

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: P240539

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240539
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-AF24-90-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 7808.2 lumens
Efficiency: N/A
Efficacy: 83.1 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: B2 - U3 - G3

Input Watts (W): 94
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



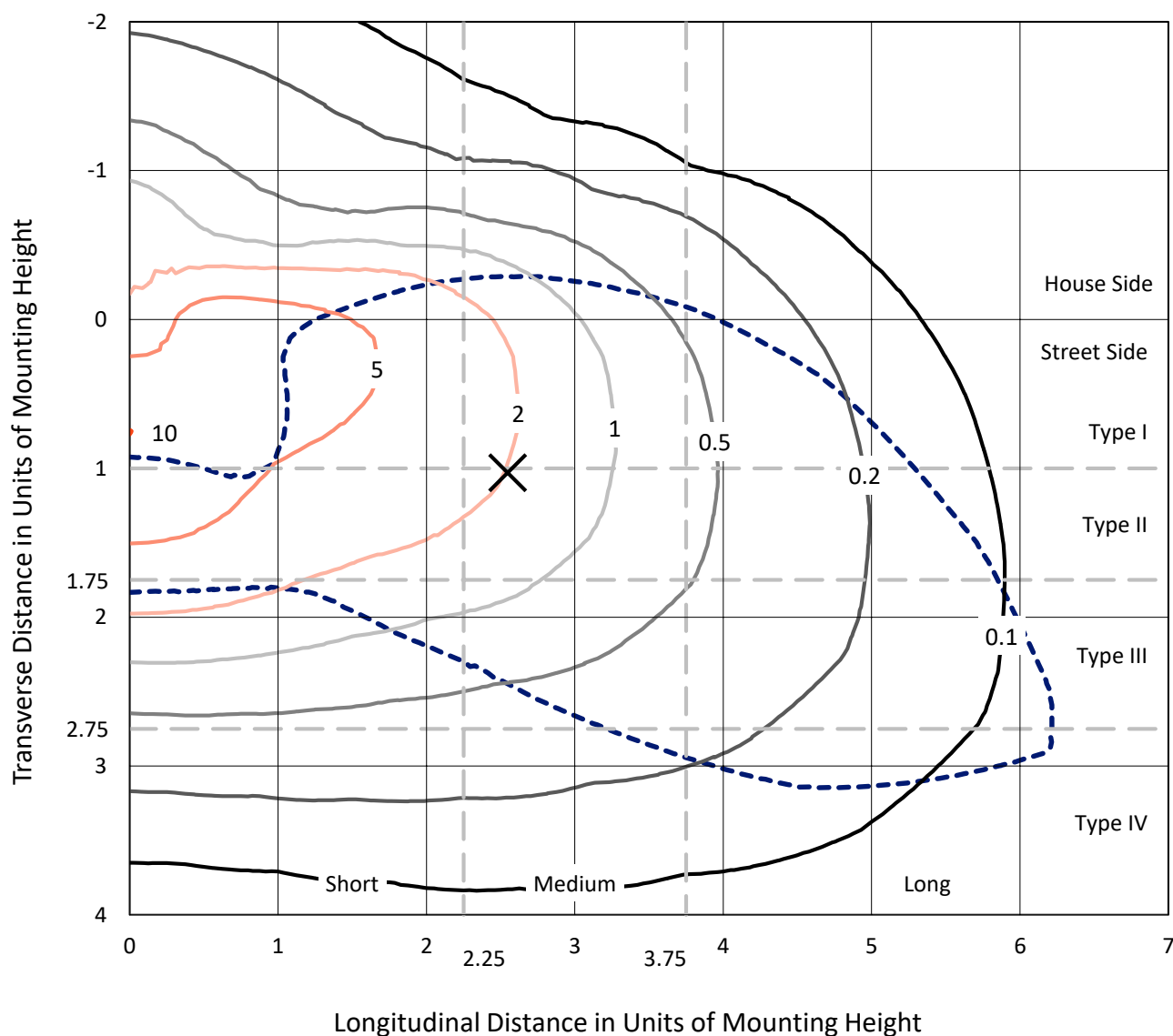
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

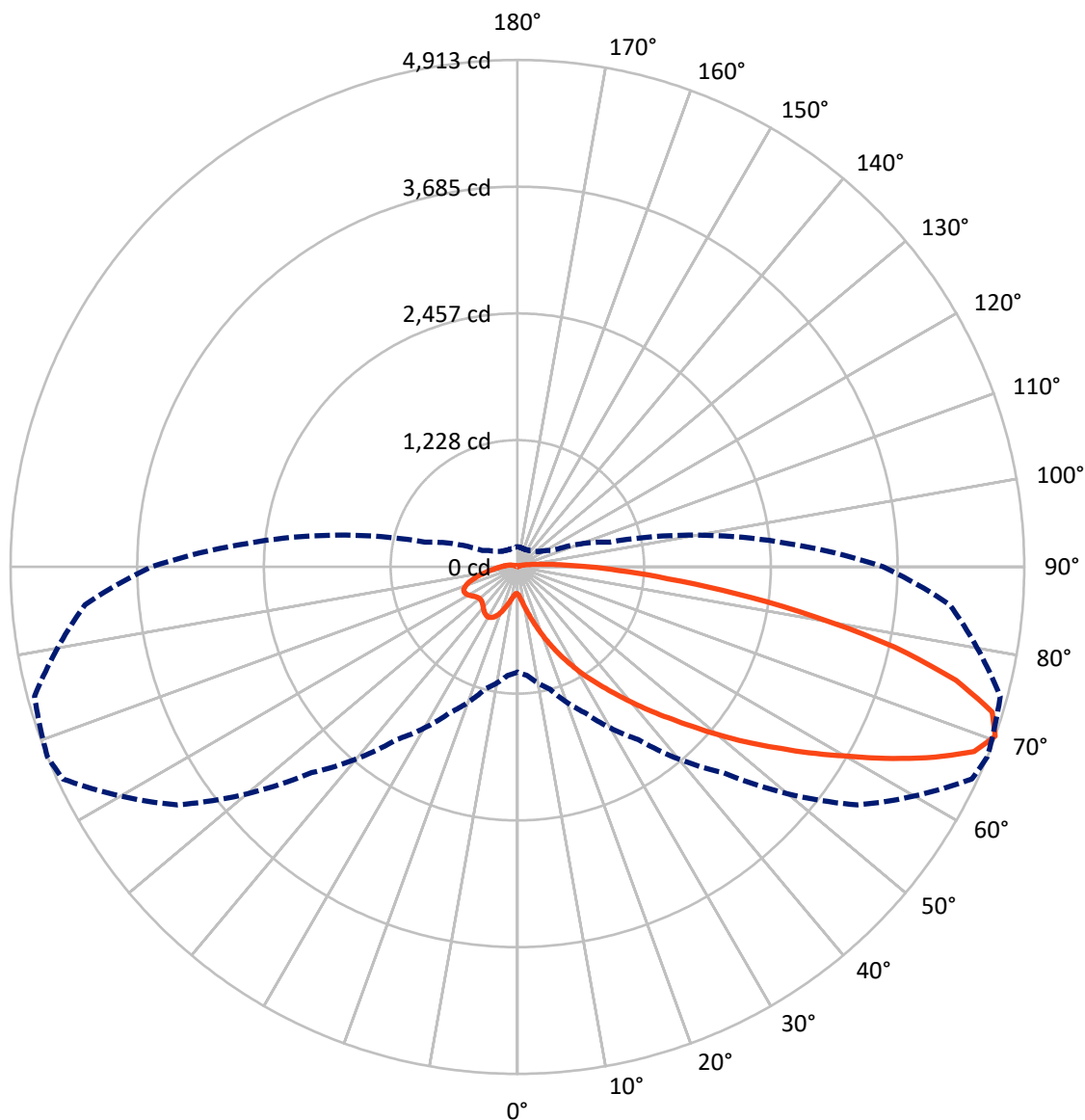


Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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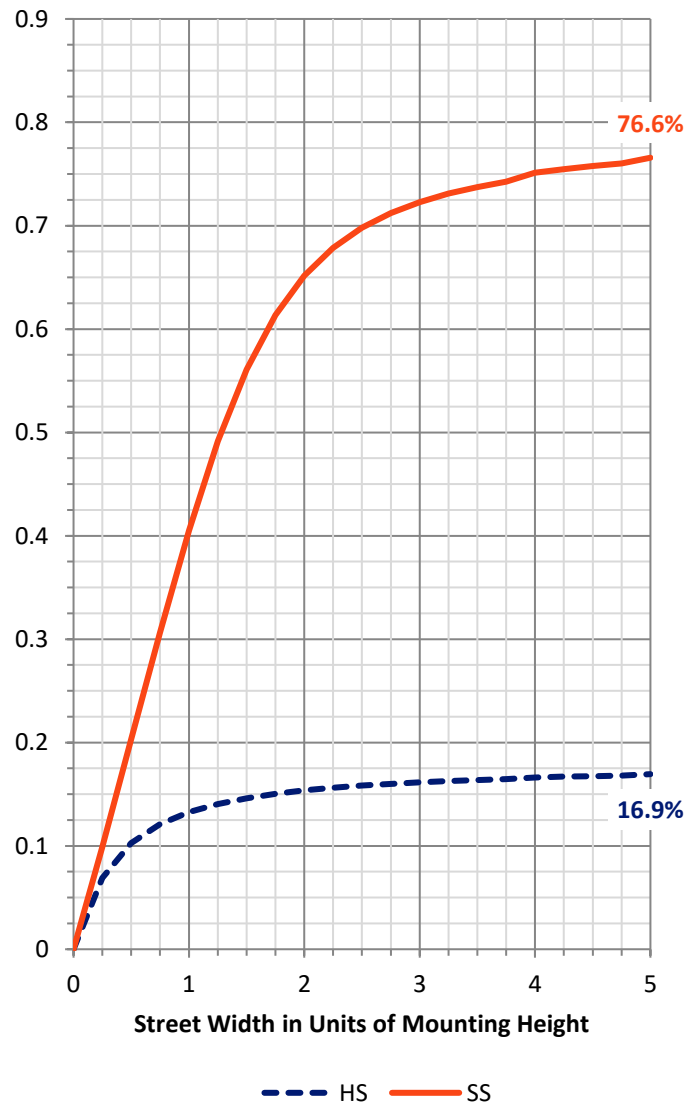
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.2	126.8	1507.0
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	6127.6	173.6	6301.2
	% Fixture	78.5	2.2	80.7
Total	Lumens	7507.8	300.5	7808.2
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	0.4
10°-20°	123.9	1.6
20°-30°	313.4	4.0
30°-40°	607.5	7.8
40°-50°	1024.2	13.1
50°-60°	1531.3	19.6
60°-70°	1856.8	23.8
70°-80°	1448.7	18.6
80°-90°	573.3	7.3
90°-100°	175.6	2.2
100°-110°	69.0	0.9
110°-120°	30.6	0.4
120°-130°	15.1	0.2
130°-140°	7.4	0.1
140°-150°	2.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7507.8	96.2
0°-180°	7808.2	100.0

Coefficient of Utilization



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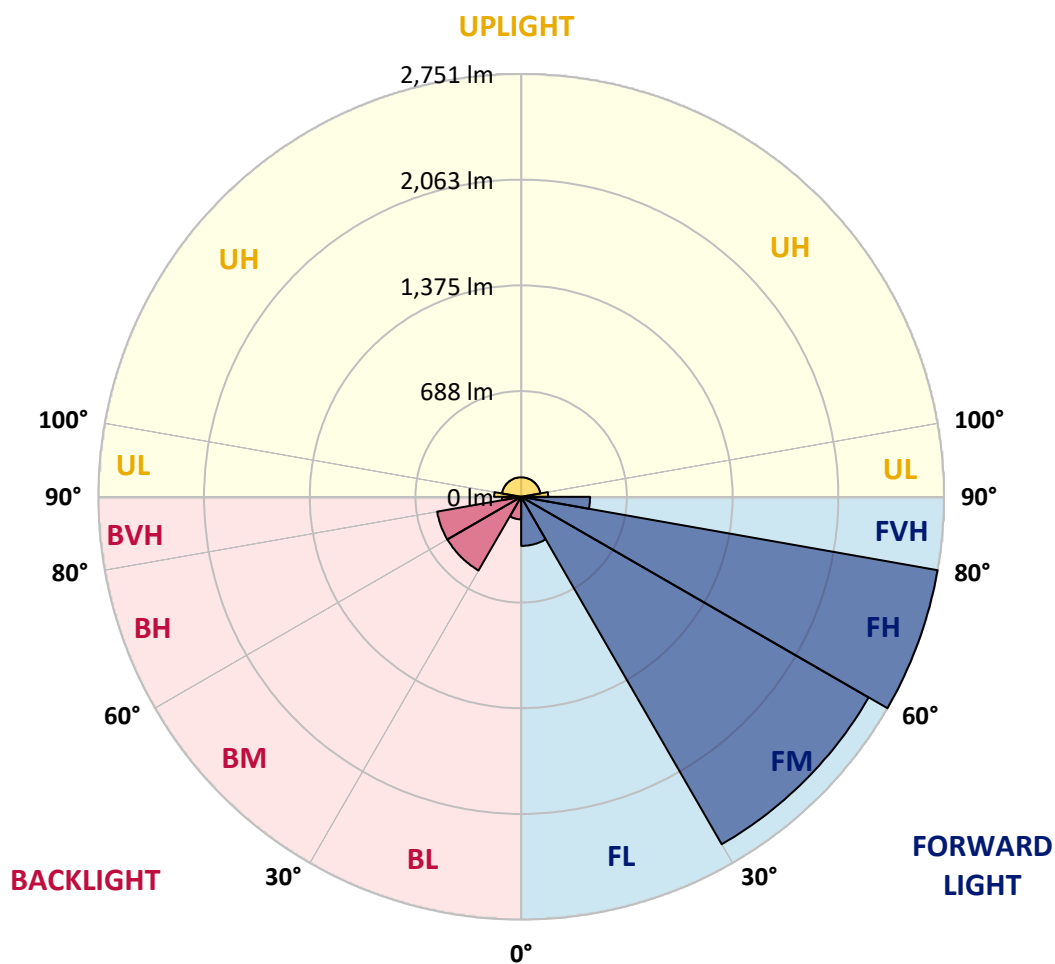
CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.2	4.1			
FM	(30°-60°)	2609.8	33.4			
FH	(60°-80°)	2750.5	35.2			G2/5000
FVH	(80°-90°)	448.1	5.7			G3/500
BL	(0°-30°)	146.7	1.9	B1/500		
BM	(30°-60°)	553.2	7.1	B1/1000		
BH	(60°-80°)	555.1	7.1	B2/1000		G2/1000
BVH	(80°-90°)	125.2	1.6			G2/225
UL	(90°-100°)	175.6	2.2		U3/500	
UH	(100°-180°)	126.8	1.6		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	292.0	293.0	293.0	289.9	288.9	285.8	280.7	278.7	276.6	274.6	270.6
5°	330.7	330.7	328.7	325.6	321.6	318.5	313.4	307.3	306.3	299.1	292.0
7.5°	374.6	375.6	376.7	371.6	365.5	360.4	354.2	346.1	344.0	336.9	323.6
10°	432.8	433.8	431.8	426.7	418.6	412.5	405.3	397.1	394.0	387.9	369.6
12.5°	503.3	502.3	496.1	489.0	479.8	472.6	463.5	457.4	455.3	449.2	429.7
15°	577.8	581.9	574.7	558.4	547.2	535.9	531.8	531.8	533.9	526.7	508.4
17.5°	673.7	676.8	664.6	642.1	623.7	611.5	607.4	615.6	618.7	621.6	605.4
20°	785.0	786.0	766.7	735.0	702.4	687.0	688.0	707.5	714.6	725.8	706.4
22.5°	920.8	912.7	885.1	836.1	789.1	764.7	773.8	812.6	818.8	842.2	832.0
25°	1062.7	1061.7	1015.8	950.4	882.0	850.4	865.7	913.7	931.0	966.8	953.5
27.5°	1226.0	1221.9	1162.8	1082.1	989.2	942.2	955.5	1023.9	1044.3	1104.6	1090.3
30°	1399.6	1400.6	1331.2	1218.8	1103.6	1038.2	1046.4	1141.3	1167.8	1237.3	1233.2
32.5°	1606.9	1594.6	1516.9	1369.9	1228.1	1139.3	1150.5	1260.8	1297.5	1380.2	1367.9
35°	1815.0	1799.8	1696.7	1535.3	1357.8	1252.6	1257.7	1388.3	1427.1	1534.3	1510.9
37.5°	2007.0	1998.8	1895.7	1710.0	1502.7	1378.1	1384.3	1525.1	1574.1	1693.6	1665.0
40°	2213.2	2213.2	2108.1	1906.0	1663.9	1514.0	1523.1	1677.2	1736.5	1867.1	1819.1
42.5°	2431.7	2424.5	2313.2	2084.6	1824.2	1659.9	1678.3	1848.8	1915.1	2054.0	2005.0
45°	2647.1	2631.7	2516.4	2278.5	1984.5	1824.2	1851.8	2036.6	2106.1	2282.6	2214.2
47.5°	2832.9	2816.5	2703.2	2453.1	2153.0	1994.8	2033.5	2255.1	2328.5	2538.9	2434.7
50°	2965.5	2960.4	2850.2	2592.0	2303.1	2170.3	2252.0	2487.8	2575.6	2788.0	2690.0
52.5°	3043.2	3034.0	2946.2	2717.5	2453.1	2352.1	2476.6	2741.0	2833.9	3062.5	2948.2
55°	3025.8	3019.6	2957.4	2783.9	2570.5	2526.6	2725.7	3022.7	3109.5	3356.5	3220.8
57.5°	2889.0	2897.2	2878.8	2788.0	2657.2	2707.2	2980.9	3319.8	3411.6	3652.5	3507.6
60°	2645.0	2642.0	2694.0	2709.3	2692.0	2863.4	3289.2	3658.7	3729.2	3972.1	3787.4
62.5°	2284.7	2276.5	2389.8	2535.8	2666.4	2995.2	3566.8	4020.1	4090.6	4286.6	4045.7
65°	1842.6	1879.4	2021.2	2262.2	2539.9	3045.2	3836.4	4388.7	4446.8	4550.9	4248.7
67.5°	1396.5	1432.2	1616.0	1921.2	2328.5	2987.0	4007.8	4719.4	4775.5	4803.1	4337.6
70°	1019.8	1054.6	1228.1	1563.0	2041.7	2818.5	4021.1	4862.3	4913.3	4845.9	4206.9
72.5°	725.8	744.2	893.2	1210.8	1715.0	2523.5	3853.7	4770.4	4812.3	4625.5	3861.8
75°	513.5	521.6	650.3	920.8	1396.5	2189.7	3455.5	4359.0	4391.7	4156.9	3284.1
77.5°	350.2	368.6	470.7	702.4	1119.8	1797.7	2928.8	3737.4	3737.4	3439.3	2598.1
80°	248.1	263.4	337.9	524.7	876.9	1440.4	2366.3	2969.6	2922.7	2584.8	1872.2
82.5°	178.6	190.9	250.1	400.2	680.9	1138.2	1795.7	2198.9	2134.6	1803.9	1237.3
85°	129.6	141.9	189.9	294.0	521.6	883.0	1345.5	1527.2	1463.9	1195.4	803.4
87.5°	94.9	103.1	141.9	221.6	395.1	668.7	987.1	1037.2	981.0	772.7	515.6
90°	67.4	74.5	108.2	167.5	296.0	502.3	693.2	680.9	619.7	485.9	340.9
92.5°	49.0	54.1	80.6	127.6	220.5	368.6	476.7	440.0	405.3	312.4	236.8
95°	36.7	40.8	63.3	99.0	162.3	259.3	321.6	288.9	262.4	213.4	174.5
97.5°	29.6	32.6	52.1	79.6	125.5	188.8	222.6	190.9	178.6	154.2	134.7
100°	25.5	27.5	43.9	66.4	99.0	141.9	157.2	133.7	126.5	116.4	105.2
102.5°	23.5	24.6	38.8	57.2	80.6	106.2	113.3	100.0	94.9	88.8	82.7
105°	21.5	22.5	34.7	50.0	68.4	82.7	86.7	76.5	73.6	67.4	63.3
107.5°	20.5	20.5	30.6	43.9	58.2	68.4	68.4	60.3	57.2	51.0	49.0
110°	19.4	19.4	27.5	39.8	50.0	58.2	56.2	48.0	44.9	38.8	37.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	18.4	18.4	25.5	34.7	43.9	49.0	47.0	38.8	35.7	29.6	29.6
115°	17.4	17.4	22.5	30.6	38.8	41.8	39.8	31.6	29.6	23.5	24.6
117.5°	17.4	17.4	21.5	27.5	33.7	36.7	33.7	25.5	23.5	19.4	21.5
120°	16.4	16.4	19.4	24.6	29.6	31.6	28.5	21.5	19.4	16.4	18.4
122.5°	16.4	16.4	18.4	21.5	26.5	27.5	24.6	18.4	16.4	14.3	16.4
125°	15.3	15.3	17.4	19.4	22.5	23.5	20.5	15.3	14.3	13.3	14.3
127.5°	15.3	15.3	16.4	17.4	20.5	20.5	17.4	12.3	12.3	11.3	13.3
130°	14.3	15.3	15.3	16.4	17.4	17.4	14.3	10.2	10.2	10.2	12.3
132.5°	14.3	14.3	14.3	14.3	15.3	14.3	11.3	9.2	9.2	9.2	11.3
135°	13.3	13.3	13.3	13.3	12.3	11.3	9.2	7.2	7.2	8.2	10.2
137.5°	13.3	13.3	12.3	11.3	11.3	9.2	7.2	6.1	6.1	8.2	9.2
140°	12.3	12.3	11.3	10.2	8.2	7.2	5.1	5.1	5.1	6.1	7.2
142.5°	10.2	10.2	10.2	8.2	6.1	4.1	3.1	3.1	4.1	5.1	6.1
145°	9.2	9.2	8.2	7.2	4.1	2.0	1.0	2.0	3.1	4.1	5.1
147.5°	7.2	7.2	6.1	5.1	2.0	1.0	0.0	1.0	2.0	2.0	3.1
150°	5.1	5.1	5.1	3.1	1.0	0.0	0.0	1.0	1.0	1.0	2.0
152.5°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	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°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	267.5	266.5	261.4	257.3	252.2	248.1	244.0	240.9	239.9	237.8	238.9
5°	285.8	281.7	271.6	262.4	252.2	243.0	234.8	228.6	223.5	221.6	220.5
7.5°	317.5	311.4	293.0	276.6	260.3	244.0	230.7	220.5	214.4	210.3	210.3
10°	363.5	350.2	326.6	299.1	271.6	248.1	229.7	215.4	206.2	203.2	203.2
12.5°	419.6	405.3	368.6	326.6	287.9	255.2	230.7	215.4	206.2	202.1	201.1
15°	494.1	472.6	418.6	359.4	303.2	261.4	231.7	216.5	210.3	208.3	208.3
17.5°	581.9	555.4	476.7	395.1	320.6	264.4	234.8	222.6	219.5	219.5	219.5
20°	686.0	647.2	542.1	426.7	332.8	267.5	236.8	227.6	227.6	229.7	230.7
22.5°	797.3	748.3	605.4	456.3	336.9	269.5	235.8	229.7	234.8	239.9	240.9
25°	915.7	847.3	662.6	474.6	338.9	264.4	232.7	230.7	240.9	248.1	250.1
27.5°	1041.3	948.4	711.6	481.8	332.8	255.2	227.6	228.6	244.0	254.2	256.2
30°	1156.7	1043.3	750.3	479.8	319.6	244.0	221.6	225.6	244.0	258.3	261.4
32.5°	1276.0	1137.2	773.8	470.7	303.2	231.7	214.4	222.6	243.0	259.3	262.4
35°	1395.5	1219.9	785.0	452.2	284.8	220.5	207.2	217.5	239.9	258.3	260.3
37.5°	1514.9	1301.6	788.1	428.7	268.5	211.3	202.1	214.4	234.8	256.2	259.3
40°	1643.6	1382.2	781.9	405.3	253.2	205.2	198.0	210.3	230.7	253.2	257.3
42.5°	1787.5	1467.9	774.8	381.8	243.0	201.1	195.0	206.2	224.5	250.1	255.2
45°	1947.8	1561.9	770.7	363.5	236.8	199.1	194.0	203.2	221.6	248.1	253.2
47.5°	2120.3	1680.3	774.8	351.2	233.7	200.1	194.0	201.1	217.5	244.0	250.1
50°	2330.6	1816.0	790.1	342.0	232.7	201.1	195.0	199.1	213.4	237.8	244.0
52.5°	2548.1	1955.0	814.7	339.9	233.7	203.2	196.0	198.0	207.2	229.7	234.8
55°	2773.6	2138.7	856.5	343.0	235.8	206.2	197.0	196.0	202.1	219.5	225.6
57.5°	3028.9	2329.6	908.6	350.2	238.9	208.3	198.0	194.0	196.0	210.3	215.4
60°	3282.0	2523.5	961.7	359.4	245.0	211.3	199.1	192.9	192.9	204.2	208.3
62.5°	3511.7	2694.0	1005.6	371.6	250.1	213.4	199.1	190.9	189.9	199.1	203.2
65°	3668.9	2783.9	1015.8	378.7	255.2	214.4	197.0	188.8	187.8	195.0	199.1
67.5°	3710.8	2769.5	995.3	381.8	258.3	214.4	197.0	186.8	187.8	194.0	197.0
70°	3547.5	2621.5	927.9	375.6	257.3	213.4	195.0	184.7	186.8	192.9	195.0
72.5°	3157.4	2315.2	823.8	360.4	252.2	209.3	190.9	181.7	184.7	191.9	194.0
75°	2650.2	1918.1	700.3	335.8	243.0	204.2	186.8	177.6	182.7	189.9	190.9
77.5°	2038.6	1470.0	572.6	304.2	230.7	197.0	180.7	171.5	178.6	186.8	185.8
80°	1447.6	1071.8	452.2	271.6	214.4	186.8	172.6	164.4	172.6	180.7	178.6
82.5°	997.4	726.8	361.4	239.9	197.0	175.5	163.4	156.2	165.4	172.6	169.5
85°	653.4	491.0	284.8	210.3	180.7	164.4	153.1	146.0	155.2	161.3	157.2
87.5°	421.7	342.0	227.6	182.7	163.4	152.1	141.9	135.7	145.0	150.1	146.0
90°	293.0	249.1	187.8	158.3	147.0	138.8	130.6	124.5	132.7	136.8	134.7
92.5°	209.3	190.9	156.2	138.8	132.7	125.5	118.5	113.3	121.5	124.5	122.5
95°	163.4	152.1	132.7	122.5	119.5	114.4	107.2	102.1	108.2	110.3	109.3
97.5°	130.6	125.5	114.4	108.2	106.2	102.1	97.0	91.9	96.0	97.0	96.0
100°	105.2	103.1	98.0	94.9	93.9	90.8	85.7	81.6	83.7	82.7	82.7
102.5°	83.7	83.7	82.7	81.6	81.6	78.6	74.5	70.5	70.5	68.4	68.4
105°	66.4	68.4	68.4	69.5	70.5	68.4	64.3	59.2	58.2	55.1	55.1
107.5°	52.1	54.1	57.2	58.2	59.2	57.2	54.1	49.0	45.9	42.9	43.9
110°	40.8	42.9	47.0	49.0	50.0	49.0	44.9	40.8	35.7	33.7	34.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31.6	34.7	38.8	40.8	41.8	40.8	36.7	32.6	27.5	26.5	26.5
115°	26.5	28.5	32.6	34.7	34.7	33.7	30.6	25.5	21.5	20.5	21.5
117.5°	22.5	24.6	27.5	29.6	29.6	28.5	25.5	20.5	17.4	17.4	17.4
120°	19.4	21.5	23.5	25.5	25.5	24.6	21.5	16.4	14.3	14.3	14.3
122.5°	17.4	18.4	20.5	21.5	21.5	20.5	17.4	13.3	11.3	12.3	12.3
125°	15.3	16.4	18.4	19.4	18.4	17.4	14.3	10.2	9.2	10.2	10.2
127.5°	14.3	15.3	16.4	16.4	16.4	14.3	12.3	8.2	8.2	9.2	9.2
130°	13.3	13.3	14.3	14.3	13.3	12.3	9.2	6.1	6.1	8.2	8.2
132.5°	12.3	12.3	13.3	12.3	12.3	10.2	7.2	5.1	6.1	7.2	7.2
135°	10.2	10.2	11.3	11.3	9.2	8.2	5.1	4.1	4.1	5.1	6.1
137.5°	9.2	10.2	10.2	9.2	8.2	6.1	4.1	3.1	4.1	4.1	5.1
140°	8.2	8.2	8.2	7.2	6.1	4.1	2.0	2.0	3.1	3.1	3.1
142.5°	6.1	7.2	7.2	6.1	4.1	2.0	1.0	1.0	2.0	2.0	2.0
145°	5.1	5.1	5.1	4.1	3.1	2.0	1.0	1.0	1.0	1.0	1.0
147.5°	3.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	3.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	1.0	1.0	1.0	1.0	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)