

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: P240474

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240474
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-AF24-70-D-U-T4W-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6408.1 lumens
Efficiency: N/A
Efficacy: 86.6 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): 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

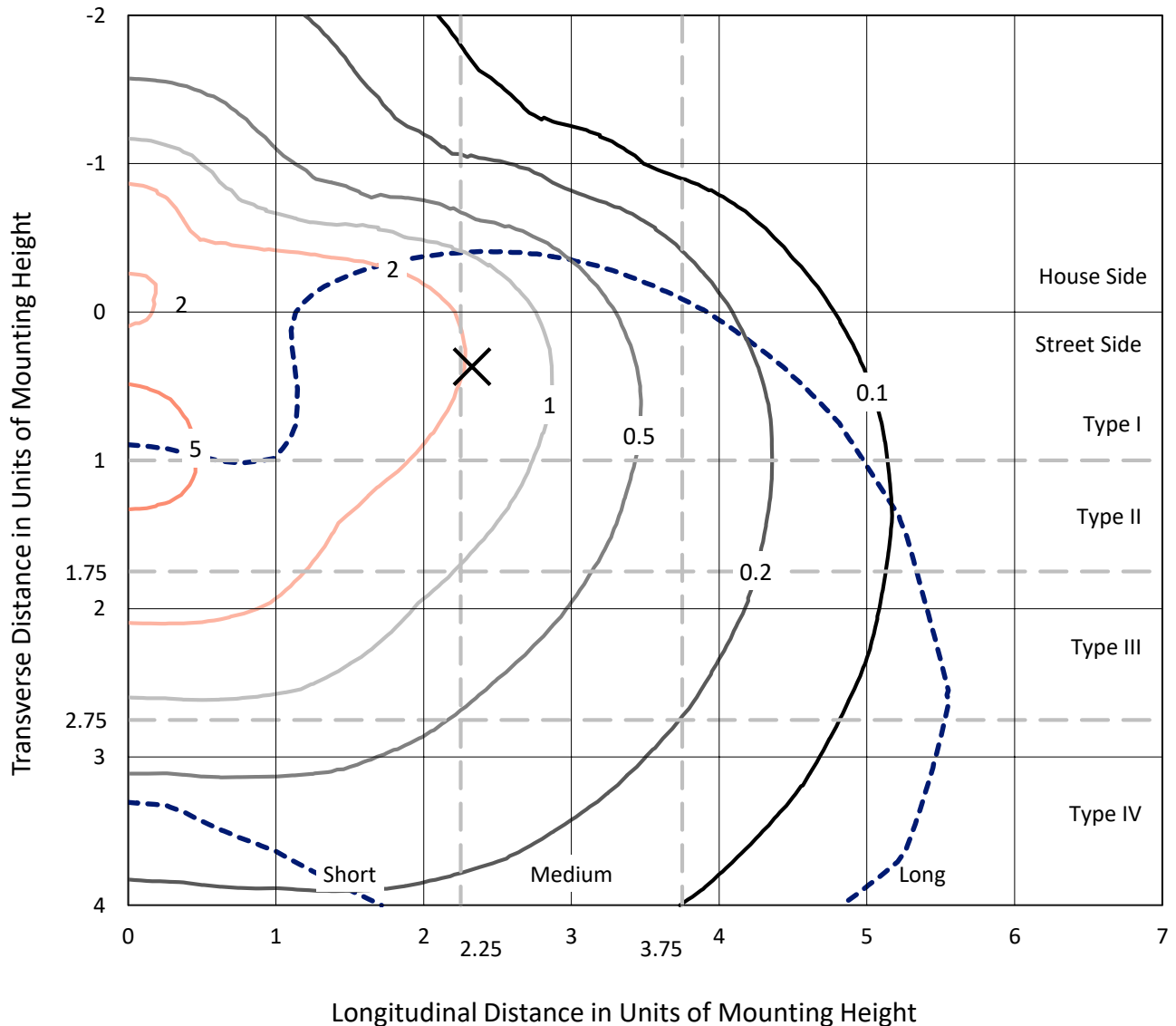


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

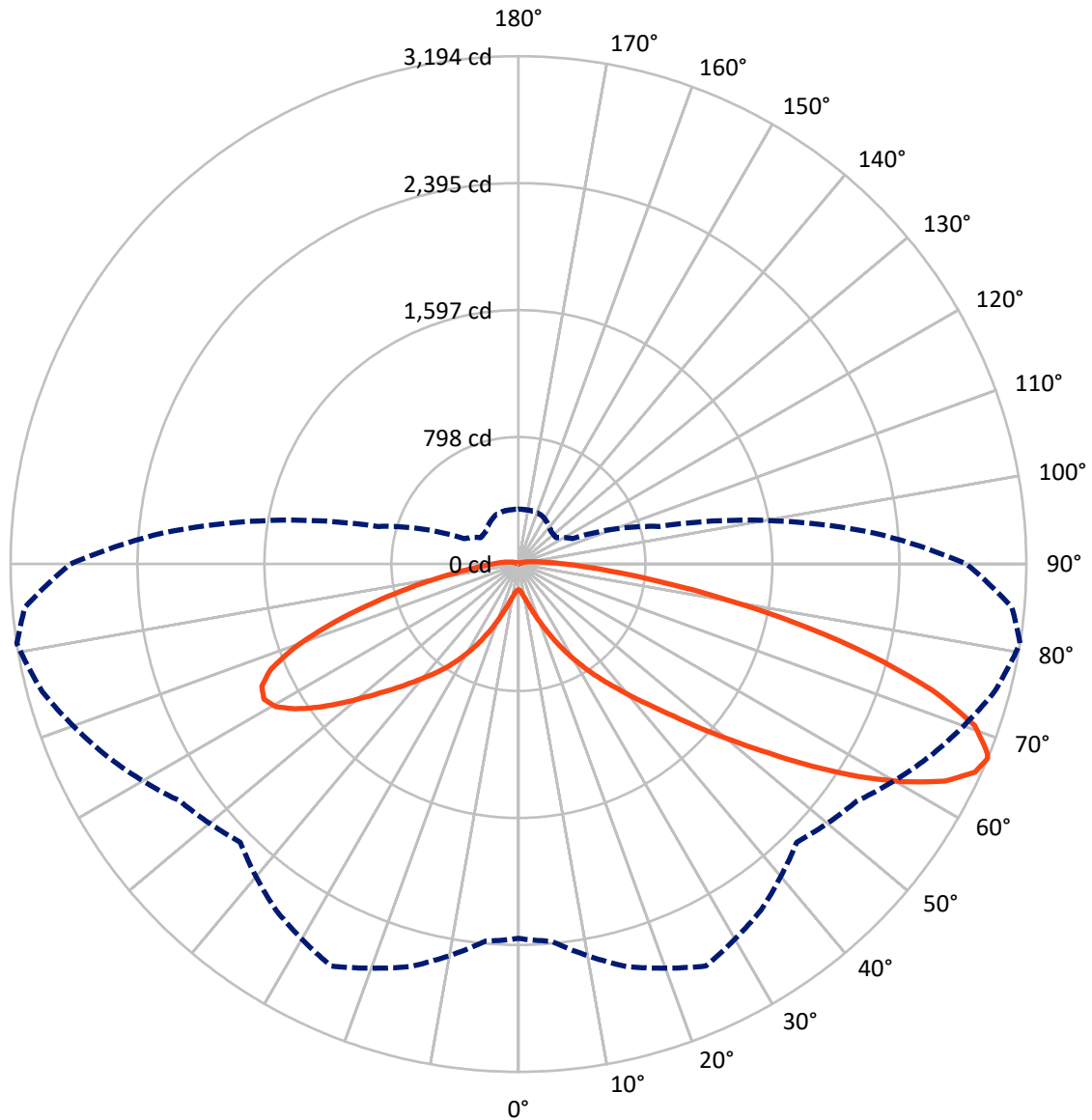


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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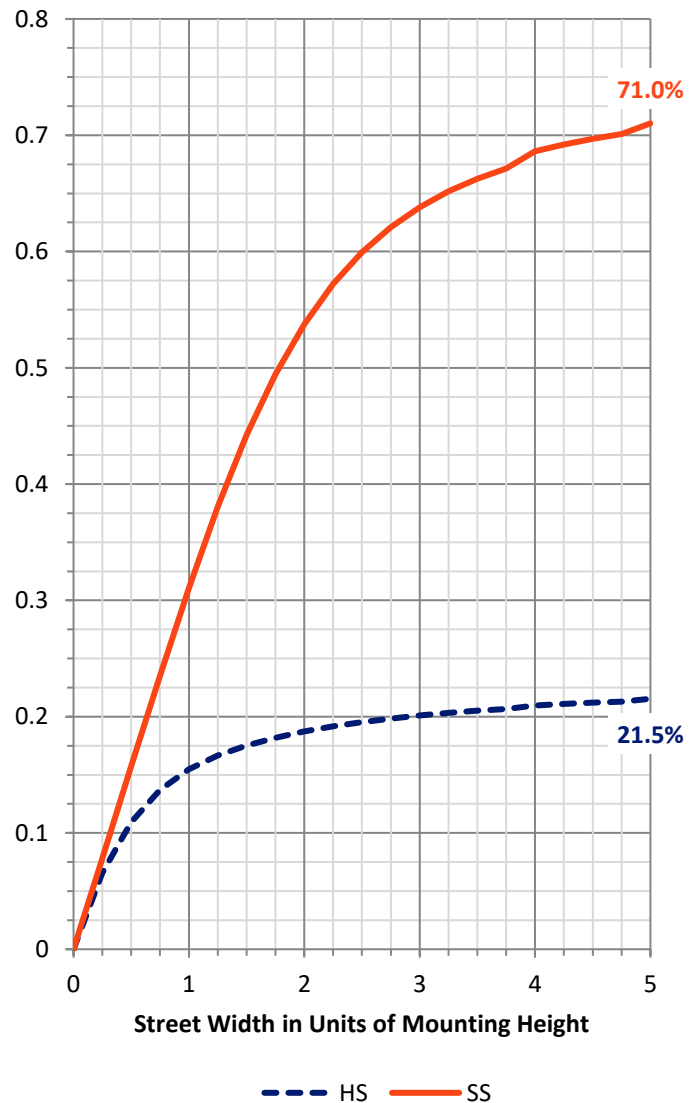
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.3	117.2	1573.5
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4700.7	133.9	4834.6
	% Fixture	73.4	2.1	75.4
Total	Lumens	6157.0	251.1	6408.1
	% Fixture	96.1	3.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.3
10°-20°	80.9	1.3
20°-30°	218.5	3.4
30°-40°	438.6	6.8
40°-50°	741.4	11.6
50°-60°	1185.3	18.5
60°-70°	1619.6	25.3
70°-80°	1335.0	20.8
80°-90°	519.7	8.1
90°-100°	149.6	2.3
100°-110°	57.3	0.9
110°-120°	24.8	0.4
120°-130°	11.9	0.2
130°-140°	5.6	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6157.0	96.1
0°-180°	6408.1	100.0



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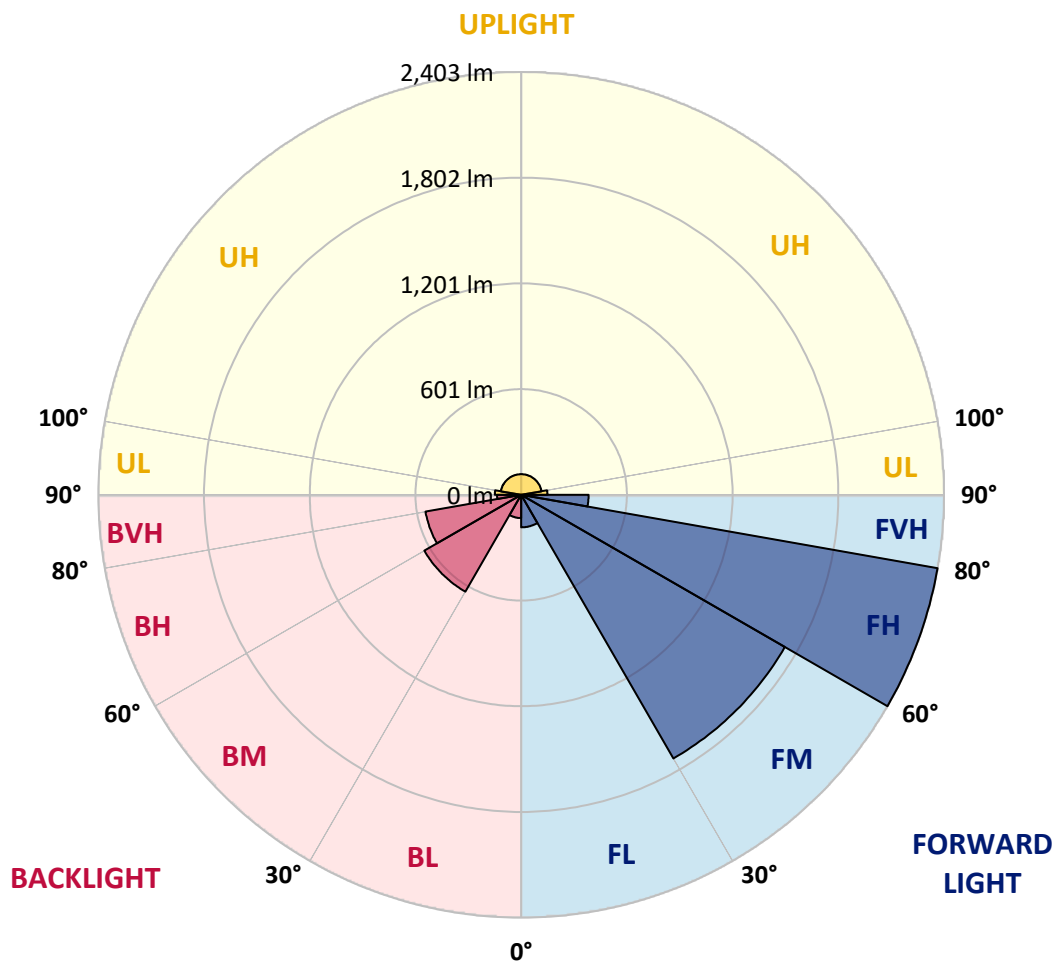
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	185.1	2.9			
FM	(30°-60°)	1730.0	27.0			
FH	(60°-80°)	2402.8	37.5			G2/5000
FVH	(80°-90°)	382.8	6.0			G3/500
BL	(0°-30°)	132.3	2.1	B1/500		
BM	(30°-60°)	635.3	9.9	B1/1000		
BH	(60°-80°)	551.9	8.6	B2/1000		G2/1000
BVH	(80°-90°)	136.8	2.1			G2/225
UL	(90°-100°)	149.6	2.3		U3/500	
UH	(100°-180°)	117.2	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°	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2
2.5°	175.4	175.4	175.4	174.5	173.7	172.1	170.5	168.8	168.0	167.1	166.4
5°	193.3	194.2	193.3	192.6	190.0	187.6	184.3	181.9	178.6	177.0	176.1
7.5°	220.1	220.1	219.4	215.3	212.8	208.8	204.8	199.8	196.5	194.2	190.8
10°	254.5	252.8	251.2	247.2	241.4	234.9	230.0	224.3	218.5	217.0	213.7
12.5°	295.2	295.2	291.1	285.5	274.9	268.3	260.1	253.6	247.9	244.6	243.0
15°	349.8	347.5	340.2	331.2	318.1	305.1	296.1	291.1	285.5	285.5	279.7
17.5°	405.4	407.7	396.4	382.5	364.6	348.2	337.6	336.8	334.4	332.8	331.9
20°	477.9	475.5	461.6	437.9	411.9	392.2	384.9	385.8	392.2	391.4	388.2
22.5°	556.2	556.2	535.1	503.2	466.5	442.8	435.5	442.8	456.7	456.7	458.4
25°	649.2	645.9	619.1	570.9	526.8	495.8	492.6	504.0	528.5	532.5	530.9
27.5°	753.6	742.2	707.1	647.6	589.7	554.6	548.9	570.2	603.5	614.9	619.1
30°	864.5	865.4	811.5	734.0	655.7	609.2	606.8	641.1	681.0	700.6	705.5
32.5°	992.5	988.5	926.5	829.4	728.3	667.9	665.5	712.8	763.4	788.7	791.9
35°	1151.6	1132.8	1063.5	936.3	803.4	734.9	733.2	784.6	850.6	882.5	890.6
37.5°	1297.6	1287.7	1208.6	1047.1	889.0	802.5	799.2	866.1	944.4	981.1	992.5
40°	1468.0	1456.7	1363.7	1179.4	990.9	880.8	879.2	955.0	1045.6	1092.0	1101.9
42.5°	1635.2	1627.9	1527.6	1326.1	1098.6	968.9	965.7	1053.7	1160.6	1212.8	1225.1
45°	1814.7	1795.9	1698.9	1476.2	1218.5	1070.8	1072.5	1167.9	1299.9	1361.2	1373.4
47.5°	1968.0	1956.5	1875.0	1638.5	1350.6	1181.7	1184.2	1311.4	1472.0	1543.1	1548.7
50°	2135.2	2128.6	2047.8	1810.5	1509.6	1319.7	1323.6	1467.3	1661.3	1742.9	1771.4
52.5°	2273.8	2274.7	2213.5	1987.5	1666.2	1468.0	1480.3	1653.2	1866.8	1976.2	1993.2
55°	2409.1	2405.2	2369.2	2181.7	1852.2	1634.4	1648.2	1858.7	2112.3	2244.4	2267.2
57.5°	2507.1	2517.7	2521.7	2367.5	2032.4	1801.5	1847.2	2072.3	2379.7	2521.7	2542.1
60°	2574.7	2579.6	2636.8	2554.4	2227.4	1999.0	2058.5	2309.7	2631.1	2780.3	2793.3
62.5°	2568.2	2589.5	2700.4	2694.7	2416.5	2186.5	2262.4	2532.3	2849.6	3007.8	3010.3
65°	2481.0	2516.0	2702.0	2783.5	2573.2	2364.4	2462.1	2733.0	3029.0	3154.7	3122.0
67°	2354.5	2381.5	2620.4	2789.3	2658.0	2474.4	2598.4	2856.9	3100.0	3193.7	3114.7
67.5°	2301.5	2349.6	2590.2	2783.5	2666.9	2498.1	2620.4	2889.6	3114.7	3181.5	3096.7
70°	2046.2	2083.8	2353.8	2666.9	2670.2	2569.9	2711.9	2928.7	3059.2	3044.5	2891.2
72.5°	1700.5	1717.5	2013.6	2410.0	2547.8	2541.3	2684.8	2827.5	2826.0	2728.9	2542.9
75°	1288.6	1334.3	1600.9	2023.4	2292.6	2382.3	2512.8	2560.1	2447.5	2284.4	2059.3
77.5°	909.4	933.0	1168.7	1591.2	1937.8	2105.0	2197.1	2175.2	1968.0	1775.5	1571.5
80°	588.8	611.7	774.0	1140.1	1519.4	1698.0	1782.0	1716.8	1508.0	1282.0	1110.8
82.5°	356.4	376.0	490.1	765.1	1116.5	1316.3	1358.7	1296.0	1063.5	875.9	741.4
85°	208.8	224.3	304.2	493.5	760.9	950.1	965.7	893.8	714.4	585.6	494.2
87.5°	127.2	135.4	192.6	315.6	504.9	641.1	672.8	606.0	481.2	391.4	332.8
90°	82.4	88.1	123.1	207.1	331.2	423.3	442.8	404.5	326.2	266.7	229.2
92.5°	56.3	62.0	85.7	138.6	217.8	280.6	292.9	265.8	219.4	187.6	167.1
95°	43.2	45.7	65.2	97.9	148.5	187.6	199.0	181.1	153.3	137.8	125.6
97.5°	35.1	36.7	52.2	75.8	107.6	134.6	139.5	126.4	113.4	103.6	97.9
100°	30.1	31.0	44.0	62.0	84.0	101.9	104.4	94.6	85.7	80.8	75.8
102.5°	26.9	27.8	38.4	53.0	68.5	80.8	80.8	73.4	65.2	62.0	59.5
105°	23.6	24.5	34.3	45.7	58.7	66.1	66.1	57.9	50.6	47.3	46.4
107.5°	21.2	22.1	29.4	40.0	49.7	55.5	54.6	46.4	38.4	35.1	35.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	19.5	19.5	26.1	35.1	42.4	47.3	44.9	37.4	29.4	26.9	27.8
112.5°	17.9	17.9	22.8	30.1	37.4	40.8	37.4	31.0	22.8	21.2	22.1
115°	17.2	17.2	20.4	26.9	32.7	34.3	31.8	25.2	18.8	17.2	17.9
117.5°	15.6	15.6	18.8	23.6	27.8	29.4	26.9	20.4	15.6	14.6	15.6
120°	14.6	14.6	16.3	20.4	24.5	25.2	22.8	17.2	13.0	13.0	13.8
122.5°	13.8	13.8	15.6	17.9	21.2	22.1	19.5	13.8	11.5	11.5	12.2
125°	13.8	13.8	13.8	16.3	17.9	18.8	16.3	12.2	10.6	10.6	11.5
127.5°	13.0	13.0	13.0	13.8	15.6	15.6	13.8	9.9	9.0	9.9	9.9
130°	12.2	12.2	12.2	13.0	13.8	13.0	11.5	8.2	8.2	9.0	9.0
132.5°	11.5	11.5	11.5	11.5	11.5	10.6	9.0	7.3	7.3	8.2	8.2
135°	10.6	10.6	10.6	9.9	9.9	9.0	7.3	5.7	6.5	7.3	7.3
137.5°	9.9	9.9	9.9	9.0	8.2	6.5	4.9	4.9	5.7	6.5	6.5
140°	9.0	9.0	8.2	7.3	6.5	4.9	3.3	4.1	4.9	4.9	5.7
142.5°	7.3	7.3	7.3	5.7	4.1	3.3	2.4	2.4	4.1	4.1	4.1
145°	6.5	6.5	5.7	4.9	3.3	1.6	0.8	1.6	2.4	3.3	3.3
147.5°	4.9	4.9	4.9	3.3	1.6	0.8	0.8	0.8	1.6	2.4	2.4
150°	4.1	4.1	3.3	2.4	0.8	0.0	0.0	0.8	1.6	1.6	1.6
152.5°	2.4	2.4	2.4	1.6	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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°	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2
2.5°	165.5	164.8	163.9	162.2	161.4	159.8	158.2	157.5	156.6	156.6	156.6
5°	174.5	173.7	171.3	168.0	165.5	163.2	161.4	159.8	158.2	158.2	158.2
7.5°	189.2	187.6	182.7	179.4	175.4	172.1	169.7	167.1	166.4	166.4	165.5
10°	210.5	207.9	202.2	195.7	190.0	186.0	182.7	180.3	179.4	179.4	179.4
12.5°	238.1	234.9	225.9	217.8	208.8	203.1	199.0	198.2	199.0	199.0	198.2
15°	278.1	271.6	257.8	244.6	230.7	221.8	219.4	219.4	223.4	225.1	225.9
17.5°	326.2	318.1	299.3	278.1	256.9	244.6	243.0	247.9	256.9	261.0	260.1
20°	385.8	374.3	348.2	316.5	287.2	271.6	270.0	278.9	291.1	299.3	298.5
22.5°	452.7	442.1	402.8	356.4	315.6	297.7	295.2	310.0	327.9	336.8	340.2
25°	526.8	512.2	460.7	397.1	345.8	320.5	319.7	337.6	361.3	377.6	380.0
27.5°	607.6	590.4	522.8	437.9	371.9	339.2	338.4	363.0	395.5	415.9	416.8
30°	696.5	670.5	584.0	472.2	391.4	352.4	354.0	382.5	424.2	447.8	451.8
32.5°	784.6	755.2	639.3	505.7	404.5	358.8	361.3	397.1	442.8	473.0	476.3
35°	877.6	839.9	694.9	527.7	411.9	359.7	362.0	402.8	452.7	485.2	488.5
37.5°	971.4	926.5	741.4	544.0	411.9	354.8	358.1	401.3	451.8	485.2	487.8
40°	1082.2	1016.9	785.3	550.5	405.4	345.8	349.8	392.2	439.6	470.6	473.0
42.5°	1197.3	1119.0	827.0	548.9	393.9	334.4	338.4	377.6	419.2	444.4	447.0
45°	1335.9	1240.5	869.3	544.0	380.0	322.1	324.6	359.7	394.8	412.7	415.9
47.5°	1506.3	1370.9	912.7	535.1	364.6	310.8	312.4	343.4	368.6	380.0	382.5
50°	1695.6	1525.1	960.0	522.8	349.8	300.1	302.5	327.9	345.8	350.7	351.5
52.5°	1919.8	1699.6	1004.0	508.0	336.8	291.9	295.2	318.1	330.3	331.2	331.9
55°	2162.0	1890.5	1043.1	490.1	323.7	286.3	292.9	314.0	322.1	321.3	322.1
57.5°	2414.8	2074.0	1069.9	471.4	313.1	283.0	293.6	314.0	322.1	320.5	322.1
60°	2640.8	2231.4	1074.1	447.0	305.1	283.0	298.5	319.7	327.0	327.0	328.7
62.5°	2801.5	2321.9	1047.1	422.5	297.7	284.6	305.1	327.0	334.4	334.4	336.0
65°	2866.8	2320.3	988.5	396.4	291.9	287.2	311.5	335.2	340.9	340.9	342.5
67°	2817.8	2244.4	912.7	376.8	288.7	289.5	316.5	340.2	344.9	344.1	344.9
67.5°	2787.6	2217.5	896.4	371.1	287.9	289.5	317.3	340.9	345.8	344.9	344.9
70°	2538.1	1988.3	783.7	346.6	282.2	289.5	320.5	342.5	345.8	344.1	344.1
72.5°	2152.3	1663.8	657.3	322.1	275.7	287.2	318.9	340.2	341.8	339.2	339.2
75°	1711.9	1301.6	540.0	300.9	266.7	281.4	313.1	332.8	335.2	332.8	330.3
77.5°	1267.4	964.0	436.4	278.1	256.1	272.4	303.4	322.1	324.6	322.1	319.7
80°	884.1	685.0	351.5	255.2	242.2	259.4	289.5	305.8	309.1	307.4	303.4
82.5°	591.3	470.6	281.4	230.0	224.3	242.2	270.8	285.5	287.9	286.3	281.4
85°	403.7	327.9	232.4	203.1	204.8	221.8	246.3	257.8	260.1	257.8	252.8
87.5°	271.6	234.9	190.0	177.0	181.9	198.2	217.8	223.4	228.4	224.3	221.0
90°	196.5	177.0	153.3	150.9	159.1	172.8	186.0	186.8	193.3	191.6	185.0
92.5°	147.6	138.6	127.2	127.2	136.2	147.6	155.8	154.2	158.2	158.2	153.3
95°	116.6	111.8	106.0	108.5	116.6	124.8	127.2	124.0	128.1	128.8	127.2
97.5°	93.8	92.1	90.5	92.1	99.5	106.0	105.2	99.5	102.8	104.4	102.8
100°	75.8	75.1	75.8	79.1	84.7	88.9	86.5	80.8	83.1	83.1	83.1
102.5°	61.1	61.1	63.6	66.8	70.9	74.2	70.9	66.1	66.8	66.1	66.1
105°	48.1	48.9	52.2	56.3	59.5	61.1	57.9	53.0	52.2	49.7	50.6
107.5°	37.4	39.2	42.4	46.4	49.7	50.6	48.1	43.2	40.0	38.4	38.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	29.4	31.0	35.1	38.4	40.8	41.6	39.2	34.3	30.1	29.4	29.4
112.5°	23.6	25.2	28.5	31.8	34.3	34.3	31.8	27.8	22.8	22.1	22.1
115°	19.5	20.4	23.6	26.1	28.5	28.5	26.1	22.1	17.9	17.2	17.9
117.5°	16.3	17.2	19.5	22.1	23.6	23.6	21.2	17.2	13.8	13.8	13.8
120°	14.6	15.6	17.2	18.8	19.5	19.5	17.9	13.8	11.5	11.5	11.5
122.5°	13.0	13.0	14.6	15.6	17.2	16.3	14.6	11.5	9.0	9.9	9.9
125°	11.5	12.2	12.2	13.8	13.8	13.8	11.5	9.0	8.2	8.2	8.2
127.5°	10.6	10.6	11.5	11.5	12.2	11.5	9.0	6.5	6.5	7.3	7.3
130°	9.9	9.9	9.9	9.9	9.9	9.0	7.3	5.7	5.7	6.5	6.5
132.5°	8.2	9.0	9.0	8.2	8.2	7.3	5.7	4.1	4.9	4.9	4.9
135°	7.3	8.2	7.3	7.3	6.5	5.7	4.1	3.3	4.1	4.1	4.1
137.5°	6.5	6.5	6.5	5.7	4.9	4.1	3.3	2.4	3.3	3.3	3.3
140°	5.7	5.7	5.7	4.9	4.1	3.3	1.6	1.6	2.4	2.4	2.4
142.5°	4.1	4.9	4.1	3.3	2.4	1.6	0.8	0.8	1.6	2.4	1.6
145°	3.3	3.3	3.3	2.4	1.6	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	2.4	2.4	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.8	0.8
150°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	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)