

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: P266333

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266333
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-AF24-40-D-U-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3470.6 lumens
Efficiency: N/A
Efficacy: 86.8 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

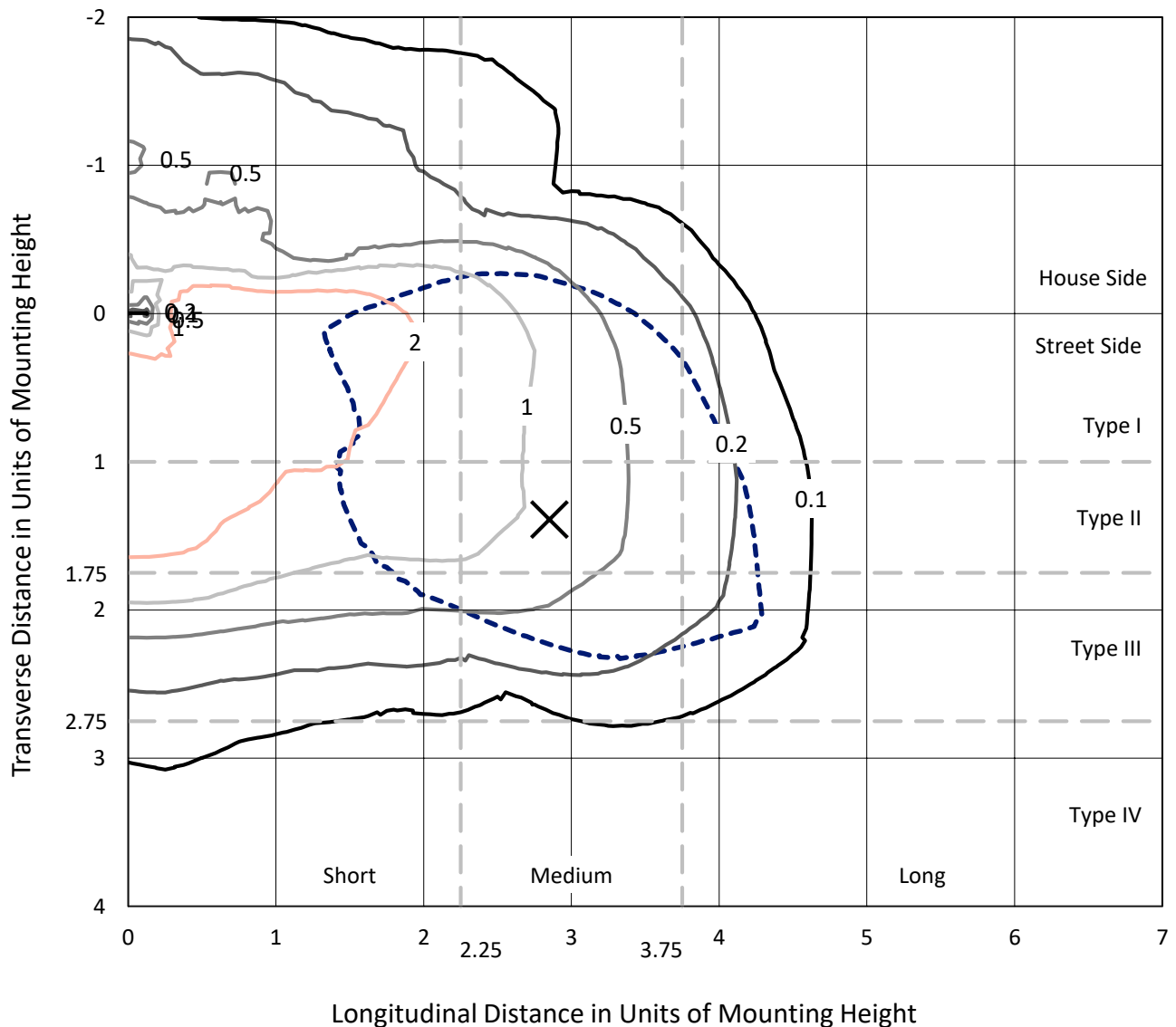
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

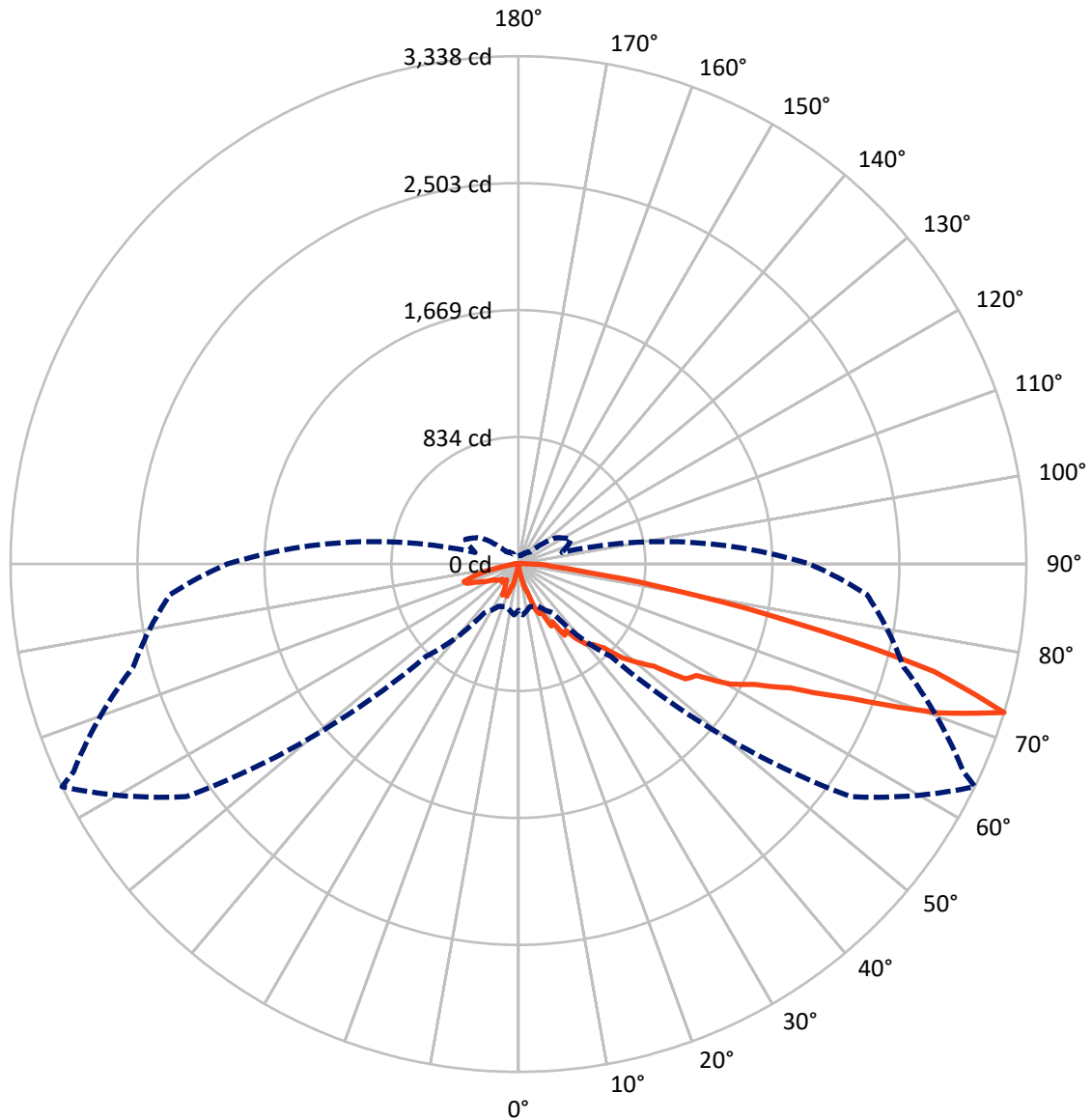


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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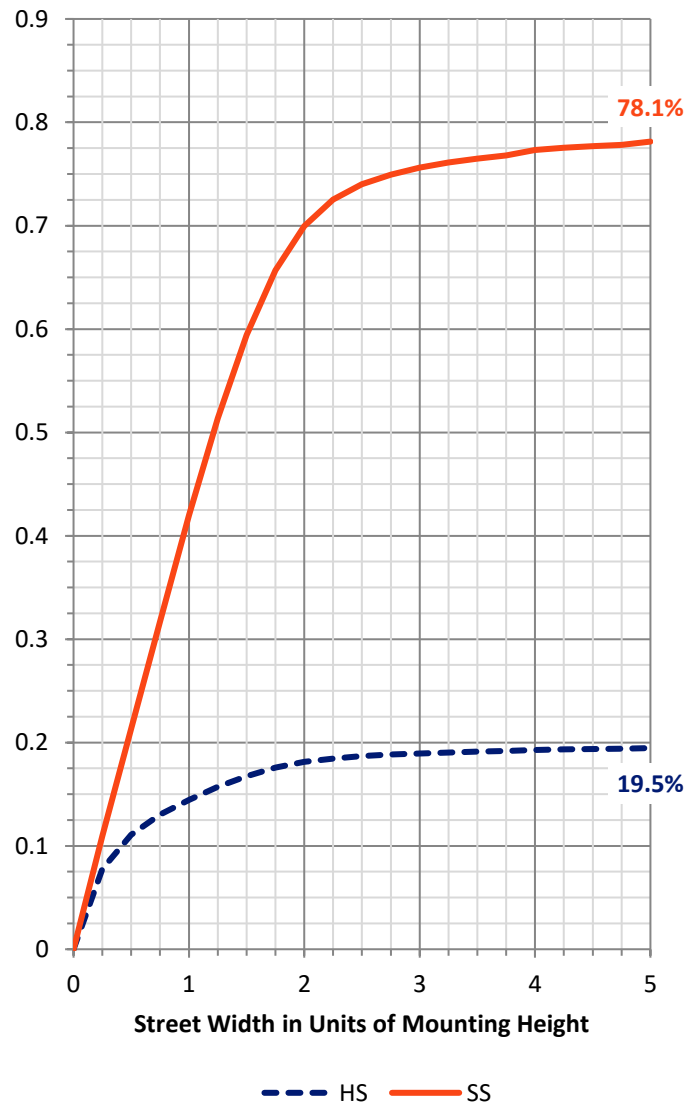
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.0	21.4	708.4
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	2740.0	22.2	2762.2
	% Fixture	78.9	0.6	79.6
Total	Lumens	3427.0	43.6	3470.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	46.3	1.3
20°-30°	136.4	3.9
30°-40°	270.4	7.8
40°-50°	466.7	13.4
50°-60°	754.4	21.7
60°-70°	956.1	27.5
70°-80°	685.0	19.7
80°-90°	107.4	3.1
90°-100°	21.7	0.6
100°-110°	9.7	0.3
110°-120°	5.0	0.1
120°-130°	3.7	0.1
130°-140°	2.3	0.1
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3427.0	98.7
0°-180°	3470.6	100.0

Coefficient of Utilization



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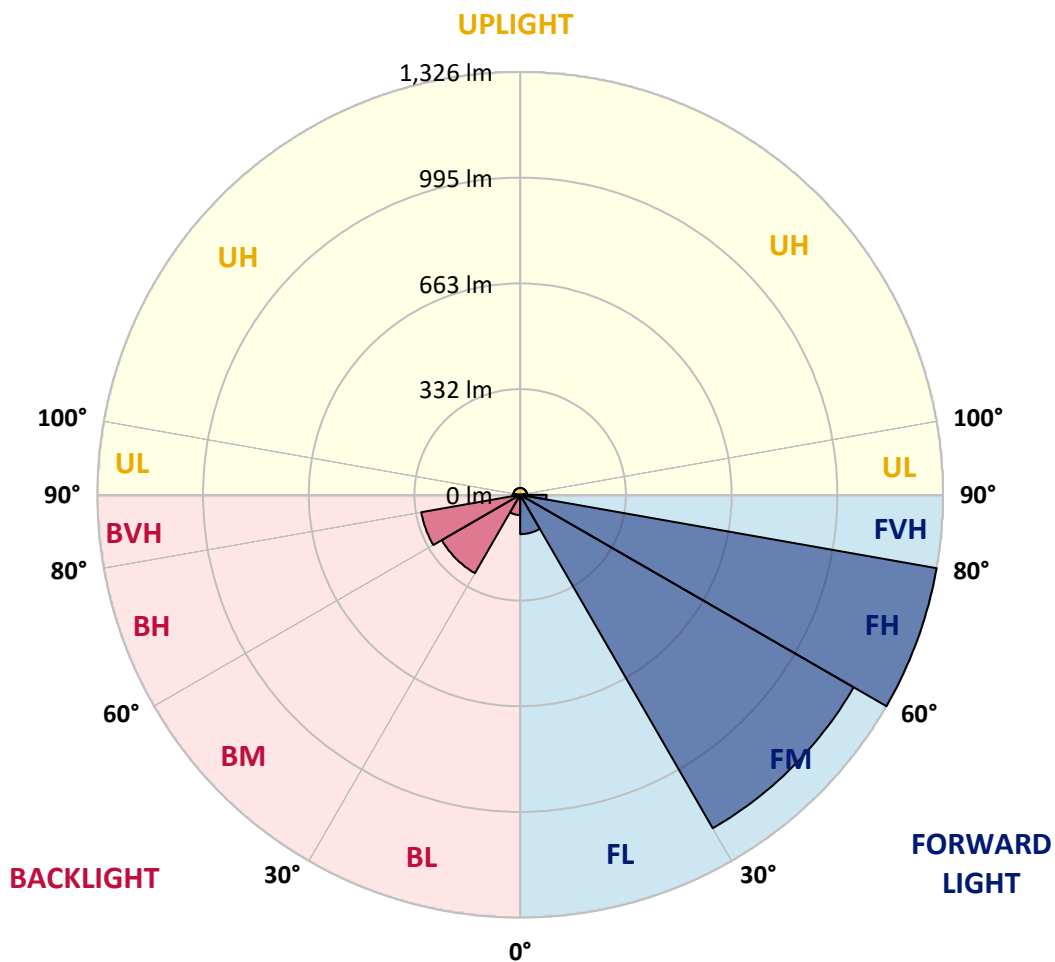
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.4	3.6			
FM	(30°-60°)	1207.7	34.8			
FH	(60°-80°)	1326.3	38.2			G1/1800
FVH	(80°-90°)	82.7	2.4			G1/100
BL	(0°-30°)	63.6	1.8	B0/110		
BM	(30°-60°)	283.8	8.2	B1/1000		
BH	(60°-80°)	314.9	9.1	B1/500		G1/500
BVH	(80°-90°)	24.8	0.7			G1/100
UL	(90°-100°)	21.7	0.6		U2/50	
UH	(100°-180°)	21.4	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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	24.2	21.5	22.4	19.8	16.7	13.7	11.4	10.2	10.2	9.6	8.9
5°	83.9	85.7	96.2	80.8	73.4	95.8	26.8	15.5	14.6	10.2	8.4
7.5°	112.1	117.3	83.9	69.9	65.4	105.6	78.6	43.1	35.7	13.1	9.3
10°	212.2	197.7	133.6	145.9	135.7	86.5	57.6	58.8	54.1	21.5	14.9
12.5°	189.8	192.0	196.4	178.5	183.7	136.3	69.9	114.8	122.6	138.0	129.6
15°	221.4	212.2	178.5	194.3	185.1	215.4	181.1	168.7	185.4	190.7	158.6
17.5°	300.6	293.9	341.4	232.9	169.2	242.2	215.4	197.3	187.7	209.1	252.7
20°	276.4	276.9	296.6	263.3	273.4	222.8	216.6	318.5	382.3	362.6	352.4
22.5°	416.2	403.3	335.2	261.4	288.6	255.3	304.5	355.5	337.5	329.0	355.5
25°	404.2	409.1	388.8	392.9	289.2	341.4	317.2	339.2	360.8	517.7	583.5
27.5°	497.0	469.8	446.5	406.9	398.0	321.2	306.7	460.9	473.2	519.0	547.1
30°	653.8	640.2	597.6	464.5	415.6	345.4	419.7	441.2	449.2	610.8	755.8
32.5°	830.0	780.0	656.9	607.8	452.1	426.2	395.1	558.0	548.9	677.1	763.6
35°	959.7	929.8	813.9	661.0	543.6	455.7	531.6	536.6	583.5	708.9	770.7
37.5°	932.4	940.7	892.8	788.7	598.0	492.6	575.3	624.9	629.3	767.7	816.9
40°	1003.1	1008.4	991.8	875.3	689.9	566.8	646.4	693.0	656.0	840.2	873.2
42.5°	1044.5	1052.9	1085.0	1001.0	778.2	648.1	758.0	725.0	692.6	902.5	993.0
45°	1134.6	1130.2	1144.3	1044.5	909.2	815.7	795.8	785.7	798.0	1014.6	1108.7
47.5°	1260.2	1277.7	1208.4	1065.6	1007.5	856.9	901.7	921.0	967.7	1159.6	1225.9
50°	1446.1	1423.8	1340.7	1159.3	1104.6	911.4	1104.6	1016.0	991.8	1291.9	1401.4
52.5°	1521.6	1507.1	1389.5	1198.8	1165.3	1014.6	1139.1	1116.6	1108.1	1474.7	1596.4
55°	1551.6	1541.0	1492.3	1205.7	1220.3	1168.9	1306.3	1332.4	1318.3	1590.7	1793.2
57.5°	1472.5	1490.1	1493.6	1234.4	1257.5	1186.9	1569.6	1382.0	1482.7	1736.2	1946.2
60°	1365.2	1366.1	1412.8	1230.8	1292.3	1302.1	1626.7	1601.3	1695.3	1813.0	1988.4
62.5°	1100.3	1131.5	1208.4	1206.2	1340.7	1451.4	1907.6	1743.3	1780.1	1891.2	2120.7
65°	729.9	746.6	839.7	1000.2	1254.6	1570.4	2138.2	1963.8	2016.1	2040.2	2313.1
67.5°	435.5	456.1	469.4	639.0	1047.6	1594.2	2616.8	2355.3	2307.8	2265.6	2506.0
70°	363.9	377.5	339.2	382.3	640.2	1447.4	2847.4	2928.2	2774.1	2570.6	2546.9
72.5°	305.0	334.9	289.2	305.9	389.8	859.0	2665.5	3337.5	3225.4	2621.6	2297.8
75°	226.4	268.1	240.7	274.6	360.0	441.2	2011.2	2820.1	2785.0	2272.3	1705.4
77.5°	176.6	184.2	150.7	207.4	345.8	364.7	1206.7	1859.2	1828.9	1448.7	791.0
80°	124.0	127.0	119.0	108.1	267.2	341.9	611.2	1030.8	966.8	450.1	262.8
82.5°	78.2	83.5	93.2	73.4	129.6	319.0	337.0	454.0	404.2	152.9	130.6
85°	47.0	51.5	57.6	51.5	60.6	243.9	261.0	233.3	213.1	93.2	82.6
87.5°	27.3	28.6	34.8	35.7	45.3	141.9	208.2	173.6	152.5	62.0	53.5
90°	19.0	17.5	17.5	18.4	23.3	62.0	102.0	60.6	61.1	32.5	28.1
92.5°	14.6	14.6	15.8	15.8	22.4	54.4	47.0	32.5	30.7	27.3	22.4
95°	11.0	11.9	11.9	12.8	15.5	16.7	23.3	24.2	24.2	24.7	19.8
97.5°	9.3	10.2	10.2	10.5	12.2	12.8	16.3	21.1	21.1	20.7	16.3
100°	8.9	9.3	8.9	8.9	10.2	9.6	13.1	18.1	19.0	18.1	14.1
102.5°	8.4	8.9	7.9	7.0	8.9	7.0	11.0	16.3	16.7	13.1	11.0
105°	8.4	8.4	7.0	5.7	7.0	5.7	9.3	11.4	11.4	9.3	10.5
107.5°	8.4	7.9	6.2	4.9	5.3	4.9	7.5	7.5	7.5	7.0	10.2
110°	7.5	7.0	5.7	4.4	4.0	4.0	5.3	5.3	5.3	6.2	10.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	6.6	6.2	4.9	3.6	3.1	3.1	3.6	4.0	4.0	5.7	9.6
115°	5.7	5.7	4.4	3.6	2.6	2.6	3.1	3.6	3.6	5.3	9.3
117.5°	5.7	5.7	4.0	3.1	2.2	2.2	2.6	3.1	3.1	5.3	9.6
120°	5.7	5.7	4.0	2.6	2.2	1.7	2.2	2.6	2.6	5.7	10.2
122.5°	5.3	5.3	4.0	2.6	1.7	1.7	1.7	2.6	2.6	5.3	9.3
125°	5.3	5.3	3.6	2.6	1.7	1.7	1.7	2.2	2.6	5.7	9.3
127.5°	4.9	4.9	4.0	2.6	1.7	1.3	1.7	2.2	2.2	5.3	8.9
130°	4.9	4.9	3.6	2.2	1.3	1.3	1.3	1.7	2.2	4.9	7.9
132.5°	4.4	4.4	3.1	2.2	1.3	0.9	1.3	1.7	1.7	4.4	7.0
135°	4.4	4.4	3.6	2.2	1.3	0.9	1.3	1.7	1.7	4.0	6.2
137.5°	4.0	4.0	3.1	2.2	1.3	0.9	0.9	1.3	1.7	4.0	5.7
140°	4.0	4.0	3.6	2.6	1.3	0.9	0.9	1.3	1.3	3.1	4.4
142.5°	4.4	4.4	3.6	2.2	1.3	0.9	0.9	0.9	1.3	2.2	3.6
145°	4.0	4.0	3.1	2.2	1.3	0.4	0.4	0.9	1.3	2.2	3.1
147.5°	4.0	4.0	3.6	2.2	0.9	0.4	0.4	0.9	0.9	1.7	2.6
150°	3.6	3.6	2.6	1.3	0.4	0.0	0.4	0.9	0.9	1.3	2.2
152.5°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.4	0.4	0.9	1.3
155°	1.3	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9
157.5°	0.4	0.4	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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	8.9	8.9	8.9	8.9	8.4	8.4	7.9	7.9	7.9	7.9	7.9
5°	8.4	8.4	8.4	7.9	7.5	7.0	7.5	7.0	7.0	7.0	7.0
7.5°	8.9	8.9	7.9	7.5	7.5	7.5	9.6	58.4	129.1	110.8	115.2
10°	16.3	15.5	13.1	11.0	10.2	58.0	110.8	101.5	77.3	64.6	66.4
12.5°	161.2	144.9	93.7	65.0	74.6	76.8	69.3	76.0	124.0	113.4	113.8
15°	161.2	165.2	135.4	152.5	131.8	61.5	118.7	141.6	137.5	126.5	132.7
17.5°	272.5	270.7	168.7	155.0	127.4	128.7	111.6	97.0	90.1	88.8	90.1
20°	403.8	336.5	321.7	234.2	143.3	131.4	92.3	78.2	99.7	123.1	126.1
22.5°	355.5	355.5	288.6	209.1	177.1	112.5	100.6	99.7	119.6	118.1	124.0
25°	600.2	521.6	374.0	201.7	154.7	114.3	102.0	92.7	104.2	120.0	118.7
27.5°	553.6	513.7	369.6	242.5	121.4	124.3	94.1	91.4	117.3	126.1	127.0
30°	698.7	643.7	373.5	182.4	122.2	95.8	87.0	93.2	97.9	106.3	107.2
32.5°	723.8	655.1	358.6	164.3	128.7	92.3	88.4	87.9	99.7	114.8	116.1
35°	708.4	628.9	337.9	138.3	129.1	93.2	90.5	100.3	91.4	106.8	109.0
37.5°	813.9	642.0	305.0	129.1	118.7	95.8	118.7	95.8	95.4	100.3	101.1
40°	812.4	671.5	267.6	157.7	118.7	157.7	124.0	99.7	85.7	94.1	94.5
42.5°	878.0	688.1	234.6	162.7	127.9	182.7	115.5	97.0	102.0	107.2	112.5
45°	953.6	740.8	219.7	146.3	144.1	141.6	120.5	126.5	92.3	148.1	154.1
47.5°	1056.8	808.6	199.6	143.3	195.6	142.4	229.3	117.8	101.5	175.3	178.9
50°	1211.0	927.6	201.3	157.4	179.3	152.5	154.1	127.9	137.1	182.4	183.3
52.5°	1375.3	1027.3	189.5	173.6	176.2	187.1	164.3	191.2	134.8	175.3	175.3
55°	1520.8	1174.5	195.1	182.7	184.2	163.0	231.6	141.0	134.4	176.2	180.6
57.5°	1710.6	1331.8	234.2	191.2	189.0	174.0	178.9	174.9	158.2	179.3	181.9
60°	1811.3	1446.6	293.6	214.9	197.7	200.9	211.8	168.3	143.6	209.7	218.0
62.5°	1970.8	1611.7	371.8	243.4	250.8	205.6	180.6	183.3	152.9	166.9	168.7
65°	2154.9	1783.7	410.4	271.6	270.2	228.4	204.8	142.4	99.4	91.8	91.4
67.5°	2293.4	1850.0	375.8	303.6	337.0	219.2	140.7	101.1	76.4	72.0	73.4
70°	2204.1	1698.3	321.7	364.4	340.9	170.0	121.4	80.4	65.4	61.5	63.7
72.5°	1912.3	1372.3	295.4	384.5	299.2	114.8	90.5	70.7	58.8	54.9	55.9
75°	1351.7	882.0	303.2	325.6	212.7	83.1	78.2	58.8	52.3	47.0	47.0
77.5°	593.7	377.8	237.7	234.6	136.3	65.9	66.4	48.8	45.3	40.5	40.5
80°	239.0	200.0	139.7	135.7	91.0	51.8	52.7	40.5	40.9	34.2	32.1
82.5°	126.5	114.3	77.8	72.9	65.0	40.0	37.4	34.8	34.2	28.1	24.7
85°	83.1	75.2	50.9	47.5	48.2	29.5	31.3	33.0	30.4	23.3	16.3
87.5°	51.5	50.9	36.0	34.2	36.0	21.1	25.5	26.8	25.5	17.5	10.5
90°	24.2	26.4	24.2	23.7	23.7	10.2	19.8	21.1	20.7	14.1	8.4
92.5°	19.0	21.5	22.4	22.8	22.8	10.5	20.7	22.0	21.1	14.6	9.3
95°	16.3	19.0	22.0	22.0	21.5	8.4	19.4	21.5	20.2	13.7	8.9
97.5°	13.7	15.8	19.0	19.0	20.7	7.0	18.1	20.7	20.2	14.6	9.3
100°	12.8	14.9	16.7	17.2	19.0	6.6	16.3	18.4	18.1	11.9	9.6
102.5°	11.9	12.8	13.1	13.7	14.1	6.2	12.8	14.1	13.7	8.9	8.9
105°	11.0	11.0	9.6	9.3	9.3	5.7	7.9	9.6	7.9	7.0	7.9
107.5°	11.0	10.5	7.9	7.0	7.0	5.3	6.2	6.2	5.3	7.0	7.5
110°	11.0	10.2	7.0	6.2	5.7	4.9	4.9	4.4	4.4	7.0	7.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	10.5	9.6	6.2	5.3	5.3	4.4	4.0	3.6	4.0	7.0	7.9
115°	10.2	9.3	5.7	5.3	4.9	4.0	3.6	2.6	4.0	7.5	8.4
117.5°	10.2	9.3	5.7	4.9	4.4	3.6	3.1	2.6	4.0	7.5	8.4
120°	10.5	9.3	5.7	4.4	4.0	3.1	2.6	2.6	4.0	7.5	8.4
122.5°	10.2	8.9	5.3	4.0	3.6	3.1	2.6	2.6	4.0	7.5	7.9
125°	9.6	8.9	5.3	3.6	3.1	2.6	2.2	2.2	4.4	7.5	7.9
127.5°	9.3	8.4	4.9	3.1	2.6	2.6	2.2	2.2	4.4	7.0	7.5
130°	8.4	7.5	4.9	3.1	2.2	2.2	1.7	1.7	4.4	7.0	7.5
132.5°	7.5	7.0	4.4	2.6	1.7	1.7	1.7	1.7	4.0	6.2	6.6
135°	6.6	5.7	4.0	2.2	1.7	1.3	1.3	1.3	3.6	5.3	5.7
137.5°	5.7	5.3	3.6	2.2	1.3	1.3	0.9	0.9	3.1	4.9	5.3
140°	4.9	4.4	3.1	1.7	1.3	1.3	0.9	0.9	2.2	3.6	4.0
142.5°	3.6	3.6	2.6	1.7	1.3	0.9	0.9	0.9	2.2	3.1	3.6
145°	3.1	3.1	2.6	1.7	1.3	0.9	0.4	0.4	1.3	2.2	2.2
147.5°	2.6	2.6	2.2	1.7	0.9	0.4	0.4	0.4	0.9	1.3	1.3
150°	2.2	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.4	0.9	0.9
152.5°	1.3	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.4	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)