

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: P266451

Luminaire Tested: **UTLD-AF24-70-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5803.5 lumens
Efficiency: N/A
Efficacy: 78.4 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): 74
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

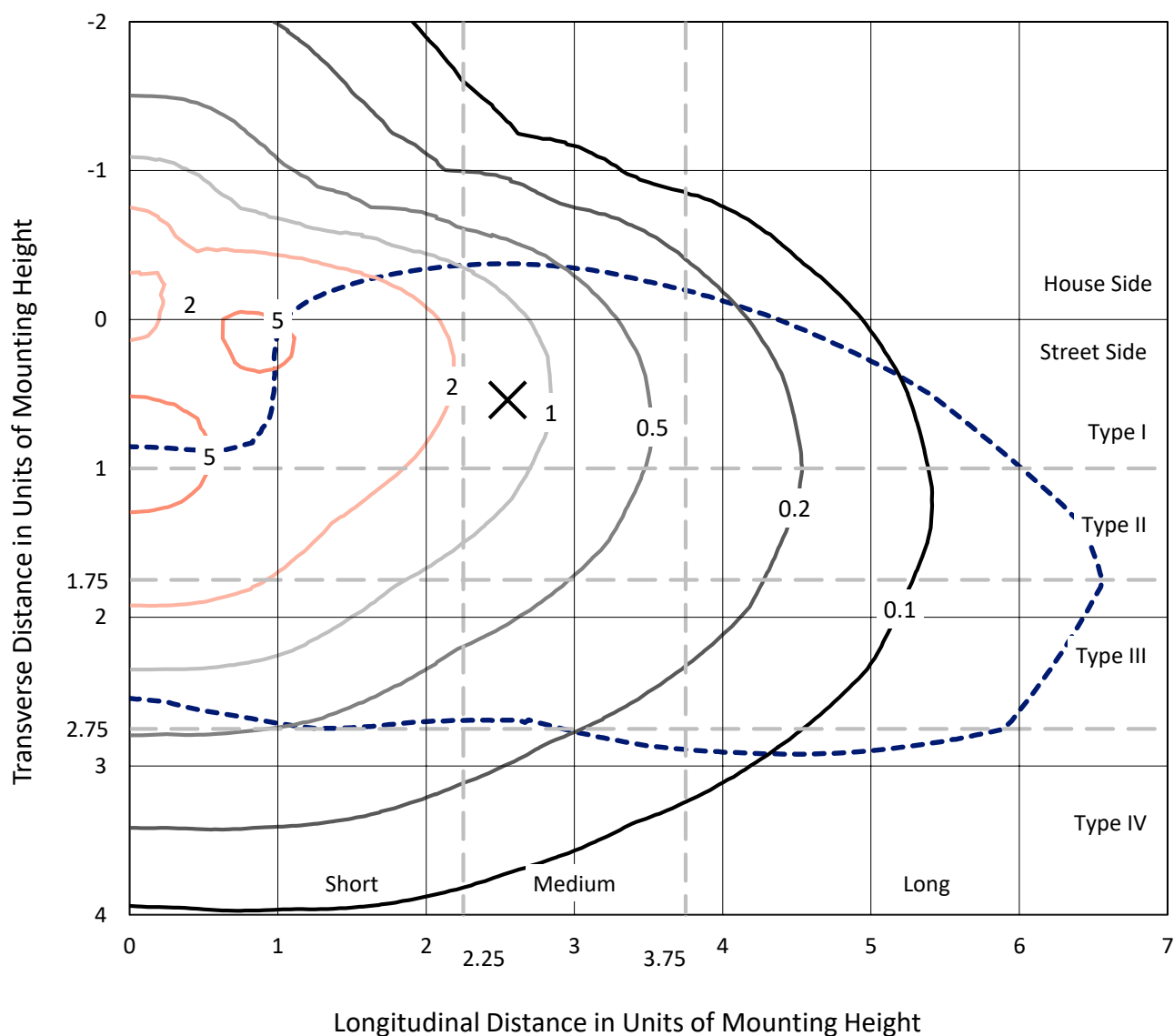


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

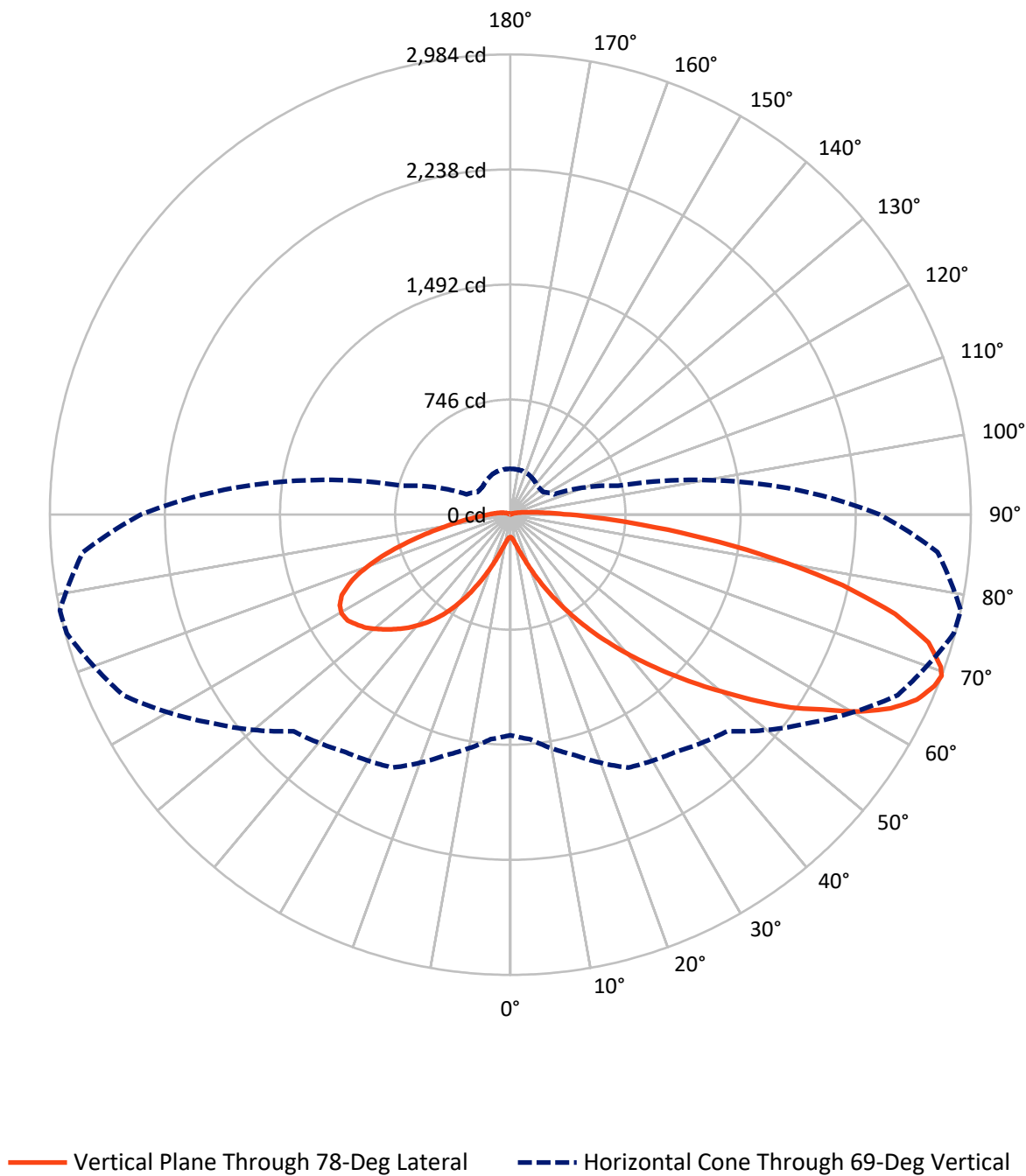


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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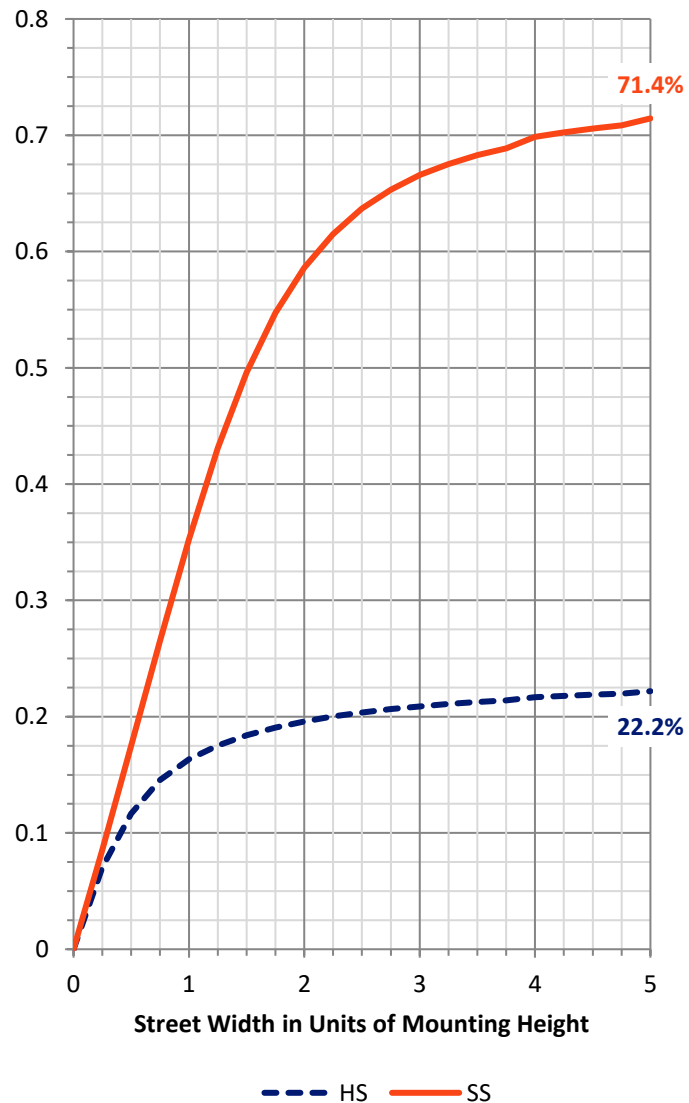
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.1	101.3	1449.4
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4242.8	111.3	4354.1
	% Fixture	73.1	1.9	75.0
Total	Lumens	5590.9	212.6	5803.5
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.3
10°-20°	74.5	1.3
20°-30°	212.6	3.7
30°-40°	451.9	7.8
40°-50°	783.5	13.5
50°-60°	1172.9	20.2
60°-70°	1396.1	24.1
70°-80°	1064.9	18.3
80°-90°	418.4	7.2
90°-100°	122.8	2.1
100°-110°	49.7	0.9
110°-120°	22.4	0.4
120°-130°	10.9	0.2
130°-140°	5.1	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5590.9	96.3
0°-180°	5803.5	100.0

Coefficient of Utilization



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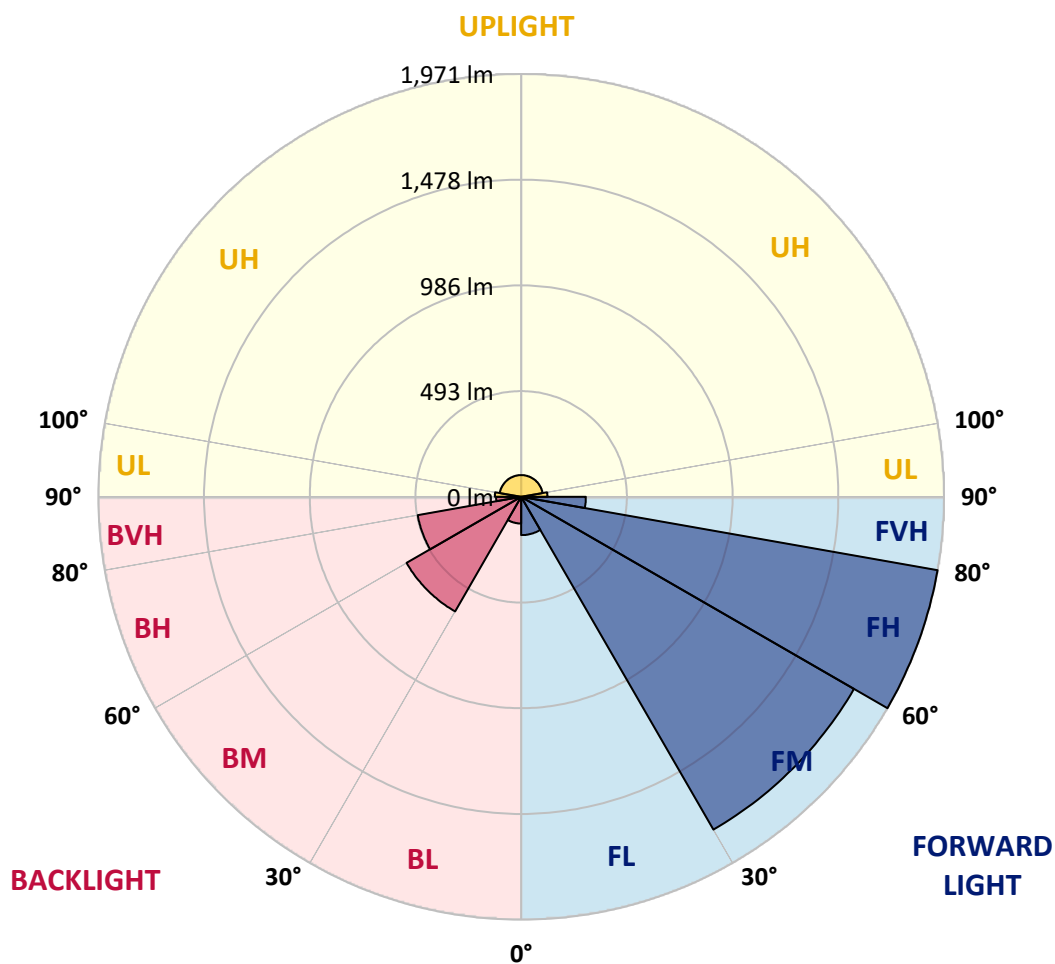
CATALOG NUMBER: UTLD-AF24-70-D-U-T3-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.6	3.1			
FM	(30°-60°)	1791.4	30.9			
FH	(60°-80°)	1971.3	34.0			G2/5000
FVH	(80°-90°)	301.4	5.2			G3/500
BL	(0°-30°)	124.7	2.1	B1/500		
BM	(30°-60°)	616.9	10.6	B1/1000		
BH	(60°-80°)	489.7	8.4	B1/500		G1/500
BVH	(80°-90°)	116.9	2.0			G2/225
UL	(90°-100°)	122.8	2.1		U3/500	
UH	(100°-180°)	101.3	1.7		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°	75°	78°	85°
0°	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9
2.5°	157.6	157.6	156.8	156.8	156.0	154.6	152.4	150.9	150.1	150.1	148.7
5°	175.1	175.1	173.6	173.6	171.4	169.2	166.4	162.7	160.4	159.7	157.6
7.5°	198.5	197.8	197.1	194.9	192.6	188.4	184.6	181.0	176.5	175.9	173.0
10°	228.6	227.1	227.1	224.1	219.8	214.7	208.0	202.9	198.5	197.8	194.9
12.5°	268.1	266.6	264.6	258.6	252.1	244.0	238.1	233.0	228.6	227.1	223.5
15°	315.0	314.3	308.5	301.1	289.4	279.2	272.5	268.1	266.6	265.2	261.5
17.5°	373.6	370.0	364.2	349.5	334.1	319.4	313.6	314.3	315.0	315.0	312.2
20°	438.9	437.5	428.6	408.9	387.6	369.3	364.2	368.6	374.5	374.5	373.6
22.5°	524.6	520.2	504.0	476.2	446.2	428.0	420.5	430.1	446.2	446.9	450.0
25°	618.5	617.0	591.3	550.2	512.2	490.1	485.1	496.8	526.0	528.3	536.3
27.5°	722.4	718.7	695.3	637.4	587.6	555.4	553.1	578.8	610.3	621.3	633.0
30°	848.4	844.8	800.1	733.5	672.7	630.2	630.8	663.8	712.1	721.7	738.5
32.5°	978.9	975.2	929.0	845.6	764.9	712.1	713.7	762.8	818.4	830.2	848.4
35°	1129.1	1127.6	1066.7	964.2	862.4	798.7	809.6	861.7	930.6	949.6	965.7
37.5°	1291.8	1275.7	1216.2	1096.8	969.4	899.7	907.7	977.4	1058.7	1067.5	1083.6
40°	1455.2	1451.4	1380.3	1246.3	1092.3	1006.0	1017.1	1095.4	1183.2	1199.3	1208.2
42.5°	1627.3	1625.8	1542.3	1395.7	1219.9	1123.2	1133.4	1222.9	1321.0	1336.4	1340.8
45°	1810.4	1800.3	1717.4	1553.3	1367.2	1247.7	1266.2	1358.3	1474.2	1486.7	1488.9
47.5°	1967.9	1954.8	1892.5	1721.8	1510.8	1382.6	1396.4	1511.5	1633.2	1646.4	1641.3
50°	2110.1	2104.3	2041.3	1890.4	1668.3	1518.9	1538.6	1663.9	1800.9	1817.0	1811.9
52.5°	2203.2	2199.5	2173.9	2028.1	1806.9	1658.0	1685.8	1822.2	1984.0	2007.5	1980.5
55°	2249.4	2249.4	2254.4	2148.9	1933.5	1790.0	1833.3	1998.0	2174.5	2207.6	2169.4
57.5°	2245.7	2241.4	2283.9	2231.7	2031.0	1896.2	1980.5	2184.9	2370.2	2383.5	2363.6
60°	2162.1	2176.1	2250.9	2260.3	2100.5	1990.7	2121.1	2357.8	2557.0	2592.1	2532.1
62.5°	2028.8	2055.2	2164.3	2227.3	2119.6	2058.0	2242.0	2509.4	2730.7	2766.6	2680.9
65°	1844.8	1872.0	2006.1	2127.7	2081.6	2080.8	2324.9	2647.9	2869.1	2894.8	2779.7
67.5°	1614.2	1622.9	1777.4	1952.6	1973.8	2046.3	2364.3	2743.2	2969.5	2965.1	2815.0
69°	1430.2	1461.7	1614.2	1809.7	1875.8	1986.3	2357.1	2769.6	2975.5	2984.2	2779.7
70°	1337.1	1343.0	1493.3	1691.8	1806.9	1932.1	2332.1	2763.6	2965.9	2959.2	2739.6
72.5°	1038.3	1049.8	1187.6	1403.8	1562.8	1751.9	2209.8	2664.7	2851.0	2834.1	2532.1
75°	740.7	760.5	887.3	1090.3	1278.6	1516.7	1984.0	2452.4	2614.2	2575.4	2233.9
77.5°	505.6	526.0	620.5	806.7	994.2	1253.7	1673.5	2130.6	2242.0	2201.7	1825.8
80°	324.6	338.5	413.2	560.5	739.2	962.8	1332.7	1707.1	1806.0	1734.3	1395.7
82.5°	214.7	223.5	275.5	379.5	517.2	710.0	988.3	1275.7	1319.6	1274.2	978.2
85°	145.0	150.9	188.4	258.0	362.6	499.6	699.7	887.3	923.2	860.1	652.1
87.5°	99.6	105.6	135.6	180.2	252.1	348.7	468.9	596.5	585.4	556.1	425.6
90°	71.1	76.1	97.5	128.2	178.0	242.5	312.9	377.4	375.9	347.3	271.8
92.5°	51.4	55.7	74.0	95.9	132.0	170.0	211.0	237.4	237.4	225.7	180.2
95°	38.8	41.9	56.5	73.3	99.0	126.0	147.2	161.2	158.2	149.5	130.4
97.5°	30.8	33.0	44.6	59.4	78.4	97.5	110.0	111.4	109.1	106.2	96.7
100°	25.6	27.0	37.4	49.9	65.1	79.1	85.0	82.9	79.9	79.1	74.0
102.5°	22.0	22.6	32.2	43.2	55.7	65.9	68.1	64.5	60.8	60.0	57.9
105°	19.9	19.9	27.8	37.4	47.6	54.9	56.5	52.0	46.9	45.5	44.6
107.5°	17.5	18.3	24.2	33.0	41.1	46.9	46.9	41.9	35.9	34.5	34.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	16.1	16.1	21.2	29.4	35.9	40.3	39.5	33.6	27.8	26.4	27.0
112.5°	14.6	14.6	19.0	25.6	31.5	34.5	33.0	27.0	22.0	21.2	21.2
115°	14.0	14.0	16.9	22.6	27.0	29.4	27.8	22.0	17.5	16.9	17.5
117.5°	12.4	13.1	15.5	19.9	23.4	25.6	23.4	18.3	14.6	14.0	15.5
120°	11.7	12.4	14.0	16.9	20.5	22.0	19.0	15.5	12.4	12.4	13.1
122.5°	11.0	11.7	12.4	15.5	17.5	18.3	16.1	12.4	10.3	11.0	11.7
125°	11.0	11.0	11.7	13.1	15.5	15.5	13.1	10.3	9.5	9.5	10.3
127.5°	10.3	10.3	10.3	11.7	13.1	13.1	11.0	8.9	8.1	8.9	9.5
130°	9.5	9.5	9.5	10.3	11.0	11.0	9.5	7.4	7.4	7.4	8.1
132.5°	8.9	8.9	8.9	8.9	9.5	8.9	7.4	5.8	6.6	6.6	7.4
135°	8.1	8.1	8.1	8.1	7.4	6.6	5.1	5.1	5.8	5.8	6.6
137.5°	7.4	7.4	7.4	6.6	5.8	5.1	4.4	4.4	5.1	5.1	5.8
140°	6.6	6.6	6.6	5.1	4.4	3.7	3.0	3.0	4.4	4.4	4.4
142.5°	5.8	5.8	5.1	4.4	3.7	2.2	1.4	2.2	3.0	3.0	3.7
145°	4.4	4.4	4.4	3.7	2.2	1.4	0.7	1.4	2.2	2.2	3.0
147.5°	3.7	3.7	3.7	3.0	1.4	0.7	0.7	0.7	1.4	1.4	2.2
150°	3.0	3.0	2.2	2.2	0.7	0.0	0.0	0.7	0.7	1.4	1.4
152.5°	2.2	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.7	0.7	0.7
155°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.7	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°	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9
2.5°	148.0	147.2	146.6	145.0	144.4	142.9	141.5	140.0	140.0	140.0	139.1
5°	156.8	155.3	153.2	150.1	148.0	145.9	143.5	141.5	140.7	140.0	140.0
7.5°	170.7	169.2	164.8	161.2	156.8	153.9	150.1	148.7	147.2	146.6	146.6
10°	192.0	189.1	183.2	177.3	172.1	166.4	162.7	160.4	158.2	157.6	158.2
12.5°	220.5	215.5	208.0	199.2	190.5	183.2	178.8	176.5	175.9	175.1	175.1
15°	260.1	256.5	241.7	226.5	213.9	203.6	197.8	195.7	200.1	201.5	201.5
17.5°	311.4	304.7	287.2	266.0	240.3	224.9	220.5	224.1	227.9	232.2	233.0
20°	375.1	364.2	341.4	307.0	272.5	250.5	246.9	251.3	260.1	266.0	266.6
22.5°	444.8	437.5	402.3	351.0	304.7	279.2	271.1	277.7	291.6	299.7	300.5
25°	534.1	522.5	469.6	399.2	338.5	302.5	293.0	302.5	319.4	332.0	332.6
27.5°	631.6	613.3	544.5	447.6	367.0	322.4	310.6	323.1	345.8	360.5	361.9
30°	732.7	707.1	618.5	493.1	392.6	335.5	323.1	338.5	364.2	381.1	383.1
32.5°	838.9	808.1	686.6	532.6	409.5	343.0	329.7	348.1	375.1	392.6	395.0
35°	947.4	908.5	750.3	561.3	417.6	344.4	330.4	351.0	377.4	395.7	397.9
37.5°	1061.6	1004.6	806.0	581.1	419.1	340.0	327.5	348.1	372.9	389.8	391.2
40°	1172.3	1098.3	852.9	589.7	413.9	333.5	320.2	341.4	362.6	375.1	376.6
42.5°	1293.9	1199.3	893.9	589.7	403.7	325.2	312.2	332.0	348.7	357.5	358.2
45°	1417.7	1300.4	926.2	582.6	390.6	315.0	304.0	321.7	334.9	338.5	338.5
47.5°	1560.6	1406.7	956.2	570.1	375.9	304.7	296.0	312.2	321.7	321.7	322.4
50°	1704.3	1518.1	978.9	552.5	359.1	296.0	289.4	304.7	312.2	307.7	307.7
52.5°	1859.5	1632.4	1000.2	529.7	343.6	287.9	285.0	301.1	306.2	299.7	298.1
55°	2016.3	1740.1	1004.6	501.2	326.1	281.3	282.8	298.1	303.4	296.0	295.3
57.5°	2184.0	1850.8	1003.8	468.1	310.6	276.1	280.6	297.5	302.5	295.3	294.6
60°	2313.9	1938.0	980.3	433.7	296.7	271.1	279.9	296.7	302.5	296.7	296.7
62.5°	2431.1	1989.2	936.4	397.1	283.5	267.4	277.7	295.3	301.1	298.1	298.1
65°	2484.5	2003.8	869.0	361.2	272.5	263.1	276.1	293.0	299.7	299.0	299.7
67.5°	2451.6	1935.8	779.5	329.0	262.2	258.0	272.5	289.4	296.7	298.1	299.0
69°	2394.4	1859.5	723.9	312.2	256.5	254.2	269.6	285.8	294.6	296.7	296.7
70°	2343.9	1794.4	677.7	301.9	252.1	252.1	268.1	283.5	292.4	294.6	295.3
72.5°	2099.1	1581.8	572.9	274.7	242.5	244.7	260.9	276.1	285.8	287.9	287.9
75°	1798.8	1297.6	466.7	252.1	231.6	236.7	252.1	266.6	275.5	277.7	276.9
77.5°	1432.3	1006.0	378.7	232.2	219.0	224.1	240.3	254.2	263.1	264.6	261.5
80°	1069.1	733.5	307.0	211.7	204.5	211.0	225.7	237.4	246.1	246.9	242.5
82.5°	740.7	529.7	249.9	192.0	188.4	193.4	206.6	216.9	224.9	222.7	220.5
85°	493.8	363.5	204.5	170.0	170.0	175.9	185.4	192.0	200.1	197.1	192.6
87.5°	325.2	250.5	167.9	148.7	150.1	155.3	162.7	164.8	172.1	170.0	164.8
90°	220.5	180.2	137.7	128.2	130.4	135.6	139.1	139.1	144.4	140.7	138.5
92.5°	156.8	137.7	115.1	110.6	112.8	117.1	117.9	115.1	119.5	117.1	114.4
95°	117.9	108.4	97.5	95.2	98.2	101.1	100.4	95.9	97.5	95.9	95.2
97.5°	91.5	88.7	82.9	81.3	84.3	86.4	85.0	79.9	80.6	79.1	77.7
100°	74.0	71.9	70.3	70.3	72.6	73.3	71.1	66.7	65.9	63.7	64.5
102.5°	58.6	58.6	59.4	60.8	62.3	62.3	59.4	55.7	54.2	52.0	52.0
105°	46.2	46.9	49.9	50.6	52.0	52.0	49.0	46.2	43.2	41.1	41.1
107.5°	35.9	37.4	40.3	42.5	43.9	43.2	41.1	38.1	34.5	32.2	32.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.6	30.1	33.0	35.9	36.7	36.7	34.5	30.8	26.4	25.6	25.6
112.5°	23.4	24.2	27.8	30.1	30.8	30.8	28.6	25.6	21.2	20.5	20.5
115°	19.0	19.9	22.6	25.0	25.6	25.6	24.2	21.2	16.9	16.9	16.9
117.5°	16.1	16.9	19.0	21.2	22.0	22.0	19.9	16.9	14.0	14.0	14.0
120°	14.0	14.6	16.1	17.5	18.3	18.3	16.9	14.0	11.7	11.7	11.7
122.5°	12.4	13.1	14.0	15.5	16.1	16.1	14.0	11.0	10.3	10.3	10.3
125°	11.0	11.7	12.4	13.1	14.0	13.1	11.7	9.5	8.9	9.5	9.5
127.5°	9.5	10.3	11.0	11.0	11.7	11.0	9.5	8.1	7.4	8.1	8.1
130°	8.9	8.9	9.5	9.5	10.3	9.5	8.1	6.6	6.6	7.4	7.4
132.5°	8.1	8.1	8.1	8.1	8.9	8.1	6.6	5.1	5.8	6.6	6.6
135°	6.6	6.6	7.4	6.6	7.4	5.8	5.1	4.4	5.1	5.8	5.8
137.5°	5.8	5.8	5.8	5.8	5.1	5.1	3.7	3.7	4.4	5.1	4.4
140°	5.1	5.1	5.1	4.4	4.4	3.7	3.0	3.0	3.7	3.7	3.7
142.5°	3.7	3.7	3.7	3.7	3.0	2.2	1.4	2.2	2.2	3.0	3.0
145°	3.0	3.0	3.0	2.2	1.4	1.4	0.7	1.4	1.4	2.2	2.2
147.5°	2.2	2.2	2.2	1.4	1.4	0.7	0.7	0.7	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.7	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)