

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: P240422

Luminaire Tested: **UTLD-AF24-90-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240422
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-AF24-90-D-U-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7644.9 lumens
Efficiency: N/A
Efficacy: 81.3 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



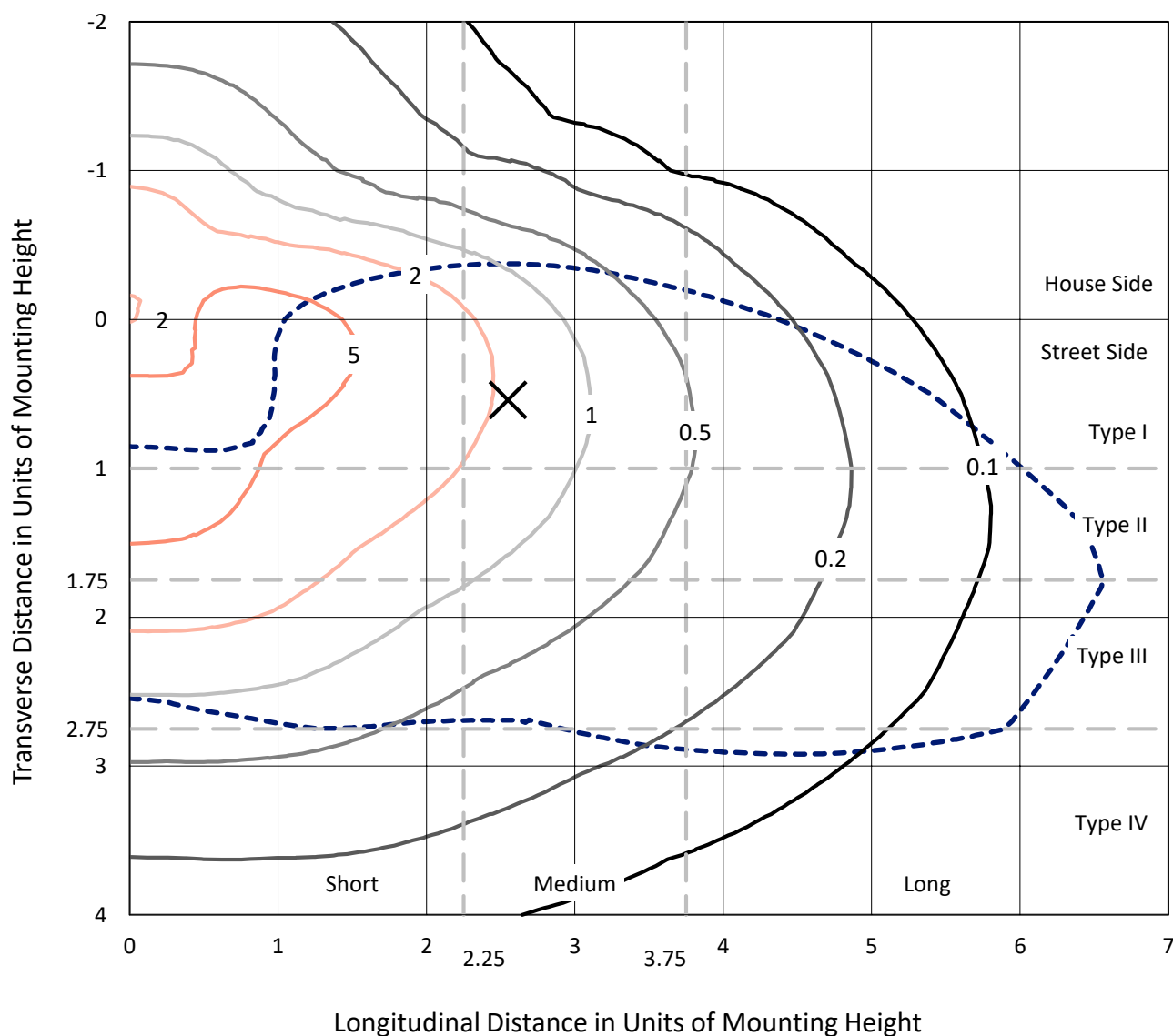
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

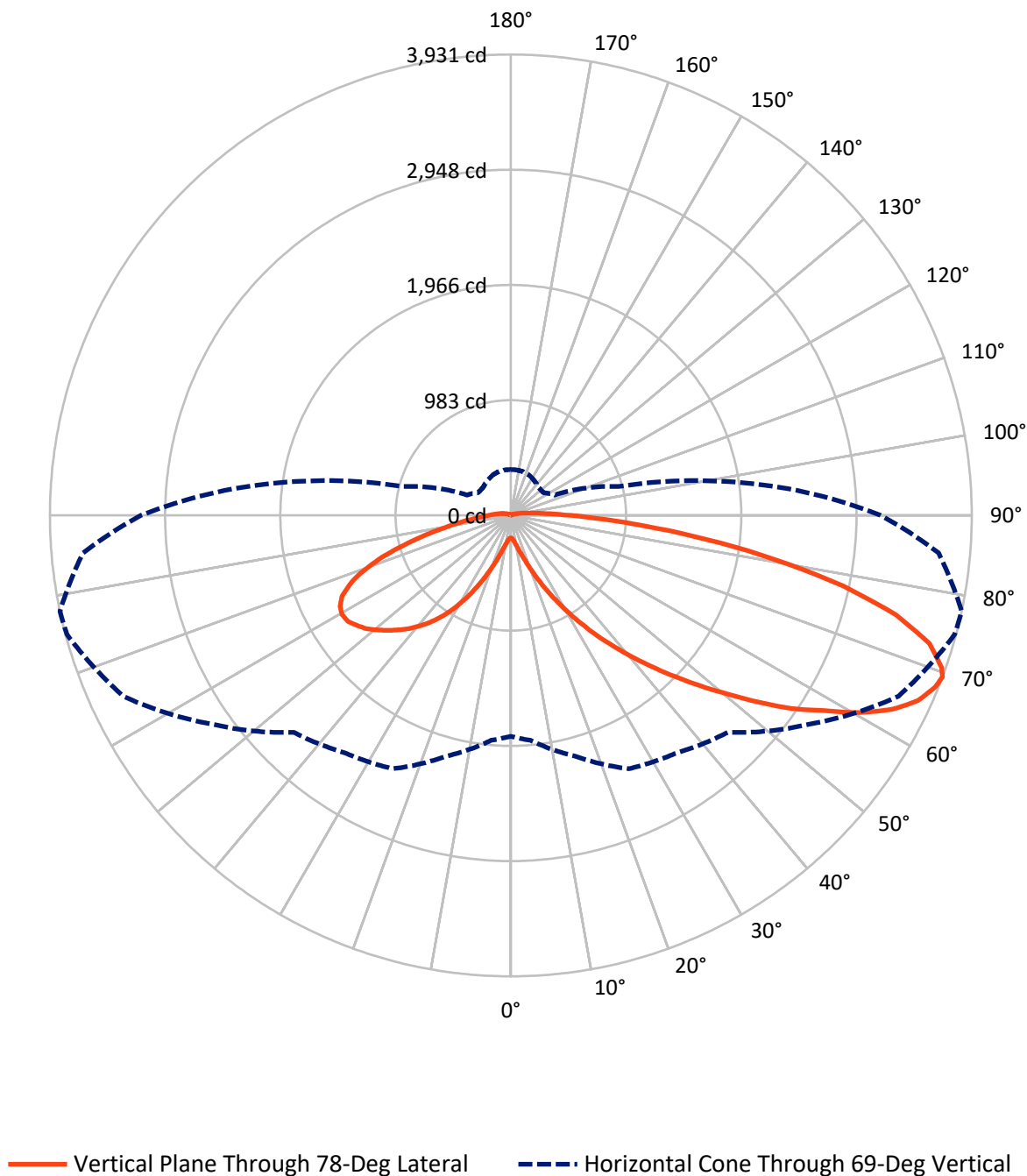


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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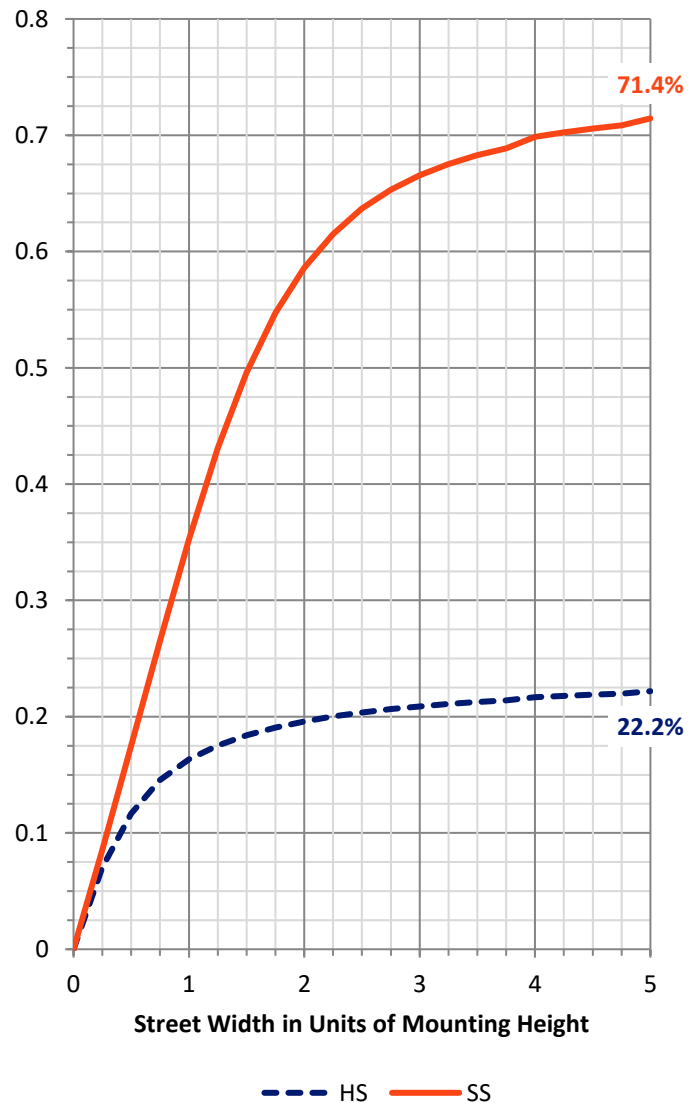
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.9	133.4	1909.4
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5588.9	146.6	5735.6
	% Fixture	73.1	1.9	75.0
Total	Lumens	7364.8	280.1	7644.9
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	0.3
10°-20°	98.2	1.3
20°-30°	280.1	3.7
30°-40°	595.3	7.8
40°-50°	1032.0	13.5
50°-60°	1545.1	20.2
60°-70°	1839.0	24.1
70°-80°	1402.8	18.3
80°-90°	551.1	7.2
90°-100°	161.8	2.1
100°-110°	65.5	0.9
110°-120°	29.5	0.4
120°-130°	14.3	0.2
130°-140°	6.7	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°	7364.8	96.3
0°-180°	7644.9	100.0

Coefficient of Utilization



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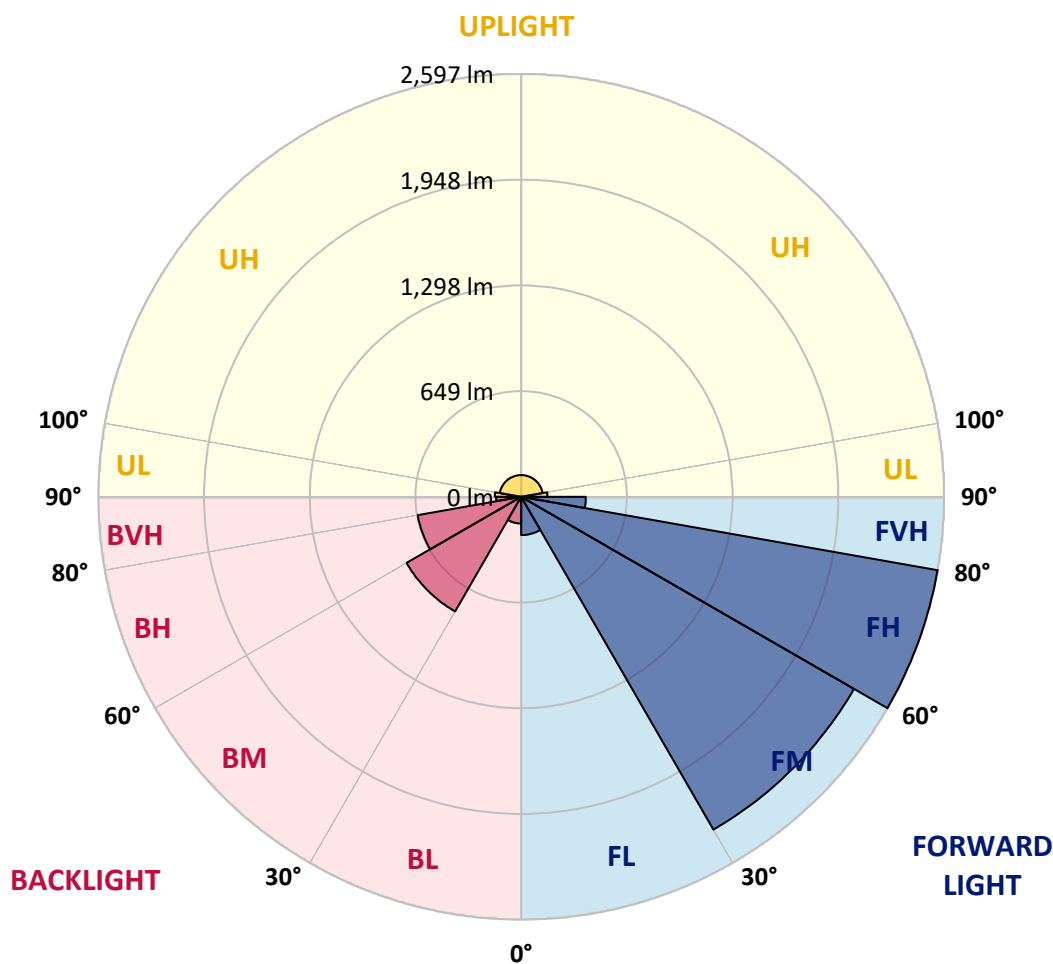
CATALOG NUMBER: UTLD-AF24-90-D-U-T3-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.2	3.1			
FM	(30°-60°)	2359.8	30.9			
FH	(60°-80°)	2596.8	34.0			G2/5000
FVH	(80°-90°)	397.1	5.2			G3/500
BL	(0°-30°)	164.2	2.1	B1/500		
BM	(30°-60°)	812.6	10.6	B1/1000		
BH	(60°-80°)	645.1	8.4	B2/1000		G2/1000
BVH	(80°-90°)	154.0	2.0			G2/225
UL	(90°-100°)	161.8	2.1		U3/500	
UH	(100°-180°)	133.4	1.7		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°	75°	78°	85°
0°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	207.5	207.5	206.5	206.5	205.6	203.7	200.7	198.9	197.9	197.9	195.9
5°	230.6	230.6	228.8	228.8	225.8	223.0	219.1	214.2	211.4	210.5	207.5
7.5°	261.5	260.6	259.6	256.8	253.8	248.0	243.2	238.4	232.6	231.6	227.8
10°	301.1	299.2	299.2	295.3	289.5	282.8	274.1	267.3	261.5	260.6	256.8
12.5°	353.2	351.3	348.4	340.7	332.0	321.4	313.7	306.9	301.1	299.2	294.4
15°	414.9	414.1	406.3	396.7	381.2	367.7	359.0	353.2	351.3	349.4	344.6
17.5°	492.2	487.4	479.6	460.4	440.1	420.7	413.1	414.1	414.9	414.9	411.2
20°	578.1	576.3	564.7	538.5	510.6	486.4	479.6	485.4	493.2	493.2	492.2
22.5°	691.1	685.3	664.1	627.3	587.9	563.7	554.0	566.5	587.9	588.7	592.6
25°	814.6	812.7	778.9	724.8	674.6	645.7	638.9	654.4	693.0	695.9	706.5
27.5°	951.6	946.8	915.9	839.6	774.1	731.6	728.6	762.5	803.9	818.5	833.8
30°	1117.6	1112.8	1054.0	966.1	886.0	830.1	831.0	874.4	938.1	950.7	972.9
32.5°	1289.5	1284.7	1223.8	1113.8	1007.6	938.1	940.0	1004.7	1078.1	1093.4	1117.6
35°	1487.3	1485.4	1405.3	1270.1	1136.0	1052.0	1066.5	1134.9	1225.8	1250.8	1272.1
37.5°	1701.6	1680.3	1602.2	1444.9	1276.9	1185.3	1195.9	1287.5	1394.7	1406.2	1427.5
40°	1916.9	1911.9	1818.4	1641.7	1439.1	1325.2	1339.6	1442.9	1558.7	1580.0	1591.6
42.5°	2143.5	2141.7	2031.6	1838.7	1606.9	1479.6	1493.1	1610.8	1740.2	1760.3	1766.1
45°	2384.9	2371.4	2262.3	2046.1	1801.0	1643.7	1667.8	1789.3	1941.9	1958.3	1961.2
47.5°	2592.4	2575.0	2493.0	2268.1	1990.1	1821.3	1839.6	1991.1	2151.4	2168.7	2161.9
50°	2779.7	2771.9	2688.9	2490.1	2197.6	2000.7	2026.9	2191.8	2372.3	2393.6	2386.8
52.5°	2902.3	2897.3	2863.5	2671.5	2380.1	2184.1	2220.8	2400.3	2613.6	2644.5	2608.8
55°	2963.0	2963.0	2969.7	2830.8	2547.1	2357.9	2414.8	2631.9	2864.6	2908.1	2857.7
57.5°	2958.2	2952.4	3008.4	2939.8	2675.4	2497.7	2608.8	2878.1	3122.3	3139.7	3113.6
60°	2848.2	2866.5	2965.0	2977.6	2767.1	2622.3	2794.1	3105.9	3368.4	3414.7	3335.5
62.5°	2672.5	2707.2	2851.0	2934.0	2792.2	2711.2	2953.4	3305.6	3597.2	3644.5	3531.5
65°	2430.3	2466.0	2642.6	2802.8	2742.0	2741.0	3062.4	3488.1	3779.5	3813.3	3661.9
67.5°	2126.1	2137.7	2341.4	2572.2	2600.2	2695.7	3114.6	3613.5	3911.8	3906.0	3708.2
69°	1883.9	1925.4	2126.1	2383.9	2470.8	2616.5	3104.9	3648.2	3919.4	3931.0	3661.9
70°	1761.4	1769.1	1967.0	2228.6	2380.1	2545.0	3072.1	3640.5	3906.9	3898.3	3608.8
72.5°	1367.6	1383.1	1564.5	1849.2	2058.7	2307.7	2910.8	3510.3	3755.5	3733.2	3335.5
75°	975.8	1001.8	1168.7	1436.1	1684.2	1998.0	2613.6	3230.4	3443.7	3392.5	2942.8
77.5°	665.9	693.0	817.5	1062.6	1309.7	1651.4	2204.5	2806.7	2953.4	2900.3	2405.2
80°	427.5	445.9	544.3	738.4	973.8	1268.2	1755.6	2248.8	2379.1	2284.5	1838.7
82.5°	282.8	294.4	362.8	500.0	681.4	935.3	1302.1	1680.3	1738.2	1678.4	1288.5
85°	191.1	198.9	248.0	339.7	477.8	658.3	921.7	1168.7	1216.0	1133.1	859.0
87.5°	131.2	139.0	178.5	237.4	332.0	459.4	617.8	785.7	771.2	732.6	560.7
90°	93.6	100.4	128.4	169.0	234.6	319.5	412.1	497.0	495.2	457.5	358.1
92.5°	67.5	73.3	97.5	126.4	173.7	223.9	277.9	312.7	312.7	297.3	237.4
95°	51.2	55.0	74.3	96.4	130.3	166.0	194.1	212.3	208.4	196.8	171.7
97.5°	40.5	43.4	58.9	78.2	103.2	128.4	144.8	146.7	143.7	140.0	127.4
100°	33.8	35.7	49.2	65.7	85.9	104.3	112.0	109.0	105.2	104.3	97.5
102.5°	29.0	29.9	42.5	57.0	73.3	86.9	89.8	84.9	80.1	79.1	76.3
105°	26.1	26.1	36.7	49.2	62.8	72.4	74.3	68.5	61.7	59.9	58.9
107.5°	23.2	24.1	31.9	43.4	54.1	61.7	61.7	55.0	47.3	45.4	45.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	21.2	21.2	28.0	38.6	47.3	53.1	52.1	44.4	36.7	34.8	35.7
112.5°	19.3	19.3	25.1	33.8	41.5	45.4	43.4	35.7	29.0	28.0	28.0
115°	18.3	18.3	22.2	29.9	35.7	38.6	36.7	29.0	23.2	22.2	23.2
117.5°	16.4	17.4	20.3	26.1	30.9	33.8	30.9	24.1	19.3	18.3	20.3
120°	15.4	16.4	18.3	22.2	27.0	29.0	25.1	20.3	16.4	16.4	17.4
122.5°	14.5	15.4	16.4	20.3	23.2	24.1	21.2	16.4	13.5	14.5	15.4
125°	14.5	14.5	15.4	17.4	20.3	20.3	17.4	13.5	12.6	12.6	13.5
127.5°	13.5	13.5	13.5	15.4	17.4	17.4	14.5	11.6	10.6	11.6	12.6
130°	12.6	12.6	12.6	13.5	14.5	14.5	12.6	9.7	9.7	9.7	10.6
132.5°	11.6	11.6	11.6	11.6	12.6	11.6	9.7	7.7	8.7	8.7	9.7
135°	10.6	10.6	10.6	10.6	9.7	8.7	6.8	6.8	7.7	7.7	8.7
137.5°	9.7	9.7	9.7	8.7	7.7	6.8	5.8	5.8	6.8	6.8	7.7
140°	8.7	8.7	8.7	6.8	5.8	4.8	3.9	3.9	5.8	5.8	5.8
142.5°	7.7	7.7	6.8	5.8	4.8	2.9	1.9	2.9	3.9	3.9	4.8
145°	5.8	5.8	5.8	4.8	2.9	1.9	1.0	1.9	2.9	2.9	3.9
147.5°	4.8	4.8	4.8	3.9	1.9	1.0	1.0	1.0	1.9	1.9	2.9
150°	3.9	3.9	2.9	2.9	1.0	0.0	0.0	1.0	1.0	1.9	1.9
152.5°	2.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	194.9	194.1	193.1	191.1	190.1	188.3	186.3	184.3	184.3	184.3	183.3
5°	206.5	204.7	201.7	197.9	194.9	192.1	189.1	186.3	185.3	184.3	184.3
7.5°	224.8	223.0	217.2	212.3	206.5	202.6	197.9	195.9	194.1	193.1	193.1
10°	252.8	249.0	241.3	233.6	226.8	219.1	214.2	211.4	208.4	207.5	208.4
12.5°	290.5	283.7	274.1	262.6	251.0	241.3	235.5	232.6	231.6	230.6	230.6
15°	342.6	337.8	318.5	298.3	281.8	268.3	260.6	257.8	263.6	265.4	265.4
17.5°	410.2	401.5	378.4	350.4	316.6	296.3	290.5	295.3	300.1	305.9	306.9
20°	494.2	479.6	449.7	404.4	359.0	330.1	325.3	331.0	342.6	350.4	351.3
22.5°	585.8	576.3	529.9	462.2	401.5	367.7	357.1	365.8	384.1	394.8	395.7
25°	703.6	688.2	618.6	526.0	445.9	398.6	386.0	398.6	420.7	437.2	438.1
27.5°	832.0	807.9	717.1	589.7	483.6	424.7	409.1	425.7	455.5	474.8	476.8
30°	965.2	931.3	814.6	649.5	517.4	442.1	425.7	445.9	479.6	501.8	504.8
32.5°	1105.0	1064.5	904.3	701.7	539.5	451.7	434.3	458.5	494.2	517.4	520.2
35°	1248.0	1196.8	988.4	739.3	550.1	453.7	435.3	462.2	497.0	521.1	524.1
37.5°	1398.5	1323.2	1061.7	765.4	552.1	447.9	431.5	458.5	491.2	513.4	515.3
40°	1544.3	1446.8	1123.4	777.0	545.3	439.1	421.7	449.7	477.8	494.2	496.0
42.5°	1704.5	1580.0	1177.5	777.0	531.8	428.6	411.2	437.2	459.4	471.0	472.0
45°	1867.6	1713.1	1220.0	767.3	514.4	414.9	400.6	423.7	441.1	445.9	445.9
47.5°	2055.8	1853.1	1259.5	750.9	495.2	401.5	389.9	411.2	423.7	423.7	424.7
50°	2245.0	1999.8	1289.5	727.7	472.9	389.9	381.2	401.5	411.2	405.4	405.4
52.5°	2449.6	2150.3	1317.4	697.8	452.7	379.3	375.5	396.7	403.3	394.8	392.8
55°	2656.1	2292.3	1323.2	660.2	429.5	370.6	372.6	392.8	399.6	389.9	389.0
57.5°	2877.2	2438.0	1322.2	616.8	409.1	363.9	369.7	391.8	398.6	389.0	388.0
60°	3048.0	2552.9	1291.3	571.3	390.9	357.1	368.6	390.9	398.6	390.9	390.9
62.5°	3202.4	2620.4	1233.4	523.2	373.5	352.3	365.8	389.0	396.7	392.8	392.8
65°	3272.9	2639.7	1144.7	475.9	359.0	346.5	363.9	386.0	394.8	393.8	394.8
67.5°	3229.3	2549.9	1026.9	433.3	345.5	339.7	359.0	381.2	390.9	392.8	393.8
69°	3154.1	2449.6	953.7	411.2	337.8	334.9	355.2	376.4	388.0	390.9	390.9
70°	3087.5	2363.6	892.7	397.6	332.0	332.0	353.2	373.5	385.1	388.0	389.0
72.5°	2765.2	2083.8	754.8	361.9	319.5	322.4	343.6	363.9	376.4	379.3	379.3
75°	2369.4	1709.3	614.8	332.0	305.0	311.7	332.0	351.3	362.8	365.8	364.8
77.5°	1886.9	1325.2	499.0	305.9	288.6	295.3	316.6	334.9	346.5	348.4	344.6
80°	1408.2	966.1	404.4	278.9	269.4	277.9	297.3	312.7	324.3	325.3	319.5
82.5°	975.8	697.8	329.1	252.8	248.0	254.8	272.2	285.7	296.3	293.4	290.5
85°	650.5	478.7	269.4	223.9	223.9	231.6	244.2	252.8	263.6	259.6	253.8
87.5°	428.6	330.1	221.0	195.9	197.9	204.7	214.2	217.2	226.8	223.9	217.2
90°	290.5	237.4	181.5	169.0	171.7	178.5	183.3	183.3	190.1	185.3	182.5
92.5°	206.5	181.5	151.6	145.8	148.6	154.4	155.3	151.6	157.4	154.4	150.6
95°	155.3	142.8	128.4	125.4	129.4	133.2	132.2	126.4	128.4	126.4	125.4
97.5°	120.6	116.8	109.0	107.2	111.0	113.8	112.0	105.2	106.2	104.3	102.2
100°	97.5	94.6	92.7	92.7	95.6	96.4	93.6	87.9	86.9	84.0	84.9
102.5°	77.2	77.2	78.2	80.1	82.1	82.1	78.2	73.3	71.4	68.5	68.5
105°	60.8	61.7	65.7	66.6	68.5	68.5	64.7	60.8	57.0	54.1	54.1
107.5°	47.3	49.2	53.1	55.9	57.9	57.0	54.1	50.1	45.4	42.5	42.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	37.7	39.6	43.4	47.3	48.3	48.3	45.4	40.5	34.8	33.8	33.8
112.5°	30.9	31.9	36.7	39.6	40.5	40.5	37.7	33.8	28.0	27.0	27.0
115°	25.1	26.1	29.9	32.8	33.8	33.8	31.9	28.0	22.2	22.2	22.2
117.5°	21.2	22.2	25.1	28.0	29.0	29.0	26.1	22.2	18.3	18.3	18.3
120°	18.3	19.3	21.2	23.2	24.1	24.1	22.2	18.3	15.4	15.4	15.4
122.5°	16.4	17.4	18.3	20.3	21.2	21.2	18.3	14.5	13.5	13.5	13.5
125°	14.5	15.4	16.4	17.4	18.3	17.4	15.4	12.6	11.6	12.6	12.6
127.5°	12.6	13.5	14.5	14.5	15.4	14.5	12.6	10.6	9.7	10.6	10.6
130°	11.6	11.6	12.6	12.6	13.5	12.6	10.6	8.7	8.7	9.7	9.7
132.5°	10.6	10.6	10.6	10.6	11.6	10.6	8.7	6.8	7.7	8.7	8.7
135°	8.7	8.7	9.7	8.7	9.7	7.7	6.8	5.8	6.8	7.7	7.7
137.5°	7.7	7.7	7.7	7.7	6.8	6.8	4.8	4.8	5.8	6.8	5.8
140°	6.8	6.8	6.8	5.8	5.8	4.8	3.9	3.9	4.8	4.8	4.8
142.5°	4.8	4.8	4.8	4.8	3.9	2.9	1.9	2.9	2.9	3.9	3.9
145°	3.9	3.9	3.9	2.9	1.9	1.9	1.0	1.9	1.9	2.9	2.9
147.5°	2.9	2.9	2.9	1.9	1.9	1.0	1.0	1.0	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	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)