

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: P240485

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
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-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8020 lumens
Efficiency: N/A
Efficacy: 85.3 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

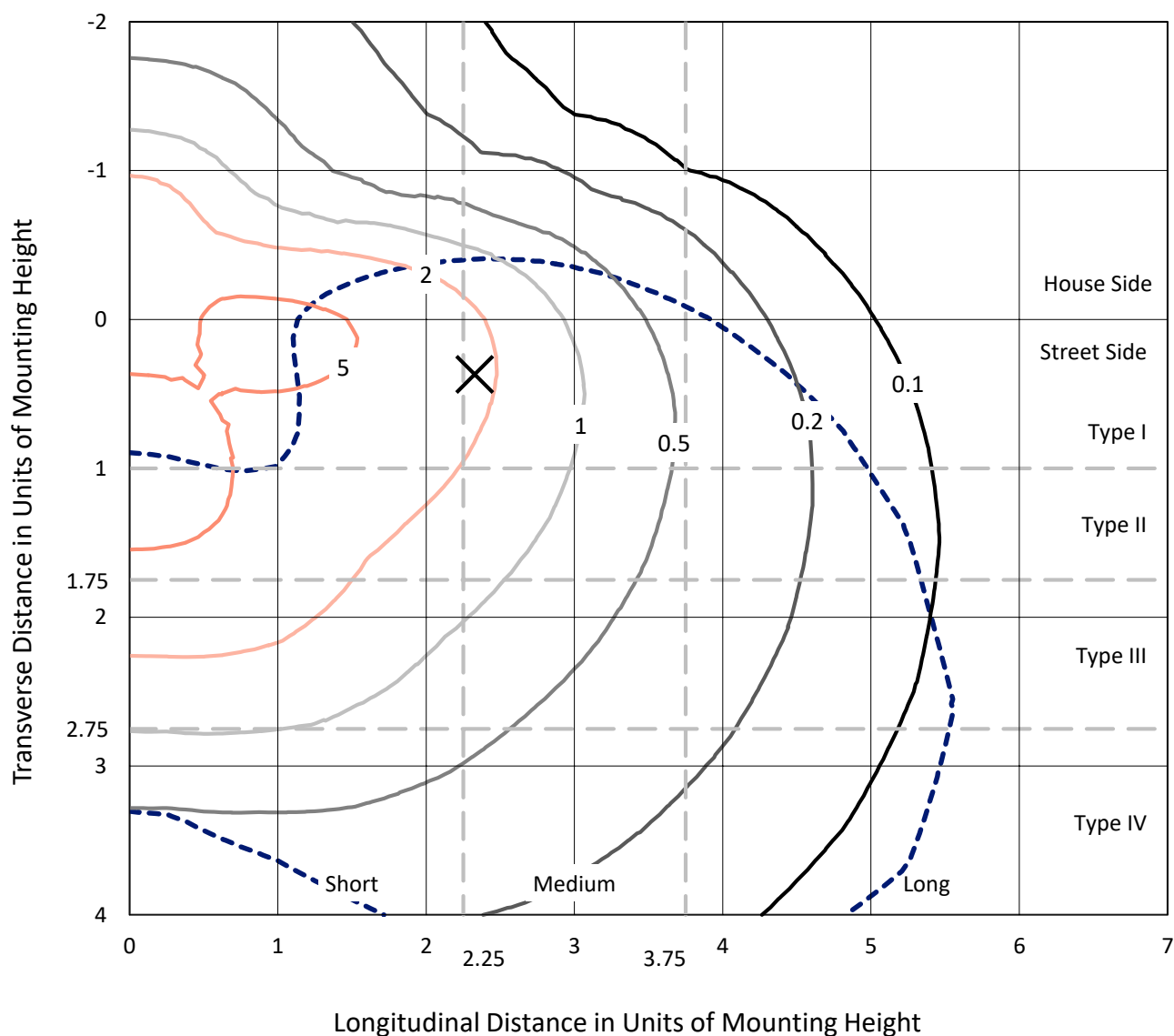


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

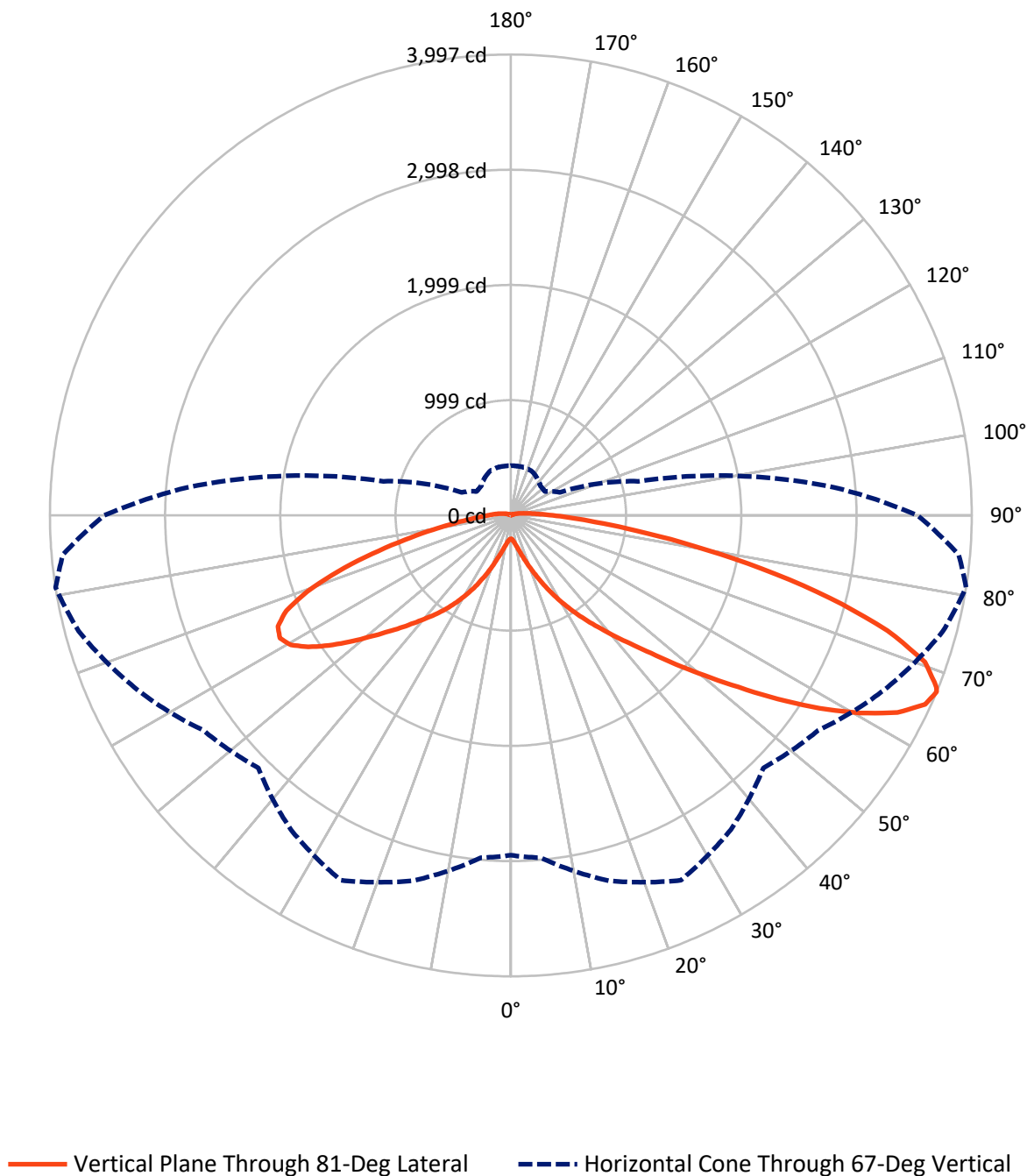


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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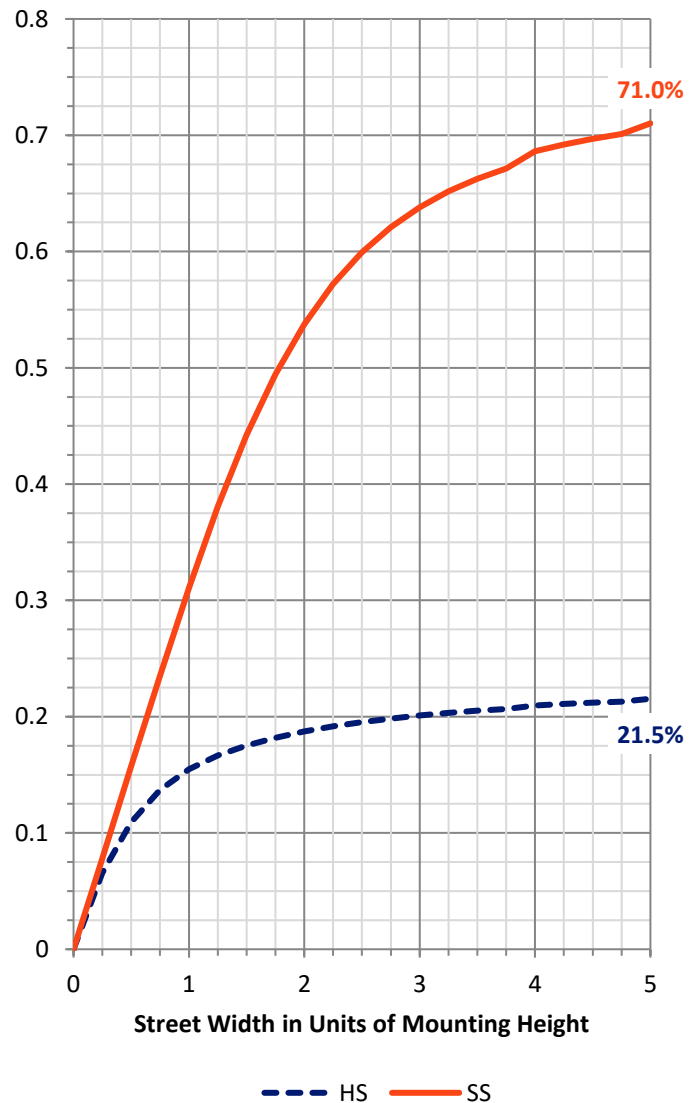
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1822.6	146.7	1969.3
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5883.1	167.6	6050.7
	% Fixture	73.4	2.1	75.4
Total	Lumens	7705.7	314.2	8020.0
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.3
10°-20°	101.3	1.3
20°-30°	273.5	3.4
30°-40°	549.0	6.8
40°-50°	927.8	11.6
50°-60°	1483.5	18.5
60°-70°	2027.0	25.3
70°-80°	1670.9	20.8
80°-90°	650.4	8.1
90°-100°	187.2	2.3
100°-110°	71.7	0.9
110°-120°	31.0	0.4
120°-130°	14.9	0.2
130°-140°	7.0	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°	7705.7	96.1
0°-180°	8020.0	100.0

Coefficient of Utilization



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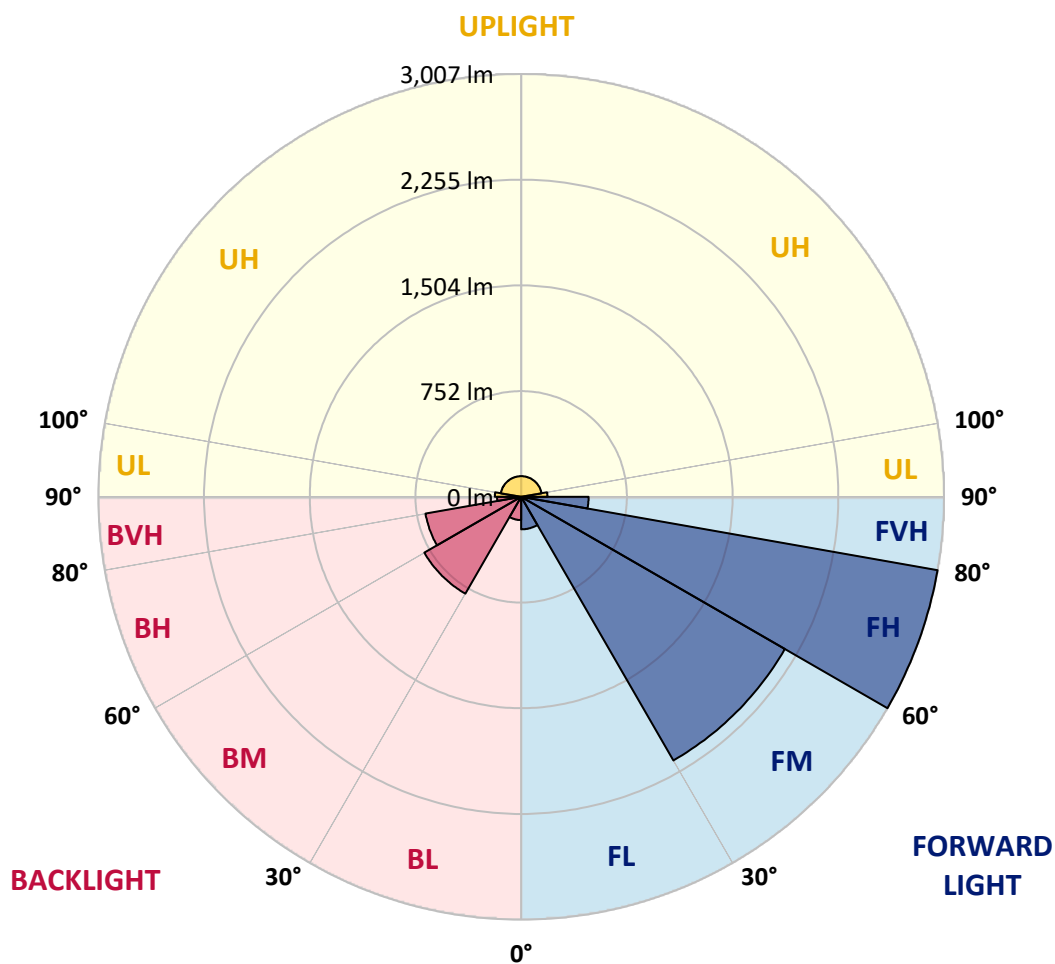
CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.6	2.9			
FM	(30°-60°)	2165.2	27.0			
FH	(60°-80°)	3007.1	37.5			G2/5000
FVH	(80°-90°)	479.2	6.0			G3/500
BL	(0°-30°)	165.6	2.1	B1/500		
BM	(30°-60°)	795.1	9.9	B1/1000		
BH	(60°-80°)	690.7	8.6	B2/1000		G2/1000
BVH	(80°-90°)	171.2	2.1			G2/225
UL	(90°-100°)	187.2	2.3		U3/500	
UH	(100°-180°)	146.7	1.8		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°	81°	85°
0°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2
2.5°	219.4	219.4	219.4	218.4	217.4	215.3	213.3	211.2	210.2	209.3	208.3
5°	241.9	243.0	241.9	240.9	237.8	234.8	230.7	227.6	223.5	221.5	220.4
7.5°	275.6	275.6	274.6	269.4	266.4	261.3	256.2	250.1	246.0	243.0	238.9
10°	318.4	316.4	314.4	309.2	302.2	294.0	287.9	280.7	273.5	271.5	267.4
12.5°	369.5	369.5	364.4	357.2	344.0	335.8	325.6	317.4	310.3	306.2	304.1
15°	437.9	434.9	425.6	414.4	398.0	381.8	370.5	364.4	357.2	357.2	350.2
17.5°	507.3	510.4	496.0	478.7	456.2	435.9	422.6	421.6	418.5	416.4	415.4
20°	598.1	595.1	577.8	548.1	515.5	490.9	481.8	482.8	490.9	490.0	485.9
22.5°	696.1	696.1	669.6	629.8	583.8	554.2	545.0	554.2	571.6	571.6	573.7
25°	812.5	808.4	774.7	714.5	659.4	620.6	616.5	630.8	661.4	666.6	664.5
27.5°	943.2	928.8	885.0	810.5	738.0	694.1	686.9	713.5	755.3	769.7	774.7
30°	1082.0	1083.0	1015.6	918.6	820.6	762.5	759.4	802.3	852.3	876.8	882.9
32.5°	1242.2	1237.2	1159.5	1038.1	911.4	836.0	832.9	892.1	955.4	987.0	991.1
35°	1441.2	1417.8	1331.1	1171.8	1005.4	919.6	917.6	981.9	1064.6	1104.4	1114.6
37.5°	1623.9	1611.7	1512.7	1310.6	1112.6	1004.3	1000.3	1084.0	1182.0	1228.0	1242.2
40°	1837.3	1823.0	1706.6	1475.9	1240.1	1102.3	1100.3	1195.2	1308.6	1366.8	1378.9
42.5°	2046.5	2037.3	1911.8	1659.6	1374.9	1212.6	1208.5	1318.8	1452.5	1517.9	1533.1
45°	2271.1	2247.6	2126.1	1847.4	1524.9	1340.2	1342.2	1461.7	1627.0	1703.6	1718.9
47.5°	2463.0	2448.7	2346.6	2050.6	1690.3	1479.0	1482.1	1641.3	1842.4	1931.2	1938.4
50°	2672.3	2664.1	2563.0	2265.9	1889.4	1651.6	1656.7	1836.3	2079.1	2181.2	2217.0
52.5°	2845.7	2846.8	2770.3	2487.5	2085.3	1837.3	1852.6	2069.0	2336.4	2473.2	2494.7
55°	3015.1	3010.1	2965.2	2730.5	2318.0	2045.5	2062.9	2326.2	2643.6	2809.0	2837.6
57.5°	3137.7	3151.0	3156.0	2963.2	2543.7	2254.8	2312.0	2593.6	2978.4	3156.0	3181.6
60°	3222.4	3228.5	3299.9	3196.9	2787.5	2501.7	2576.3	2890.7	3292.9	3479.7	3495.9
62.5°	3214.2	3240.8	3379.6	3372.5	3024.4	2736.5	2831.4	3169.3	3566.4	3764.4	3767.4
65°	3105.1	3148.9	3381.7	3483.7	3220.4	2959.1	3081.5	3420.4	3791.0	3948.1	3907.3
67°	2946.8	2980.5	3279.6	3490.8	3326.5	3096.9	3252.0	3575.5	3879.7	3997.1	3898.2
67.5°	2880.4	2940.7	3241.8	3483.7	3337.8	3126.4	3279.6	3616.4	3898.2	3981.8	3875.7
70°	2561.0	2607.9	2945.8	3337.8	3341.8	3216.3	3393.8	3665.4	3828.7	3810.3	3618.5
72.5°	2128.1	2149.6	2520.1	3016.2	3188.7	3180.6	3360.2	3538.8	3536.8	3415.3	3182.6
75°	1612.7	1669.9	2003.7	2532.4	2869.3	2981.5	3144.9	3204.0	3063.1	2859.0	2577.3
77.5°	1138.1	1167.7	1462.7	1991.4	2425.2	2634.5	2749.8	2722.3	2463.0	2222.1	1966.9
80°	736.9	765.6	968.6	1426.9	1901.6	2125.2	2230.2	2148.6	1887.3	1604.6	1390.2
82.5°	446.0	470.6	613.5	957.5	1397.4	1647.5	1700.6	1621.9	1331.1	1096.3	927.8
85°	261.3	280.7	380.7	617.6	952.4	1189.2	1208.5	1118.7	894.2	732.8	618.6
87.5°	159.3	169.4	240.9	395.1	631.8	802.3	842.1	758.4	602.2	490.0	416.4
90°	103.1	110.3	154.2	259.2	414.4	529.8	554.2	506.3	408.3	333.8	286.8
92.5°	70.4	77.5	107.2	173.5	272.5	351.1	366.4	332.8	274.6	234.8	209.3
95°	54.1	57.2	81.6	122.4	185.8	234.8	249.1	226.6	191.9	172.5	157.2
97.5°	43.9	45.9	65.4	94.9	134.7	168.4	174.5	158.3	141.9	129.6	122.4
100°	37.7	38.8	55.1	77.5	105.2	127.6	130.6	118.4	107.2	101.1	94.9
102.5°	33.7	34.7	48.0	66.4	85.7	101.1	101.1	91.9	81.6	77.5	74.5
105°	29.6	30.6	42.9	57.2	73.4	82.7	82.7	72.4	63.3	59.2	58.2
107.5°	26.5	27.5	36.7	50.0	62.3	69.5	68.4	58.2	48.0	43.9	43.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	24.4	24.4	32.6	43.9	53.1	59.2	56.2	47.0	36.7	33.7	34.7
112.5°	22.5	22.5	28.5	37.7	47.0	51.0	47.0	38.8	28.5	26.5	27.5
115°	21.5	21.5	25.5	33.7	40.8	42.9	39.8	31.6	23.4	21.5	22.5
117.5°	19.4	19.4	23.4	29.6	34.7	36.7	33.7	25.5	19.4	18.4	19.4
120°	18.4	18.4	20.5	25.5	30.6	31.6	28.5	21.5	16.4	16.4	17.4
122.5°	17.4	17.4	19.4	22.5	26.5	27.5	24.4	17.4	14.3	14.3	15.3
125°	17.4	17.4	17.4	20.5	22.5	23.4	20.5	15.3	13.3	13.3	14.3
127.5°	16.4	16.4	16.4	17.4	19.4	19.4	17.4	12.3	11.3	12.3	12.3
130°	15.3	15.3	15.3	16.4	17.4	16.4	14.3	10.2	10.2	11.3	11.3
132.5°	14.3	14.3	14.3	14.3	14.3	13.3	11.3	9.2	9.2	10.2	10.2
135°	13.3	13.3	13.3	12.3	12.3	11.3	9.2	7.2	8.2	9.2	9.2
137.5°	12.3	12.3	12.3	11.3	10.2	8.2	6.1	6.1	7.2	8.2	8.2
140°	11.3	11.3	10.2	9.2	8.2	6.1	4.1	5.1	6.1	6.1	7.2
142.5°	9.2	9.2	9.2	7.2	5.1	4.1	3.1	3.1	5.1	5.1	5.1
145°	8.2	8.2	7.2	6.1	4.1	2.0	1.0	2.0	3.1	4.1	4.1
147.5°	6.1	6.1	6.1	4.1	2.0	1.0	1.0	1.0	2.0	3.1	3.1
150°	5.1	5.1	4.1	3.1	1.0	0.0	0.0	1.0	2.0	2.0	2.0
152.5°	3.1	3.1	3.1	2.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2
2.5°	207.2	206.2	205.2	203.2	202.1	200.1	198.0	197.0	196.0	196.0	196.0
5°	218.4	217.4	214.3	210.2	207.2	204.2	202.1	200.1	198.0	198.0	198.0
7.5°	236.8	234.8	228.6	224.5	219.4	215.3	212.3	209.3	208.3	208.3	207.2
10°	263.3	260.2	253.2	245.0	237.8	232.7	228.6	225.6	224.5	224.5	224.5
12.5°	298.1	294.0	282.7	272.5	261.3	254.2	249.1	248.1	249.1	249.1	248.1
15°	348.1	339.9	322.5	306.2	288.9	277.6	274.6	274.6	279.7	281.7	282.7
17.5°	408.3	398.0	374.6	348.1	321.5	306.2	304.1	310.3	321.5	326.6	325.6
20°	482.8	468.5	435.9	396.1	359.3	339.9	337.9	349.1	364.4	374.6	373.6
22.5°	566.5	553.2	504.2	446.0	395.1	372.6	369.5	387.9	410.3	421.6	425.6
25°	659.4	641.0	576.7	497.1	432.8	401.1	400.1	422.6	452.1	472.6	475.7
27.5°	760.5	739.0	654.3	548.1	465.4	424.6	423.6	454.2	495.0	520.6	521.6
30°	871.7	839.0	730.8	591.0	490.0	441.0	443.0	478.7	530.8	560.4	565.5
32.5°	981.9	945.2	800.3	632.8	506.3	449.1	452.1	497.1	554.2	592.0	596.1
35°	1098.2	1051.3	869.6	660.4	515.5	450.1	453.2	504.2	566.5	607.3	611.4
37.5°	1215.7	1159.5	927.8	680.8	515.5	444.0	448.1	502.2	565.5	607.3	610.4
40°	1354.5	1272.9	983.0	689.0	507.3	432.8	437.9	490.9	550.1	588.9	592.0
42.5°	1498.4	1400.4	1035.0	686.9	493.0	418.5	423.6	472.6	524.7	556.3	559.3
45°	1671.9	1552.5	1088.1	680.8	475.7	403.1	406.2	450.1	494.0	516.5	520.6
47.5°	1885.3	1715.8	1142.2	669.6	456.2	388.9	391.0	429.7	461.4	475.7	478.7
50°	2122.1	1908.7	1201.4	654.3	437.9	375.6	378.7	410.3	432.8	438.9	440.0
52.5°	2402.8	2127.1	1256.5	635.9	421.6	365.4	369.5	398.0	413.4	414.4	415.4
55°	2705.9	2366.0	1305.5	613.5	405.2	358.2	366.4	393.0	403.1	402.1	403.1
57.5°	3022.3	2595.6	1339.1	589.9	392.0	354.1	367.4	393.0	403.1	401.1	403.1
60°	3305.1	2792.7	1344.3	559.3	381.8	354.1	373.6	400.1	409.3	409.3	411.3
62.5°	3506.2	2906.0	1310.6	528.8	372.6	356.2	381.8	409.3	418.5	418.5	420.5
65°	3587.8	2904.0	1237.2	496.0	365.4	359.3	389.9	419.5	426.7	426.7	428.7
67°	3526.5	2809.0	1142.2	471.6	361.3	362.3	396.1	425.6	431.8	430.8	431.8
67.5°	3488.8	2775.4	1121.8	464.4	360.3	362.3	397.0	426.7	432.8	431.8	431.8
70°	3176.5	2488.5	980.9	433.8	353.1	362.3	401.1	428.7	432.8	430.8	430.8
72.5°	2693.6	2082.2	822.7	403.1	345.0	359.3	399.1	425.6	427.7	424.6	424.6
75°	2142.5	1629.0	675.8	376.7	333.8	352.1	392.0	416.4	419.5	416.4	413.4
77.5°	1586.2	1206.5	546.1	348.1	320.5	340.9	379.7	403.1	406.2	403.1	400.1
80°	1106.4	857.4	440.0	319.5	303.2	324.6	362.3	382.8	386.9	384.8	379.7
82.5°	740.0	588.9	352.1	287.9	280.7	303.2	338.9	357.2	360.3	358.2	352.1
85°	505.2	410.3	290.9	254.2	256.2	277.6	308.2	322.5	325.6	322.5	316.4
87.5°	339.9	294.0	237.8	221.5	227.6	248.1	272.5	279.7	285.8	280.7	276.6
90°	246.0	221.5	191.9	188.8	199.1	216.4	232.7	233.7	241.9	239.9	231.7
92.5°	184.7	173.5	159.3	159.3	170.4	184.7	195.0	192.9	198.0	198.0	191.9
95°	146.0	139.8	132.7	135.7	146.0	156.2	159.3	155.2	160.3	161.3	159.3
97.5°	117.3	115.4	113.3	115.4	124.5	132.7	131.7	124.5	128.6	130.6	128.6
100°	94.9	93.9	94.9	99.0	106.2	111.3	108.2	101.1	104.1	104.1	104.1
102.5°	76.5	76.5	79.6	83.7	88.8	92.9	88.8	82.7	83.7	82.7	82.7
105°	60.3	61.3	65.4	70.4	74.5	76.5	72.4	66.4	65.4	62.3	63.3
107.5°	47.0	49.0	53.1	58.2	62.3	63.3	60.3	54.1	50.0	48.0	48.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.7	38.8	43.9	48.0	51.0	52.1	49.0	42.9	37.7	36.7	36.7
112.5°	29.6	31.6	35.7	39.8	42.9	42.9	39.8	34.7	28.5	27.5	27.5
115°	24.4	25.5	29.6	32.6	35.7	35.7	32.6	27.5	22.5	21.5	22.5
117.5°	20.5	21.5	24.4	27.5	29.6	29.6	26.5	21.5	17.4	17.4	17.4
120°	18.4	19.4	21.5	23.4	24.4	24.4	22.5	17.4	14.3	14.3	14.3
122.5°	16.4	16.4	18.4	19.4	21.5	20.5	18.4	14.3	11.3	12.3	12.3
125°	14.3	15.3	15.3	17.4	17.4	17.4	14.3	11.3	10.2	10.2	10.2
127.5°	13.3	13.3	14.3	14.3	15.3	14.3	11.3	8.2	8.2	9.2	9.2
130°	12.3	12.3	12.3	12.3	12.3	11.3	9.2	7.2	7.2	8.2	8.2
132.5°	10.2	11.3	11.3	10.2	10.2	9.2	7.2	5.1	6.1	6.1	6.1
135°	9.2	10.2	9.2	9.2	8.2	7.2	5.1	4.1	5.1	5.1	5.1
137.5°	8.2	8.2	8.2	7.2	6.1	5.1	4.1	3.1	4.1	4.1	4.1
140°	7.2	7.2	7.2	6.1	5.1	4.1	2.0	2.0	3.1	3.1	3.1
142.5°	5.1	6.1	5.1	4.1	3.1	2.0	1.0	1.0	2.0	3.1	2.0
145°	4.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	3.1	3.1	3.1	2.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0
150°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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

(END OF REPORT)