

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: P266539

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6645.6 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 96
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

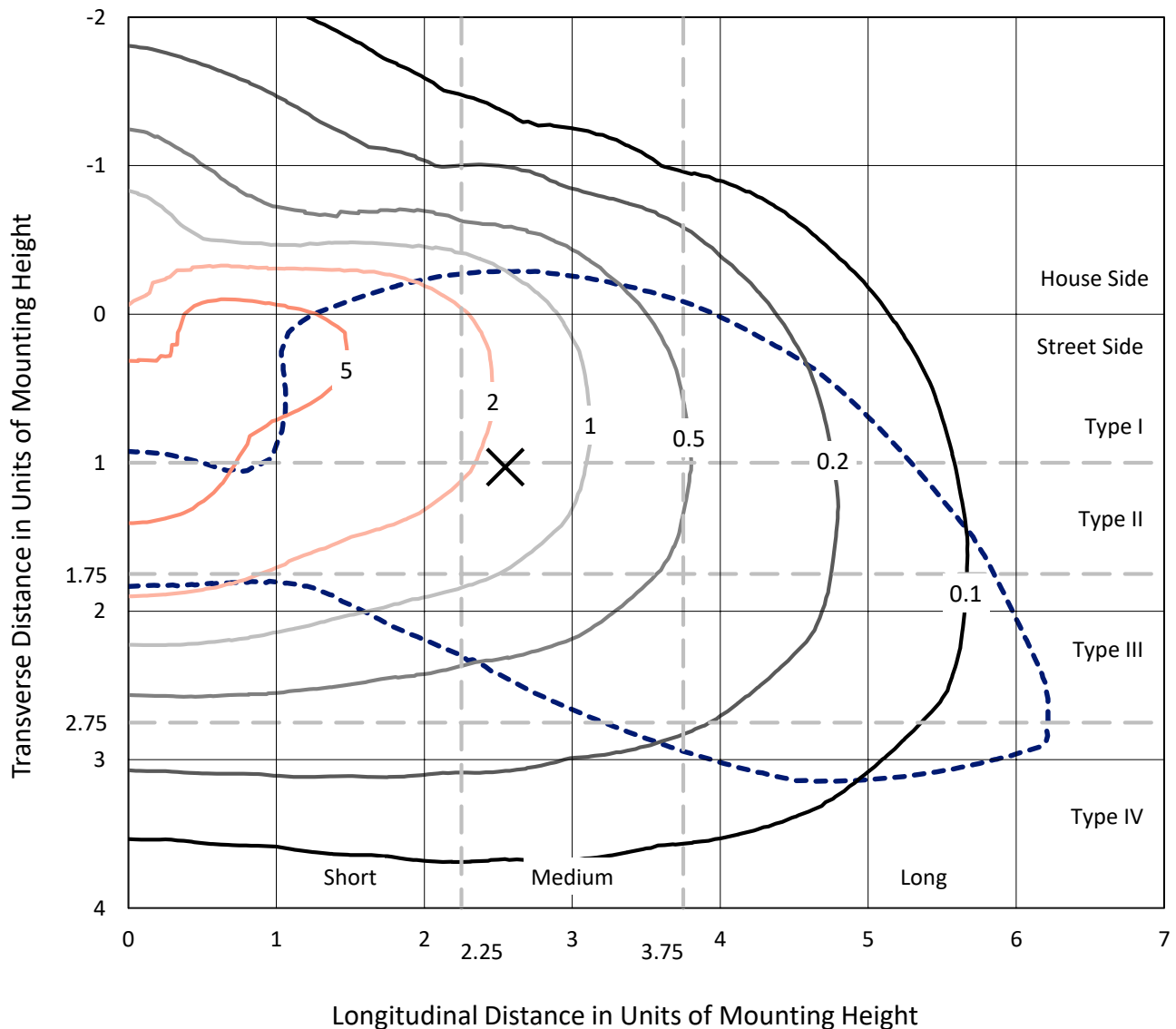


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

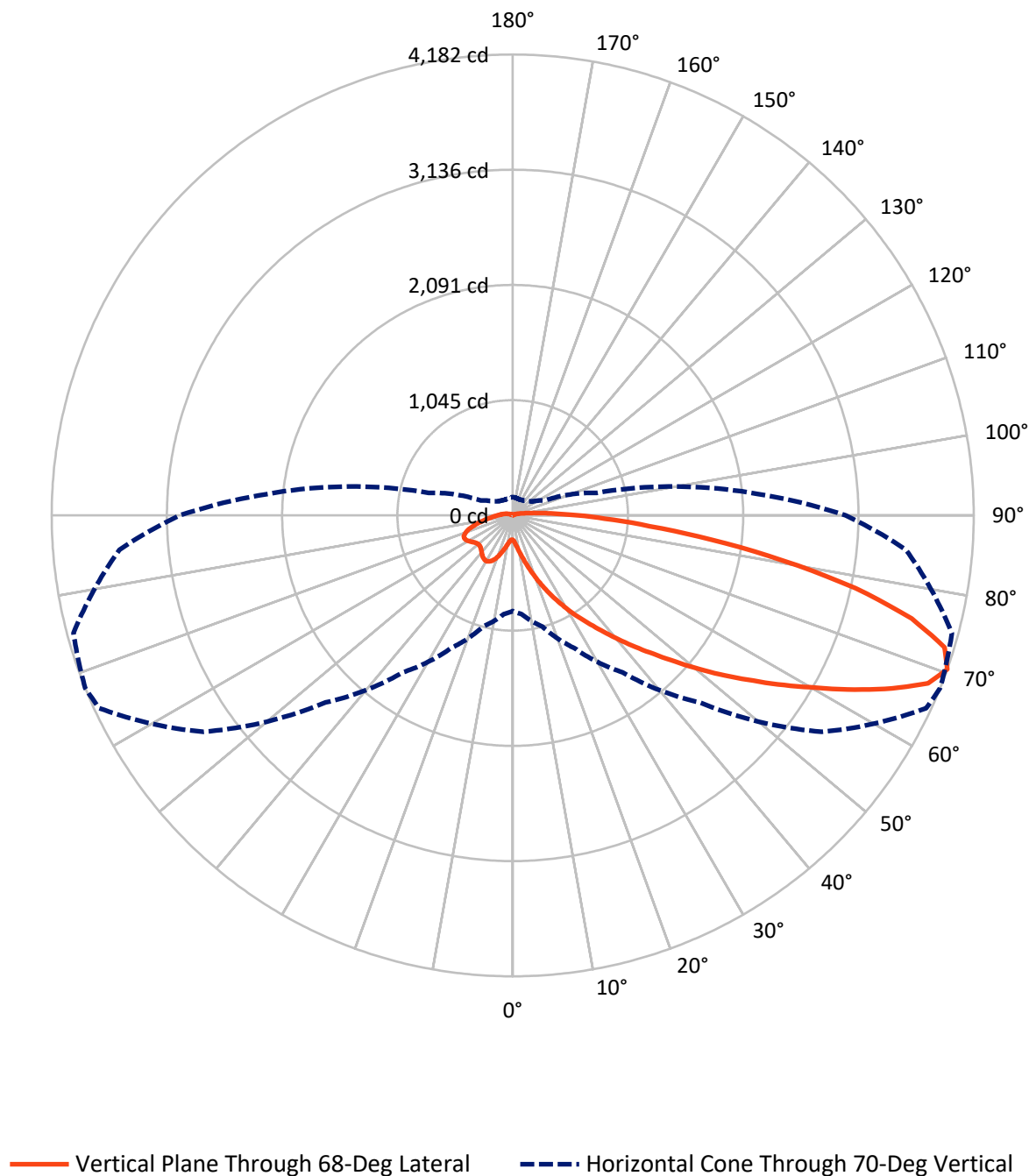


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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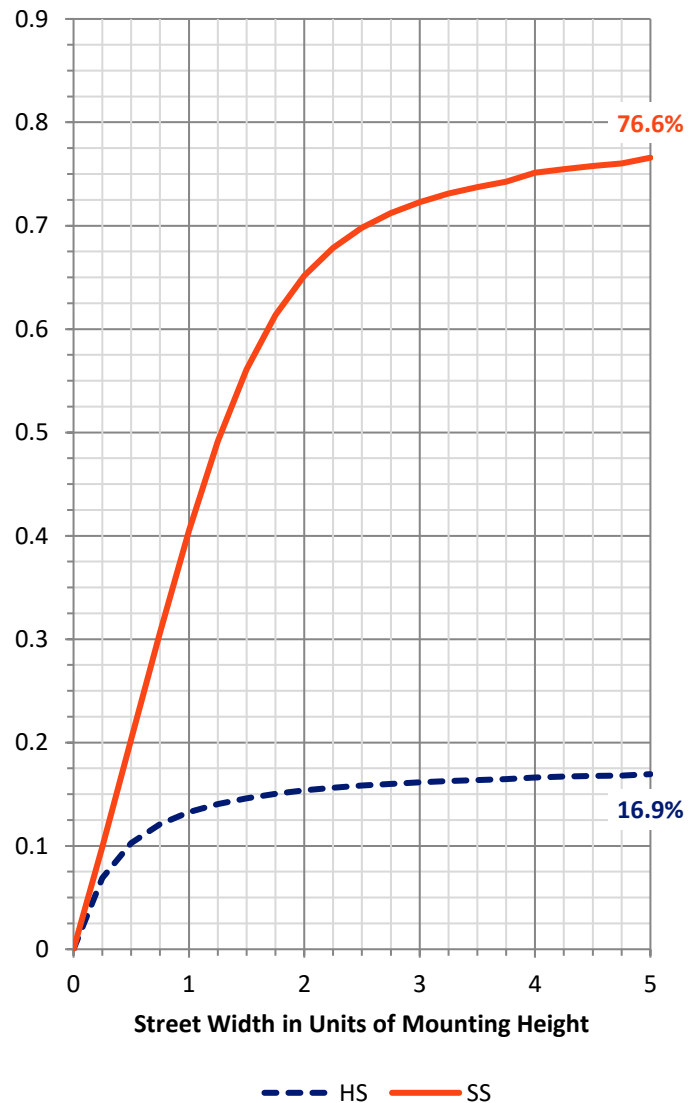
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.7	107.9	1282.6
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5215.2	147.8	5363.0
	% Fixture	78.5	2.2	80.7
Total	Lumens	6389.9	255.6	6645.6
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	0.4
10°-20°	105.5	1.6
20°-30°	266.8	4.0
30°-40°	517.0	7.8
40°-50°	871.7	13.1
50°-60°	1303.3	19.6
60°-70°	1580.4	23.8
70°-80°	1233.0	18.6
80°-90°	487.9	7.3
90°-100°	149.4	2.2
100°-110°	58.7	0.9
110°-120°	26.0	0.4
120°-130°	12.8	0.2
130°-140°	6.3	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6389.9	96.2
0°-180°	6645.6	100.0

Coefficient of Utilization



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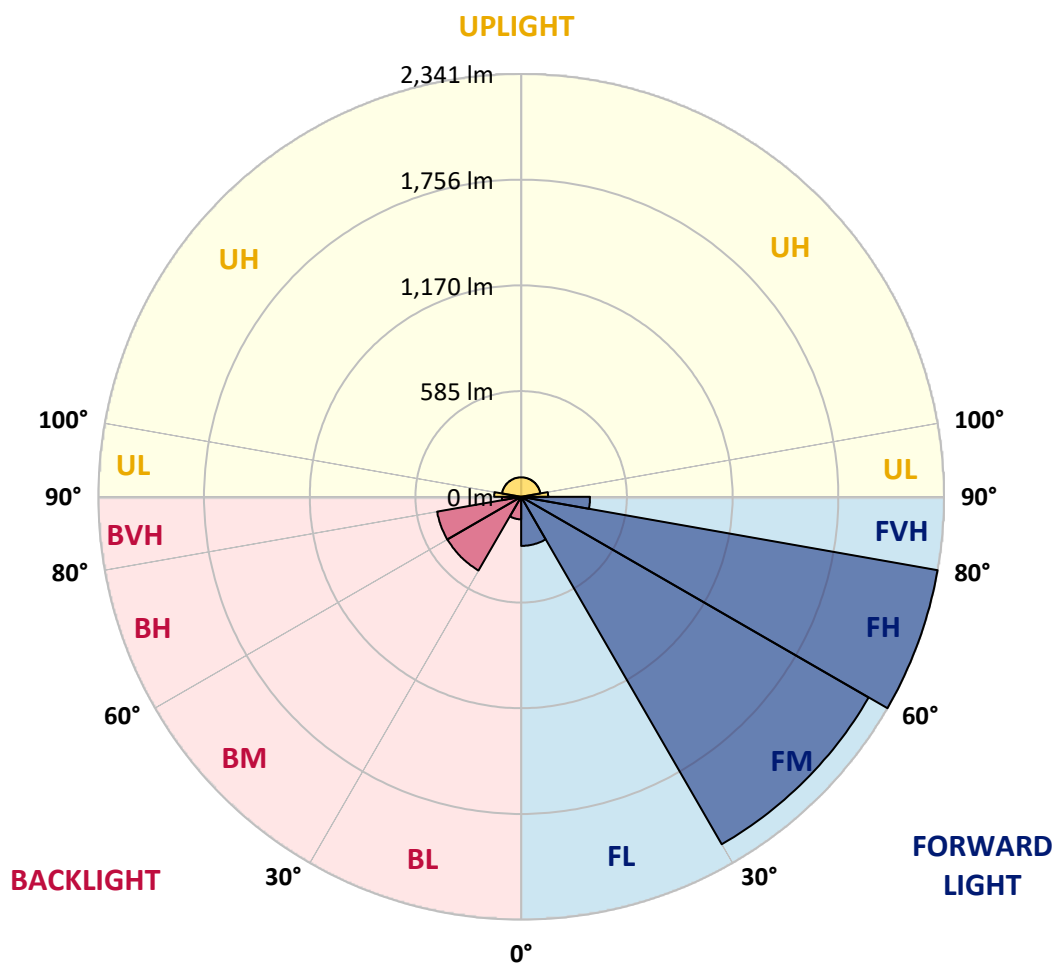
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.7	4.1			
FM	(30°-60°)	2221.2	33.4			
FH	(60°-80°)	2341.0	35.2			G2/5000
FVH	(80°-90°)	381.3	5.7			G3/500
BL	(0°-30°)	124.9	1.9	B1/500		
BM	(30°-60°)	470.9	7.1	B1/1000		
BH	(60°-80°)	472.4	7.1	B1/500		G1/500
BVH	(80°-90°)	106.6	1.6			G2/225
UL	(90°-100°)	149.4	2.2		U3/500	
UH	(100°-180°)	107.9	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3
2.5°	248.6	249.4	249.4	246.8	245.9	243.4	238.9	237.2	235.4	233.6	230.2
5°	281.4	281.4	279.7	277.1	273.8	271.1	266.7	261.5	260.7	254.6	248.6
7.5°	318.9	319.7	320.6	316.3	311.1	306.7	301.6	294.6	292.8	286.6	275.4
10°	368.3	369.3	367.5	363.2	356.3	351.0	344.9	338.0	335.3	330.1	314.5
12.5°	428.3	427.5	422.3	416.2	408.4	402.4	394.4	389.2	387.4	382.3	365.8
15°	491.7	495.2	489.1	475.3	465.7	456.2	452.7	452.7	454.5	448.3	432.8
17.5°	573.5	576.1	565.7	546.4	530.9	520.5	517.0	523.9	526.5	529.1	515.3
20°	668.2	669.0	652.4	625.6	597.7	584.7	585.6	602.1	608.2	617.8	601.2
22.5°	783.7	776.8	753.3	711.5	671.7	650.7	658.5	691.6	696.8	716.8	708.1
25°	904.5	903.7	864.4	809.0	750.8	723.8	736.8	777.7	792.3	822.8	811.4
27.5°	1043.6	1040.0	989.7	921.0	841.9	801.9	813.2	871.4	888.9	940.0	927.9
30°	1191.2	1192.1	1133.0	1037.5	939.3	883.7	890.6	971.3	994.0	1053.1	1049.6
32.5°	1367.6	1357.2	1291.1	1166.0	1045.3	969.6	979.2	1073.0	1104.2	1174.8	1164.3
35°	1544.8	1531.8	1444.0	1306.8	1155.6	1066.1	1070.4	1181.6	1214.7	1305.9	1286.0
37.5°	1708.1	1701.2	1613.4	1455.3	1278.9	1172.9	1178.1	1298.1	1339.7	1441.4	1417.0
40°	1883.7	1883.7	1794.2	1622.2	1416.3	1288.4	1296.3	1427.5	1477.9	1589.1	1548.3
42.5°	2069.7	2063.5	1968.8	1774.2	1552.6	1412.8	1428.3	1573.6	1630.0	1748.1	1706.4
45°	2252.9	2240.0	2141.6	1939.4	1689.1	1552.6	1576.0	1733.4	1792.5	1942.8	1884.6
47.5°	2411.1	2397.1	2300.6	2087.8	1832.5	1697.7	1730.8	1919.3	1981.8	2160.9	2072.2
50°	2524.0	2519.7	2425.9	2206.0	1960.1	1847.2	1916.8	2117.3	2192.1	2372.9	2289.4
52.5°	2590.1	2582.2	2507.4	2312.9	2087.8	2001.9	2107.9	2332.9	2411.9	2606.5	2509.2
55°	2575.4	2570.1	2517.1	2369.4	2187.7	2150.5	2319.9	2572.7	2646.5	2856.8	2741.2
57.5°	2458.8	2465.8	2450.1	2372.9	2261.7	2304.2	2537.1	2825.4	2903.7	3108.8	2985.3
60°	2251.2	2248.5	2293.0	2305.9	2291.1	2437.1	2799.5	3114.0	3173.9	3380.7	3223.5
62.5°	1944.6	1937.6	2034.0	2158.2	2269.5	2549.2	3035.7	3421.6	3481.6	3648.2	3443.3
65°	1568.4	1599.5	1720.3	1925.3	2161.7	2591.8	3265.2	3735.2	3784.6	3873.3	3616.1
67.5°	1188.5	1219.0	1375.3	1635.2	1981.8	2542.3	3411.1	4016.7	4064.6	4087.9	3691.8
70°	868.0	897.5	1045.3	1330.2	1737.7	2399.0	3422.5	4138.3	4181.8	4124.5	3580.6
72.5°	617.8	633.3	760.2	1030.4	1459.7	2147.8	3279.9	4060.2	4095.7	3936.7	3286.9
75°	437.0	444.0	553.4	783.7	1188.5	1863.8	2941.1	3710.0	3737.8	3538.0	2795.0
77.5°	298.0	313.7	400.6	597.7	953.1	1530.1	2492.7	3180.9	3180.9	2927.1	2211.2
80°	211.1	224.1	287.5	446.5	746.3	1225.9	2014.0	2527.6	2487.5	2199.9	1593.5
82.5°	152.1	162.5	212.9	340.5	579.5	968.7	1528.2	1871.4	1816.7	1535.3	1053.1
85°	110.3	120.7	161.7	250.3	444.0	751.5	1145.2	1299.8	1245.9	1017.4	683.8
87.5°	80.8	87.8	120.7	188.6	336.2	569.0	840.2	882.8	835.0	657.6	438.7
90°	57.3	63.4	92.0	142.6	252.0	427.5	589.9	579.5	527.3	413.6	290.2
92.5°	41.7	46.1	68.6	108.7	187.7	313.7	405.8	374.5	344.9	265.9	201.6
95°	31.4	34.8	53.9	84.4	138.2	220.8	273.8	245.9	223.3	181.5	148.6
97.5°	25.2	27.8	44.2	67.7	106.9	160.7	189.5	162.5	152.1	131.2	114.8
100°	21.6	23.4	37.4	56.5	84.4	120.7	133.8	113.8	107.7	99.1	89.6
102.5°	20.0	20.8	33.0	48.7	68.6	90.4	96.5	85.2	80.8	75.5	70.3
105°	18.2	19.1	29.6	42.6	58.2	70.3	73.8	65.1	62.5	57.3	53.9
107.5°	17.3	17.3	26.1	37.4	49.5	58.2	58.2	51.3	48.7	43.5	41.7
110°	16.4	16.4	23.4	33.9	42.6	49.5	47.8	40.9	38.3	33.0	32.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	15.6	15.6	21.6	29.6	37.4	41.7	40.0	33.0	30.5	25.2	25.2
115°	14.7	14.7	19.1	26.1	33.0	35.7	33.9	26.9	25.2	20.0	20.8
117.5°	14.7	14.7	18.2	23.4	28.7	31.4	28.7	21.6	20.0	16.4	18.2
120°	14.0	14.0	16.4	20.8	25.2	26.9	24.3	18.2	16.4	14.0	15.6
122.5°	14.0	14.0	15.6	18.2	22.5	23.4	20.8	15.6	14.0	12.1	14.0
125°	13.0	13.0	14.7	16.4	19.1	20.0	17.3	13.0	12.1	11.3	12.1
127.5°	13.0	13.0	14.0	14.7	17.3	17.3	14.7	10.4	10.4	9.5	11.3
130°	12.1	13.0	13.0	14.0	14.7	14.7	12.1	8.8	8.8	8.8	10.4
132.5°	12.1	12.1	12.1	12.1	13.0	12.1	9.5	7.8	7.8	7.8	9.5
135°	11.3	11.3	11.3	11.3	10.4	9.5	7.8	6.1	6.1	6.9	8.8
137.5°	11.3	11.3	10.4	9.5	9.5	7.8	6.1	5.2	5.2	6.9	7.8
140°	10.4	10.4	9.5	8.8	6.9	6.1	4.3	4.3	4.3	5.2	6.1
142.5°	8.8	8.8	8.8	6.9	5.2	3.5	2.6	2.6	3.5	4.3	5.2
145°	7.8	7.8	6.9	6.1	3.5	1.7	0.9	1.7	2.6	3.5	4.3
147.5°	6.1	6.1	5.2	4.3	1.7	0.9	0.0	0.9	1.7	1.7	2.6
150°	4.3	4.3	4.3	2.6	0.9	0.0	0.0	0.9	0.9	0.9	1.7
152.5°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	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°	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3
2.5°	227.6	226.7	222.4	218.9	214.7	211.1	207.7	205.1	204.2	202.5	203.2
5°	243.4	239.8	231.1	223.3	214.7	206.8	199.9	194.7	190.4	188.6	187.7
7.5°	270.2	265.0	249.4	235.4	221.5	207.7	196.4	187.7	182.4	179.0	179.0
10°	309.2	298.0	278.0	254.6	231.1	211.1	195.6	183.3	175.4	173.0	173.0
12.5°	357.0	344.9	313.7	278.0	245.0	217.2	196.4	183.3	175.4	172.0	171.1
15°	420.5	402.4	356.3	305.9	258.1	222.4	197.3	184.2	179.0	177.2	177.2
17.5°	495.2	472.7	405.8	336.2	272.8	225.0	199.9	189.5	186.8	186.8	186.8
20°	583.9	550.8	461.4	363.2	283.2	227.6	201.6	193.8	193.8	195.6	196.4
22.5°	678.6	636.9	515.3	388.3	286.6	229.3	200.7	195.6	199.9	204.2	205.1
25°	779.4	721.2	563.9	404.0	288.4	225.0	198.0	196.4	205.1	211.1	212.9
27.5°	886.3	807.1	605.5	410.0	283.2	217.2	193.8	194.7	207.7	216.3	218.1
30°	984.5	888.0	638.6	408.4	271.9	207.7	188.6	192.0	207.7	219.8	222.4
32.5°	1086.1	968.0	658.5	400.6	258.1	197.3	182.4	189.5	206.8	220.8	223.3
35°	1187.6	1038.4	668.2	385.0	242.5	187.7	176.3	185.1	204.2	219.8	221.5
37.5°	1289.3	1107.8	670.8	364.9	228.4	179.8	172.0	182.4	199.9	218.1	220.8
40°	1398.8	1176.4	665.6	344.9	215.5	174.6	168.5	179.0	196.4	215.5	218.9
42.5°	1521.4	1249.5	659.4	324.9	206.8	171.1	165.9	175.4	191.2	212.9	217.2
45°	1657.7	1329.3	656.0	309.2	201.6	169.4	165.1	173.0	188.6	211.1	215.5
47.5°	1804.7	1430.1	659.4	298.9	199.0	170.3	165.1	171.1	185.1	207.7	212.9
50°	1983.5	1545.8	672.6	291.1	198.0	171.1	165.9	169.4	181.5	202.5	207.7
52.5°	2168.7	1663.8	693.3	289.3	199.0	173.0	166.8	168.5	176.3	195.6	199.9
55°	2360.7	1820.2	729.0	291.9	200.7	175.4	167.8	166.8	172.0	186.8	192.0
57.5°	2577.9	1982.6	773.4	298.0	203.2	177.2	168.5	165.1	166.8	179.0	183.3
60°	2793.4	2147.8	818.4	305.9	208.5	179.8	169.4	164.2	164.2	173.7	177.2
62.5°	2988.8	2293.0	855.8	316.3	212.9	181.5	169.4	162.5	161.7	169.4	173.0
65°	3122.7	2369.4	864.4	322.3	217.2	182.4	167.8	160.7	159.9	165.9	169.4
67.5°	3158.4	2357.2	847.1	324.9	219.8	182.4	167.8	159.0	159.9	165.1	167.8
70°	3019.3	2231.2	789.8	319.7	218.9	181.5	165.9	157.3	159.0	164.2	165.9
72.5°	2687.4	1970.5	701.1	306.7	214.7	178.1	162.5	154.7	157.3	163.3	165.1
75°	2255.6	1632.6	596.0	285.8	206.8	173.7	159.0	151.2	155.5	161.7	162.5
77.5°	1735.0	1251.2	487.4	258.9	196.4	167.8	153.8	146.0	152.1	159.0	158.1
80°	1232.0	912.3	385.0	231.1	182.4	159.0	146.9	139.9	146.9	153.8	152.1
82.5°	848.9	618.7	307.6	204.2	167.8	149.5	139.0	132.9	140.8	146.9	144.3
85°	556.1	417.9	242.5	179.0	153.8	139.9	130.3	124.2	132.1	137.4	133.8
87.5°	358.9	291.1	193.8	155.5	139.0	129.4	120.7	115.5	123.3	127.6	124.2
90°	249.4	212.0	159.9	134.7	125.1	118.1	111.2	106.0	112.9	116.4	114.8
92.5°	178.1	162.5	132.9	118.1	112.9	106.9	100.8	96.5	103.3	106.0	104.3
95°	139.0	129.4	112.9	104.3	101.7	97.2	91.3	86.9	92.0	93.9	93.0
97.5°	111.2	106.9	97.2	92.0	90.4	86.9	82.6	78.2	81.7	82.6	81.7
100°	89.6	87.8	83.5	80.8	79.9	77.3	73.0	69.4	71.2	70.3	70.3
102.5°	71.2	71.2	70.3	69.4	69.4	67.0	63.4	59.9	59.9	58.2	58.2
105°	56.5	58.2	58.2	59.1	59.9	58.2	54.7	50.3	49.5	46.9	46.9
107.5°	44.2	46.1	48.7	49.5	50.3	48.7	46.1	41.7	39.0	36.6	37.4
110°	34.8	36.6	40.0	41.7	42.6	41.7	38.3	34.8	30.5	28.7	29.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.9	29.6	33.0	34.8	35.7	34.8	31.4	27.8	23.4	22.5	22.5
115°	22.5	24.3	27.8	29.6	29.6	28.7	26.1	21.6	18.2	17.3	18.2
117.5°	19.1	20.8	23.4	25.2	25.2	24.3	21.6	17.3	14.7	14.7	14.7
120°	16.4	18.2	20.0	21.6	21.6	20.8	18.2	14.0	12.1	12.1	12.1
122.5°	14.7	15.6	17.3	18.2	18.2	17.3	14.7	11.3	9.5	10.4	10.4
125°	13.0	14.0	15.6	16.4	15.6	14.7	12.1	8.8	7.8	8.8	8.8
127.5°	12.1	13.0	14.0	14.0	14.0	12.1	10.4	6.9	6.9	7.8	7.8
130°	11.3	11.3	12.1	12.1	11.3	10.4	7.8	5.2	5.2	6.9	6.9
132.5°	10.4	10.4	11.3	10.4	10.4	8.8	6.1	4.3	5.2	6.1	6.1
135°	8.8	8.8	9.5	9.5	7.8	6.9	4.3	3.5	3.5	4.3	5.2
137.5°	7.8	8.8	8.8	7.8	6.9	5.2	3.5	2.6	3.5	3.5	4.3
140°	6.9	6.9	6.9	6.1	5.2	3.5	1.7	1.7	2.6	2.6	2.6
142.5°	5.2	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	1.7	1.7
145°	4.3	4.3	4.3	3.5	2.6	1.7	0.9	0.9	0.9	0.9	0.9
147.5°	2.6	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.9	0.9	0.9	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)