

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: P240956

Luminaire Tested: **UTLD-AF24-30-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.2 lumens
Efficiency: N/A
Efficacy: 99.0 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

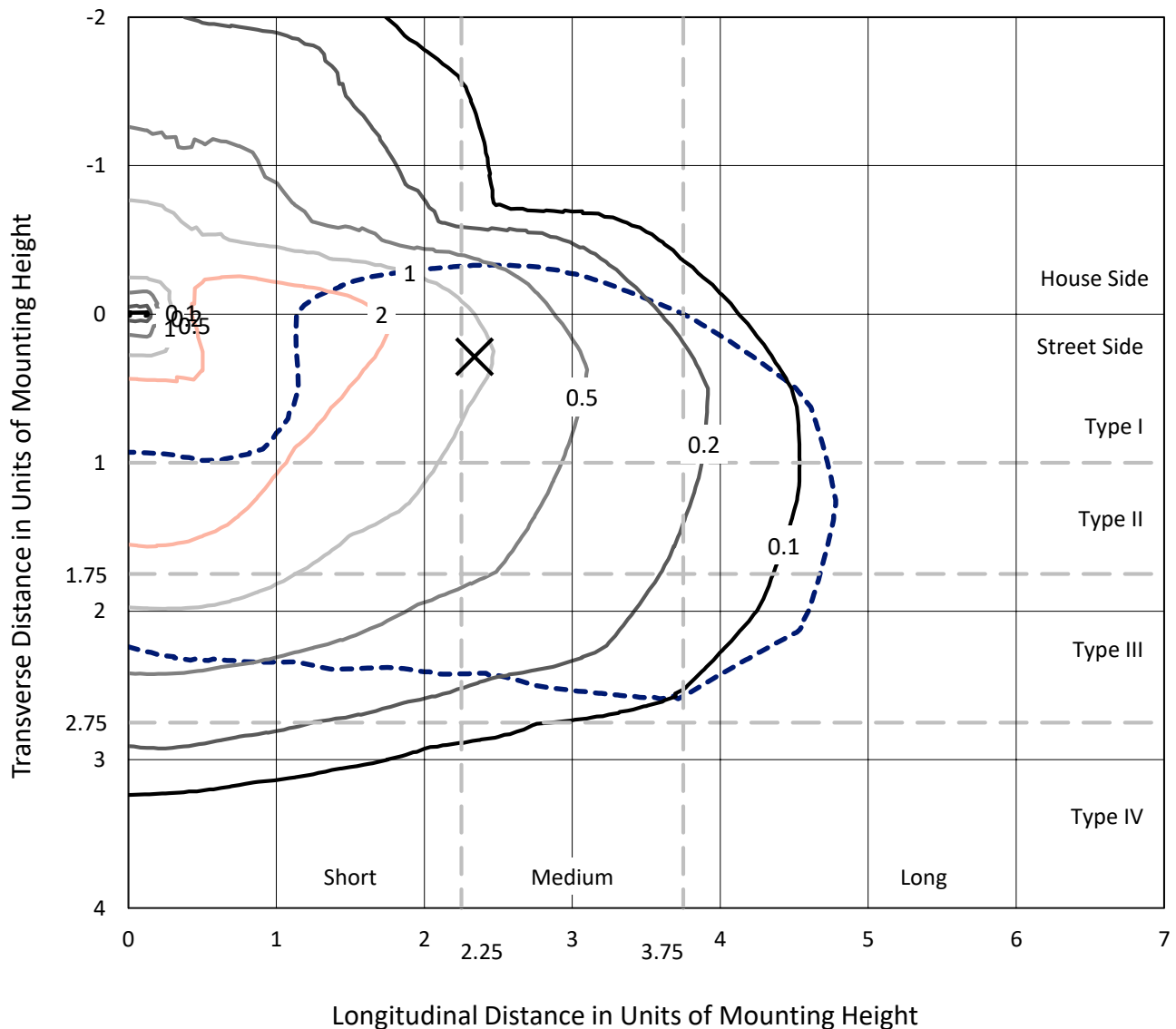


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

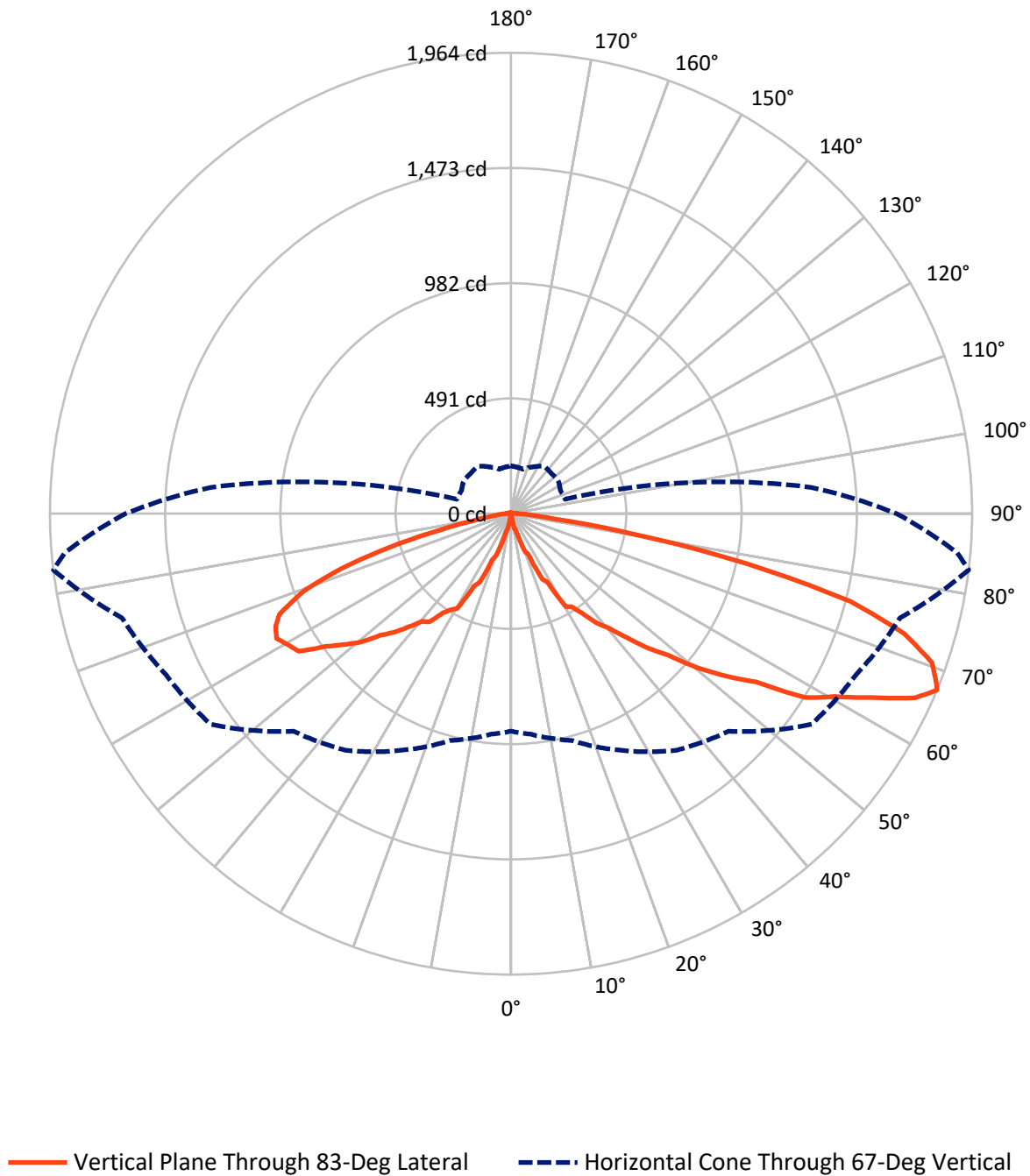


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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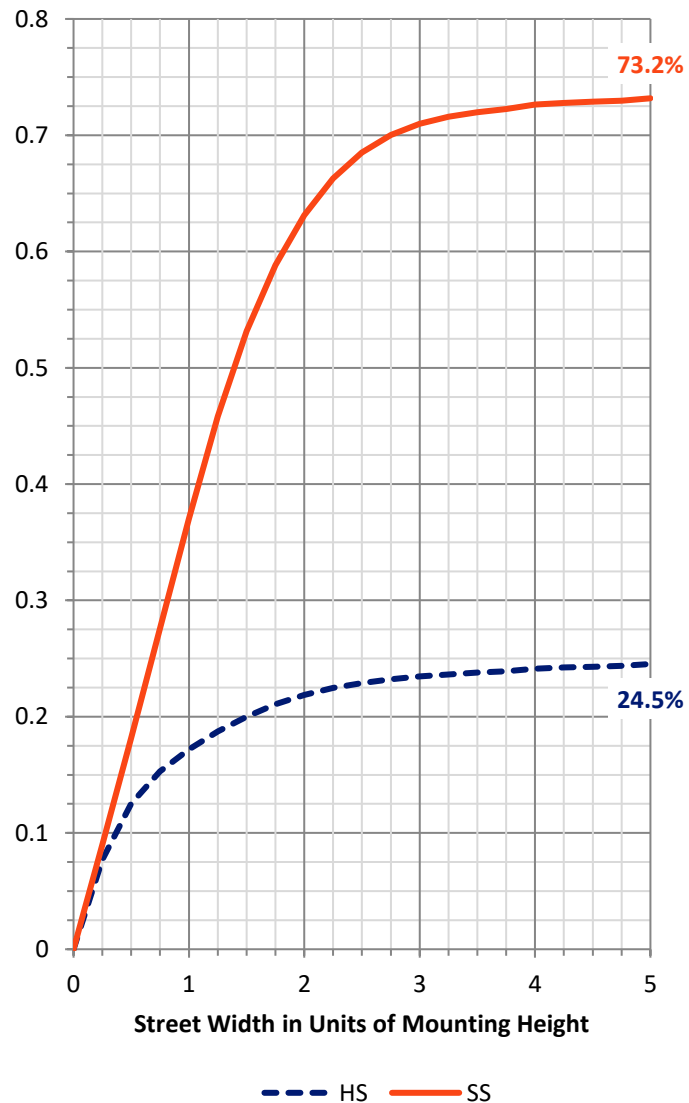
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.4	20.4	790.7
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	2262.3	17.2	2279.4
	% Fixture	73.7	0.6	74.2
Total	Lumens	3032.7	37.5	3070.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	27.8	0.9
20°-30°	111.6	3.6
30°-40°	246.4	8.0
40°-50°	439.2	14.3
50°-60°	704.8	23.0
60°-70°	857.5	27.9
70°-80°	552.6	18.0
80°-90°	90.8	3.0
90°-100°	18.7	0.6
100°-110°	8.5	0.3
110°-120°	4.3	0.1
120°-130°	3.1	0.1
130°-140°	1.9	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3032.7	98.8
0°-180°	3070.2	100.0

Coefficient of Utilization



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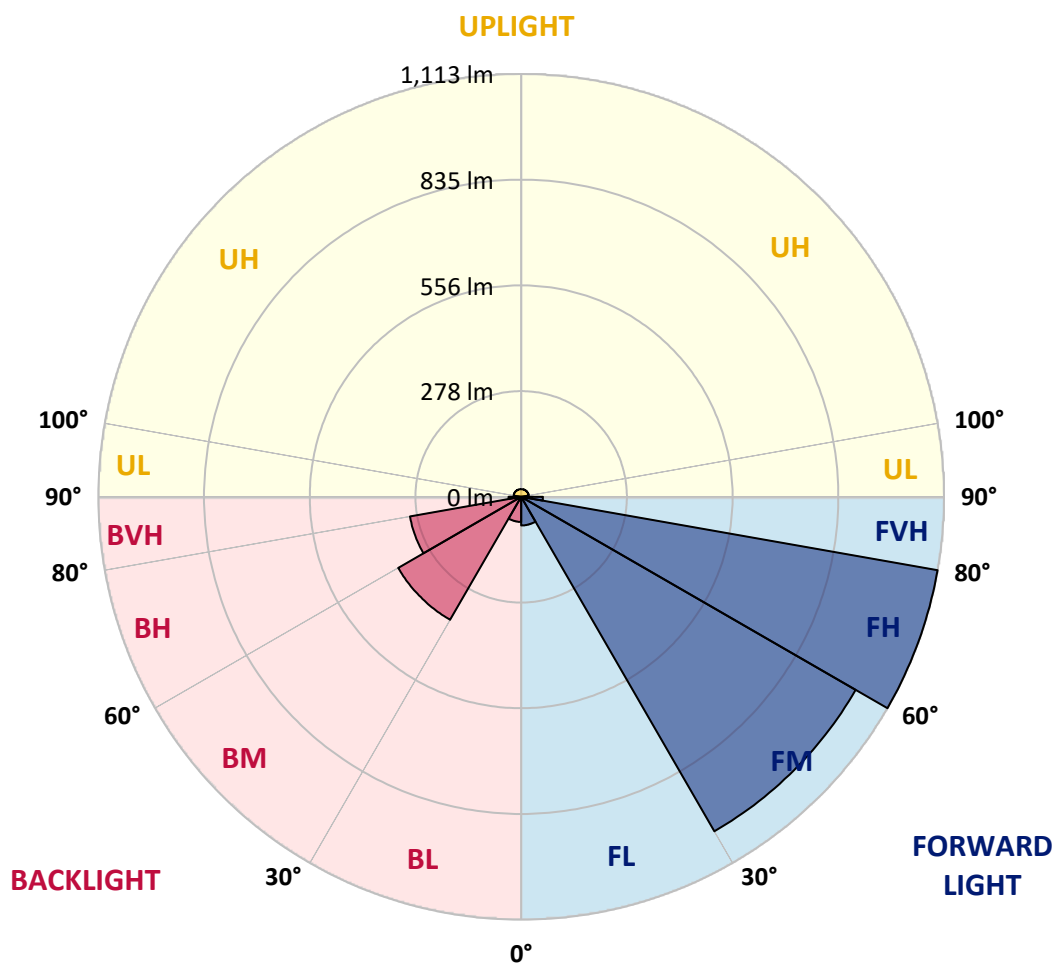
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.4	2.5			
FM	(30°-60°)	1016.6	33.1			
FH	(60°-80°)	1112.9	36.2			G1/1800
FVH	(80°-90°)	57.4	1.9			G1/100
BL	(0°-30°)	66.1	2.2	B0/110		
BM	(30°-60°)	373.8	12.2	B1/1000		
BH	(60°-80°)	297.2	9.7	B1/500		G1/500
BVH	(80°-90°)	33.4	1.1			G1/100
UL	(90°-100°)	18.7	0.6		U2/50	
UH	(100°-180°)	20.4	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	15.4	15.4	15.4	13.8	12.0	9.9	8.6	7.5	7.1	7.1	7.1
5°	34.2	35.7	34.2	33.9	30.5	37.2	15.1	10.2	7.5	6.8	6.8
7.5°	48.5	49.2	39.9	36.8	29.7	40.7	32.8	18.5	9.4	7.5	7.1
10°	84.2	72.5	61.7	60.9	57.2	42.8	29.4	26.3	14.6	11.3	11.7
12.5°	81.6	83.9	82.4	79.8	73.3	61.3	39.2	50.4	55.2	65.1	61.3
15°	100.1	98.6	87.3	88.1	83.5	88.7	79.3	83.9	79.0	68.9	71.9
17.5°	154.9	149.6	156.9	120.4	88.1	107.9	109.8	98.3	105.0	108.3	120.4
20°	177.2	169.7	178.6	153.1	146.0	122.6	117.0	177.9	165.8	174.2	175.7
22.5°	244.8	240.7	214.8	175.3	186.7	156.5	167.0	184.6	188.5	186.7	192.7
25°	308.8	308.4	305.5	269.7	199.0	221.9	193.0	210.7	271.9	309.5	312.9
27.5°	365.6	362.6	341.2	331.0	278.7	250.5	230.2	291.9	311.5	329.5	333.7
30°	462.2	481.9	435.6	376.5	337.4	288.6	309.5	308.1	375.0	460.0	464.6
32.5°	542.8	531.9	483.7	434.1	394.2	356.6	326.1	430.4	448.7	472.1	482.6
35°	661.7	665.8	615.0	484.1	451.4	399.5	426.5	467.2	479.9	518.8	521.7
37.5°	691.4	724.1	694.4	580.3	479.9	436.7	458.9	511.3	553.3	589.0	566.5
40°	822.2	805.7	742.2	650.4	538.9	489.1	561.3	592.0	598.4	640.3	645.5
42.5°	950.5	957.6	879.1	762.4	615.7	568.3	631.5	623.4	684.2	720.3	739.9
45°	1075.4	1078.8	1016.7	869.2	738.8	700.8	670.0	705.3	806.9	815.5	820.4
47.5°	1160.0	1160.5	1134.1	985.8	842.6	756.8	747.0	785.0	885.9	901.3	905.8
50°	1292.1	1288.7	1228.2	1063.7	979.8	867.7	905.8	891.4	978.8	1034.4	1046.4
52.5°	1344.0	1327.1	1294.7	1176.9	1103.3	992.3	975.0	1001.0	1100.7	1151.0	1190.9
55°	1310.1	1339.5	1333.5	1248.9	1139.8	1101.8	1056.6	1154.0	1187.8	1265.3	1336.1
57.5°	1239.8	1290.3	1314.0	1282.2	1222.8	1136.8	1217.5	1203.0	1332.8	1479.4	1526.8
60°	1191.7	1222.8	1271.0	1309.4	1266.1	1234.5	1313.2	1389.9	1439.5	1582.5	1645.7
62.5°	1105.1	1134.8	1212.0	1267.6	1243.2	1253.8	1419.3	1459.4	1605.8	1724.9	1811.2
65°	1002.5	1030.4	1120.6	1178.9	1237.2	1278.6	1486.6	1564.4	1668.3	1891.8	1903.8
67°	926.8	943.0	1000.6	1112.7	1230.0	1310.6	1563.3	1622.0	1715.3	1963.9	1907.1
67.5°	901.6	917.4	964.4	1080.7	1225.9	1315.4	1585.2	1638.9	1722.0	1956.4	1906.3
70°	694.1	750.1	751.1	862.2	1094.6	1279.3	1623.8	1697.3	1763.0	1902.2	1840.5
72.5°	415.6	415.6	434.9	543.9	776.0	1144.3	1623.8	1676.9	1733.7	1752.5	1648.7
75°	201.2	191.9	217.8	261.0	390.8	771.9	1463.6	1537.0	1544.2	1492.9	1337.3
77.5°	165.8	144.1	136.9	134.0	209.6	288.9	978.0	1199.8	1200.3	1024.3	896.4
80°	103.8	105.0	107.9	92.9	119.9	149.3	390.0	730.8	664.3	532.3	448.4
82.5°	73.3	75.9	77.1	68.9	83.9	69.9	129.8	308.4	268.6	185.4	157.3
85°	51.6	50.0	56.0	46.7	50.4	41.4	71.4	132.8	151.3	91.8	86.9
87.5°	30.8	30.8	37.5	31.5	34.6	29.7	43.2	65.1	75.3	51.9	48.5
90°	18.5	16.9	17.7	18.0	19.5	16.9	23.3	31.2	32.8	26.3	24.0
92.5°	13.8	13.8	15.1	14.3	17.7	15.4	20.3	24.5	29.7	22.6	21.1
95°	9.1	10.2	11.3	11.7	13.5	11.7	16.9	19.8	22.2	17.3	16.5
97.5°	8.3	9.1	9.9	9.9	11.3	9.4	13.8	17.7	17.7	13.5	12.4
100°	7.8	8.3	8.6	8.6	9.4	7.5	10.9	15.4	15.4	11.3	10.5
102.5°	7.1	7.5	7.1	6.8	7.8	6.0	9.1	13.5	10.9	8.6	9.1
105°	7.1	7.1	6.4	5.7	6.4	4.9	7.8	9.9	7.5	7.1	7.5
107.5°	6.8	6.8	5.3	4.9	5.3	4.2	6.4	6.8	6.0	6.8	7.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	6.4	6.0	4.9	4.2	4.2	3.8	4.9	4.9	4.9	6.4	7.1
112.5°	5.7	5.3	4.2	3.4	3.4	3.1	3.4	3.8	4.5	6.0	6.8
115°	5.3	4.9	3.8	3.1	2.6	2.6	3.1	3.1	4.2	6.0	6.8
117.5°	5.3	4.9	3.4	3.1	2.3	2.3	2.6	3.1	4.2	6.0	6.8
120°	4.9	4.9	3.4	2.6	2.3	1.8	2.3	2.6	4.2	6.4	6.8
122.5°	4.9	4.5	3.4	2.6	1.8	1.8	1.8	2.3	3.8	6.0	6.4
125°	4.5	4.5	3.1	2.3	1.8	1.5	1.8	2.3	4.2	6.0	6.4
127.5°	4.5	4.2	3.1	2.3	1.5	1.5	1.8	1.8	3.8	5.7	6.0
130°	4.5	4.2	3.1	1.8	1.5	1.5	1.5	1.8	3.8	5.3	5.7
132.5°	3.8	3.8	2.6	1.8	1.5	1.1	1.5	1.5	3.1	4.5	4.9
135°	3.8	3.4	2.6	1.8	1.5	1.1	1.1	1.5	3.1	4.2	4.2
137.5°	3.4	3.1	2.6	1.8	1.1	1.1	0.8	1.1	2.6	3.4	3.8
140°	3.1	3.1	2.3	1.8	1.1	0.8	0.8	1.1	1.8	2.6	3.1
142.5°	3.1	3.1	2.6	1.8	1.1	0.8	0.8	0.8	1.5	2.3	2.3
145°	2.6	2.6	2.3	1.5	0.8	0.3	0.3	0.8	1.1	1.5	1.8
147.5°	2.6	2.6	2.3	1.5	0.8	0.3	0.3	0.8	1.1	1.5	1.5
150°	2.3	2.3	1.8	1.1	0.3	0.0	0.0	0.3	0.8	1.1	1.1
152.5°	1.5	1.5	1.1	0.8	0.0	0.0	0.0	0.3	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	7.1	7.1	7.1	7.1	7.1	7.1	6.8	6.8	6.8	6.8	6.8
5°	6.4	6.4	6.8	6.8	6.8	6.8	6.8	7.1	7.5	7.5	7.8
7.5°	7.1	7.1	6.8	6.8	7.1	7.8	12.8	27.1	51.2	47.4	47.0
10°	11.3	11.3	10.2	9.4	10.2	36.8	57.9	54.9	46.2	45.2	43.6
12.5°	71.4	66.5	53.7	33.9	49.2	46.7	54.2	63.6	82.7	86.9	83.9
15°	71.9	74.9	80.9	87.6	111.0	49.2	95.5	117.0	124.9	124.9	127.5
17.5°	124.9	134.7	103.5	93.3	110.6	135.4	106.8	118.9	117.8	118.1	114.7
20°	203.1	183.5	202.3	181.7	124.1	151.6	133.2	127.5	171.9	204.7	204.7
22.5°	201.2	213.3	210.7	208.8	218.5	134.7	170.0	184.6	191.4	182.8	196.0
25°	335.9	323.1	305.5	208.3	209.6	187.3	183.5	172.3	187.3	202.0	199.0
27.5°	351.4	354.3	320.9	310.3	219.7	210.7	173.0	200.5	218.5	219.7	217.8
30°	479.6	485.6	378.8	285.8	246.7	192.2	202.3	193.4	202.0	212.2	217.8
32.5°	507.4	498.4	418.3	322.0	241.9	203.5	186.2	193.4	226.0	226.0	224.2
35°	540.5	533.7	431.0	305.8	263.7	190.3	172.3	192.7	202.0	218.5	219.7
37.5°	607.2	603.3	473.2	305.1	234.7	179.8	189.6	194.5	197.4	201.2	197.9
40°	651.0	622.1	485.9	318.6	227.2	208.3	197.4	183.2	185.8	176.5	172.3
42.5°	733.9	685.4	498.4	309.5	221.6	229.9	183.5	181.0	174.5	164.8	164.8
45°	818.2	756.1	514.9	291.1	213.6	223.1	189.2	185.0	179.4	177.9	174.5
47.5°	903.9	820.4	512.3	302.7	239.6	208.8	237.0	199.0	171.1	185.8	184.6
50°	1044.9	925.0	514.6	279.8	238.8	205.0	237.3	188.5	183.2	194.5	195.6
52.5°	1160.0	996.0	545.8	266.7	231.3	237.3	224.5	228.4	215.9	212.5	216.7
55°	1297.8	1087.1	525.5	250.9	225.3	223.8	264.4	229.9	218.5	229.5	230.5
57.5°	1470.4	1213.9	530.0	225.3	227.2	215.6	258.8	257.3	250.5	245.3	243.3
60°	1570.5	1254.6	487.9	240.4	220.0	237.7	274.6	266.7	231.0	268.2	274.2
62.5°	1649.0	1317.6	384.4	237.7	244.5	226.8	252.1	260.2	243.3	271.6	275.0
65°	1668.3	1314.3	294.6	244.0	241.9	252.1	298.3	255.7	212.5	216.7	218.5
67°	1641.9	1284.6	238.8	232.5	245.3	242.7	246.7	219.7	196.3	200.5	203.5
67.5°	1626.9	1260.6	226.5	231.7	253.5	242.2	241.9	211.4	191.9	197.1	198.2
70°	1486.9	1129.2	189.6	228.7	251.3	220.0	226.0	186.2	169.3	171.1	171.9
72.5°	1273.3	906.2	181.0	227.6	246.7	183.5	173.8	152.3	144.1	141.4	137.6
75°	977.3	624.4	178.6	205.4	202.7	138.8	139.2	126.7	127.5	121.9	119.6
77.5°	588.7	349.8	152.0	173.8	152.0	106.1	115.0	112.4	115.5	109.5	105.7
80°	282.1	170.8	119.9	128.0	107.2	83.1	98.3	102.2	103.0	94.4	90.2
82.5°	120.7	88.4	81.3	80.1	76.4	64.4	79.3	83.5	84.2	79.0	63.2
85°	71.1	60.2	56.0	53.7	53.0	39.9	56.9	67.3	67.3	55.7	48.2
87.5°	44.4	44.0	39.5	39.5	41.4	28.2	39.2	46.2	43.6	33.1	26.3
90°	21.1	22.6	23.7	24.0	28.2	15.9	25.2	26.7	25.2	18.0	12.8
92.5°	16.9	19.2	20.6	21.5	25.5	13.5	22.6	24.0	23.0	18.0	12.8
95°	13.8	17.3	20.6	20.3	21.5	10.5	19.8	21.9	21.1	15.9	10.9
97.5°	11.3	13.8	16.9	16.9	19.5	9.1	18.5	20.6	20.3	14.3	10.5
100°	10.2	12.4	15.1	14.6	17.3	7.1	16.5	18.0	17.7	11.7	9.4
102.5°	9.1	10.2	11.7	11.7	12.8	6.0	12.4	13.8	13.1	9.9	9.4
105°	8.3	8.6	8.3	7.8	8.3	5.3	7.8	9.1	7.8	7.5	7.5
107.5°	7.8	7.8	6.8	6.4	6.0	4.5	5.7	6.0	5.3	6.8	7.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.8	7.5	6.0	5.7	4.9	4.2	4.5	4.5	4.5	6.8	7.1
112.5°	7.5	7.5	5.7	4.9	4.5	3.8	3.8	3.4	4.2	6.8	7.5
115°	7.5	7.1	5.3	4.5	3.8	3.4	3.1	3.1	3.8	6.8	7.5
117.5°	7.5	7.1	5.3	4.2	3.8	3.1	2.6	2.6	3.8	6.8	7.5
120°	7.5	7.5	5.3	3.8	3.4	3.1	2.6	2.6	3.8	6.4	7.1
122.5°	7.1	7.1	4.9	3.8	3.1	2.6	2.3	2.3	3.8	6.4	6.8
125°	6.8	6.8	4.9	3.4	2.6	2.3	2.3	2.3	3.8	6.0	6.8
127.5°	6.4	6.4	4.5	3.1	2.3	2.3	1.8	1.8	3.8	6.0	6.4
130°	6.0	6.0	4.2	2.6	2.3	1.8	1.5	1.8	3.8	5.7	6.0
132.5°	5.3	5.3	3.8	2.3	1.8	1.5	1.5	1.5	3.4	5.3	5.7
135°	4.5	4.5	3.4	2.3	1.8	1.5	1.1	1.5	3.1	4.5	4.9
137.5°	4.2	4.2	3.1	1.8	1.5	1.1	1.1	1.5	3.1	4.2	4.5
140°	3.1	3.1	2.3	1.5	1.1	1.1	0.8	1.1	2.6	3.4	3.8
142.5°	2.3	2.3	1.8	1.5	1.1	0.8	0.8	1.1	2.3	3.1	3.1
145°	1.8	1.8	1.5	1.1	1.1	0.8	0.3	0.8	1.8	2.6	2.6
147.5°	1.5	1.5	1.5	1.1	0.8	0.3	0.3	0.3	1.1	1.8	1.8
150°	1.1	1.1	1.1	1.1	0.8	0.0	0.0	0.0	0.8	1.1	1.1
152.5°	0.8	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.3	0.3
155°	0.3	0.8	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	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

(END OF REPORT)