

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: P266299

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266299
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-AF24-30-D-U-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2669.6 lumens
Efficiency: N/A
Efficacy: 86.1 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): 31
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

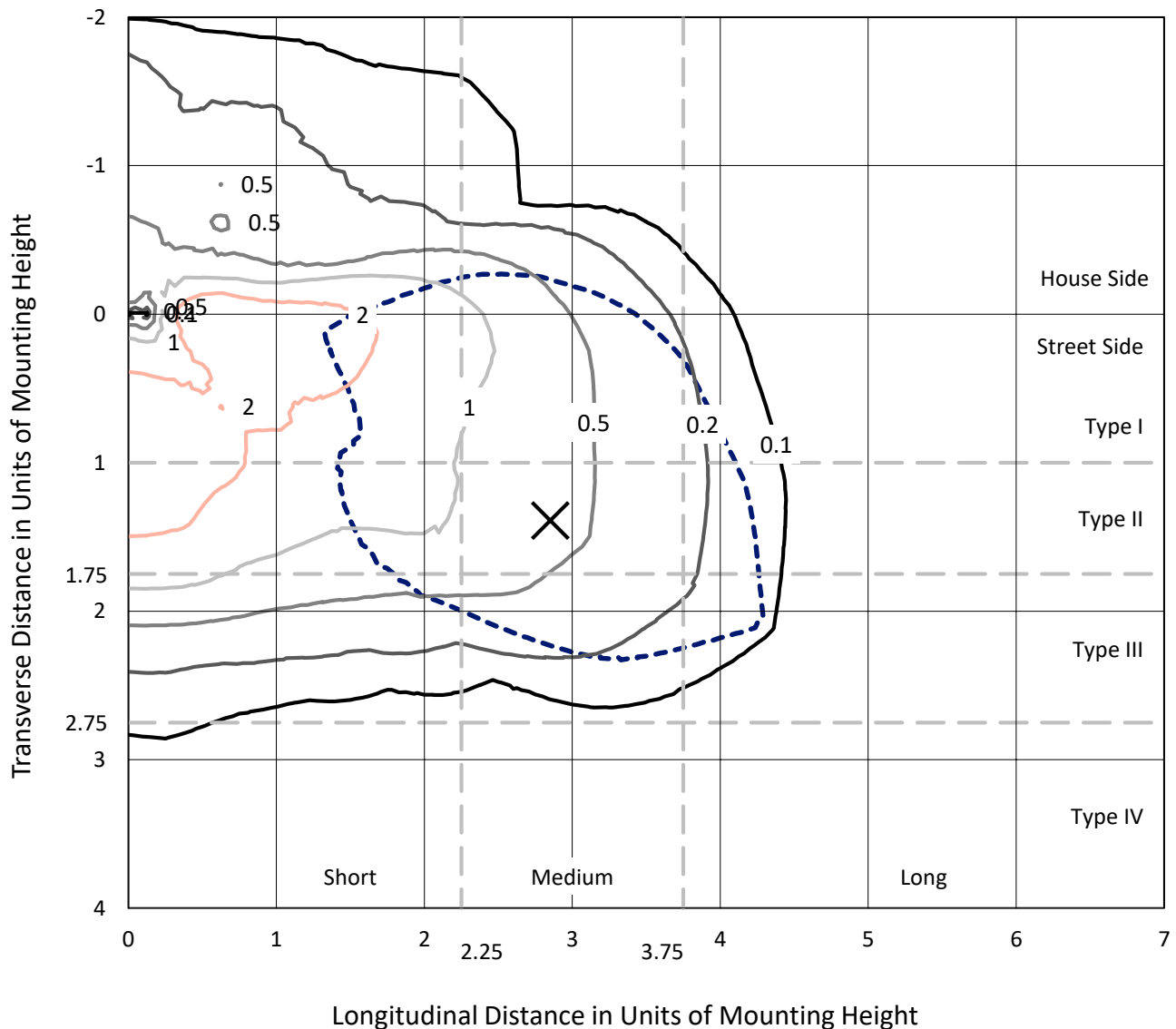


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

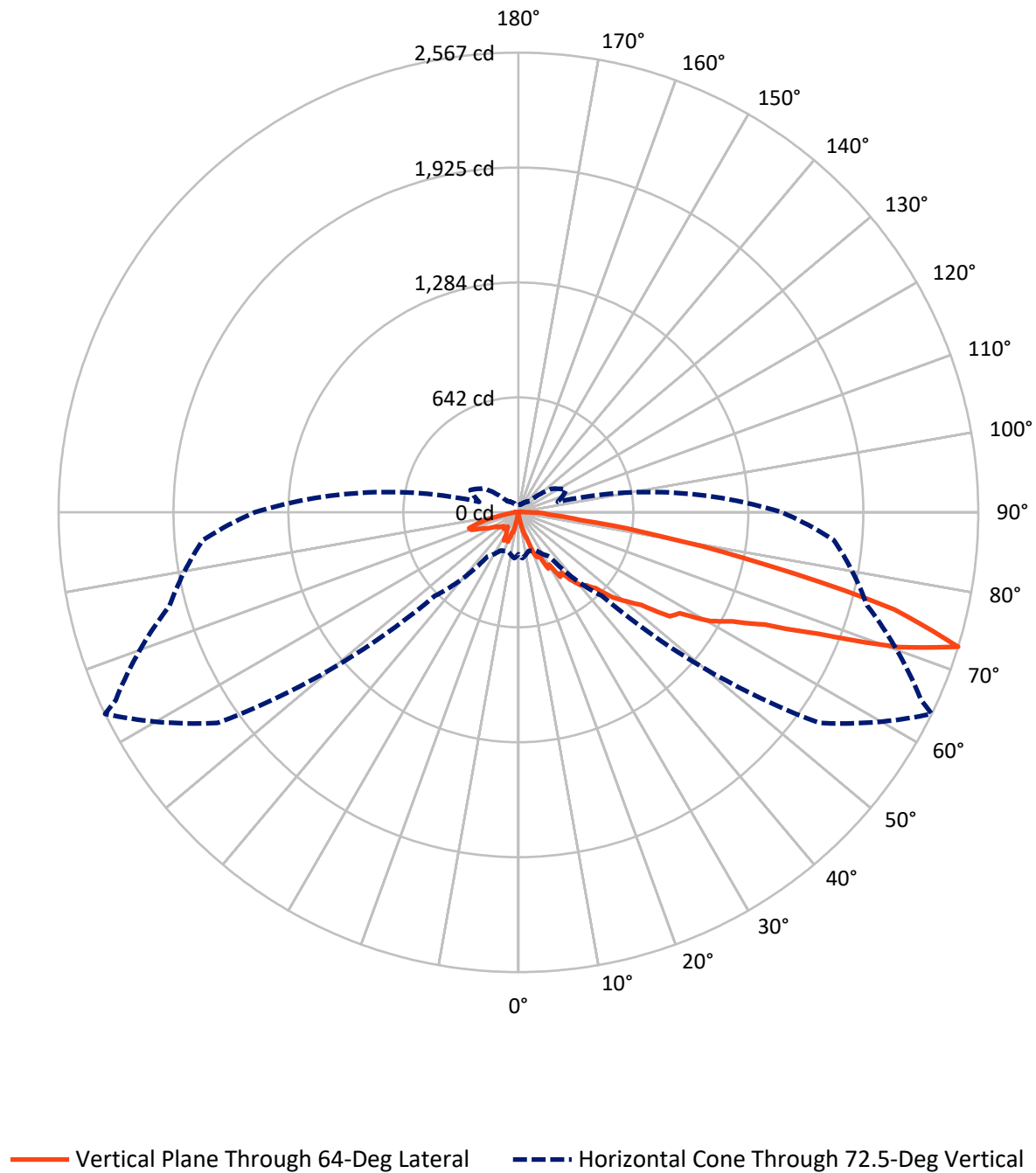


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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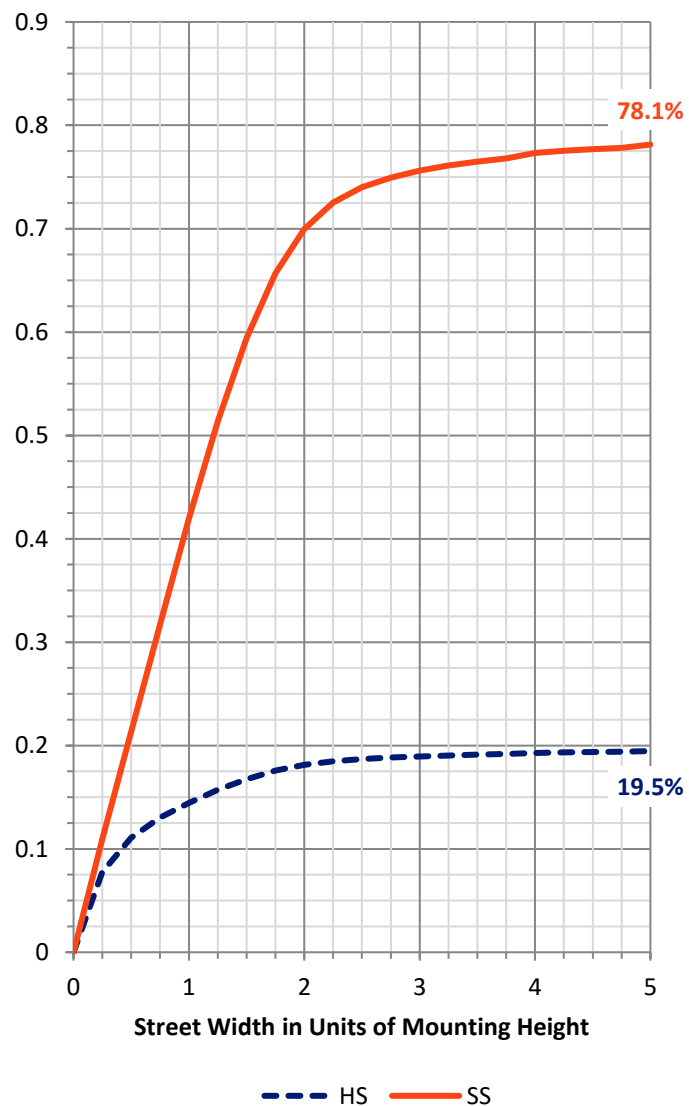
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.5	16.5	544.9
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	2107.7	17.0	2124.7
	% Fixture	79.0	0.6	79.6
Total	Lumens	2636.2	33.5	2669.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	35.6	1.3
20°-30°	104.9	3.9
30°-40°	208.0	7.8
40°-50°	359.0	13.4
50°-60°	580.3	21.7
60°-70°	735.5	27.5
70°-80°	526.9	19.7
80°-90°	82.6	3.1
90°-100°	16.7	0.6
100°-110°	7.4	0.3
110°-120°	3.8	0.1
120°-130°	2.8	0.1
130°-140°	1.7	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2636.2	98.7
0°-180°	2669.6	100.0

Coefficient of Utilization



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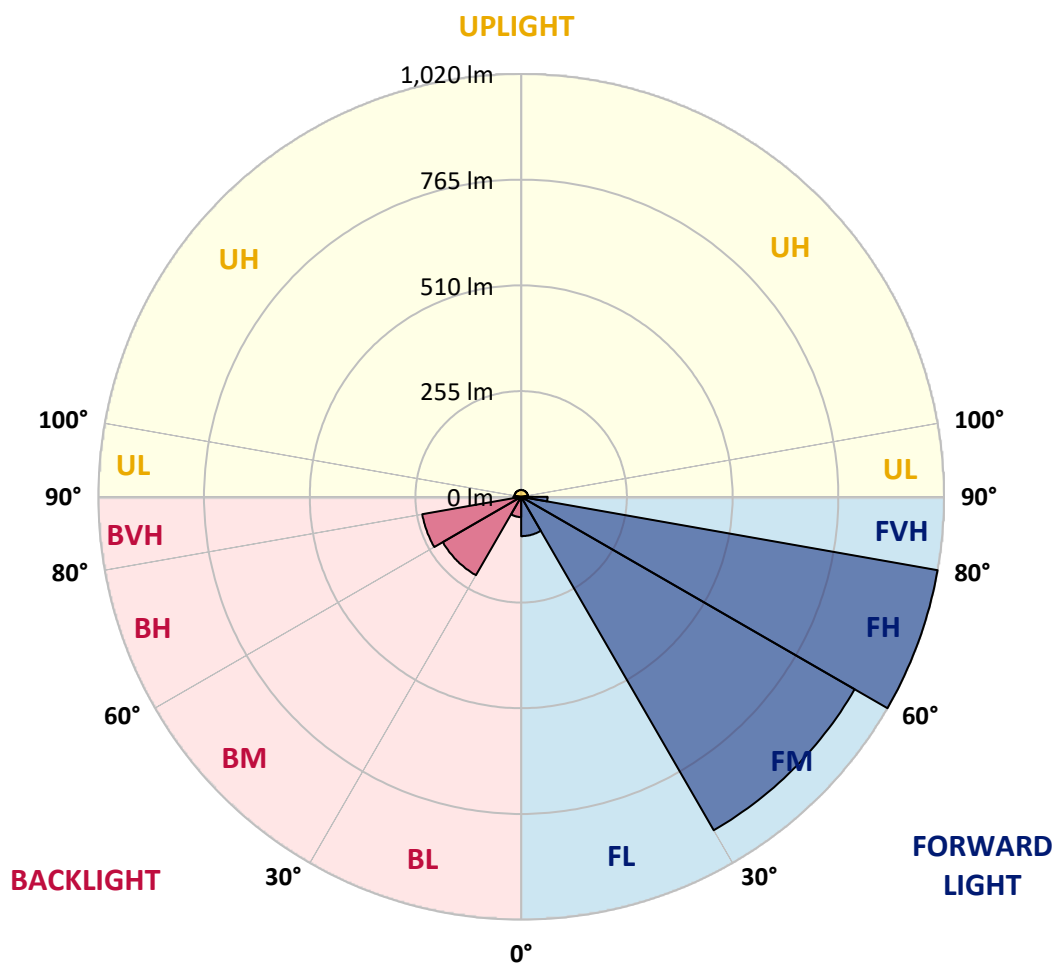
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	94.9	3.6			
FM	(30°-60°)	929.0	34.8			
FH	(60°-80°)	1020.2	38.2			G1/1800
FVH	(80°-90°)	63.6	2.4			G1/100
BL	(0°-30°)	48.9	1.8	B0/110		
BM	(30°-60°)	218.3	8.2	B0/220		
BH	(60°-80°)	242.2	9.1	B1/500		G1/500
BVH	(80°-90°)	19.1	0.7			G1/100
UL	(90°-100°)	16.7	0.6		U2/50	
UH	(100°-180°)	16.5	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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	18.5	16.6	17.2	15.2	12.8	10.5	8.9	7.7	7.7	7.5	6.7
5°	64.6	65.9	74.0	62.3	56.5	73.8	20.7	11.9	11.1	7.7	6.4
7.5°	86.1	90.3	64.6	53.8	50.3	81.1	60.5	33.1	27.4	10.2	7.0
10°	163.2	152.2	102.8	112.2	104.5	66.6	44.2	45.3	41.6	16.6	11.5
12.5°	146.1	147.7	151.1	137.3	141.4	104.8	53.8	88.3	94.3	106.1	99.7
15°	170.4	163.2	137.3	149.4	142.3	165.6	139.2	129.7	142.7	146.8	122.0
17.5°	231.3	226.2	262.7	179.1	130.2	186.3	165.6	151.8	144.4	160.8	194.4
20°	212.5	213.0	228.2	202.5	210.3	171.3	166.6	245.1	294.0	278.8	271.1
22.5°	320.1	310.4	258.0	201.1	222.2	196.4	234.3	273.4	259.6	253.2	273.4
25°	311.0	314.6	299.1	302.2	222.4	262.7	244.1	261.0	277.4	398.2	449.0
27.5°	382.3	361.4	343.4	313.0	306.2	247.2	236.0	354.7	364.1	399.1	420.9
30°	503.1	492.5	459.8	357.3	319.7	265.7	322.9	339.4	345.5	469.9	581.5
32.5°	638.5	600.0	505.3	467.5	347.9	327.9	303.8	429.3	422.2	520.8	587.5
35°	738.2	715.2	625.9	508.4	418.2	350.5	409.0	412.7	449.0	545.2	592.9
37.5°	717.2	723.7	686.8	606.7	460.0	378.9	442.4	480.7	484.0	590.5	628.4
40°	771.6	775.7	762.9	673.3	530.7	436.0	497.2	533.1	504.7	646.3	671.7
42.5°	803.4	809.9	834.5	769.9	598.6	498.6	583.1	557.7	532.8	694.3	763.9
45°	872.8	869.4	880.2	803.4	699.3	627.3	612.1	604.4	613.8	780.4	852.9
47.5°	969.5	982.9	929.6	819.8	775.1	659.1	693.6	708.5	744.3	892.0	943.1
50°	1112.5	1095.2	1031.3	891.7	849.7	701.0	849.7	781.4	762.9	993.7	1078.0
52.5°	1170.5	1159.4	1068.9	922.1	896.4	780.4	876.1	858.9	852.5	1134.4	1228.1
55°	1193.6	1185.5	1147.9	927.5	938.6	899.2	1004.9	1024.8	1014.0	1223.6	1379.4
57.5°	1132.8	1146.1	1148.9	949.5	967.5	912.9	1207.4	1063.1	1140.5	1335.5	1497.0
60°	1050.2	1050.8	1086.7	946.8	994.2	1001.5	1251.2	1231.8	1304.1	1394.7	1529.5
62.5°	846.5	870.4	929.6	927.9	1031.3	1116.5	1467.3	1340.9	1369.2	1454.8	1631.2
65°	561.4	574.2	645.9	769.3	965.0	1208.1	1644.7	1510.6	1550.8	1569.3	1779.4
67.5°	335.0	350.9	360.9	491.5	805.8	1226.4	2012.9	1811.7	1775.3	1742.8	1927.8
70°	279.9	290.3	261.0	294.0	492.5	1113.4	2190.3	2252.5	2134.0	1977.3	1959.2
72.5°	234.5	257.5	222.4	235.3	299.9	660.9	2050.4	2567.3	2480.9	2016.5	1767.4
75°	174.1	206.3	185.2	211.2	276.9	339.4	1547.2	2169.3	2142.4	1747.9	1311.9
77.5°	135.9	141.7	115.9	159.5	266.0	280.5	928.2	1430.1	1406.8	1114.4	608.4
80°	95.3	97.6	91.5	83.2	205.5	262.9	470.3	792.9	743.6	346.1	202.1
82.5°	60.1	64.1	71.7	56.5	99.7	245.3	259.3	349.3	311.0	117.6	100.4
85°	36.2	39.5	44.2	39.5	46.6	187.6	200.9	179.5	163.9	71.7	63.5
87.5°	21.0	22.0	26.7	27.4	34.9	109.1	160.2	133.5	117.3	47.7	41.2
90°	14.6	13.6	13.6	14.3	18.0	47.7	78.4	46.6	47.0	25.1	21.6
92.5°	11.1	11.1	12.1	12.1	17.2	42.0	36.2	25.1	23.6	21.0	17.2
95°	8.4	9.2	9.2	9.8	11.9	12.8	18.0	18.5	18.5	19.0	15.2
97.5°	7.0	7.7	7.7	8.2	9.4	9.8	12.4	16.2	16.2	15.9	12.4
100°	6.7	7.0	6.7	6.7	7.7	7.5	10.2	13.8	14.6	13.8	10.8
102.5°	6.4	6.7	6.1	5.4	6.7	5.4	8.4	12.4	12.8	10.2	8.4
105°	6.4	6.4	5.4	4.4	5.4	4.4	7.0	8.9	8.9	7.0	8.2
107.5°	6.4	6.1	4.8	3.8	4.0	3.8	5.7	5.7	5.7	5.4	7.7
110°	5.7	5.4	4.4	3.4	3.1	3.1	4.0	4.0	4.0	4.8	7.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	5.1	4.8	3.8	2.8	2.3	2.3	2.8	3.1	3.1	4.4	7.5
115°	4.4	4.4	3.4	2.8	2.1	2.1	2.3	2.8	2.8	4.0	7.0
117.5°	4.4	4.4	3.1	2.3	1.6	1.6	2.1	2.3	2.3	4.0	7.5
120°	4.4	4.4	3.1	2.1	1.6	1.3	1.6	2.1	2.1	4.4	7.7
122.5°	4.0	4.0	3.1	2.1	1.3	1.3	1.3	2.1	2.1	4.0	7.0
125°	4.0	4.0	2.8	2.1	1.3	1.3	1.3	1.6	2.1	4.4	7.0
127.5°	3.8	3.8	3.1	2.1	1.3	1.0	1.3	1.6	1.6	4.0	6.7
130°	3.8	3.8	2.8	1.6	1.0	1.0	1.0	1.3	1.6	3.8	6.1
132.5°	3.4	3.4	2.3	1.6	1.0	0.7	1.0	1.3	1.3	3.4	5.4
135°	3.4	3.4	2.8	1.6	1.0	0.7	1.0	1.3	1.3	3.1	4.8
137.5°	3.1	3.1	2.3	1.6	1.0	0.7	0.7	1.0	1.3	3.1	4.4
140°	3.1	3.1	2.8	2.1	1.0	0.7	0.7	1.0	1.0	2.3	3.4
142.5°	3.4	3.4	2.8	1.6	1.0	0.7	0.7	0.7	1.0	1.6	2.8
145°	3.1	3.1	2.3	1.6	1.0	0.3	0.3	0.7	1.0	1.6	2.3
147.5°	3.1	3.1	2.8	1.6	0.7	0.3	0.3	0.7	0.7	1.3	2.1
150°	2.8	2.8	2.1	1.0	0.3	0.0	0.3	0.7	0.7	1.0	1.6
152.5°	2.1	2.1	1.3	0.7	0.0	0.0	0.0	0.3	0.3	0.7	1.0
155°	1.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7
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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	6.7	6.7	6.7	6.7	6.4	6.4	6.1	6.1	6.1	6.1	6.1
5°	6.4	6.4	6.4	6.1	5.7	5.4	5.7	5.4	5.4	5.4	5.4
7.5°	6.7	6.7	6.1	5.7	5.7	5.7	7.5	44.9	99.4	85.2	88.6
10°	12.4	11.9	10.2	8.4	7.7	44.6	85.2	78.2	59.5	49.6	51.1
12.5°	124.1	111.5	72.0	50.0	57.4	59.2	53.4	58.5	95.3	87.2	87.6
15°	124.1	127.1	104.2	117.3	101.4	47.3	91.3	108.9	105.8	97.3	102.0
17.5°	209.6	208.1	129.7	119.4	98.1	99.1	85.9	74.6	69.3	68.4	69.3
20°	310.6	258.9	247.5	180.2	110.2	101.1	71.0	60.1	76.7	94.6	96.9
22.5°	273.4	273.4	222.2	160.8	136.3	86.5	77.4	76.7	91.9	90.9	95.3
25°	461.6	401.3	287.6	155.1	118.9	87.9	78.4	71.3	80.0	92.3	91.3
27.5°	425.8	395.2	284.3	186.6	93.3	95.7	72.4	70.2	90.3	96.9	97.6
30°	537.5	495.1	287.3	140.2	94.0	73.8	67.0	71.7	75.4	81.7	82.5
32.5°	556.7	503.9	275.8	126.4	99.1	71.0	67.9	67.6	76.7	88.3	89.2
35°	544.9	483.6	259.9	106.4	99.4	71.7	69.6	77.1	70.2	82.1	83.8
37.5°	625.9	493.9	234.5	99.4	91.3	73.8	91.3	73.8	73.3	77.1	77.8
40°	625.0	516.4	205.8	121.4	91.3	121.4	95.3	76.7	65.9	72.4	72.7
42.5°	675.3	529.3	180.5	125.0	98.4	140.7	88.9	74.6	78.4	82.5	86.5
45°	733.5	569.9	169.1	112.6	110.9	108.9	92.6	97.3	71.0	113.9	118.7
47.5°	813.0	621.9	153.5	110.2	150.5	109.6	176.4	90.5	78.2	134.8	137.6
50°	931.5	713.6	154.8	121.0	137.9	117.3	118.7	98.4	105.6	140.2	140.9
52.5°	1058.1	790.2	145.6	133.5	135.6	144.0	126.4	147.1	103.8	134.8	134.8
55°	1169.9	903.5	150.0	140.7	141.7	125.5	178.1	108.5	103.5	135.6	138.9
57.5°	1315.8	1024.5	180.2	147.1	145.3	133.8	137.6	134.6	121.7	137.9	140.0
60°	1393.4	1112.7	225.8	165.3	152.2	154.5	163.0	129.4	110.5	161.2	167.7
62.5°	1516.0	1239.8	286.0	187.2	193.0	158.2	138.9	140.9	117.6	128.5	129.7
65°	1657.6	1372.0	315.8	208.9	207.9	175.8	157.6	109.6	76.4	70.6	70.2
67.5°	1764.1	1423.0	289.1	233.6	259.3	168.7	108.2	77.8	58.7	55.4	56.5
70°	1695.6	1306.5	247.5	280.2	262.2	130.9	93.3	61.9	50.3	47.3	49.0
72.5°	1471.1	1055.6	227.1	295.7	230.1	88.3	69.6	54.3	45.3	42.2	42.8
75°	1039.8	678.4	233.2	250.4	163.6	63.9	60.1	45.3	40.2	36.2	36.2
77.5°	456.7	290.7	182.8	180.5	104.8	50.8	51.1	37.5	34.9	31.1	31.1
80°	183.9	153.8	107.4	104.5	70.0	39.9	40.6	31.1	31.4	26.4	24.7
82.5°	97.3	87.9	59.8	56.1	50.0	30.7	28.7	26.7	26.4	21.6	19.0
85°	63.9	57.9	39.2	36.6	37.2	22.6	24.1	25.3	23.4	18.0	12.4
87.5°	39.5	39.2	27.7	26.4	27.7	16.2	19.7	20.7	19.7	13.6	8.2
90°	18.5	20.3	18.5	18.2	18.2	7.7	15.2	16.2	15.9	10.8	6.4
92.5°	14.6	16.6	17.2	17.5	17.5	8.2	15.9	16.9	16.2	11.1	7.0
95°	12.4	14.6	16.9	16.9	16.6	6.4	14.9	16.6	15.5	10.5	6.7
97.5°	10.5	12.1	14.6	14.6	15.9	5.4	13.8	15.9	15.5	11.1	7.0
100°	9.8	11.5	12.8	13.1	14.6	5.1	12.4	14.3	13.8	9.2	7.5
102.5°	9.2	9.8	10.2	10.5	10.8	4.8	9.8	10.8	10.5	6.7	6.7
105°	8.4	8.4	7.5	7.0	7.0	4.4	6.1	7.5	6.1	5.4	6.1
107.5°	8.4	8.2	6.1	5.4	5.4	4.0	4.8	4.8	4.0	5.4	5.7
110°	8.4	7.7	5.4	4.8	4.4	3.8	3.8	3.4	3.4	5.4	5.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	8.2	7.5	4.8	4.0	4.0	3.4	3.1	2.8	3.1	5.4	6.1
115°	7.7	7.0	4.4	4.0	3.8	3.1	2.8	2.1	3.1	5.7	6.4
117.5°	7.7	7.0	4.4	3.8	3.4	2.8	2.3	2.1	3.1	5.7	6.4
120°	8.2	7.0	4.4	3.4	3.1	2.3	2.1	2.1	3.1	5.7	6.4
122.5°	7.7	6.7	4.0	3.1	2.8	2.3	2.1	2.1	3.1	5.7	6.1
125°	7.5	6.7	4.0	2.8	2.3	2.1	1.6	1.6	3.4	5.7	6.1
127.5°	7.0	6.4	3.8	2.3	2.1	2.1	1.6	1.6	3.4	5.4	5.7
130°	6.4	5.7	3.8	2.3	1.6	1.6	1.3	1.3	3.4	5.4	5.7
132.5°	5.7	5.4	3.4	2.1	1.3	1.3	1.3	1.3	3.1	4.8	5.1
135°	5.1	4.4	3.1	1.6	1.3	1.0	1.0	1.0	2.8	4.0	4.4
137.5°	4.4	4.0	2.8	1.6	1.0	1.0	0.7	0.7	2.3	3.8	4.0
140°	3.8	3.4	2.3	1.3	1.0	1.0	0.7	0.7	1.6	2.8	3.1
142.5°	2.8	2.8	2.1	1.3	1.0	0.7	0.7	0.7	1.6	2.3	2.8
145°	2.3	2.3	2.1	1.3	1.0	0.7	0.3	0.3	1.0	1.6	1.6
147.5°	2.1	2.1	1.6	1.3	0.7	0.3	0.3	0.3	0.7	1.0	1.0
150°	1.6	1.6	1.3	1.0	0.7	0.3	0.0	0.0	0.3	0.7	0.7
152.5°	1.0	1.0	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.7	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)