

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: P240484

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240484
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-AF24-80-D-U-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7416.4 lumens
Efficiency: N/A
Efficacy: 89.4 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: B2 - U3 - G3

Input Watts (W): 83
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

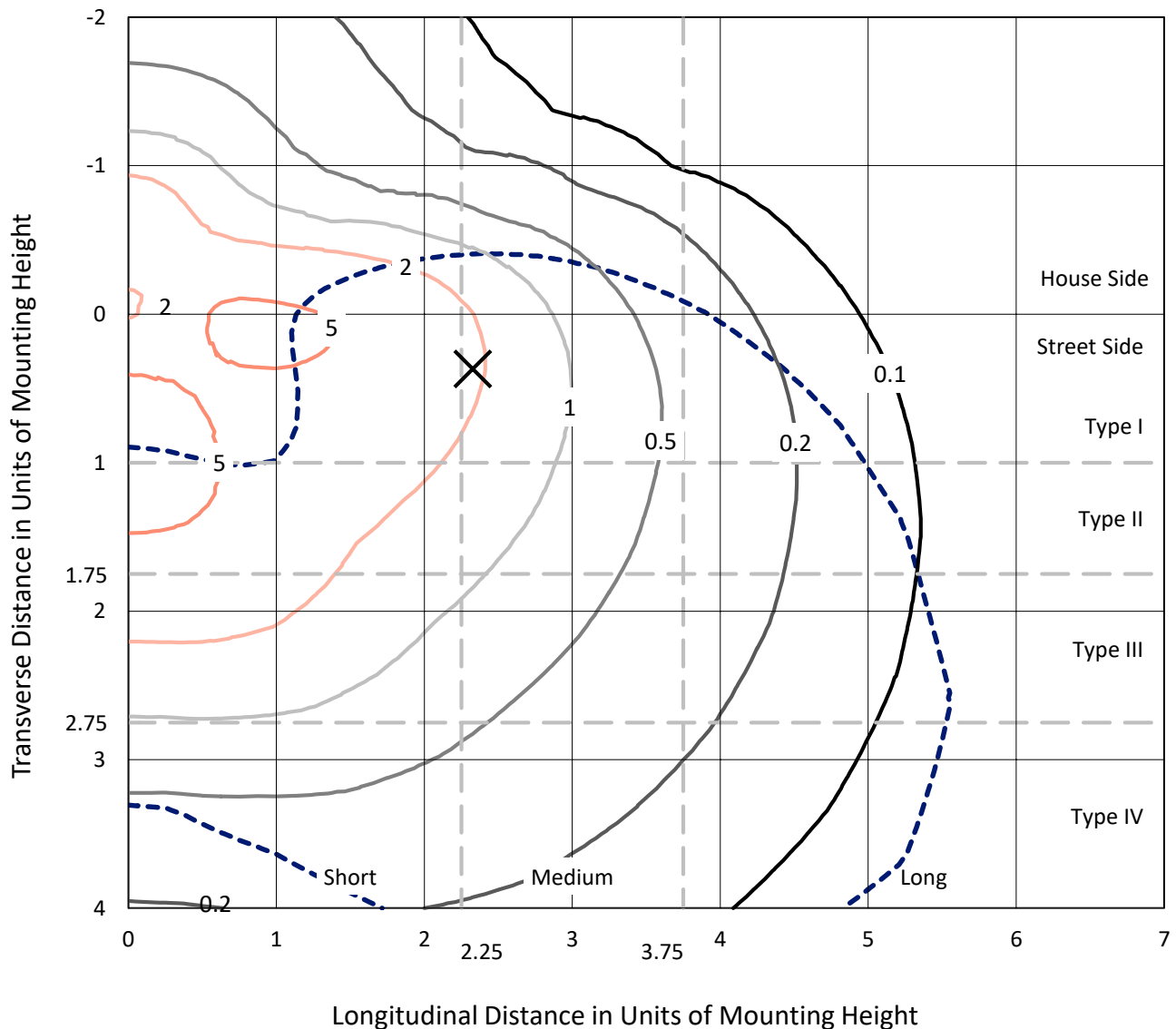


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

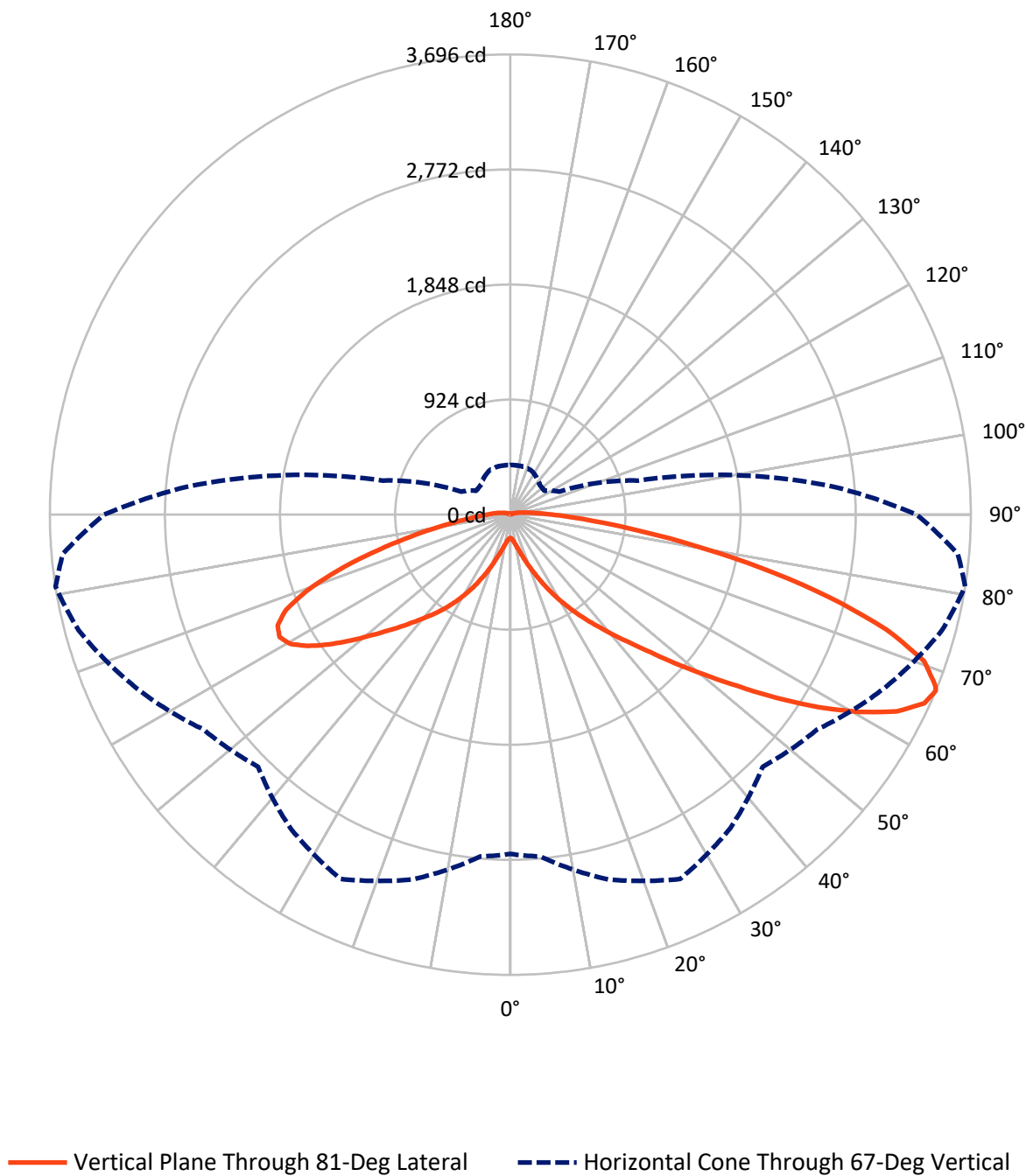


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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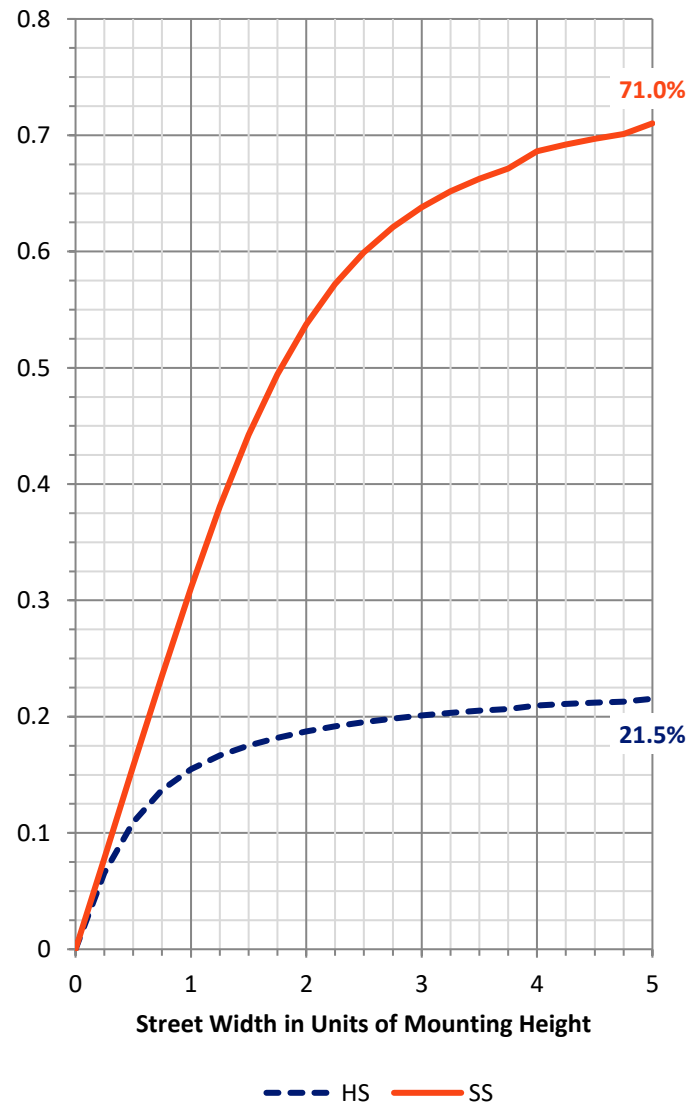
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.5	135.6	1821.1
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5440.4	154.9	5595.3
	% Fixture	73.4	2.1	75.4
Total	Lumens	7125.8	290.5	7416.4
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	0.3
10°-20°	93.6	1.3
20°-30°	252.9	3.4
30°-40°	507.7	6.8
40°-50°	858.0	11.6
50°-60°	1371.9	18.5
60°-70°	1874.5	25.3
70°-80°	1545.1	20.8
80°-90°	601.4	8.1
90°-100°	173.1	2.3
100°-110°	66.3	0.9
110°-120°	28.7	0.4
120°-130°	13.7	0.2
130°-140°	6.4	0.1
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7125.8	96.1
0°-180°	7416.4	100.0

Coefficient of Utilization



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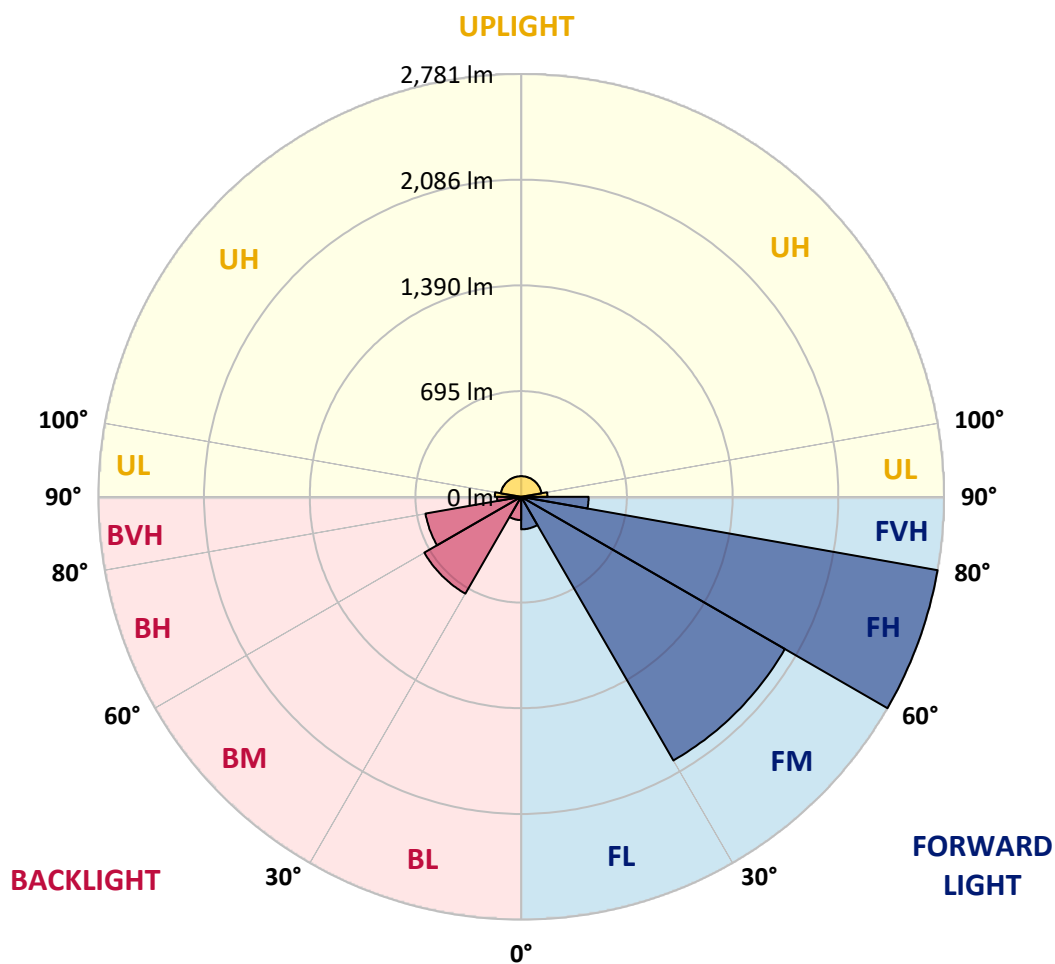
CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.2	2.9			
FM	(30°-60°)	2002.3	27.0			
FH	(60°-80°)	2780.8	37.5			G2/5000
FVH	(80°-90°)	443.1	6.0			G3/500
BL	(0°-30°)	153.1	2.1	B1/500		
BM	(30°-60°)	735.3	9.9	B1/1000		
BH	(60°-80°)	638.7	8.6	B2/1000		G2/1000
BVH	(80°-90°)	158.3	2.1			G2/225
UL	(90°-100°)	173.1	2.3		U3/500	
UH	(100°-180°)	135.6	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°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	203.0	203.0	203.0	202.0	201.0	199.2	197.2	195.4	194.5	193.5	192.5
5°	223.7	224.6	223.7	222.8	219.9	217.1	213.3	210.5	206.7	204.8	203.9
7.5°	254.8	254.8	253.9	249.2	246.3	241.6	236.9	231.3	227.5	224.6	220.9
10°	294.5	292.6	290.7	286.0	279.4	271.8	266.2	259.5	253.0	251.0	247.3
12.5°	341.7	341.7	337.0	330.4	318.1	310.6	301.1	293.6	286.9	283.2	281.3
15°	404.9	402.1	393.6	383.2	368.2	353.0	342.6	337.0	330.4	330.4	323.8
17.5°	469.1	472.0	458.7	442.7	422.0	403.0	390.8	389.8	387.0	385.1	384.1
20°	553.1	550.2	534.3	506.9	476.7	454.0	445.5	446.4	454.0	453.1	449.3
22.5°	643.7	643.7	619.2	582.4	539.9	512.5	504.0	512.5	528.6	528.6	530.5
25°	751.4	747.6	716.4	660.7	609.8	573.9	570.1	583.3	611.6	616.3	614.5
27.5°	872.2	859.0	818.4	749.4	682.4	641.9	635.3	659.8	698.5	711.7	716.4
30°	1000.5	1001.5	939.2	849.6	758.9	705.1	702.3	741.9	788.2	810.8	816.5
32.5°	1148.8	1144.0	1072.3	959.9	842.9	773.0	770.2	825.0	883.5	912.8	916.6
35°	1332.8	1311.1	1230.8	1083.6	929.8	850.5	848.5	908.1	984.5	1021.3	1030.7
37.5°	1501.8	1490.4	1398.9	1212.0	1028.9	928.8	925.1	1002.4	1093.0	1135.5	1148.8
40°	1699.0	1685.8	1578.2	1364.9	1146.8	1019.4	1017.5	1105.3	1210.0	1263.9	1275.2
42.5°	1892.6	1884.1	1768.0	1534.7	1271.4	1121.4	1117.6	1219.6	1343.1	1403.6	1417.7
45°	2100.2	2078.4	1966.1	1708.4	1410.1	1239.3	1241.2	1351.6	1504.6	1575.3	1589.6
47.5°	2277.6	2264.4	2170.0	1896.3	1563.1	1367.7	1370.5	1517.8	1703.7	1785.9	1792.5
50°	2471.1	2463.6	2370.2	2095.4	1747.2	1527.3	1532.0	1698.1	1922.7	2017.2	2050.2
52.5°	2631.6	2632.6	2561.8	2300.3	1928.4	1699.0	1713.1	1913.3	2160.6	2287.1	2306.9
55°	2788.3	2783.6	2742.0	2524.9	2143.6	1891.5	1907.6	2151.2	2444.8	2597.6	2624.1
57.5°	2901.6	2913.8	2918.6	2740.2	2352.2	2085.1	2138.0	2398.4	2754.3	2918.6	2942.1
60°	2979.9	2985.6	3051.7	2956.3	2577.8	2313.5	2382.5	2673.2	3045.0	3217.8	3232.8
62.5°	2972.4	2996.8	3125.2	3118.7	2796.7	2530.6	2618.3	2930.9	3298.0	3481.1	3484.0
65°	2871.3	2911.9	3127.2	3221.6	2978.0	2736.4	2849.6	3163.0	3505.7	3651.0	3613.3
67°	2725.0	2756.2	3032.7	3228.1	3076.2	2863.8	3007.3	3306.5	3587.8	3696.3	3604.8
67.5°	2663.7	2719.4	2997.9	3221.6	3086.5	2891.2	3032.7	3344.2	3604.8	3682.1	3584.0
70°	2368.2	2411.7	2724.1	3086.5	3090.3	2974.2	3138.5	3389.5	3540.5	3523.6	3346.2
72.5°	1968.1	1987.9	2330.5	2789.2	2948.8	2941.2	3107.3	3272.5	3270.6	3158.3	2943.1
75°	1491.4	1544.2	1852.9	2341.8	2653.3	2757.2	2908.1	2962.9	2832.7	2643.8	2383.4
77.5°	1052.4	1079.8	1352.6	1841.5	2242.7	2436.3	2542.9	2517.4	2277.6	2054.9	1818.9
80°	681.5	707.9	895.8	1319.6	1758.5	1965.2	2062.5	1986.9	1745.3	1483.8	1285.6
82.5°	412.5	435.2	567.3	885.4	1292.2	1523.5	1572.6	1499.9	1230.8	1013.7	858.1
85°	241.6	259.5	352.1	571.0	880.7	1099.7	1117.6	1034.5	826.9	677.7	572.0
87.5°	147.2	156.7	222.8	365.3	584.3	741.9	778.7	701.3	556.9	453.1	385.1
90°	95.3	102.0	142.5	239.8	383.2	489.9	512.5	468.2	377.6	308.6	265.3
92.5°	65.2	71.7	99.1	160.5	252.1	324.7	338.9	307.7	253.9	217.1	193.5
95°	50.0	52.9	75.5	113.2	171.8	217.1	230.3	209.5	177.5	159.5	145.4
97.5°	40.6	42.5	60.5	87.8	124.6	155.7	161.4	146.3	131.2	119.9	113.2
100°	34.9	35.9	50.9	71.7	97.2	117.9	120.8	109.5	99.1	93.4	87.8
102.5°	31.1	32.1	44.4	61.4	79.3	93.4	93.4	84.9	75.5	71.7	68.9
105°	27.4	28.3	39.7	52.9	67.9	76.4	76.4	67.0	58.5	54.7	53.8
107.5°	24.6	25.5	34.0	46.2	57.6	64.1	63.2	53.8	44.4	40.6	40.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	22.6	22.6	30.2	40.6	49.1	54.7	51.9	43.4	34.0	31.1	32.1
112.5°	20.8	20.8	26.4	34.9	43.4	47.2	43.4	35.9	26.4	24.6	25.5
115°	19.8	19.8	23.6	31.1	37.7	39.7	36.8	29.3	21.7	19.8	20.8
117.5°	17.9	17.9	21.7	27.4	32.1	34.0	31.1	23.6	17.9	17.0	17.9
120°	17.0	17.0	18.9	23.6	28.3	29.3	26.4	19.8	15.1	15.1	16.1
122.5°	16.1	16.1	17.9	20.8	24.6	25.5	22.6	16.1	13.2	13.2	14.1
125°	16.1	16.1	16.1	18.9	20.8	21.7	18.9	14.1	12.3	12.3	13.2
127.5°	15.1	15.1	15.1	16.1	17.9	17.9	16.1	11.4	10.3	11.4	11.4
130°	14.1	14.1	14.1	15.1	16.1	15.1	13.2	9.4	9.4	10.3	10.3
132.5°	13.2	13.2	13.2	13.2	13.2	12.3	10.3	8.5	8.5	9.4	9.4
135°	12.3	12.3	12.3	11.4	11.4	10.3	8.5	6.6	7.6	8.5	8.5
137.5°	11.4	11.4	11.4	10.3	9.4	7.6	5.6	5.6	6.6	7.6	7.6
140°	10.3	10.3	9.4	8.5	7.6	5.6	3.8	4.7	5.6	5.6	6.6
142.5°	8.5	8.5	8.5	6.6	4.7	3.8	2.9	2.9	4.7	4.7	4.7
145°	7.6	7.6	6.6	5.6	3.8	1.8	0.9	1.8	2.9	3.8	3.8
147.5°	5.6	5.6	5.6	3.8	1.8	0.9	0.9	0.9	1.8	2.9	2.9
150°	4.7	4.7	3.8	2.9	0.9	0.0	0.0	0.9	1.8	1.8	1.8
152.5°	2.9	2.9	2.9	1.8	0.0	0.0	0.0	0.9	0.9	0.9	0.9
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	191.6	190.7	189.8	187.8	186.9	185.1	183.1	182.2	181.3	181.3	181.3
5°	202.0	201.0	198.2	194.5	191.6	188.7	186.9	185.1	183.1	183.1	183.1
7.5°	219.0	217.1	211.4	207.7	203.0	199.2	196.3	193.5	192.5	192.5	191.6
10°	243.6	240.7	234.1	226.6	219.9	215.2	211.4	208.6	207.7	207.7	207.7
12.5°	275.6	271.8	261.5	252.1	241.6	235.1	230.3	229.3	230.3	230.3	229.3
15°	321.8	314.4	298.3	283.2	267.1	256.8	253.9	253.9	258.6	260.5	261.5
17.5°	377.6	368.2	346.4	321.8	297.4	283.2	281.3	286.9	297.4	302.1	301.1
20°	446.4	433.2	403.0	366.2	332.3	314.4	312.4	322.8	337.0	346.4	345.5
22.5°	523.9	511.6	466.3	412.5	365.3	344.5	341.7	358.6	379.4	389.8	393.6
25°	609.8	592.8	533.3	459.7	400.2	370.9	370.0	390.8	418.2	437.0	439.9
27.5°	703.2	683.4	605.1	506.9	430.5	392.7	391.7	420.0	457.8	481.4	482.3
30°	806.1	775.9	675.9	546.6	453.1	407.7	409.7	442.7	490.8	518.2	522.9
32.5°	908.1	874.0	740.0	585.2	468.2	415.3	418.2	459.7	512.5	547.5	551.3
35°	1015.7	972.2	804.2	610.7	476.7	416.2	419.1	466.3	523.9	561.6	565.4
37.5°	1124.2	1072.3	858.1	629.6	476.7	410.6	414.4	464.4	522.9	561.6	564.5
40°	1252.6	1177.0	909.0	637.1	469.1	400.2	404.9	454.0	508.7	544.6	547.5
42.5°	1385.7	1295.1	957.1	635.3	455.9	387.0	391.7	437.0	485.2	514.4	517.3
45°	1546.1	1435.7	1006.2	629.6	439.9	372.9	375.6	416.2	456.8	477.6	481.4
47.5°	1743.4	1586.7	1056.2	619.2	422.0	359.7	361.5	397.4	426.7	439.9	442.7
50°	1962.3	1765.1	1110.9	605.1	404.9	347.4	350.2	379.4	400.2	405.9	406.8
52.5°	2222.0	1967.1	1162.0	588.1	389.8	337.9	341.7	368.2	382.3	383.2	384.1
55°	2502.2	2188.0	1207.3	567.3	374.7	331.3	338.9	363.4	372.9	371.9	372.9
57.5°	2794.9	2400.4	1238.4	545.5	362.4	327.5	339.8	363.4	372.9	370.9	372.9
60°	3056.4	2582.5	1243.1	517.3	353.0	327.5	345.5	370.0	378.5	378.5	380.4
62.5°	3242.3	2687.3	1212.0	489.0	344.5	329.4	353.0	378.5	387.0	387.0	388.9
65°	3317.8	2685.3	1144.0	458.7	337.9	332.3	360.6	387.9	394.6	394.6	396.4
67°	3261.2	2597.6	1056.2	436.1	334.1	335.1	366.2	393.6	399.3	398.3	399.3
67.5°	3226.3	2566.5	1037.4	429.4	333.2	335.1	367.1	394.6	400.2	399.3	399.3
70°	2937.4	2301.2	907.1	401.2	326.6	335.1	370.9	396.4	400.2	398.3	398.3
72.5°	2491.0	1925.6	760.8	372.9	319.1	332.3	369.1	393.6	395.5	392.7	392.7
75°	1981.3	1506.5	624.8	348.3	308.6	325.6	362.4	385.1	387.9	385.1	382.3
77.5°	1466.8	1115.7	505.0	321.8	296.3	315.3	351.2	372.9	375.6	372.9	370.0
80°	1023.2	792.9	406.8	295.4	280.3	300.1	335.1	353.9	357.7	355.9	351.2
82.5°	684.4	544.6	325.6	266.2	259.5	280.3	313.3	330.4	333.2	331.3	325.6
85°	467.2	379.4	269.0	235.1	236.9	256.8	285.1	298.3	301.1	298.3	292.6
87.5°	314.4	271.8	219.9	204.8	210.5	229.3	252.1	258.6	264.3	259.5	255.8
90°	227.5	204.8	177.5	174.6	184.0	200.1	215.2	216.1	223.7	221.8	214.3
92.5°	170.8	160.5	147.2	147.2	157.6	170.8	180.2	178.4	183.1	183.1	177.5
95°	134.9	129.3	122.8	125.5	134.9	144.4	147.2	143.5	148.2	149.1	147.2
97.5°	108.5	106.7	104.8	106.7	115.2	122.8	121.7	115.2	119.0	120.8	119.0
100°	87.8	86.8	87.8	91.6	98.2	102.9	100.0	93.4	96.3	96.3	96.3
102.5°	70.8	70.8	73.7	77.4	82.1	85.9	82.1	76.4	77.4	76.4	76.4
105°	55.6	56.7	60.5	65.2	68.9	70.8	67.0	61.4	60.5	57.6	58.5
107.5°	43.4	45.3	49.1	53.8	57.6	58.5	55.6	50.0	46.2	44.4	44.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	34.0	35.9	40.6	44.4	47.2	48.2	45.3	39.7	34.9	34.0	34.0
112.5°	27.4	29.3	33.0	36.8	39.7	39.7	36.8	32.1	26.4	25.5	25.5
115°	22.6	23.6	27.4	30.2	33.0	33.0	30.2	25.5	20.8	19.8	20.8
117.5°	18.9	19.8	22.6	25.5	27.4	27.4	24.6	19.8	16.1	16.1	16.1
120°	17.0	17.9	19.8	21.7	22.6	22.6	20.8	16.1	13.2	13.2	13.2
122.5°	15.1	15.1	17.0	17.9	19.8	18.9	17.0	13.2	10.3	11.4	11.4
125°	13.2	14.1	14.1	16.1	16.1	16.1	13.2	10.3	9.4	9.4	9.4
127.5°	12.3	12.3	13.2	13.2	14.1	13.2	10.3	7.6	7.6	8.5	8.5
130°	11.4	11.4	11.4	11.4	11.4	10.3	8.5	6.6	6.6	7.6	7.6
132.5°	9.4	10.3	10.3	9.4	9.4	8.5	6.6	4.7	5.6	5.6	5.6
135°	8.5	9.4	8.5	8.5	7.6	6.6	4.7	3.8	4.7	4.7	4.7
137.5°	7.6	7.6	7.6	6.6	5.6	4.7	3.8	2.9	3.8	3.8	3.8
140°	6.6	6.6	6.6	5.6	4.7	3.8	1.8	1.8	2.9	2.9	2.9
142.5°	4.7	5.6	4.7	3.8	2.9	1.8	0.9	0.9	1.8	2.9	1.8
145°	3.8	3.8	3.8	2.9	1.8	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	2.9	2.9	2.9	1.8	0.9	0.9	0.0	0.0	0.0	0.9	0.9
150°	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	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)