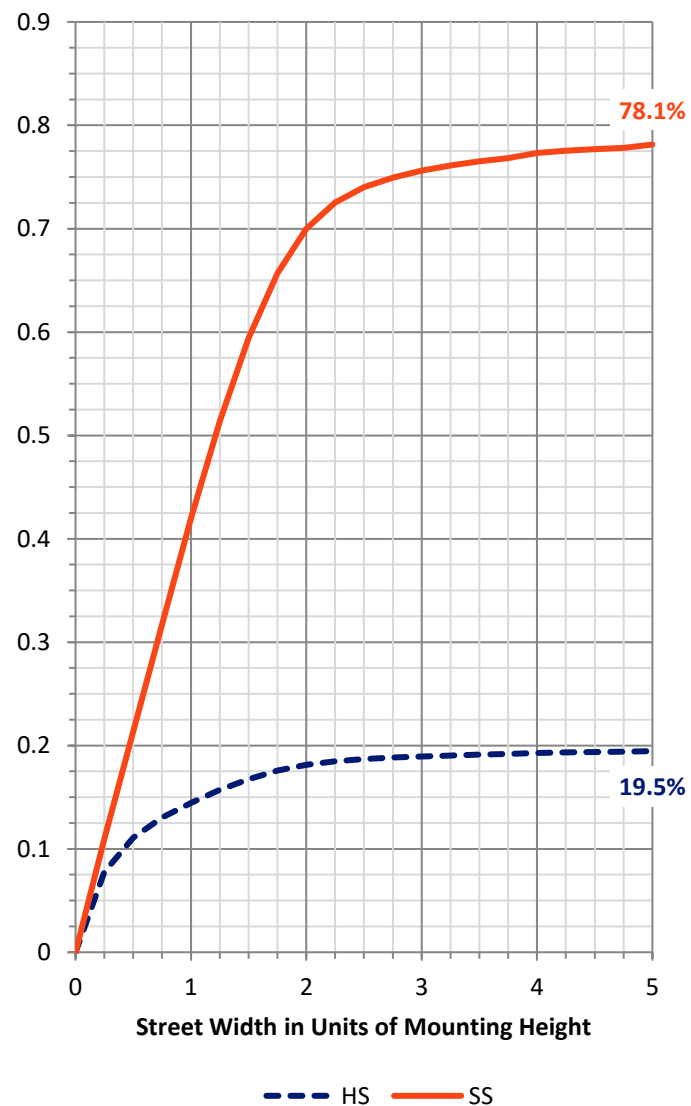
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.2	13.1	433.3
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	1676.0	13.5	1689.5
	% Fixture	79.0	0.6	79.6
Total	Lumens	2096.3	26.6	2122.8
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	28.3	1.3
20°-30°	83.4	3.9
30°-40°	165.4	7.8
40°-50°	285.5	13.4
50°-60°	461.5	21.7
60°-70°	584.8	27.5
70°-80°	419.0	19.7
80°-90°	65.7	3.1
90°-100°	13.2	0.6
100°-110°	5.9	0.3
110°-120°	3.0	0.1
120°-130°	2.2	0.1
130°-140°	1.4	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2096.3	98.7
0°-180°	2122.8	100.0

Coefficient of Utilization



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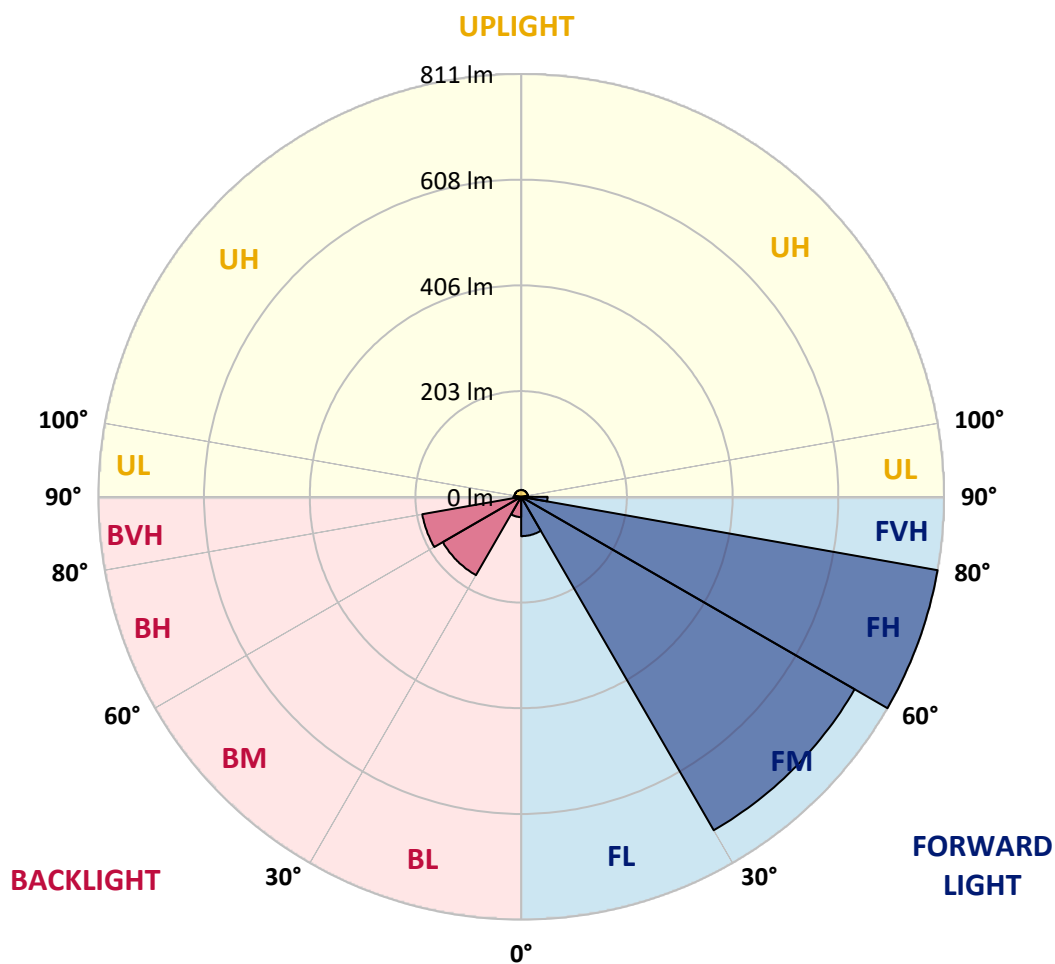
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.5	3.6			
FM	(30°-60°)	738.7	34.8			
FH	(60°-80°)	811.3	38.2			G1/1800
FVH	(80°-90°)	50.6	2.4			G1/100
BL	(0°-30°)	38.9	1.8	B0/110		
BM	(30°-60°)	173.6	8.2	B0/220		
BH	(60°-80°)	192.6	9.1	B1/500		G1/500
BVH	(80°-90°)	15.1	0.7			G1/100
UL	(90°-100°)	13.2	0.6		U2/50	
UH	(100°-180°)	13.1	0.6		U2/50	

BUG Rating: B1-U2-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	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°	14.7	13.2	13.6	12.1	10.2	8.3	7.0	6.2	6.2	5.9	5.4
5°	51.4	52.5	58.9	49.5	44.9	58.6	16.4	9.4	8.8	6.2	5.1
7.5°	68.5	71.8	51.4	42.7	40.1	64.5	48.1	26.3	21.8	8.0	5.7
10°	129.8	121.0	81.7	89.3	83.0	53.0	35.2	36.0	33.1	13.2	9.2
12.5°	116.2	117.5	120.1	109.2	112.3	83.4	42.7	70.2	75.0	84.3	79.3
15°	135.5	129.8	109.2	118.8	113.2	131.6	110.8	103.2	113.4	116.7	97.0
17.5°	183.9	179.8	208.9	142.5	103.5	148.1	131.6	120.7	114.7	128.0	154.6
20°	169.1	169.4	181.5	161.0	167.1	136.2	132.5	194.9	233.9	221.8	215.6
22.5°	254.6	246.7	205.1	159.9	176.6	156.1	186.3	217.4	206.4	201.4	217.4
25°	247.3	250.2	237.8	240.3	176.9	208.9	194.1	207.5	220.7	316.7	356.9
27.5°	304.0	287.4	273.0	248.9	243.5	196.4	187.6	282.0	289.5	317.4	334.7
30°	400.0	391.5	365.6	284.1	254.2	211.3	256.6	269.9	274.7	373.6	462.2
32.5°	507.7	477.1	401.8	371.7	276.5	260.7	241.7	341.3	335.8	414.2	467.2
35°	587.0	568.8	497.7	404.3	332.4	278.7	325.3	328.3	356.9	433.5	471.5
37.5°	570.4	575.5	546.2	482.5	365.8	301.3	351.9	382.2	384.9	469.6	499.7
40°	613.6	616.9	606.7	535.5	422.0	346.8	395.4	423.9	401.3	513.9	534.1
42.5°	638.9	644.0	663.6	612.3	476.1	396.5	463.7	443.5	423.6	552.1	607.5
45°	694.1	691.3	700.0	638.9	556.1	498.9	486.7	480.6	488.2	620.6	678.2
47.5°	771.0	781.6	739.1	651.8	616.3	524.1	551.5	563.3	591.8	709.3	749.9
50°	884.6	870.9	820.1	709.1	675.8	557.4	675.8	621.4	606.7	790.3	857.1
52.5°	930.8	921.9	849.9	733.2	712.8	620.6	696.7	683.0	677.9	902.1	976.6
55°	949.1	942.7	912.9	737.6	746.5	715.0	799.1	815.0	806.4	973.1	1097.0
57.5°	900.8	911.4	913.6	755.1	769.3	726.0	960.2	845.3	906.9	1062.0	1190.5
60°	835.2	835.8	864.1	752.9	790.5	796.4	995.1	979.5	1037.0	1109.1	1216.3
62.5°	673.0	692.1	739.1	737.8	820.1	887.8	1166.8	1066.3	1088.9	1156.8	1297.2
65°	446.5	456.7	513.6	611.8	767.4	960.7	1308.0	1201.2	1233.2	1248.0	1414.9
67.5°	266.4	279.0	287.1	390.8	640.8	975.1	1600.6	1440.7	1411.7	1385.9	1532.9
70°	222.6	230.9	207.5	233.9	391.5	885.4	1741.8	1791.2	1696.9	1572.5	1557.9
72.5°	186.5	204.9	176.9	187.1	238.4	525.5	1630.4	2041.5	1972.9	1603.6	1405.5
75°	138.4	164.0	147.3	168.0	220.1	269.9	1230.3	1725.1	1703.6	1389.9	1043.2
77.5°	108.0	112.6	92.3	126.8	211.5	223.1	738.1	1137.3	1118.7	886.2	483.8
80°	75.8	77.7	72.8	66.1	163.5	209.1	373.8	630.5	591.3	275.3	160.7
82.5°	47.8	51.1	57.1	44.9	79.3	195.1	206.2	277.6	247.3	93.5	79.9
85°	28.7	31.4	35.2	31.4	37.0	149.1	159.6	142.7	130.3	57.1	50.6
87.5°	16.7	17.5	21.2	21.8	27.7	86.9	127.4	106.2	93.3	37.9	32.8
90°	11.6	10.7	10.7	11.3	14.2	37.9	62.4	37.0	37.3	19.8	17.2
92.5°	8.8	8.8	9.8	9.8	13.6	33.4	28.7	19.8	18.8	16.7	13.6
95°	6.8	7.2	7.2	7.7	9.4	10.2	14.2	14.7	14.7	15.1	12.1
97.5°	5.7	6.2	6.2	6.4	7.5	7.7	10.0	12.9	12.9	12.7	10.0
100°	5.4	5.7	5.4	5.4	6.2	5.9	8.0	11.0	11.6	11.0	8.6
102.5°	5.1	5.4	4.8	4.3	5.4	4.3	6.8	10.0	10.2	8.0	6.8
105°	5.1	5.1	4.3	3.5	4.3	3.5	5.7	7.0	7.0	5.7	6.4
107.5°	5.1	4.8	3.8	2.9	3.3	2.9	4.6	4.6	4.6	4.3	6.2
110°	4.6	4.3	3.5	2.7	2.4	2.4	3.3	3.3	3.3	3.8	6.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	4.1	3.8	2.9	2.1	1.8	1.8	2.1	2.4	2.4	3.5	5.9
115°	3.5	3.5	2.7	2.1	1.6	1.6	1.8	2.1	2.1	3.3	5.7
117.5°	3.5	3.5	2.4	1.8	1.3	1.3	1.6	1.8	1.8	3.3	5.9
120°	3.5	3.5	2.4	1.6	1.3	1.1	1.3	1.6	1.6	3.5	6.2
122.5°	3.3	3.3	2.4	1.6	1.1	1.1	1.1	1.6	1.6	3.3	5.7
125°	3.3	3.3	2.1	1.6	1.1	1.1	1.1	1.3	1.6	3.5	5.7
127.5°	2.9	2.9	2.4	1.6	1.1	0.8	1.1	1.3	1.3	3.3	5.4
130°	2.9	2.9	2.1	1.3	0.8	0.8	0.8	1.1	1.3	2.9	4.8
132.5°	2.7	2.7	1.8	1.3	0.8	0.5	0.8	1.1	1.1	2.7	4.3
135°	2.7	2.7	2.1	1.3	0.8	0.5	0.8	1.1	1.1	2.4	3.8
137.5°	2.4	2.4	1.8	1.3	0.8	0.5	0.5	0.8	1.1	2.4	3.5
140°	2.4	2.4	2.1	1.6	0.8	0.5	0.5	0.8	0.8	1.8	2.7
142.5°	2.7	2.7	2.1	1.3	0.8	0.5	0.5	0.5	0.8	1.3	2.1
145°	2.4	2.4	1.8	1.3	0.8	0.2	0.2	0.5	0.8	1.3	1.8
147.5°	2.4	2.4	2.1	1.3	0.5	0.2	0.2	0.5	0.5	1.1	1.6
150°	2.1	2.1	1.6	0.8	0.2	0.0	0.2	0.5	0.5	0.8	1.3
152.5°	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.2	0.2	0.5	0.8
155°	0.8	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
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°	0.0	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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	5.4	5.4	5.4	5.4	5.1	5.1	4.8	4.8	4.8	4.8	4.8
5°	5.1	5.1	5.1	4.8	4.6	4.3	4.6	4.3	4.3	4.3	4.3
7.5°	5.4	5.4	4.8	4.6	4.6	4.6	5.9	35.7	79.0	67.7	70.5
10°	10.0	9.4	8.0	6.8	6.2	35.5	67.7	62.1	47.3	39.6	40.5
12.5°	98.7	88.7	57.3	39.8	45.7	47.1	42.5	46.6	75.8	69.4	69.6
15°	98.7	101.1	82.8	93.3	80.7	37.5	72.5	86.6	84.1	77.5	81.2
17.5°	166.6	165.5	103.2	94.8	77.9	78.7	68.3	59.4	55.0	54.3	55.0
20°	247.0	205.9	196.7	143.2	87.6	80.5	56.5	47.8	60.9	75.3	77.1
22.5°	217.4	217.4	176.6	128.0	108.2	68.9	61.5	60.9	73.1	72.3	75.8
25°	367.2	319.0	228.8	123.4	94.6	69.9	62.4	56.7	63.7	73.4	72.5
27.5°	338.7	314.2	226.0	148.4	74.2	76.1	57.5	55.9	71.8	77.1	77.7
30°	427.4	393.8	228.5	111.6	74.8	58.6	53.2	57.1	60.0	65.0	65.5
32.5°	442.7	400.8	219.3	100.5	78.7	56.5	54.0	53.7	60.9	70.2	70.9
35°	433.3	384.6	206.7	84.6	79.0	57.1	55.4	61.3	55.9	65.3	66.6
37.5°	497.7	392.7	186.5	79.0	72.5	58.6	72.5	58.6	58.4	61.3	61.8
40°	497.0	410.7	163.7	96.4	72.5	96.4	75.8	60.9	52.5	57.5	57.8
42.5°	537.0	420.9	143.5	99.4	78.2	111.8	70.7	59.4	62.4	65.5	68.9
45°	583.2	453.2	134.4	89.5	88.2	86.6	73.6	77.5	56.5	90.5	94.4
47.5°	646.5	494.6	122.1	87.6	119.6	87.1	140.3	72.0	62.1	107.3	109.4
50°	740.8	567.4	123.1	96.2	109.7	93.3	94.4	78.2	83.9	111.6	112.1
52.5°	841.3	628.5	115.9	106.2	107.8	114.5	100.5	116.9	82.5	107.3	107.3
55°	930.4	718.5	119.3	111.8	112.6	99.8	141.6	86.4	82.3	107.8	110.5
57.5°	1046.3	814.7	143.2	116.9	115.6	106.4	109.4	107.0	96.8	109.7	111.2
60°	1108.0	884.9	179.5	131.4	121.0	122.8	129.6	102.9	87.9	128.2	133.3
62.5°	1205.5	985.9	227.4	148.9	153.5	125.7	110.5	112.1	93.5	102.1	103.2
65°	1318.1	1091.1	251.1	166.1	165.3	139.8	125.2	87.1	60.7	56.2	55.9
67.5°	1402.8	1131.6	229.8	185.7	206.2	134.2	86.0	61.8	46.8	44.0	44.9
70°	1348.3	1038.8	196.7	222.8	208.5	104.1	74.2	49.1	40.1	37.5	39.0
72.5°	1169.7	839.4	180.6	235.2	183.0	70.2	55.4	43.2	36.0	33.7	34.1
75°	826.8	539.4	185.4	199.2	130.1	50.8	47.8	36.0	32.0	28.7	28.7
77.5°	363.2	231.2	145.5	143.5	83.4	40.3	40.5	29.8	27.7	24.7	24.7
80°	146.2	122.3	85.4	83.0	55.6	31.6	32.2	24.7	25.0	21.0	19.6
82.5°	77.5	69.9	47.5	44.6	39.8	24.5	22.8	21.2	21.0	17.2	15.1
85°	50.8	46.0	31.1	29.1	29.6	18.0	19.1	20.2	18.6	14.2	10.0
87.5°	31.4	31.1	22.1	21.0	22.1	12.9	15.7	16.4	15.7	10.7	6.4
90°	14.7	16.2	14.7	14.5	14.5	6.2	12.1	12.9	12.7	8.6	5.1
92.5°	11.6	13.2	13.6	13.9	13.9	6.4	12.7	13.4	12.9	8.8	5.7
95°	10.0	11.6	13.4	13.4	13.2	5.1	11.8	13.2	12.3	8.3	5.4
97.5°	8.3	9.8	11.6	11.6	12.7	4.3	11.0	12.7	12.3	8.8	5.7
100°	7.7	9.2	10.2	10.5	11.6	4.1	10.0	11.3	11.0	7.2	5.9
102.5°	7.2	7.7	8.0	8.3	8.6	3.8	7.7	8.6	8.3	5.4	5.4
105°	6.8	6.8	5.9	5.7	5.7	3.5	4.8	5.9	4.8	4.3	4.8
107.5°	6.8	6.4	4.8	4.3	4.3	3.3	3.8	3.8	3.3	4.3	4.6
110°	6.8	6.2	4.3	3.8	3.5	2.9	2.9	2.7	2.7	4.3	4.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	6.4	5.9	3.8	3.3	3.3	2.7	2.4	2.1	2.4	4.3	4.8
115°	6.2	5.7	3.5	3.3	2.9	2.4	2.1	1.6	2.4	4.6	5.1
117.5°	6.2	5.7	3.5	2.9	2.7	2.1	1.8	1.6	2.4	4.6	5.1
120°	6.4	5.7	3.5	2.7	2.4	1.8	1.6	1.6	2.4	4.6	5.1
122.5°	6.2	5.4	3.3	2.4	2.1	1.8	1.6	1.6	2.4	4.6	4.8
125°	5.9	5.4	3.3	2.1	1.8	1.6	1.3	1.3	2.7	4.6	4.8
127.5°	5.7	5.1	2.9	1.8	1.6	1.6	1.3	1.3	2.7	4.3	4.6
130°	5.1	4.6	2.9	1.8	1.3	1.3	1.1	1.1	2.7	4.3	4.6
132.5°	4.6	4.3	2.7	1.6	1.1	1.1	1.1	1.1	2.4	3.8	4.1
135°	4.1	3.5	2.4	1.3	1.1	0.8	0.8	0.8	2.1	3.3	3.5
137.5°	3.5	3.3	2.1	1.3	0.8	0.8	0.5	0.5	1.8	2.9	3.3
140°	2.9	2.7	1.8	1.1	0.8	0.8	0.5	0.5	1.3	2.1	2.4
142.5°	2.1	2.1	1.6	1.1	0.8	0.5	0.5	0.5	1.3	1.8	2.1
145°	1.8	1.8	1.6	1.1	0.8	0.5	0.2	0.2	0.8	1.3	1.3
147.5°	1.6	1.6	1.3	1.1	0.5	0.2	0.2	0.2	0.5	0.8	0.8
150°	1.3	1.3	1.1	0.8	0.5	0.2	0.0	0.0	0.2	0.5	0.5
152.5°	0.8	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	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)