

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: P241126

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241126
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2308.8 lumens
Efficiency: N/A
Efficacy: 109.9 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



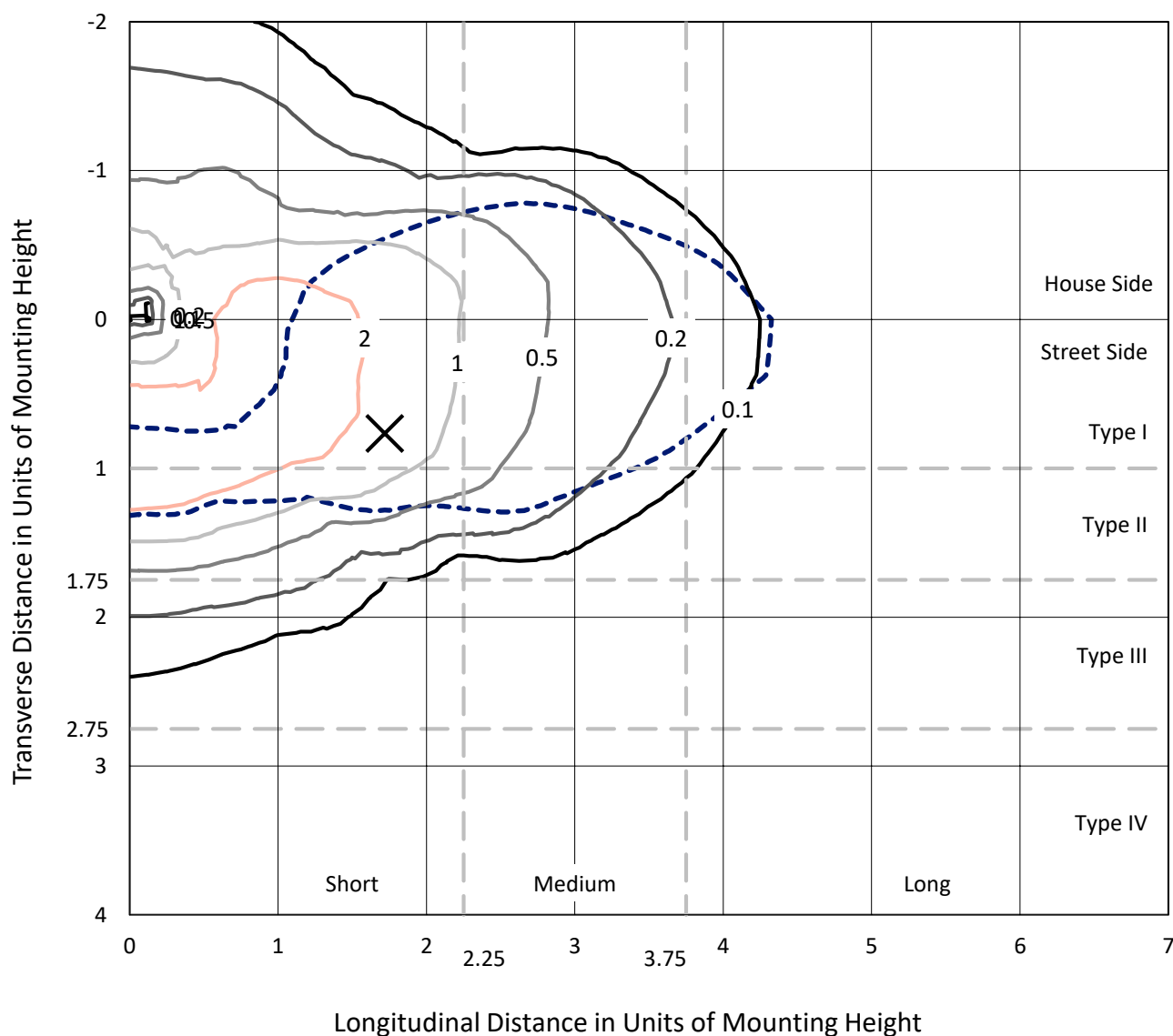
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

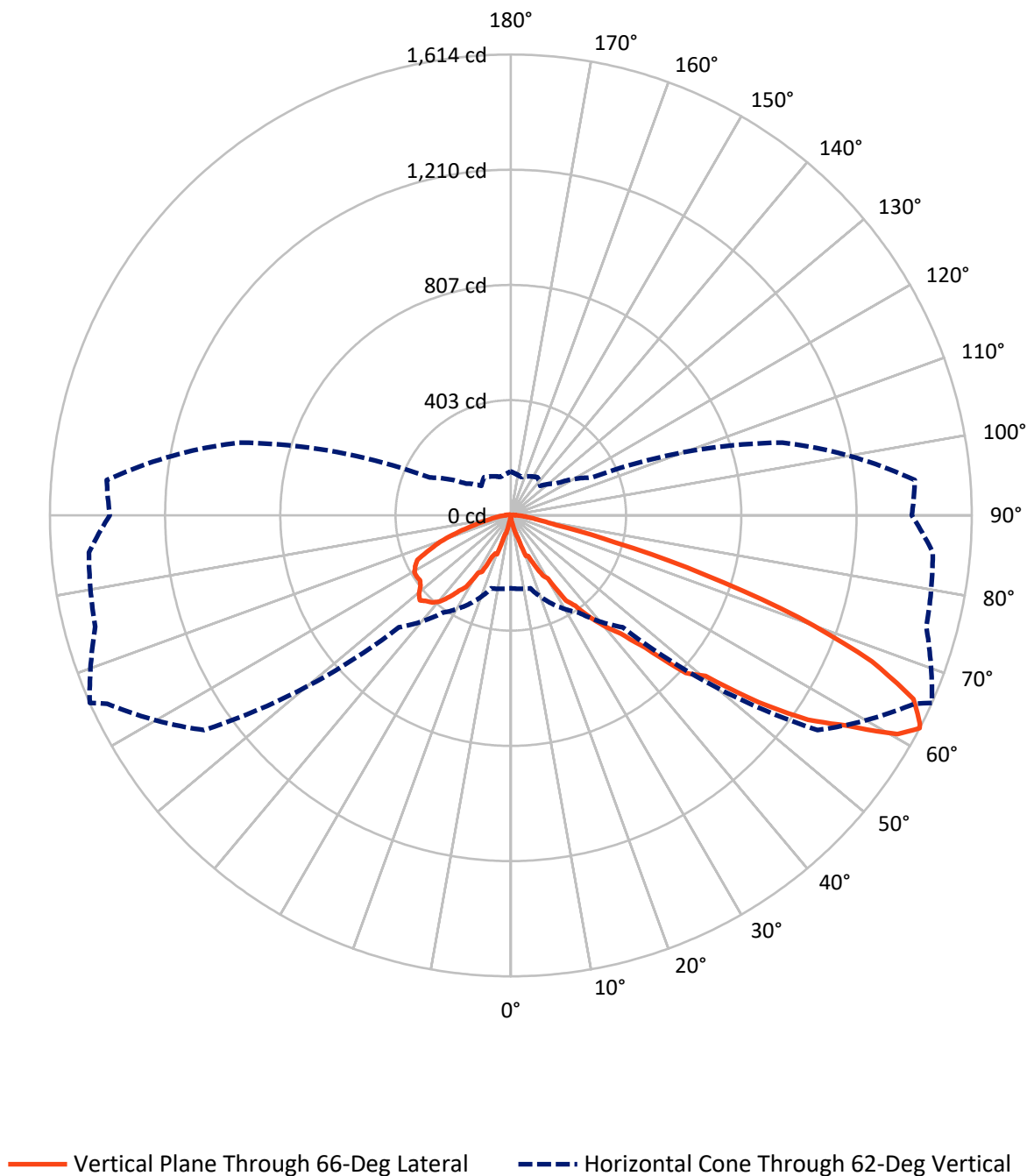


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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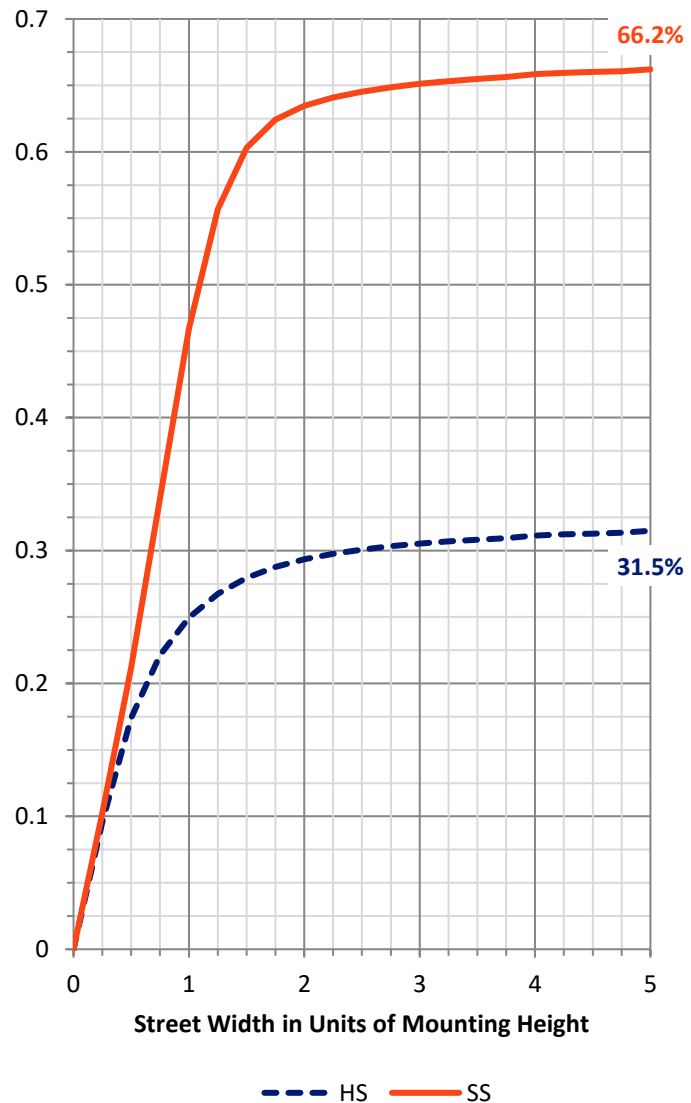
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	740.6	17.7	758.2
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	1537.6	13.0	1550.6
	% Fixture	66.6	0.6	67.2
Total	Lumens	2278.2	30.7	2308.8
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.1
10°-20°	23.4	1.0
20°-30°	92.8	4.0
30°-40°	231.3	10.0
40°-50°	441.0	19.1
50°-60°	601.4	26.0
60°-70°	552.5	23.9
70°-80°	281.8	12.2
80°-90°	51.8	2.2
90°-100°	13.7	0.6
100°-110°	6.6	0.3
110°-120°	4.0	0.2
120°-130°	3.1	0.1
130°-140°	2.0	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2278.2	98.7
0°-180°	2308.8	100.0

Coefficient of Utilization



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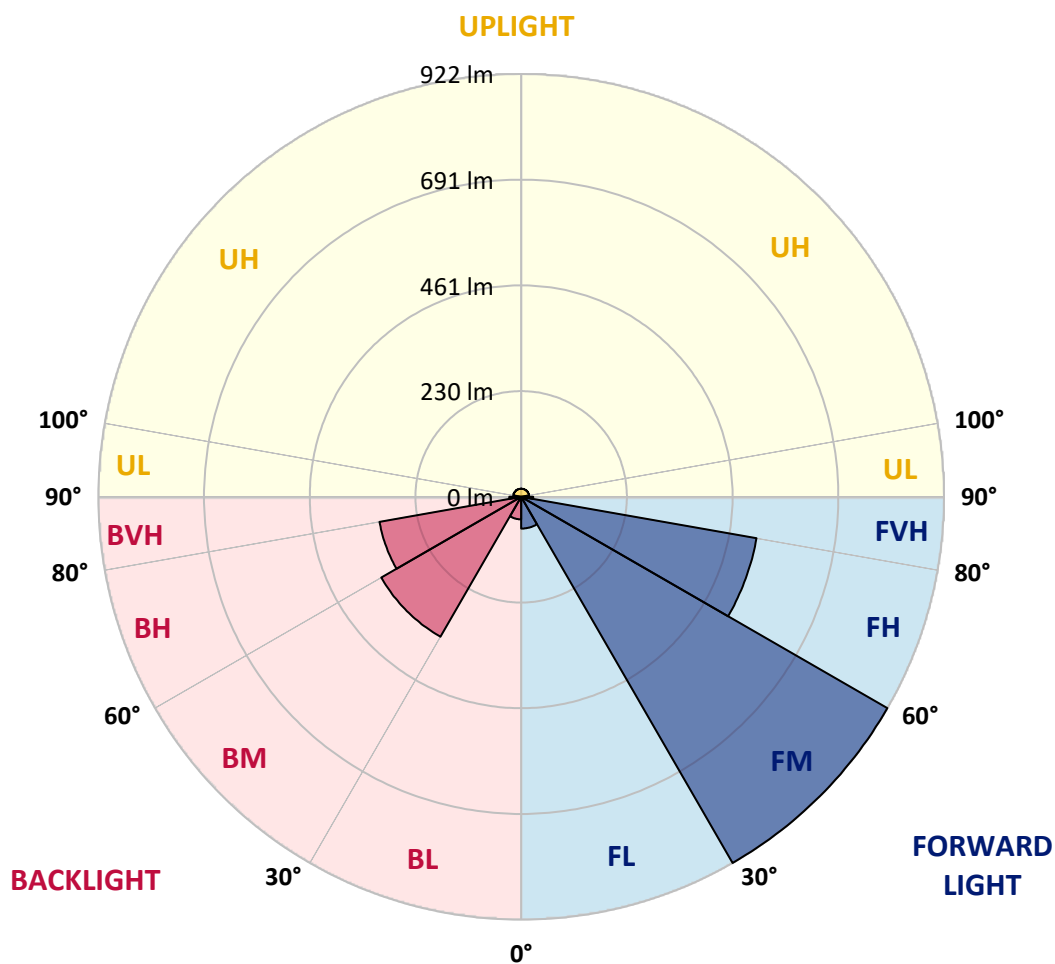
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.2	3.0			
FM	(30°-60°)	921.6	39.9			
FH	(60°-80°)	520.8	22.6			G0/660
FVH	(80°-90°)	26.0	1.1			G1/100
BL	(0°-30°)	49.1	2.1	B0/110		
BM	(30°-60°)	352.1	15.3	B1/1000		
BH	(60°-80°)	313.5	13.6	B1/500		G1/500
BVH	(80°-90°)	25.8	1.1			G1/100
UL	(90°-100°)	13.7	0.6		U2/50	
UH	(100°-180°)	17.7	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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	28.7	27.3	20.5	17.9	15.0	12.2	9.4	8.0	7.7	7.1	6.5
5°	28.7	28.7	29.6	31.3	34.7	31.5	33.2	12.0	11.4	7.7	6.2
7.5°	54.8	53.4	67.1	47.5	29.9	27.8	42.4	25.9	25.9	12.0	7.1
10°	74.2	73.9	90.6	58.0	53.4	64.9	28.7	29.6	29.6	20.5	9.9
12.5°	72.7	72.2	73.3	79.9	67.1	56.9	57.7	37.8	47.2	74.5	76.4
15°	102.3	107.7	102.1	78.2	71.6	71.3	92.1	70.0	71.1	81.8	59.9
17.5°	136.5	137.0	149.2	126.7	99.7	105.5	97.5	97.8	86.4	90.6	101.5
20°	148.6	146.1	152.9	141.9	141.9	126.2	99.5	141.0	151.5	142.4	140.8
22.5°	255.2	254.1	222.3	155.5	160.9	147.5	150.7	164.3	154.4	145.0	142.4
25°	291.0	287.3	276.3	265.3	197.2	206.9	182.5	178.5	189.6	228.8	247.6
27.5°	387.2	391.4	334.3	298.5	266.1	222.6	208.7	256.4	237.9	250.4	247.6
30°	487.2	485.0	464.7	399.1	334.3	276.3	276.9	269.2	256.7	295.0	335.1
32.5°	631.6	639.0	546.7	477.8	417.9	336.2	304.7	357.8	355.6	344.5	359.6
35°	787.4	786.2	710.6	597.2	451.9	380.3	364.2	395.7	388.0	370.9	398.8
37.5°	886.3	875.2	823.8	726.3	552.6	433.5	439.2	462.2	454.5	432.1	483.5
40°	1029.6	1017.3	955.9	823.5	689.1	525.3	557.4	538.7	513.6	509.6	516.2
42.5°	1082.2	1082.7	1022.7	926.4	807.6	656.6	673.4	591.0	565.7	608.0	593.8
45°	1098.6	1096.4	1054.6	982.3	884.6	813.6	760.1	686.2	660.6	699.3	714.6
47.5°	1062.5	1053.4	1060.3	979.6	965.9	882.1	870.9	818.7	824.3	802.5	838.5
50°	965.7	952.3	970.2	949.1	1007.4	956.3	1085.2	887.2	884.0	923.5	968.4
52.5°	815.3	805.3	863.3	846.0	998.3	1037.3	1127.9	1084.4	1087.3	1091.0	1066.5
55°	668.0	673.1	717.5	707.3	866.7	1054.9	1270.3	1246.2	1262.6	1171.2	1171.4
57.5°	477.0	488.4	568.2	574.2	722.3	927.8	1384.6	1346.0	1388.3	1302.7	1321.8
60°	328.6	335.4	378.6	438.8	542.1	770.4	1323.8	1516.5	1554.9	1436.6	1435.8
62°	255.0	257.8	264.3	341.4	416.1	553.7	1310.4	1559.4	1613.7	1506.0	1482.7
62.5°	236.5	239.7	243.9	309.9	383.7	503.4	1260.4	1568.8	1607.5	1514.8	1490.6
65°	189.3	190.8	181.1	206.1	271.2	300.7	905.6	1524.7	1549.5	1504.0	1467.6
67.5°	175.4	170.2	156.9	150.1	203.0	193.8	492.9	1299.7	1363.6	1439.5	1401.6
70°	145.3	156.6	145.9	134.2	162.0	148.9	209.2	1051.8	1069.7	1317.8	1312.7
72.5°	111.2	119.4	127.9	126.5	124.8	120.0	139.0	657.2	709.8	1081.6	1215.5
75°	90.1	93.5	111.4	107.7	110.9	94.9	109.5	312.4	378.1	765.5	1057.1
77.5°	72.5	74.8	86.7	83.6	91.9	74.2	87.3	141.6	160.3	440.1	724.0
80°	48.1	49.2	63.1	62.5	67.1	65.7	66.0	99.2	100.4	205.8	378.9
82.5°	35.8	35.3	43.5	43.8	43.5	47.5	45.2	67.9	70.8	100.9	125.9
85°	23.3	22.5	25.9	27.6	26.4	26.2	34.1	47.8	49.7	71.9	75.1
87.5°	12.8	13.6	17.1	17.1	17.9	17.6	27.8	31.8	33.2	48.1	40.4
90°	8.5	8.5	9.4	9.1	9.6	9.4	14.5	18.7	19.0	24.1	21.6
92.5°	7.7	8.3	9.4	9.4	10.2	8.8	13.1	16.0	16.2	19.6	16.5
95°	6.9	7.1	8.0	8.3	8.8	6.2	9.9	13.1	13.4	16.2	13.4
97.5°	5.7	6.2	6.9	7.1	8.0	5.7	8.3	10.5	10.8	12.5	10.2
100°	5.7	5.9	5.9	5.9	6.9	4.8	7.1	9.1	9.4	10.2	8.5
102.5°	5.4	5.7	5.4	5.1	5.7	4.3	6.2	7.7	7.7	7.4	7.1
105°	5.4	5.4	4.5	4.0	4.8	4.0	5.4	5.7	5.7	5.7	6.5
107.5°	5.1	5.1	4.3	3.7	4.0	3.4	4.5	4.8	4.8	5.1	6.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	4.8	4.5	3.7	3.2	3.2	3.2	3.7	4.0	4.0	4.5	6.5
112.5°	4.3	4.3	3.2	2.9	2.9	2.9	3.4	3.7	3.7	4.3	6.2
115°	4.0	4.0	3.2	2.6	2.6	2.6	3.2	3.4	3.4	4.0	6.2
117.5°	4.3	4.0	2.9	2.6	2.3	2.3	2.6	3.2	3.2	4.0	6.2
120°	3.7	3.7	2.9	2.3	1.9	2.3	2.6	2.9	3.2	4.3	6.2
122.5°	4.0	3.7	2.9	1.9	1.9	1.9	2.3	2.9	2.9	4.0	5.7
125°	3.7	3.4	2.6	1.9	1.7	1.9	2.3	2.6	2.9	4.0	5.7
127.5°	3.7	3.4	2.6	1.9	1.7	1.7	2.3	2.6	2.6	3.7	5.4
130°	3.4	3.4	2.3	1.7	1.7	1.7	1.9	2.3	2.3	3.4	4.8
132.5°	3.2	2.9	2.3	1.7	1.4	1.7	1.9	1.9	1.9	3.2	4.5
135°	2.9	2.9	2.3	1.7	1.4	1.4	1.7	1.9	1.9	2.9	4.0
137.5°	2.6	2.6	2.3	1.7	1.4	1.4	1.4	1.7	1.7	2.6	3.4
140°	2.6	2.6	2.3	1.7	1.4	1.4	1.4	1.4	1.4	1.9	2.9
142.5°	2.6	2.6	2.3	1.7	1.4	1.1	1.1	1.1	1.1	1.7	2.3
145°	2.3	2.3	1.9	1.7	1.1	0.8	0.8	1.1	1.1	1.4	1.7
147.5°	2.3	2.3	1.9	1.4	0.8	0.6	0.6	0.8	0.8	1.1	1.4
150°	1.7	1.7	1.7	1.1	0.6	0.0	0.6	0.6	0.6	1.1	1.1
152.5°	1.1	1.1	0.8	0.6	0.3	0.3	0.3	0.6	0.6	0.6	0.8
155°	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.3	0.3	0.6	0.6
157.5°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3
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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	6.5	6.2	6.2	6.2	6.5	6.5	6.5	6.2	5.9	5.9	5.9
5°	5.9	5.7	5.7	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9
7.5°	6.5	5.9	5.9	5.7	5.7	5.9	6.5	9.6	16.8	23.6	27.6
10°	9.1	9.1	8.0	7.4	7.4	10.8	40.1	43.5	43.5	41.2	39.8
12.5°	82.4	65.1	57.4	20.2	16.5	33.6	38.4	36.1	50.0	58.3	61.7
15°	59.7	65.4	70.5	63.4	85.5	35.8	58.0	70.5	94.9	96.1	97.0
17.5°	100.4	108.3	78.2	68.2	79.9	106.0	86.7	89.8	89.8	89.8	90.1
20°	141.3	143.8	150.1	143.5	80.2	111.7	111.2	90.4	101.8	126.7	133.9
22.5°	150.1	155.2	147.8	143.3	169.4	104.3	114.9	143.8	145.6	138.7	142.1
25°	254.7	247.3	217.2	152.9	169.1	145.9	148.4	134.7	138.4	134.4	137.0
27.5°	252.7	248.7	224.5	220.5	177.7	172.6	137.9	155.5	165.1	171.4	170.2
30°	353.0	329.7	260.1	227.7	209.8	165.1	151.5	147.2	146.1	153.5	154.1
32.5°	354.8	351.4	299.6	294.5	215.7	167.2	143.0	134.4	153.5	163.8	162.0
35°	411.6	393.9	342.5	317.8	247.9	157.2	127.7	134.4	137.6	145.0	144.6
37.5°	462.5	457.1	415.0	351.1	238.8	143.3	144.1	143.3	139.5	140.8	140.8
40°	530.1	500.3	462.8	382.1	223.4	153.5	155.5	135.3	131.7	129.6	129.6
42.5°	610.6	560.0	525.3	397.1	212.4	180.8	147.2	132.2	128.5	122.8	121.9
45°	705.5	642.7	590.7	401.9	178.2	187.3	152.9	150.4	138.1	133.0	131.0
47.5°	788.8	738.3	666.0	409.9	206.6	178.8	201.2	170.8	133.3	140.8	139.5
50°	913.9	848.7	718.9	389.7	220.9	173.7	209.2	149.6	137.3	147.2	146.7
52.5°	1024.5	962.5	774.3	359.3	208.9	240.2	185.7	171.4	159.2	154.1	153.5
55°	1140.2	1078.2	811.8	343.9	206.3	192.1	193.0	185.7	143.8	154.9	154.7
57.5°	1273.2	1239.1	893.4	337.4	211.4	169.7	193.0	155.2	164.0	154.9	156.6
60°	1344.3	1344.3	940.9	330.9	195.3	174.2	165.7	170.5	142.4	144.1	148.6
62°	1403.9	1419.9	984.4	313.5	194.7	146.1	162.9	150.7	139.3	147.8	153.5
62.5°	1424.2	1436.3	997.5	310.2	199.6	138.4	151.0	150.4	144.4	145.6	150.7
65°	1443.7	1500.3	1028.7	288.5	183.6	130.7	129.1	142.7	125.1	119.7	120.0
67.5°	1425.0	1502.8	1018.2	232.2	148.9	112.3	114.0	119.1	112.8	110.9	112.0
70°	1356.4	1388.0	911.0	191.6	128.5	102.9	109.5	105.2	103.4	103.2	102.9
72.5°	1262.6	1202.7	715.5	144.1	110.6	89.3	93.8	97.0	97.5	96.1	94.4
75°	1065.1	944.6	466.8	108.0	88.4	75.6	85.5	88.1	90.4	86.4	85.0
77.5°	731.1	595.6	241.6	85.8	76.4	63.4	75.1	79.1	81.3	75.3	76.2
80°	339.4	271.8	111.7	70.2	63.4	52.6	63.6	68.7	71.9	63.9	61.1
82.5°	114.6	104.6	67.4	54.3	52.1	40.1	51.5	57.4	58.3	53.2	45.2
85°	68.2	68.5	47.2	41.7	38.4	25.1	36.9	45.2	45.2	37.5	30.7
87.5°	39.2	44.1	36.1	31.8	28.7	17.1	27.6	31.0	30.4	23.8	17.1
90°	19.6	23.0	21.3	21.1	21.6	10.8	21.6	23.3	23.3	16.5	10.5
92.5°	14.5	17.6	19.0	17.9	18.2	8.3	17.4	17.6	17.4	12.8	8.3
95°	12.2	15.3	19.0	17.9	17.4	6.9	16.0	16.2	16.5	12.5	9.1
97.5°	9.6	11.7	14.7	14.5	15.7	5.7	14.5	14.5	13.9	10.2	7.7
100°	8.8	10.2	12.5	12.5	13.6	5.1	12.8	11.7	11.0	8.3	7.1
102.5°	7.4	8.3	9.6	9.4	10.2	4.8	9.4	9.1	8.5	7.1	6.9
105°	7.1	7.4	7.4	6.9	7.1	4.5	6.5	6.2	5.9	5.9	6.2
107.5°	6.9	6.9	6.2	5.7	5.7	4.3	4.8	4.5	4.8	6.2	6.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.9	6.9	5.7	5.1	4.5	4.0	4.3	3.7	4.3	6.2	6.9
112.5°	6.9	6.9	5.1	4.3	4.3	3.7	3.7	3.4	4.0	6.2	6.9
115°	6.5	6.5	4.8	4.0	3.7	3.4	3.4	3.2	4.0	6.2	6.9
117.5°	6.5	6.5	4.8	4.0	3.4	3.2	3.2	2.9	4.0	6.5	6.9
120°	6.5	6.5	4.8	3.7	3.4	3.2	2.9	2.9	4.0	6.2	6.9
122.5°	6.2	5.9	4.5	3.4	3.2	2.9	2.9	2.9	4.0	6.5	6.9
125°	5.9	5.7	4.5	3.4	2.9	2.9	2.6	2.6	4.0	6.2	6.5
127.5°	5.7	5.7	4.3	3.2	2.9	2.6	2.6	2.6	4.0	6.5	6.5
130°	5.4	5.1	4.0	2.9	2.6	2.3	2.3	2.6	4.3	5.9	6.2
132.5°	4.8	4.5	3.7	2.6	2.3	2.3	2.3	2.3	4.0	5.9	5.9
135°	4.0	4.0	3.2	2.3	1.9	1.9	1.9	2.3	3.7	5.1	5.4
137.5°	3.7	3.4	2.9	2.3	1.7	1.9	1.9	2.3	3.7	4.8	5.1
140°	3.2	2.9	2.3	1.7	1.7	1.7	1.7	1.9	3.2	4.3	4.5
142.5°	2.3	2.3	1.9	1.4	1.4	1.4	1.4	1.9	2.9	3.7	3.7
145°	1.9	1.9	1.7	1.4	1.1	0.8	0.8	1.4	2.3	3.2	3.2
147.5°	1.4	1.4	1.4	1.1	0.8	0.8	0.8	1.1	1.7	2.3	2.3
150°	1.1	1.1	1.1	0.8	0.8	0.6	0.6	0.8	1.4	1.7	1.7
152.5°	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.8	1.1	1.1
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.6	0.6
157.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.3	0.3	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)