

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: P241072

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241072
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2245.4 lumens
Efficiency: N/A
Efficacy: 106.9 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

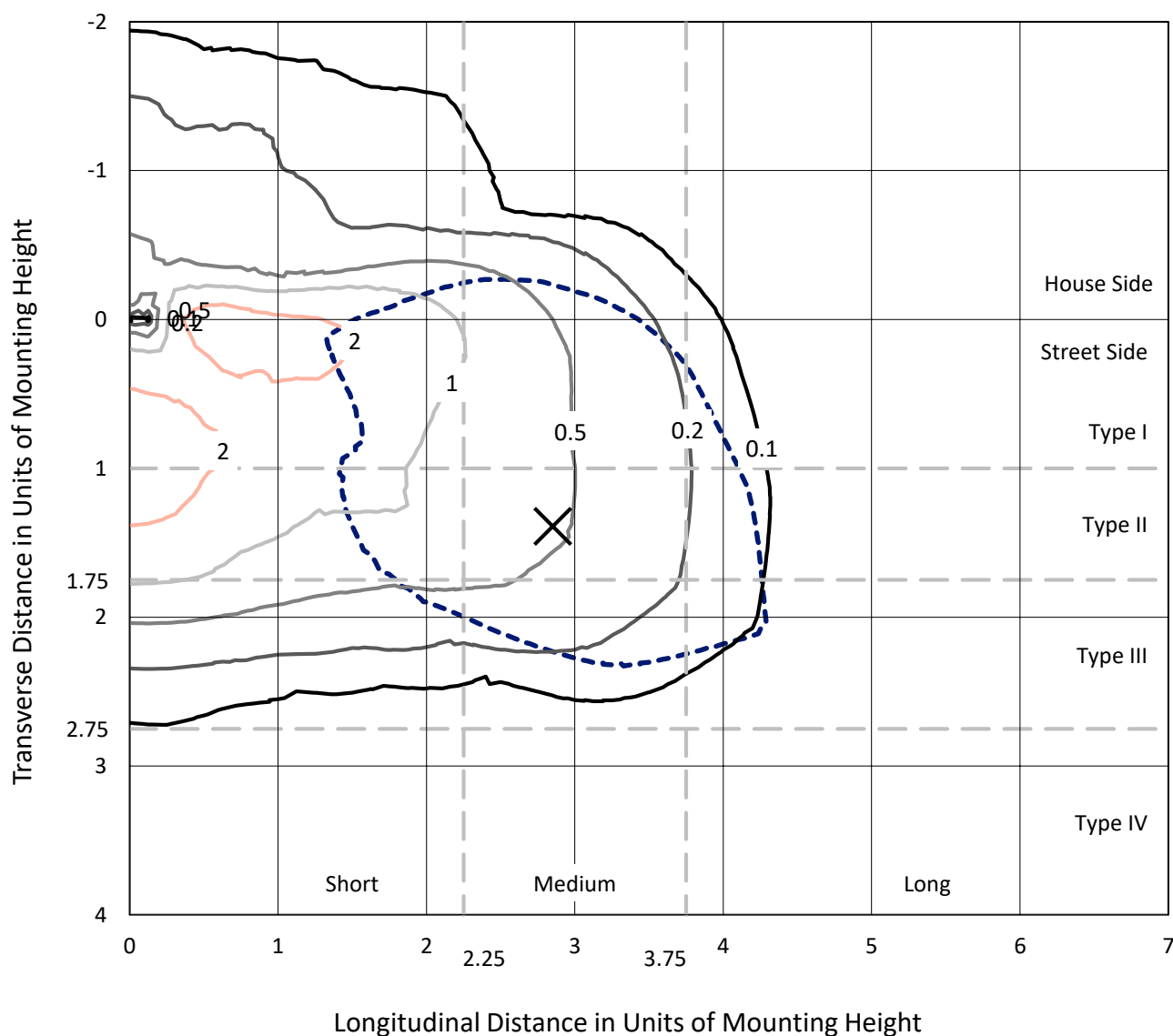


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

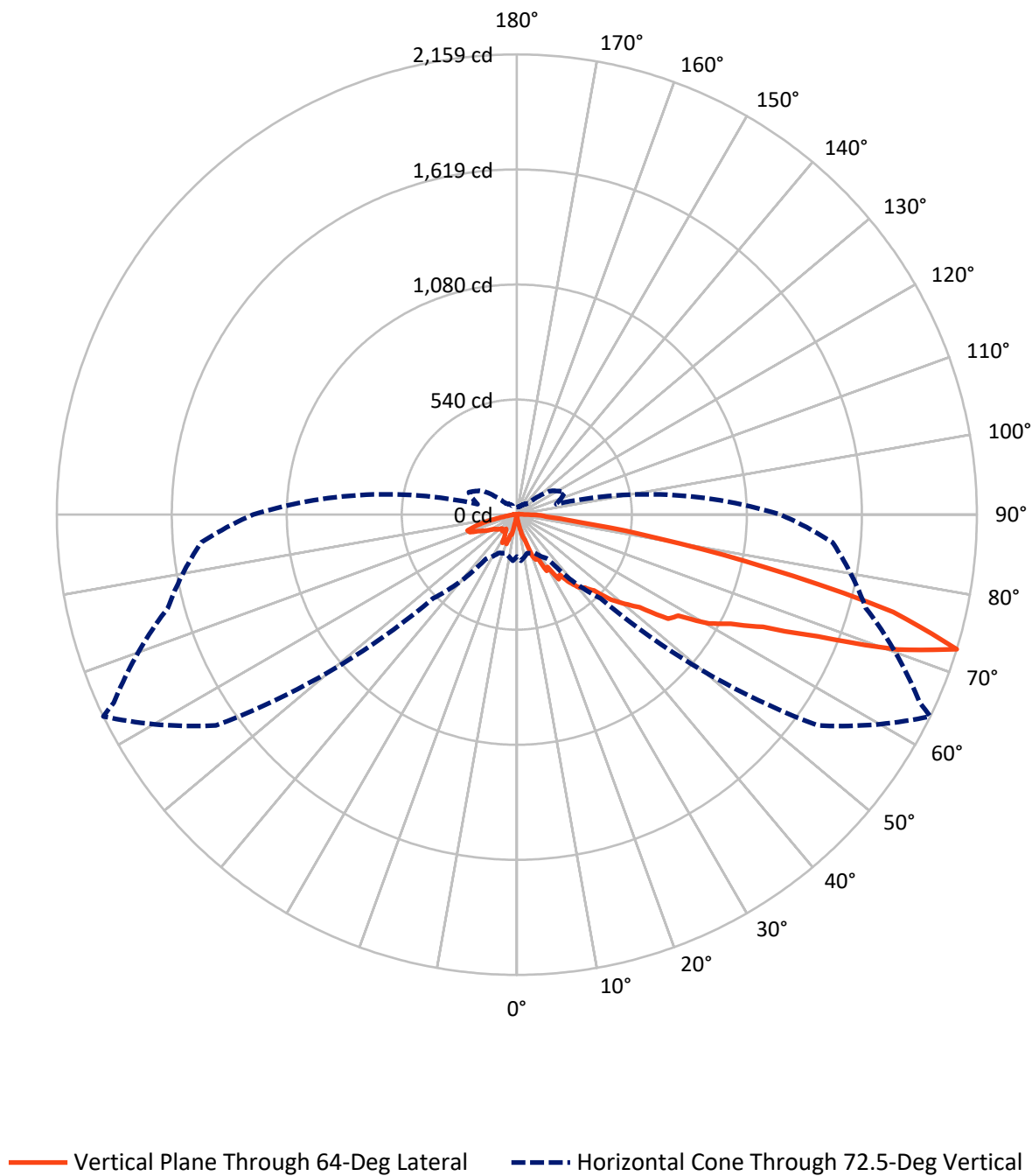


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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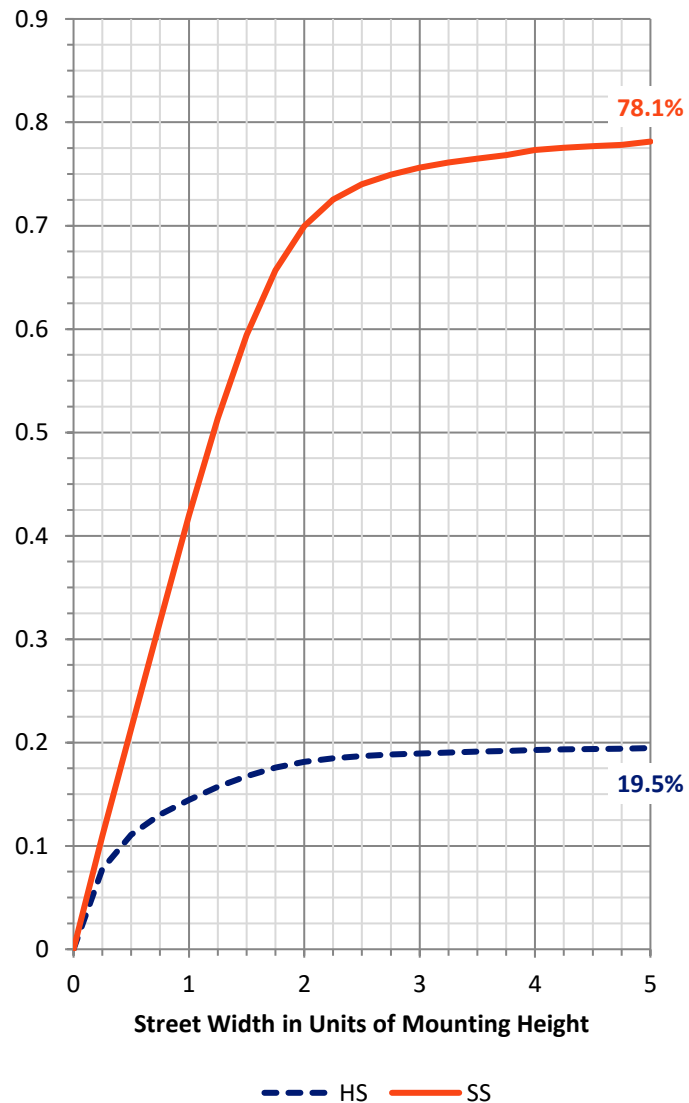
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.5	13.8	458.3
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	1772.8	14.3	1787.0
	% Fixture	79.0	0.6	79.6
Total	Lumens	2217.2	28.1	2245.4
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	30.0	1.3
20°-30°	88.2	3.9
30°-40°	175.0	7.8
40°-50°	301.9	13.4
50°-60°	488.1	21.7
60°-70°	618.6	27.5
70°-80°	443.2	19.7
80°-90°	69.5	3.1
90°-100°	14.0	0.6
100°-110°	6.2	0.3
110°-120°	3.2	0.1
120°-130°	2.4	0.1
130°-140°	1.5	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°	2217.2	98.7
0°-180°	2245.4	100.0

Coefficient of Utilization



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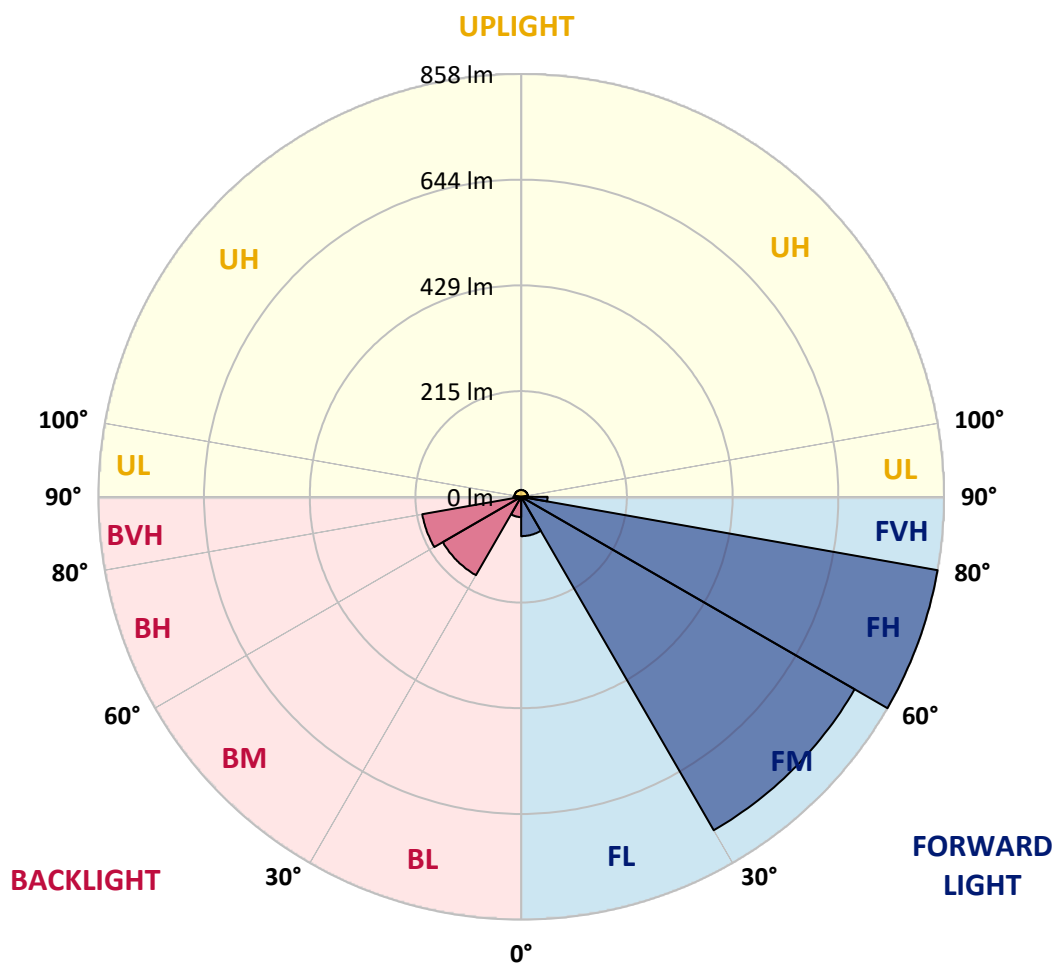
CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.8	3.6			
FM	(30°-60°)	781.4	34.8			
FH	(60°-80°)	858.1	38.2			G1/1800
FVH	(80°-90°)	53.5	2.4			G1/100
BL	(0°-30°)	41.1	1.8	B0/110		
BM	(30°-60°)	183.6	8.2	B0/220		
BH	(60°-80°)	203.7	9.1	B1/500		G1/500
BVH	(80°-90°)	16.0	0.7			G1/100
UL	(90°-100°)	14.0	0.6		U2/50	
UH	(100°-180°)	13.8	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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	15.7	13.9	14.5	12.8	10.8	8.8	7.4	6.5	6.5	6.2	5.7
5°	54.3	55.4	62.3	52.3	47.5	62.0	17.4	9.9	9.4	6.5	5.4
7.5°	72.5	75.9	54.3	45.2	42.4	68.2	50.8	27.8	23.0	8.5	5.9
10°	137.3	128.0	86.4	94.4	87.9	56.1	37.2	38.1	35.0	13.9	9.6
12.5°	122.9	124.3	127.1	115.4	118.9	88.2	45.2	74.2	79.3	89.3	83.9
15°	143.3	137.3	115.4	125.6	119.7	139.3	117.1	109.1	120.0	123.4	102.6
17.5°	194.5	190.2	220.9	150.7	109.5	156.6	139.3	127.7	121.4	135.3	163.5
20°	178.8	179.1	191.9	170.3	176.9	144.1	140.1	206.1	247.3	234.6	228.0
22.5°	269.2	261.0	217.0	169.2	186.8	165.2	197.0	230.0	218.3	213.0	230.0
25°	261.6	264.6	251.6	254.2	187.1	220.9	205.3	219.5	233.4	334.9	377.6
27.5°	321.5	303.9	288.9	263.3	257.6	207.9	198.5	298.2	306.2	335.7	353.9
30°	423.0	414.2	386.7	300.5	268.9	223.4	271.5	285.4	290.5	395.2	489.0
32.5°	537.0	504.6	425.0	393.2	292.6	275.8	255.6	361.1	355.1	438.1	494.1
35°	620.9	601.6	526.5	427.6	351.7	294.8	344.0	347.1	377.6	458.6	498.7
37.5°	603.2	608.7	577.7	510.4	386.9	318.6	372.1	404.3	407.1	496.6	528.6
40°	649.1	652.4	641.7	566.3	446.3	366.7	418.2	448.4	424.4	543.6	564.9
42.5°	675.8	681.2	701.9	647.6	503.5	419.3	490.4	469.1	448.1	583.9	642.5
45°	734.1	731.2	740.3	675.8	588.2	527.6	514.9	508.3	516.3	656.4	717.3
47.5°	815.4	826.7	781.8	689.5	651.9	554.3	583.4	595.9	626.0	750.2	793.2
50°	935.6	921.2	867.4	750.0	714.7	589.6	714.7	657.3	641.7	835.9	906.6
52.5°	984.5	975.2	899.0	775.6	753.9	656.4	736.9	722.4	717.0	954.1	1032.9
55°	1003.8	997.1	965.5	780.1	789.5	756.3	845.3	862.0	852.9	1029.2	1160.2
57.5°	952.7	964.0	966.4	798.6	813.7	767.9	1015.5	894.2	959.2	1123.3	1259.2
60°	883.3	883.9	914.0	796.4	836.2	842.4	1052.5	1035.9	1096.8	1173.0	1286.5
62.5°	711.9	732.0	781.8	780.4	867.4	939.1	1234.2	1127.8	1151.7	1223.7	1372.0
65°	472.2	483.0	543.3	647.0	811.7	1016.1	1383.4	1270.5	1304.4	1320.0	1496.6
67.5°	281.7	295.1	303.6	413.4	677.8	1031.4	1693.0	1523.9	1493.1	1465.9	1621.4
70°	235.4	244.2	219.5	247.3	414.2	936.5	1842.2	1894.6	1794.8	1663.1	1647.8
72.5°	197.3	216.7	187.1	197.8	252.2	555.8	1724.6	2159.2	2086.7	1696.2	1486.6
75°	146.4	173.4	155.8	177.7	232.8	285.4	1301.2	1824.6	1801.9	1470.1	1103.4
77.5°	114.3	119.1	97.5	134.2	223.7	236.0	780.7	1202.9	1183.2	937.3	511.8
80°	80.2	82.1	77.0	70.0	172.9	221.2	395.5	667.0	625.4	291.1	170.0
82.5°	50.6	54.0	60.3	47.5	83.9	206.4	218.1	293.7	261.6	98.9	84.4
85°	30.4	33.2	37.2	33.2	39.3	157.7	168.9	151.0	137.9	60.3	53.4
87.5°	17.6	18.5	22.5	23.0	29.3	91.9	134.7	112.3	98.6	40.1	34.7
90°	12.3	11.4	11.4	12.0	15.0	40.1	66.0	39.3	39.5	21.1	18.2
92.5°	9.4	9.4	10.2	10.2	14.5	35.3	30.4	21.1	19.9	17.6	14.5
95°	7.1	7.7	7.7	8.3	9.9	10.8	15.0	15.7	15.7	16.0	12.8
97.5°	5.9	6.5	6.5	6.9	8.0	8.3	10.5	13.6	13.6	13.4	10.5
100°	5.7	5.9	5.7	5.7	6.5	6.2	8.5	11.7	12.3	11.7	9.1
102.5°	5.4	5.7	5.1	4.5	5.7	4.5	7.1	10.5	10.8	8.5	7.1
105°	5.4	5.4	4.5	3.7	4.5	3.7	5.9	7.4	7.4	5.9	6.9
107.5°	5.4	5.1	4.0	3.2	3.4	3.2	4.8	4.8	4.8	4.5	6.5
110°	4.8	4.5	3.7	2.9	2.6	2.6	3.4	3.4	3.4	4.0	6.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	4.3	4.0	3.2	2.3	1.9	1.9	2.3	2.6	2.6	3.7	6.2
115°	3.7	3.7	2.9	2.3	1.7	1.7	1.9	2.3	2.3	3.4	5.9
117.5°	3.7	3.7	2.6	1.9	1.4	1.4	1.7	1.9	1.9	3.4	6.2
120°	3.7	3.7	2.6	1.7	1.4	1.1	1.4	1.7	1.7	3.7	6.5
122.5°	3.4	3.4	2.6	1.7	1.1	1.1	1.1	1.7	1.7	3.4	5.9
125°	3.4	3.4	2.3	1.7	1.1	1.1	1.1	1.4	1.7	3.7	5.9
127.5°	3.2	3.2	2.6	1.7	1.1	0.8	1.1	1.4	1.4	3.4	5.7
130°	3.2	3.2	2.3	1.4	0.8	0.8	0.8	1.1	1.4	3.2	5.1
132.5°	2.9	2.9	1.9	1.4	0.8	0.6	0.8	1.1	1.1	2.9	4.5
135°	2.9	2.9	2.3	1.4	0.8	0.6	0.8	1.1	1.1	2.6	4.0
137.5°	2.6	2.6	1.9	1.4	0.8	0.6	0.6	0.8	1.1	2.6	3.7
140°	2.6	2.6	2.3	1.7	0.8	0.6	0.6	0.8	0.8	1.9	2.9
142.5°	2.9	2.9	2.3	1.4	0.8	0.6	0.6	0.6	0.8	1.4	2.3
145°	2.6	2.6	1.9	1.4	0.8	0.3	0.3	0.6	0.8	1.4	1.9
147.5°	2.6	2.6	2.3	1.4	0.6	0.3	0.3	0.6	0.6	1.1	1.7
150°	2.3	2.3	1.7	0.8	0.3	0.0	0.3	0.6	0.6	0.8	1.4
152.5°	1.7	1.7	1.1	0.6	0.0	0.0	0.0	0.3	0.3	0.6	0.8
155°	0.8	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
157.5°	0.3	0.3	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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	5.7	5.7	5.7	5.7	5.4	5.4	5.1	5.1	5.1	5.1	5.1
5°	5.4	5.4	5.4	5.1	4.8	4.5	4.8	4.5	4.5	4.5	4.5
7.5°	5.7	5.7	5.1	4.8	4.8	4.8	6.2	37.8	83.6	71.6	74.5
10°	10.5	9.9	8.5	7.1	6.5	37.5	71.6	65.7	50.0	41.8	43.0
12.5°	104.3	93.8	60.6	42.0	48.3	49.7	44.9	49.2	80.2	73.3	73.7
15°	104.3	106.9	87.6	98.6	85.3	39.8	76.7	91.6	89.0	81.8	85.8
17.5°	176.3	175.1	109.1	100.4	82.4	83.3	72.2	62.8	58.3	57.4	58.3
20°	261.3	217.8	208.1	151.5	92.7	85.0	59.7	50.6	64.5	79.6	81.6
22.5°	230.0	230.0	186.8	135.3	114.6	72.7	65.1	64.5	77.3	76.5	80.2
25°	388.3	337.5	241.9	130.5	100.0	74.0	66.0	59.9	67.4	77.6	76.7
27.5°	358.2	332.4	239.1	156.9	78.5	80.5	60.9	59.1	75.9	81.6	82.1
30°	452.0	416.5	241.6	117.9	79.1	62.0	56.3	60.3	63.4	68.8	69.4
32.5°	468.2	423.9	232.0	106.3	83.3	59.7	57.2	56.9	64.5	74.2	75.1
35°	458.3	406.8	218.6	89.5	83.6	60.3	58.6	64.9	59.1	69.0	70.5
37.5°	526.5	415.3	197.3	83.6	76.7	62.0	76.7	62.0	61.7	64.9	65.4
40°	525.7	434.4	173.2	102.1	76.7	102.1	80.2	64.5	55.4	60.9	61.2
42.5°	568.0	445.2	151.8	105.2	82.8	118.3	74.8	62.8	66.0	69.4	72.7
45°	616.9	479.4	142.2	94.6	93.3	91.6	77.9	81.8	59.7	95.9	99.7
47.5°	683.7	523.1	129.1	92.7	126.5	92.1	148.4	76.2	65.7	113.4	115.7
50°	783.5	600.2	130.2	101.8	116.0	98.6	99.7	82.8	88.7	117.9	118.6
52.5°	889.9	664.7	122.5	112.3	114.0	121.1	106.3	123.7	87.3	113.4	113.4
55°	984.0	760.0	126.2	118.3	119.1	105.5	149.9	91.2	87.0	114.0	116.8
57.5°	1106.7	861.7	151.5	123.7	122.2	112.6	115.7	113.1	102.4	116.0	117.7
60°	1171.9	935.9	190.0	139.0	128.0	129.9	137.1	108.8	93.0	135.6	141.0
62.5°	1275.1	1042.8	240.5	157.5	162.3	133.1	116.8	118.6	98.9	108.0	109.1
65°	1394.2	1154.0	265.6	175.7	174.8	147.8	132.5	92.1	64.2	59.4	59.1
67.5°	1483.8	1196.9	243.1	196.4	218.1	141.9	90.9	65.4	49.5	46.6	47.5
70°	1426.0	1098.9	208.1	235.7	220.7	110.1	78.5	52.1	42.4	39.8	41.2
72.5°	1237.3	887.8	191.1	248.8	193.6	74.2	58.6	45.7	38.1	35.5	36.1
75°	874.5	570.6	196.2	210.6	137.6	53.7	50.6	38.1	33.9	30.4	30.4
77.5°	384.1	244.5	153.9	151.8	88.2	42.7	43.0	31.5	29.3	26.2	26.2
80°	154.7	129.4	90.4	87.9	58.8	33.6	34.2	26.2	26.4	22.2	20.8
82.5°	81.8	74.0	50.3	47.2	42.0	25.9	24.1	22.5	22.2	18.2	16.0
85°	53.7	48.6	32.9	30.7	31.3	19.0	20.2	21.3	19.6	15.0	10.5
87.5°	33.2	32.9	23.3	22.2	23.3	13.6	16.5	17.4	16.5	11.4	6.9
90°	15.7	17.1	15.7	15.3	15.3	6.5	12.8	13.6	13.4	9.1	5.4
92.5°	12.3	13.9	14.5	14.8	14.8	6.9	13.4	14.2	13.6	9.4	5.9
95°	10.5	12.3	14.2	14.2	13.9	5.4	12.5	13.9	13.1	8.8	5.7
97.5°	8.8	10.2	12.3	12.3	13.4	4.5	11.7	13.4	13.1	9.4	5.9
100°	8.3	9.6	10.8	11.0	12.3	4.3	10.5	12.0	11.7	7.7	6.2
102.5°	7.7	8.3	8.5	8.8	9.1	4.0	8.3	9.1	8.8	5.7	5.7
105°	7.1	7.1	6.2	5.9	5.9	3.7	5.1	6.2	5.1	4.5	5.1
107.5°	7.1	6.9	5.1	4.5	4.5	3.4	4.0	4.0	3.4	4.5	4.8
110°	7.1	6.5	4.5	4.0	3.7	3.2	3.2	2.9	2.9	4.5	4.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	6.9	6.2	4.0	3.4	3.4	2.9	2.6	2.3	2.6	4.5	5.1
115°	6.5	5.9	3.7	3.4	3.2	2.6	2.3	1.7	2.6	4.8	5.4
117.5°	6.5	5.9	3.7	3.2	2.9	2.3	1.9	1.7	2.6	4.8	5.4
120°	6.9	5.9	3.7	2.9	2.6	1.9	1.7	1.7	2.6	4.8	5.4
122.5°	6.5	5.7	3.4	2.6	2.3	1.9	1.7	1.7	2.6	4.8	5.1
125°	6.2	5.7	3.4	2.3	1.9	1.7	1.4	1.4	2.9	4.8	5.1
127.5°	5.9	5.4	3.2	1.9	1.7	1.7	1.4	1.4	2.9	4.5	4.8
130°	5.4	4.8	3.2	1.9	1.4	1.4	1.1	1.1	2.9	4.5	4.8
132.5°	4.8	4.5	2.9	1.7	1.1	1.1	1.1	1.1	2.6	4.0	4.3
135°	4.3	3.7	2.6	1.4	1.1	0.8	0.8	0.8	2.3	3.4	3.7
137.5°	3.7	3.4	2.3	1.4	0.8	0.8	0.6	0.6	1.9	3.2	3.4
140°	3.2	2.9	1.9	1.1	0.8	0.8	0.6	0.6	1.4	2.3	2.6
142.5°	2.3	2.3	1.7	1.1	0.8	0.6	0.6	0.6	1.4	1.9	2.3
145°	1.9	1.9	1.7	1.1	0.8	0.6	0.3	0.3	0.8	1.4	1.4
147.5°	1.7	1.7	1.4	1.1	0.6	0.3	0.3	0.3	0.6	0.8	0.8
150°	1.4	1.4	1.1	0.8	0.6	0.3	0.0	0.0	0.3	0.6	0.6
152.5°	0.8	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	0.3	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)