

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: P266340

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266340
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-AF24-40-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3568.8 lumens
Efficiency: N/A
Efficacy: 89.2 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

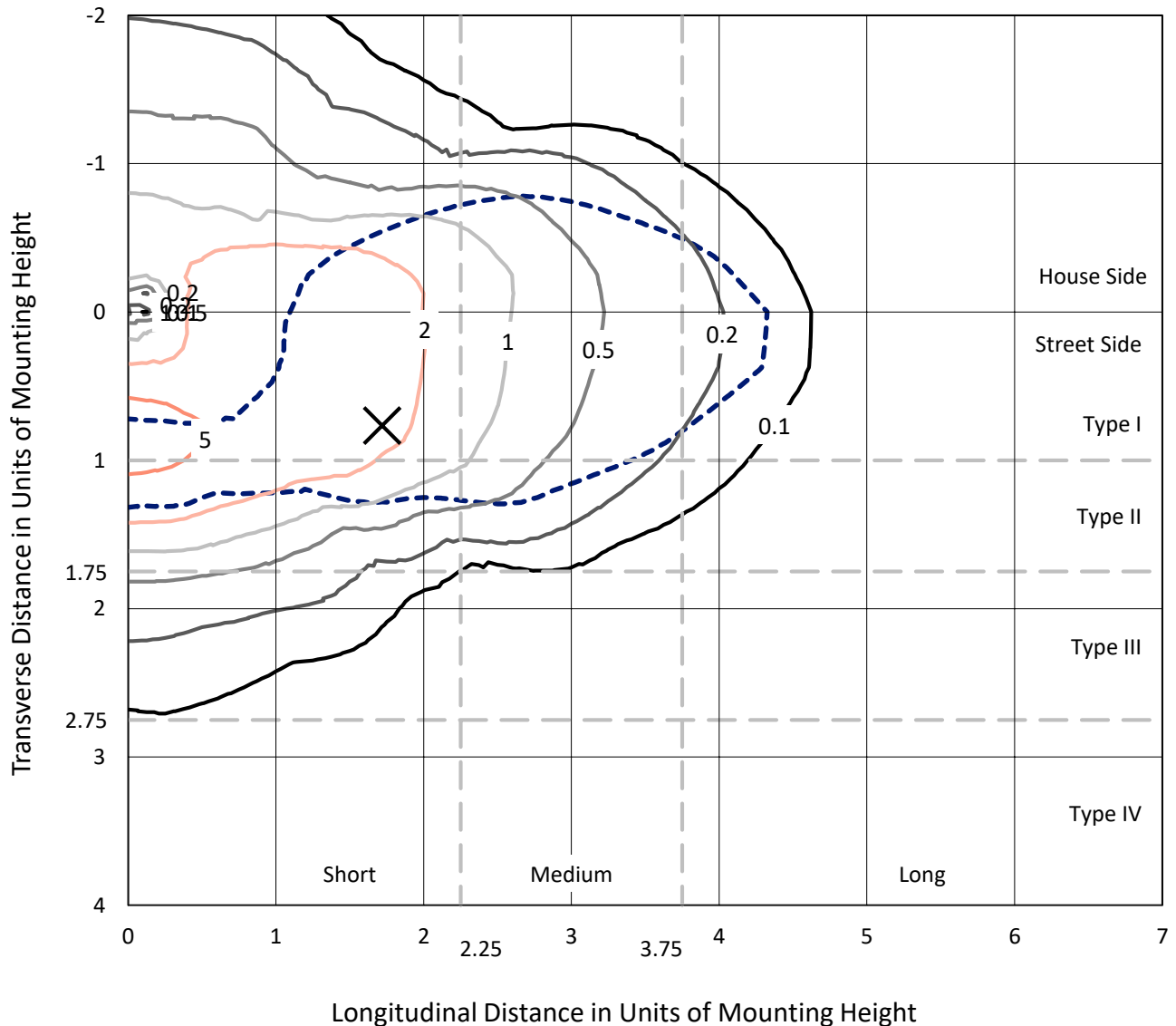
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

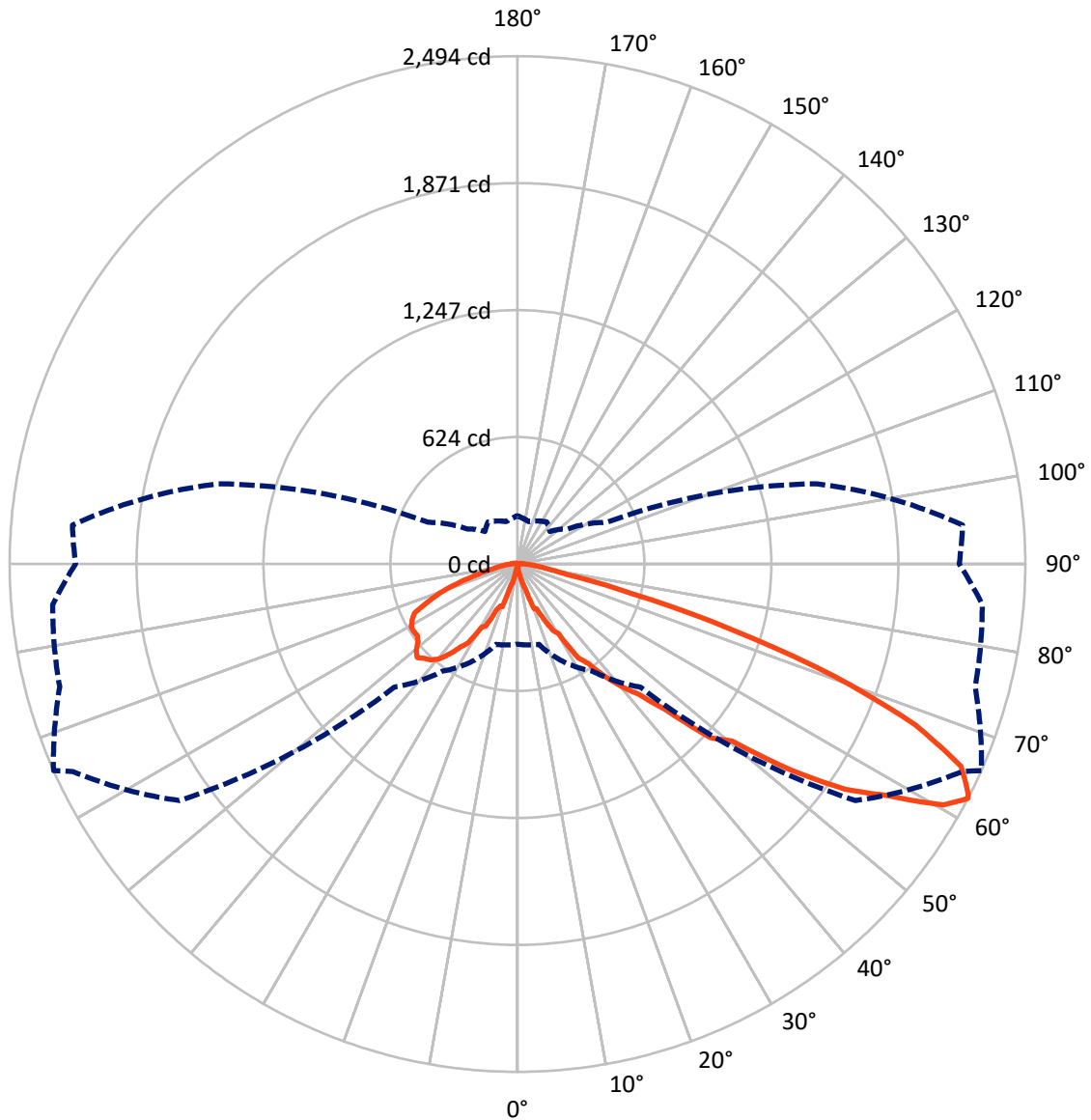
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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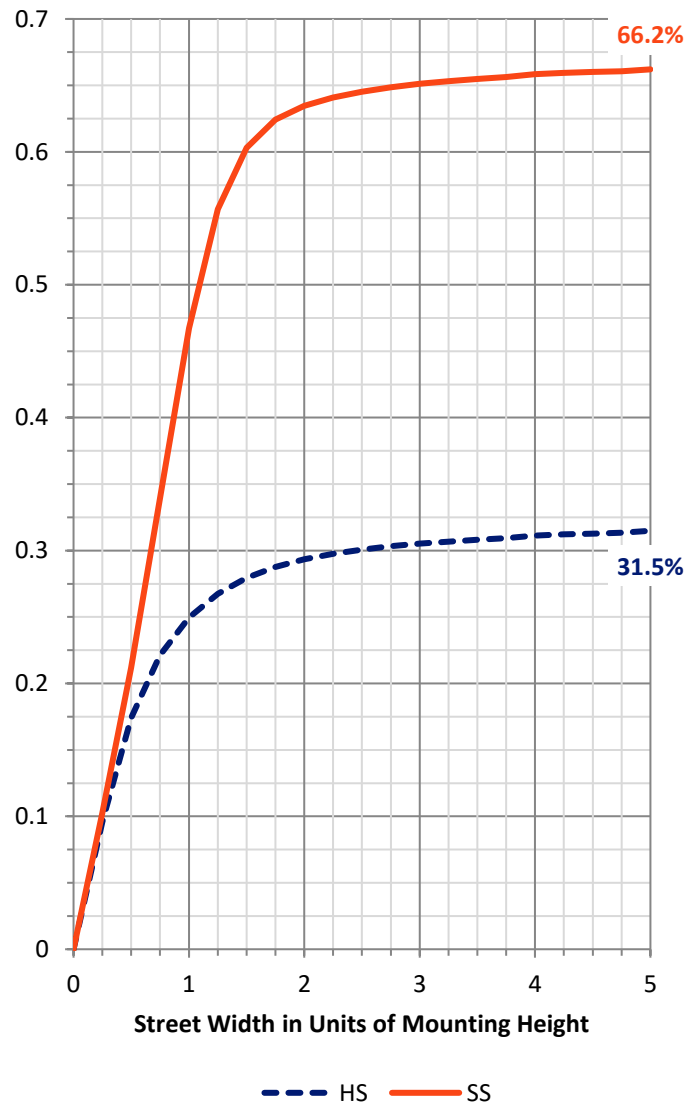
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1144.7	27.3	1172.1
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	2376.6	20.1	2396.7
	% Fixture	66.6	0.6	67.2
Total	Lumens	3521.3	47.5	3568.8
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	36.2	1.0
20°-30°	143.4	4.0
30°-40°	357.5	10.0
40°-50°	681.7	19.1
50°-60°	929.6	26.0
60°-70°	854.0	23.9
70°-80°	435.6	12.2
80°-90°	80.1	2.2
90°-100°	21.2	0.6
100°-110°	10.2	0.3
110°-120°	6.2	0.2
120°-130°	4.8	0.1
130°-140°	3.2	0.1
140°-150°	1.5	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3521.3	98.7
0°-180°	3568.8	100.0

Coefficient of Utilization



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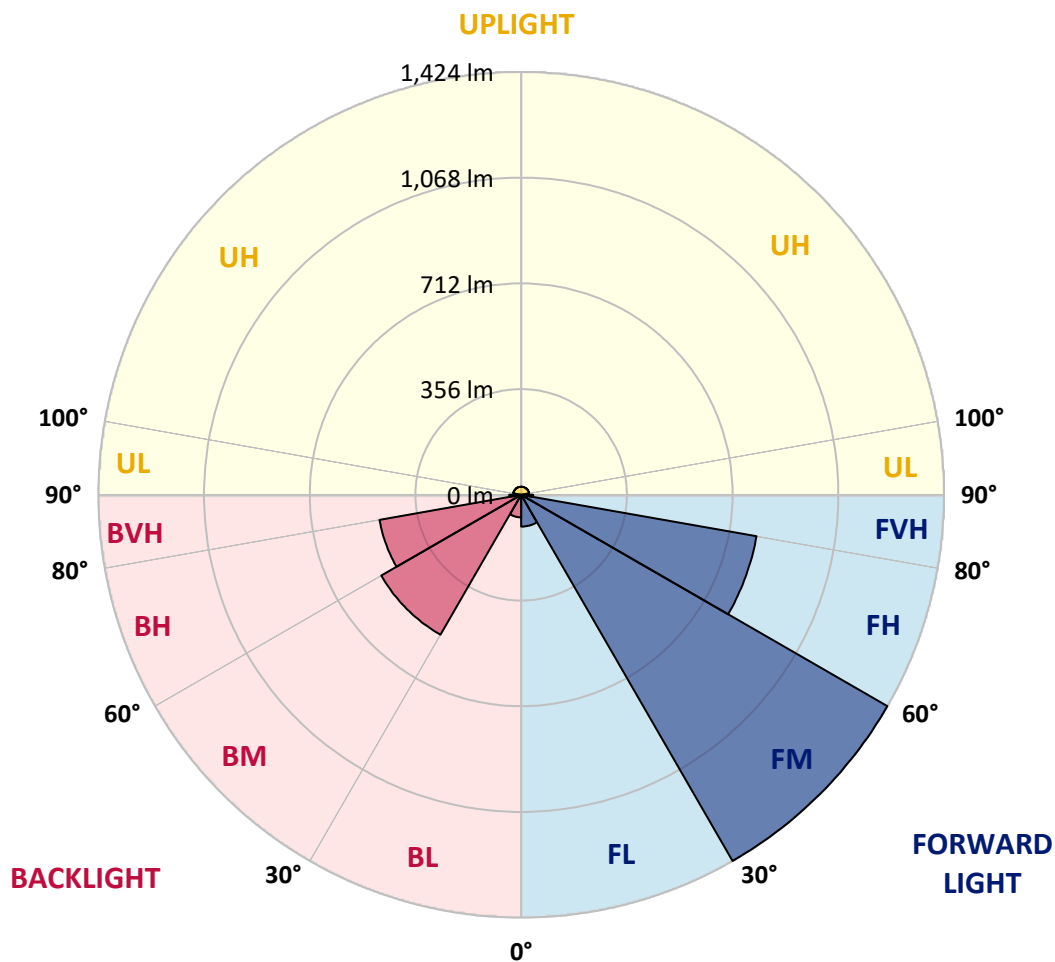
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.0	3.0			
FM	(30°-60°)	1424.5	39.9			
FH	(60°-80°)	805.0	22.6			G1/1800
FVH	(80°-90°)	40.2	1.1			G1/100
BL	(0°-30°)	75.9	2.1	B0/110		
BM	(30°-60°)	544.3	15.3	B1/1000		
BH	(60°-80°)	484.6	13.6	B1/500		G1/500
BVH	(80°-90°)	39.9	1.1			G1/100
UL	(90°-100°)	21.2	0.6		U2/50	
UH	(100°-180°)	27.3	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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	44.3	42.2	31.6	27.7	23.3	18.9	14.6	12.2	11.9	11.0	10.2
5°	44.3	44.3	45.8	48.2	53.5	48.8	51.5	18.4	17.5	11.9	9.6
7.5°	84.8	82.6	103.7	73.4	46.2	43.1	65.4	40.0	40.0	18.4	11.0
10°	114.7	114.3	140.1	89.7	82.6	100.3	44.3	45.8	45.8	31.6	15.5
12.5°	112.5	111.6	113.4	123.4	103.7	87.9	89.2	58.4	72.9	115.2	118.1
15°	158.2	166.5	157.7	120.8	110.8	110.3	142.3	108.1	109.9	126.5	92.7
17.5°	210.9	211.8	230.7	196.0	154.1	163.0	150.6	151.2	133.6	140.1	156.8
20°	229.7	225.8	236.3	219.2	219.2	195.1	153.8	217.8	234.2	220.2	217.5
22.5°	394.5	392.7	343.6	240.3	248.7	228.0	232.9	254.0	238.6	224.0	220.2
25°	450.0	444.2	427.1	409.9	305.0	319.8	282.1	275.9	293.0	353.8	382.7
27.5°	598.5	605.0	516.6	461.3	411.2	344.1	322.5	396.3	367.8	387.1	382.7
30°	753.0	749.5	718.4	616.9	516.6	427.1	428.0	416.1	396.7	456.1	518.1
32.5°	976.3	987.6	844.9	738.5	645.9	519.8	471.0	553.1	549.7	532.5	555.8
35°	1217.1	1215.2	1098.4	923.1	698.6	587.9	562.9	611.6	599.8	573.4	616.4
37.5°	1369.9	1352.8	1273.3	1122.6	854.2	670.0	678.8	714.4	702.6	667.8	747.4
40°	1591.3	1572.6	1477.6	1272.9	1065.0	812.0	861.7	832.5	793.9	787.9	798.0
42.5°	1672.6	1673.5	1580.8	1431.9	1248.3	1014.9	1040.9	913.4	874.3	939.7	917.9
45°	1698.2	1694.7	1630.1	1518.5	1367.3	1257.4	1174.9	1060.7	1021.2	1080.8	1104.6
47.5°	1642.5	1628.3	1638.9	1514.1	1493.0	1363.4	1346.2	1265.4	1274.2	1240.3	1296.2
50°	1492.5	1472.0	1499.6	1467.0	1557.1	1478.0	1677.6	1371.3	1366.4	1427.4	1496.9
52.5°	1260.1	1244.7	1334.3	1307.6	1543.1	1603.2	1743.4	1676.1	1680.5	1686.3	1648.5
55°	1032.5	1040.4	1109.0	1093.1	1339.6	1630.6	1963.5	1926.1	1951.7	1810.3	1810.7
57.5°	737.2	754.8	878.4	887.5	1116.5	1434.1	2140.2	2080.5	2146.0	2013.6	2043.0
60°	507.9	518.4	585.2	678.4	837.8	1190.8	2046.2	2344.0	2403.3	2220.6	2219.3
62°	394.1	398.5	408.5	527.7	643.2	855.8	2025.5	2410.4	2494.4	2327.8	2291.8
62.5°	365.6	370.5	377.0	478.8	593.2	778.1	1948.2	2424.9	2484.6	2341.4	2304.1
65°	292.6	294.9	279.9	318.5	419.1	464.9	1399.7	2356.8	2395.1	2324.8	2268.5
67.5°	271.1	263.2	242.5	232.0	313.7	299.7	761.9	2008.8	2107.7	2224.9	2166.5
70°	224.5	242.2	225.4	207.4	250.4	230.2	323.4	1625.7	1653.3	2036.9	2029.0
72.5°	171.8	184.5	197.6	195.6	192.9	185.4	214.9	1015.9	1097.1	1671.7	1878.7
75°	139.2	144.5	172.2	166.5	171.3	146.8	169.2	482.8	584.3	1183.2	1633.9
77.5°	112.1	115.5	133.9	129.1	141.9	114.7	134.8	218.7	247.8	680.1	1119.1
80°	74.3	75.9	97.6	96.7	103.7	101.5	102.0	153.3	155.0	318.1	585.6
82.5°	55.3	54.4	67.3	67.6	67.3	73.4	69.9	105.0	109.5	155.9	194.7
85°	36.0	34.8	40.0	42.6	40.9	40.5	52.7	73.8	76.8	111.2	116.1
87.5°	19.8	21.1	26.4	26.4	27.7	27.3	43.1	49.1	51.5	74.3	62.4
90°	13.1	13.1	14.6	14.1	14.9	14.6	22.4	28.9	29.5	37.4	33.3
92.5°	11.9	12.8	14.6	14.6	15.8	13.7	20.2	24.7	25.1	30.4	25.5
95°	10.5	11.0	12.2	12.8	13.7	9.6	15.5	20.2	20.7	25.1	20.7
97.5°	8.9	9.6	10.5	11.0	12.2	8.9	12.8	16.3	16.7	19.4	15.8
100°	8.9	9.3	9.3	9.3	10.5	7.5	11.0	14.1	14.6	15.8	13.1
102.5°	8.4	8.9	8.4	7.9	8.9	6.6	9.6	11.9	11.9	11.4	11.0
105°	8.4	8.4	7.0	6.2	7.5	6.2	8.4	8.9	8.9	8.9	10.2
107.5°	7.9	7.9	6.6	5.7	6.2	5.3	7.0	7.5	7.5	7.9	9.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	7.5	7.0	5.7	4.9	4.9	4.9	5.7	6.2	6.2	7.0	10.2
112.5°	6.6	6.6	4.9	4.4	4.4	4.4	5.3	5.7	5.7	6.6	9.6
115°	6.2	6.2	4.9	4.0	4.0	4.0	4.9	5.3	5.3	6.2	9.6
117.5°	6.6	6.2	4.4	4.0	3.6	3.6	4.0	4.9	4.9	6.2	9.6
120°	5.7	5.7	4.4	3.6	3.1	3.6	4.0	4.4	4.9	6.6	9.6
122.5°	6.2	5.7	4.4	3.1	3.1	3.1	3.6	4.4	4.4	6.2	8.9
125°	5.7	5.3	4.0	3.1	2.6	3.1	3.6	4.0	4.4	6.2	8.9
127.5°	5.7	5.3	4.0	3.1	2.6	2.6	3.6	4.0	4.0	5.7	8.4
130°	5.3	5.3	3.6	2.6	2.6	2.6	3.1	3.6	3.6	5.3	7.5
132.5°	4.9	4.4	3.6	2.6	2.2	2.6	3.1	3.1	3.1	4.9	7.0
135°	4.4	4.4	3.6	2.6	2.2	2.2	2.6	3.1	3.1	4.4	6.2
137.5°	4.0	4.0	3.6	2.6	2.2	2.2	2.2	2.6	2.6	4.0	5.3
140°	4.0	4.0	3.6	2.6	2.2	2.2	2.2	2.2	2.2	3.1	4.4
142.5°	4.0	4.0	3.6	2.6	2.2	1.7	1.7	1.7	1.7	2.6	3.6
145°	3.6	3.6	3.1	2.6	1.7	1.3	1.3	1.7	1.7	2.2	2.6
147.5°	3.6	3.6	3.1	2.2	1.3	0.9	0.9	1.3	1.3	1.7	2.2
150°	2.6	2.6	2.6	1.7	0.9	0.0	0.9	0.9	0.9	1.7	1.7
152.5°	1.7	1.7	1.3	0.9	0.4	0.4	0.4	0.9	0.9	0.9	1.3
155°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.4	0.4	0.9	0.9
157.5°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
162.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4
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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	10.2	9.6	9.6	9.6	10.2	10.2	10.2	9.6	9.3	9.3	9.3
5°	9.3	8.9	8.9	8.9	9.3	9.3	9.3	9.3	9.3	9.3	9.3
7.5°	10.2	9.3	9.3	8.9	8.9	9.3	10.2	14.9	26.0	36.6	42.6
10°	14.1	14.1	12.2	11.4	11.4	16.7	62.0	67.3	67.3	63.7	61.5
12.5°	127.4	100.6	88.8	31.3	25.5	51.8	59.3	55.9	77.3	90.1	95.3
15°	92.3	101.1	109.0	97.9	132.2	55.3	89.7	109.0	146.8	148.5	149.8
17.5°	155.0	167.4	120.8	105.5	123.4	163.9	133.9	138.9	138.9	138.9	139.2
20°	218.4	222.3	232.0	221.9	123.8	172.7	171.8	139.7	157.4	196.0	206.9
22.5°	232.0	239.8	228.4	221.4	261.9	161.2	177.5	222.3	224.9	214.4	219.6
25°	393.6	382.3	335.6	236.3	261.4	225.4	229.3	208.2	213.9	207.8	211.8
27.5°	390.7	384.5	347.1	340.9	274.6	266.6	213.1	240.3	255.3	264.9	263.2
30°	545.7	509.7	402.0	352.0	324.3	255.3	234.2	227.6	225.8	237.2	238.1
32.5°	548.3	543.0	463.0	455.3	333.5	258.4	221.1	207.8	237.2	253.1	250.4
35°	636.2	609.1	529.5	491.3	383.1	243.0	197.3	207.8	212.7	224.0	223.7
37.5°	714.8	706.4	641.5	542.7	369.1	221.4	222.8	221.4	215.8	217.5	217.5
40°	819.4	773.4	715.3	590.5	345.4	237.2	240.3	209.1	203.5	200.3	200.3
42.5°	943.8	865.5	812.0	613.8	328.2	279.5	227.6	204.4	198.5	189.8	188.5
45°	1090.5	993.4	912.9	621.3	275.5	289.6	236.3	232.4	213.5	205.6	202.6
47.5°	1219.3	1141.0	1029.5	633.6	319.3	276.4	311.1	264.0	206.2	217.5	215.8
50°	1412.6	1312.0	1111.2	602.4	341.4	268.5	323.4	231.1	212.2	227.6	226.7
52.5°	1583.5	1487.8	1196.8	555.3	322.9	371.3	286.9	264.9	246.0	238.1	237.2
55°	1762.4	1666.5	1254.8	531.6	319.0	297.0	298.3	286.9	222.3	239.5	238.9
57.5°	1967.9	1915.1	1381.0	521.6	327.0	262.3	298.3	239.8	253.5	239.5	242.2
60°	2077.8	2077.8	1454.4	511.5	301.8	269.3	256.1	263.7	220.2	222.8	229.7
62°	2170.0	2194.6	1521.5	484.6	300.9	225.8	251.7	232.9	215.4	228.4	237.2
62.5°	2201.2	2220.2	1541.8	479.3	308.5	213.9	233.3	232.4	223.1	224.9	232.9
65°	2231.6	2319.0	1590.1	446.0	283.9	202.1	199.5	220.5	193.3	185.1	185.4
67.5°	2202.6	2322.9	1573.8	359.0	230.2	173.6	176.2	184.2	174.5	171.3	173.2
70°	2096.6	2145.4	1408.2	296.1	198.5	159.1	169.2	162.6	159.9	159.4	159.1
72.5°	1951.7	1859.0	1106.0	222.8	170.9	138.0	144.9	149.8	150.6	148.5	145.9
75°	1646.4	1460.0	721.5	166.9	136.6	116.9	132.2	136.3	139.7	133.6	131.4
77.5°	1130.1	920.5	373.4	132.7	118.1	97.9	116.1	122.1	125.7	116.4	117.8
80°	524.6	420.0	172.7	108.5	97.9	81.2	98.5	106.3	111.2	98.9	94.4
82.5°	177.1	161.7	104.2	83.9	80.4	62.0	79.5	88.8	90.1	82.1	69.9
85°	105.5	105.9	72.9	64.6	59.3	38.6	57.1	69.9	69.9	58.0	47.4
87.5°	60.6	68.1	55.9	49.1	44.3	26.4	42.6	47.9	47.0	36.9	26.4
90°	30.4	35.7	33.0	32.5	33.3	16.7	33.3	36.0	36.0	25.5	16.3
92.5°	22.4	27.3	29.5	27.7	28.1	12.8	26.8	27.3	26.8	19.8	12.8
95°	18.9	23.7	29.5	27.7	26.8	10.5	24.7	25.1	25.5	19.4	14.1
97.5°	14.9	18.1	22.8	22.4	24.2	8.9	22.4	22.4	21.5	15.8	11.9
100°	13.7	15.8	19.4	19.4	21.1	7.9	19.8	18.1	17.2	12.8	11.0
102.5°	11.4	12.8	14.9	14.6	15.8	7.5	14.6	14.1	13.1	11.0	10.5
105°	11.0	11.4	11.4	10.5	11.0	7.0	10.2	9.6	9.3	9.3	9.6
107.5°	10.5	10.5	9.6	8.9	8.9	6.6	7.5	7.0	7.5	9.6	10.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.5	10.5	8.9	7.9	7.0	6.2	6.6	5.7	6.6	9.6	10.5
112.5°	10.5	10.5	7.9	6.6	6.6	5.7	5.7	5.3	6.2	9.6	10.5
115°	10.2	10.2	7.5	6.2	5.7	5.3	5.3	4.9	6.2	9.6	10.5
117.5°	10.2	10.2	7.5	6.2	5.3	4.9	4.9	4.4	6.2	10.2	10.5
120°	10.2	10.2	7.5	5.7	5.3	4.9	4.4	4.4	6.2	9.6	10.5
122.5°	9.6	9.3	7.0	5.3	4.9	4.4	4.4	4.4	6.2	10.2	10.5
125°	9.3	8.9	7.0	5.3	4.4	4.4	4.0	4.0	6.2	9.6	10.2
127.5°	8.9	8.9	6.6	4.9	4.4	4.0	4.0	4.0	6.2	10.2	10.2
130°	8.4	7.9	6.2	4.4	4.0	3.6	3.6	4.0	6.6	9.3	9.6
132.5°	7.5	7.0	5.7	4.0	3.6	3.6	3.6	3.6	6.2	9.3	9.3
135°	6.2	6.2	4.9	3.6	3.1	3.1	3.1	3.6	5.7	7.9	8.4
137.5°	5.7	5.3	4.4	3.6	2.6	3.1	3.1	3.6	5.7	7.5	7.9
140°	4.9	4.4	3.6	2.6	2.6	2.6	2.6	3.1	4.9	6.6	7.0
142.5°	3.6	3.6	3.1	2.2	2.2	2.2	2.2	3.1	4.4	5.7	5.7
145°	3.1	3.1	2.6	2.2	1.7	1.3	1.3	2.2	3.6	4.9	4.9
147.5°	2.2	2.2	2.2	1.7	1.3	1.3	1.3	1.7	2.6	3.6	3.6
150°	1.7	1.7	1.7	1.3	1.3	0.9	0.9	1.3	2.2	2.6	2.6
152.5°	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9	1.3	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.9	0.9
157.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	0.9	0.9	0.4	0.4	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)