

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: P266313

Luminaire Tested: **UTLD-AF24-30-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266313
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2757.9 lumens
Efficiency: N/A
Efficacy: 89.0 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

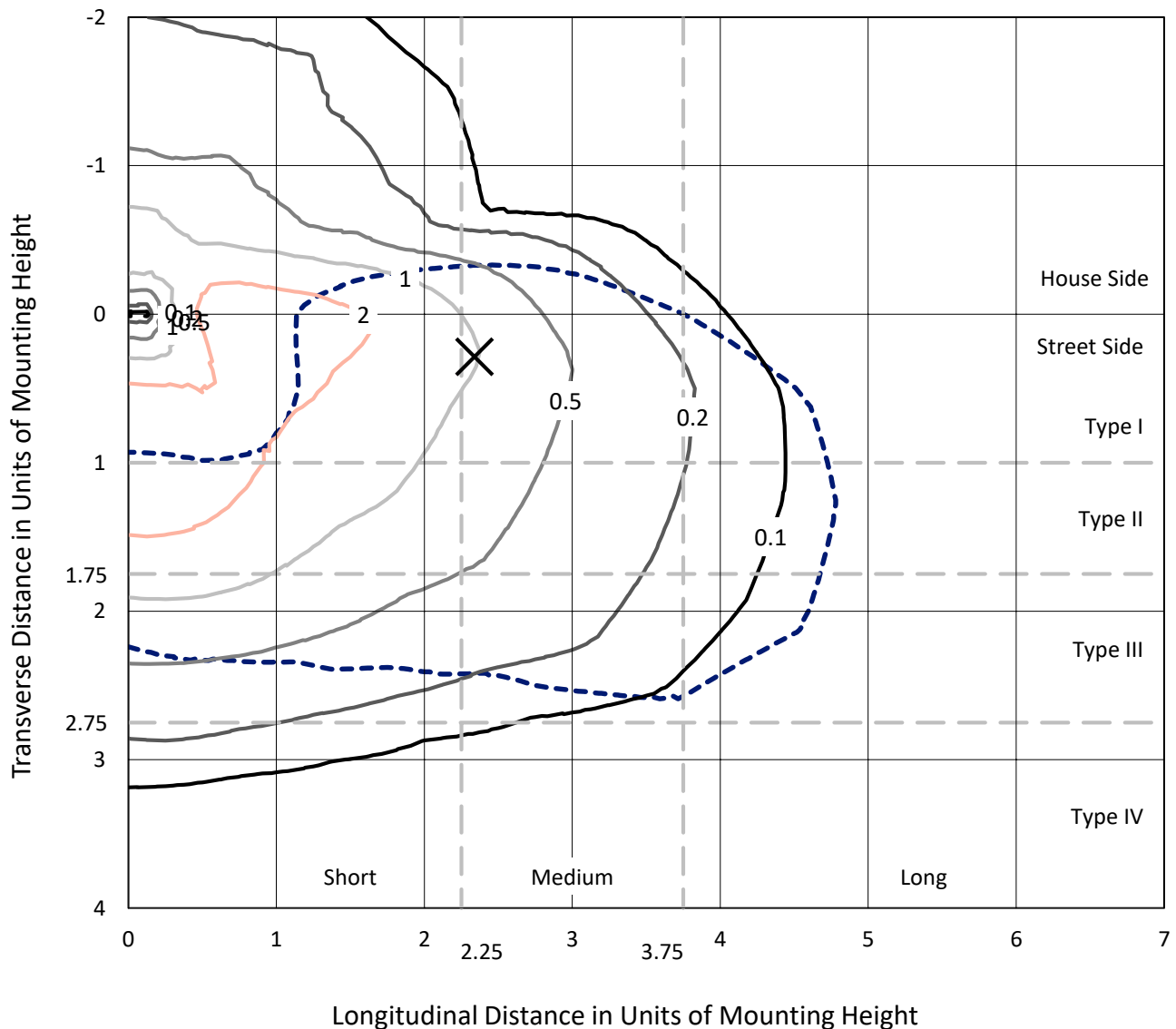


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

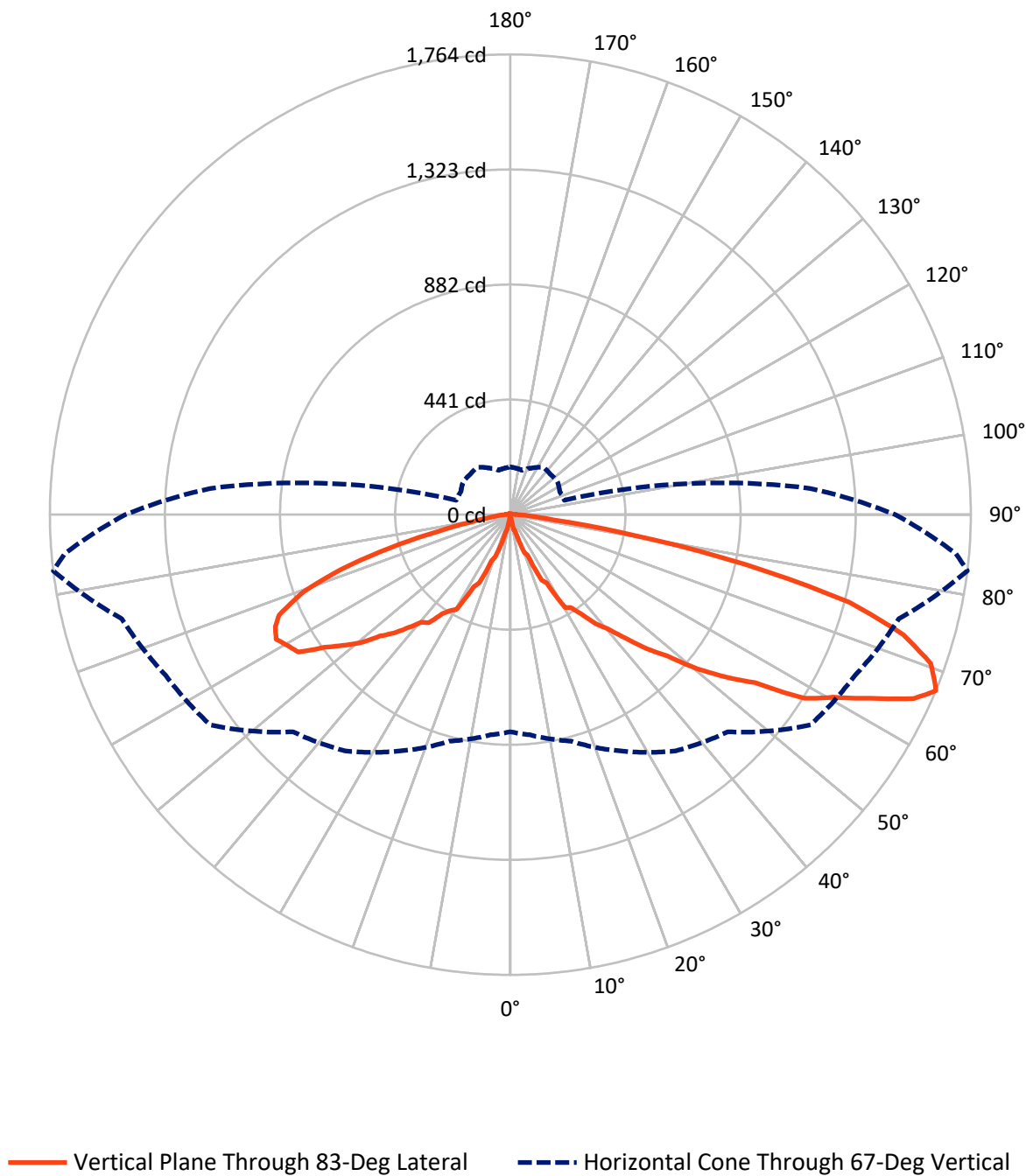


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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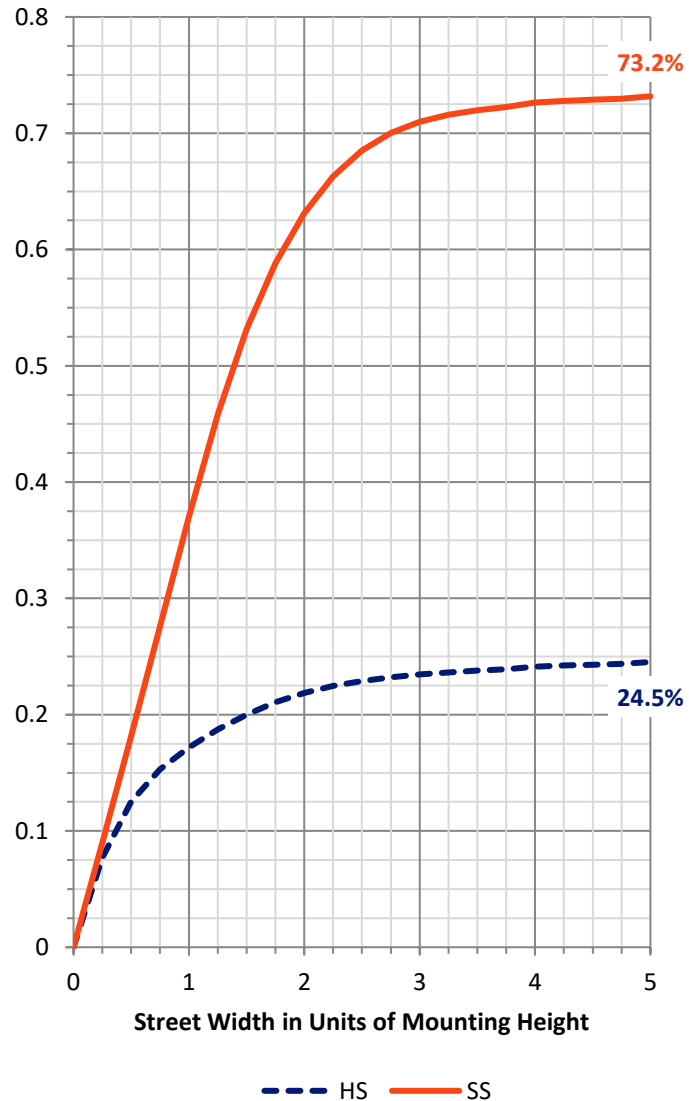
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.0	18.3	710.3
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	2032.2	15.4	2047.6
	% Fixture	73.7	0.6	74.2
Total	Lumens	2724.2	33.7	2757.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	24.9	0.9
20°-30°	100.2	3.6
30°-40°	221.4	8.0
40°-50°	394.5	14.3
50°-60°	633.1	23.0
60°-70°	770.3	27.9
70°-80°	496.4	18.0
80°-90°	81.5	3.0
90°-100°	16.8	0.6
100°-110°	7.7	0.3
110°-120°	3.9	0.1
120°-130°	2.8	0.1
130°-140°	1.7	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2724.2	98.8
0°-180°	2757.9	100.0

Coefficient of Utilization



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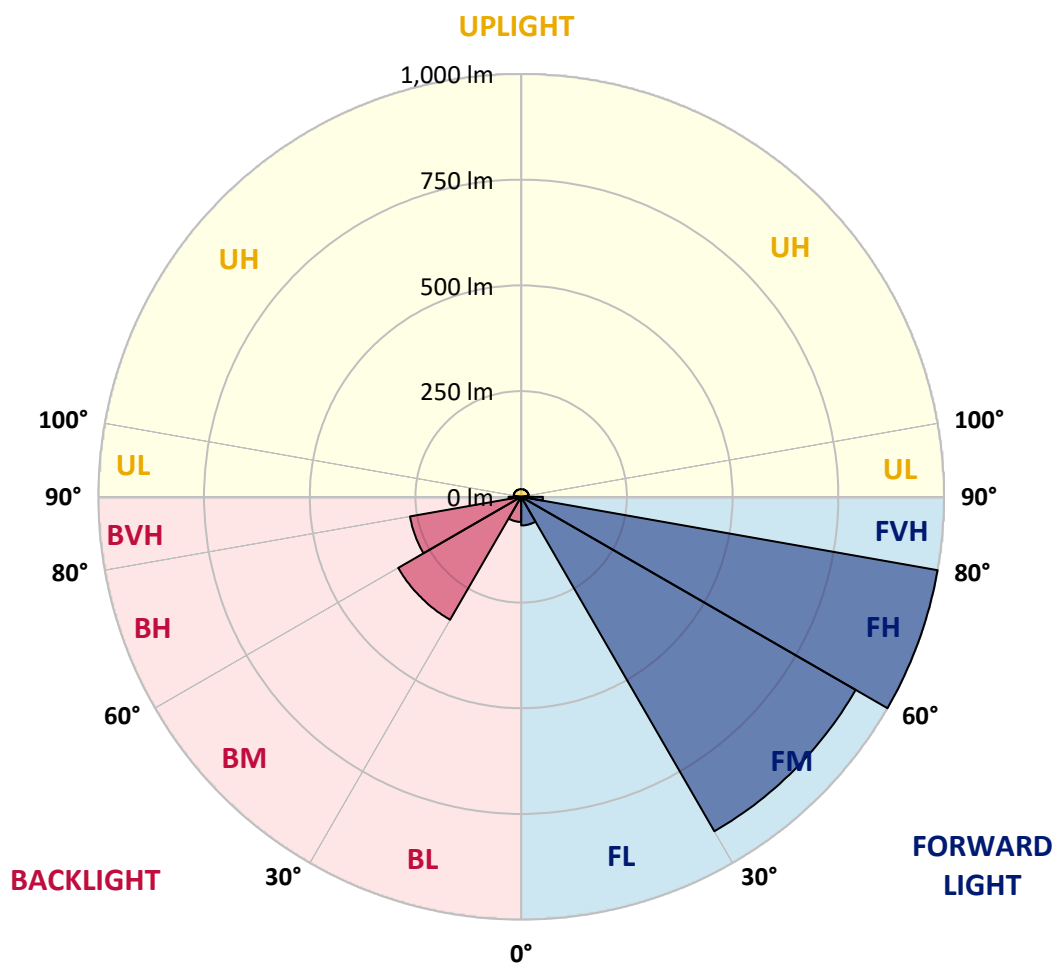
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.7	2.5			
FM	(30°-60°)	913.2	33.1			
FH	(60°-80°)	999.7	36.2			G1/1800
FVH	(80°-90°)	51.6	1.9			G1/100
BL	(0°-30°)	59.4	2.2	B0/110		
BM	(30°-60°)	335.8	12.2	B1/1000		
BH	(60°-80°)	266.9	9.7	B1/500		G1/500
BVH	(80°-90°)	30.0	1.1			G1/100
UL	(90°-100°)	16.8	0.6		U2/50	
UH	(100°-180°)	18.3	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	13.8	13.8	13.8	12.4	10.8	8.9	7.7	6.7	6.4	6.4	6.4
5°	30.7	32.1	30.7	30.5	27.4	33.4	13.6	9.2	6.7	6.1	6.1
7.5°	43.6	44.2	35.8	33.1	26.7	36.6	29.5	16.6	8.4	6.7	6.4
10°	75.6	65.1	55.4	54.7	51.4	38.4	26.4	23.6	13.1	10.2	10.5
12.5°	73.3	75.4	74.0	71.7	65.8	55.1	35.2	45.3	49.6	58.5	55.1
15°	89.9	88.6	78.4	79.1	75.0	79.7	71.2	75.4	71.0	61.9	64.6
17.5°	139.1	134.4	140.9	108.2	79.1	96.9	98.6	88.3	94.3	97.3	108.2
20°	159.2	152.4	160.4	137.5	131.2	110.1	105.1	159.8	148.9	156.5	157.8
22.5°	219.9	216.2	193.0	157.5	167.7	140.6	150.0	165.8	169.3	167.7	173.1
25°	277.4	277.0	274.4	242.3	178.8	199.3	173.4	189.3	244.2	278.0	281.1
27.5°	328.4	325.7	306.5	297.3	250.4	225.0	206.8	262.2	279.8	296.0	299.8
30°	415.2	432.9	391.3	338.2	303.1	259.3	278.0	276.8	336.9	413.2	417.4
32.5°	487.6	477.8	434.5	390.0	354.1	320.3	292.9	386.6	403.1	424.1	433.5
35°	594.4	598.1	552.5	434.9	405.5	358.9	383.1	419.7	431.1	466.0	468.6
37.5°	621.1	650.5	623.8	521.3	431.1	392.3	412.2	459.3	497.0	529.1	508.9
40°	738.6	723.8	666.7	584.3	484.1	439.4	504.2	531.8	537.5	575.2	579.9
42.5°	853.8	860.2	789.7	684.9	553.1	510.5	567.3	560.0	614.6	647.0	664.7
45°	966.0	969.1	913.3	780.8	663.7	629.5	601.9	633.6	724.8	732.6	737.0
47.5°	1042.0	1042.5	1018.8	885.5	756.9	679.8	671.0	705.2	795.8	809.6	813.7
50°	1160.7	1157.6	1103.3	955.5	880.2	779.5	813.7	800.7	879.3	929.2	940.0
52.5°	1207.3	1192.1	1163.0	1057.2	991.1	891.4	875.8	899.2	988.8	1033.9	1069.8
55°	1176.9	1203.3	1197.9	1121.9	1023.9	989.8	949.1	1036.6	1067.0	1136.6	1200.2
57.5°	1113.7	1159.1	1180.4	1151.8	1098.4	1021.2	1093.7	1080.7	1197.3	1329.0	1371.5
60°	1070.5	1098.4	1141.7	1176.2	1137.3	1109.0	1179.7	1248.6	1293.1	1421.6	1478.3
62.5°	992.7	1019.4	1088.7	1138.7	1116.8	1126.3	1275.0	1311.0	1442.5	1549.5	1627.0
65°	900.6	925.6	1006.6	1059.0	1111.4	1148.6	1335.4	1405.3	1498.6	1699.4	1710.2
67°	832.5	847.1	898.8	999.5	1104.9	1177.3	1404.3	1457.1	1540.9	1764.2	1713.2
67.5°	809.9	824.1	866.3	970.8	1101.2	1181.6	1424.0	1472.2	1546.9	1757.4	1712.4
70°	623.5	673.8	674.7	774.5	983.3	1149.2	1458.7	1524.7	1583.7	1708.8	1653.3
72.5°	373.3	373.3	390.7	488.6	697.1	1027.9	1458.7	1506.4	1557.4	1574.3	1481.0
75°	180.7	172.4	195.7	234.5	351.1	693.4	1314.8	1380.7	1387.2	1341.1	1201.3
77.5°	148.9	129.4	123.0	120.4	188.3	259.5	878.5	1077.8	1078.2	920.1	805.2
80°	93.2	94.3	96.9	83.5	107.7	134.1	350.3	656.5	596.7	478.2	402.8
82.5°	65.8	68.2	69.3	61.9	75.4	62.8	116.6	277.0	241.3	166.5	141.3
85°	46.4	44.9	50.3	42.0	45.3	37.2	64.1	119.3	135.9	82.5	78.1
87.5°	27.7	27.7	33.7	28.3	31.1	26.7	38.8	58.5	67.6	46.6	43.6
90°	16.6	15.2	15.9	16.2	17.5	15.2	20.9	28.0	29.5	23.6	21.6
92.5°	12.4	12.4	13.6	12.8	15.9	13.8	18.2	22.0	26.7	20.3	19.0
95°	8.2	9.2	10.2	10.5	12.1	10.5	15.2	17.8	19.9	15.5	14.8
97.5°	7.5	8.2	8.9	8.9	10.2	8.4	12.4	15.9	15.9	12.1	11.1
100°	7.0	7.5	7.7	7.7	8.4	6.7	9.8	13.8	13.8	10.2	9.4
102.5°	6.4	6.7	6.4	6.1	7.0	5.4	8.2	12.1	9.8	7.7	8.2
105°	6.4	6.4	5.7	5.1	5.7	4.4	7.0	8.9	6.7	6.4	6.7
107.5°	6.1	6.1	4.8	4.4	4.8	3.8	5.7	6.1	5.4	6.1	6.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	5.7	5.4	4.4	3.8	3.8	3.4	4.4	4.4	4.4	5.7	6.4
112.5°	5.1	4.8	3.8	3.1	3.1	2.8	3.1	3.4	4.0	5.4	6.1
115°	4.8	4.4	3.4	2.8	2.3	2.3	2.8	2.8	3.8	5.4	6.1
117.5°	4.8	4.4	3.1	2.8	2.1	2.1	2.3	2.8	3.8	5.4	6.1
120°	4.4	4.4	3.1	2.3	2.1	1.6	2.1	2.3	3.8	5.7	6.1
122.5°	4.4	4.0	3.1	2.3	1.6	1.6	1.6	2.1	3.4	5.4	5.7
125°	4.0	4.0	2.8	2.1	1.6	1.3	1.6	2.1	3.8	5.4	5.7
127.5°	4.0	3.8	2.8	2.1	1.3	1.3	1.6	1.6	3.4	5.1	5.4
130°	4.0	3.8	2.8	1.6	1.3	1.3	1.3	1.6	3.4	4.8	5.1
132.5°	3.4	3.4	2.3	1.6	1.3	1.0	1.3	1.3	2.8	4.0	4.4
135°	3.4	3.1	2.3	1.6	1.3	1.0	1.0	1.3	2.8	3.8	3.8
137.5°	3.1	2.8	2.3	1.6	1.0	1.0	0.7	1.0	2.3	3.1	3.4
140°	2.8	2.8	2.1	1.6	1.0	0.7	0.7	1.0	1.6	2.3	2.8
142.5°	2.8	2.8	2.3	1.6	1.0	0.7	0.7	0.7	1.3	2.1	2.1
145°	2.3	2.3	2.1	1.3	0.7	0.3	0.3	0.7	1.0	1.3	1.6
147.5°	2.3	2.3	2.1	1.3	0.7	0.3	0.3	0.7	1.0	1.3	1.3
150°	2.1	2.1	1.6	1.0	0.3	0.0	0.0	0.3	0.7	1.0	1.0
152.5°	1.3	1.3	1.0	0.7	0.0	0.0	0.0	0.3	0.7	0.7	0.7
155°	0.7	0.7	0.7	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.1	6.1	6.1	6.1	6.1
5°	5.7	5.7	6.1	6.1	6.1	6.1	6.1	6.4	6.7	6.7	7.0
7.5°	6.4	6.4	6.1	6.1	6.4	7.0	11.5	24.3	46.0	42.6	42.2
10°	10.2	10.2	9.2	8.4	9.2	33.1	52.0	49.3	41.5	40.6	39.2
12.5°	64.1	59.7	48.2	30.5	44.2	42.0	48.7	57.1	74.3	78.1	75.4
15°	64.6	67.3	72.7	78.7	99.7	44.2	85.8	105.1	112.2	112.2	114.5
17.5°	112.2	121.0	93.0	83.8	99.4	121.6	95.9	106.8	105.8	106.1	103.0
20°	182.4	164.8	181.7	163.2	111.5	136.2	119.7	114.5	154.4	183.9	183.9
22.5°	180.7	191.6	189.3	187.6	196.3	121.0	152.7	165.8	171.9	164.2	176.1
25°	301.7	290.2	274.4	187.1	188.3	168.3	164.8	154.8	168.3	181.5	178.8
27.5°	315.7	318.3	288.3	278.7	197.4	189.3	155.4	180.1	196.3	197.4	195.7
30°	430.8	436.2	340.3	256.7	221.6	172.7	181.7	173.7	181.5	190.6	195.7
32.5°	455.8	447.7	375.8	289.3	217.3	182.8	167.3	173.7	203.0	203.0	201.4
35°	485.5	479.4	387.2	274.7	236.9	170.9	154.8	173.1	181.5	196.3	197.4
37.5°	545.5	541.9	425.1	274.1	210.8	161.5	170.3	174.7	177.3	180.7	177.8
40°	584.8	558.8	436.5	286.2	204.1	187.1	177.3	164.6	166.9	158.6	154.8
42.5°	659.3	615.7	447.7	278.0	199.1	206.5	164.8	162.6	156.8	148.0	148.0
45°	735.0	679.2	462.5	261.5	191.9	200.4	170.0	166.2	161.2	159.8	156.8
47.5°	812.0	737.0	460.2	271.9	215.2	187.6	212.9	178.8	153.7	166.9	165.8
50°	938.6	830.9	462.3	251.3	214.5	184.2	213.2	169.3	164.6	174.7	175.7
52.5°	1042.0	894.7	490.3	239.6	207.8	213.2	201.7	205.2	193.9	190.9	194.7
55°	1165.8	976.5	472.1	225.4	202.4	201.0	237.5	206.5	196.3	206.2	207.1
57.5°	1320.9	1090.5	476.1	202.4	204.1	193.7	232.5	231.1	225.0	220.4	218.6
60°	1410.8	1127.0	438.3	216.0	197.6	213.5	246.7	239.6	207.5	240.9	246.3
62.5°	1481.3	1183.6	345.3	213.5	219.6	203.7	226.5	233.7	218.6	244.0	247.0
65°	1498.6	1180.6	264.6	219.2	217.3	226.5	268.0	229.7	190.9	194.7	196.3
67°	1474.9	1154.0	214.5	208.9	220.4	218.0	221.6	197.4	176.3	180.1	182.8
67.5°	1461.5	1132.4	203.5	208.1	227.7	217.6	217.3	189.9	172.4	177.1	178.0
70°	1335.7	1014.4	170.3	205.4	225.7	197.6	203.0	167.3	152.1	153.7	154.4
72.5°	1143.8	814.0	162.6	204.5	221.6	164.8	156.1	136.8	129.4	127.0	123.6
75°	877.9	560.9	160.4	184.5	182.1	124.7	125.0	113.8	114.5	109.5	107.4
77.5°	528.8	314.2	136.5	156.1	136.5	95.3	103.3	101.0	103.8	98.4	95.0
80°	253.4	153.4	107.7	115.0	96.3	74.6	88.3	91.8	92.5	84.8	81.0
82.5°	108.4	79.4	73.0	72.0	68.6	57.9	71.2	75.0	75.6	71.0	56.8
85°	63.9	54.1	50.3	48.2	47.6	35.8	51.1	60.5	60.5	50.0	43.3
87.5°	39.9	39.5	35.5	35.5	37.2	25.3	35.2	41.5	39.2	29.7	23.6
90°	19.0	20.3	21.3	21.6	25.3	14.3	22.6	24.0	22.6	16.2	11.5
92.5°	15.2	17.2	18.5	19.3	22.9	12.1	20.3	21.6	20.7	16.2	11.5
95°	12.4	15.5	18.5	18.2	19.3	9.4	17.8	19.7	19.0	14.3	9.8
97.5°	10.2	12.4	15.2	15.2	17.5	8.2	16.6	18.5	18.2	12.8	9.4
100°	9.2	11.1	13.6	13.1	15.5	6.4	14.8	16.2	15.9	10.5	8.4
102.5°	8.2	9.2	10.5	10.5	11.5	5.4	11.1	12.4	11.8	8.9	8.4
105°	7.5	7.7	7.5	7.0	7.5	4.8	7.0	8.2	7.0	6.7	6.7
107.5°	7.0	7.0	6.1	5.7	5.4	4.0	5.1	5.4	4.8	6.1	6.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.0	6.7	5.4	5.1	4.4	3.8	4.0	4.0	4.0	6.1	6.4
112.5°	6.7	6.7	5.1	4.4	4.0	3.4	3.4	3.1	3.8	6.1	6.7
115°	6.7	6.4	4.8	4.0	3.4	3.1	2.8	2.8	3.4	6.1	6.7
117.5°	6.7	6.4	4.8	3.8	3.4	2.8	2.3	2.3	3.4	6.1	6.7
120°	6.7	6.7	4.8	3.4	3.1	2.8	2.3	2.3	3.4	5.7	6.4
122.5°	6.4	6.4	4.4	3.4	2.8	2.3	2.1	2.1	3.4	5.7	6.1
125°	6.1	6.1	4.4	3.1	2.3	2.1	2.1	2.1	3.4	5.4	6.1
127.5°	5.7	5.7	4.0	2.8	2.1	2.1	1.6	1.6	3.4	5.4	5.7
130°	5.4	5.4	3.8	2.3	2.1	1.6	1.3	1.6	3.4	5.1	5.4
132.5°	4.8	4.8	3.4	2.1	1.6	1.3	1.3	1.3	3.1	4.8	5.1
135°	4.0	4.0	3.1	2.1	1.6	1.3	1.0	1.3	2.8	4.0	4.4
137.5°	3.8	3.8	2.8	1.6	1.3	1.0	1.0	1.3	2.8	3.8	4.0
140°	2.8	2.8	2.1	1.3	1.0	1.0	0.7	1.0	2.3	3.1	3.4
142.5°	2.1	2.1	1.6	1.3	1.0	0.7	0.7	1.0	2.1	2.8	2.8
145°	1.6	1.6	1.3	1.0	1.0	0.7	0.3	0.7	1.6	2.3	2.3
147.5°	1.3	1.3	1.3	1.0	0.7	0.3	0.3	0.3	1.0	1.6	1.6
150°	1.0	1.0	1.0	1.0	0.7	0.0	0.0	0.0	0.7	1.0	1.0
152.5°	0.7	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.3
155°	0.3	0.7	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)