

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: P240580

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

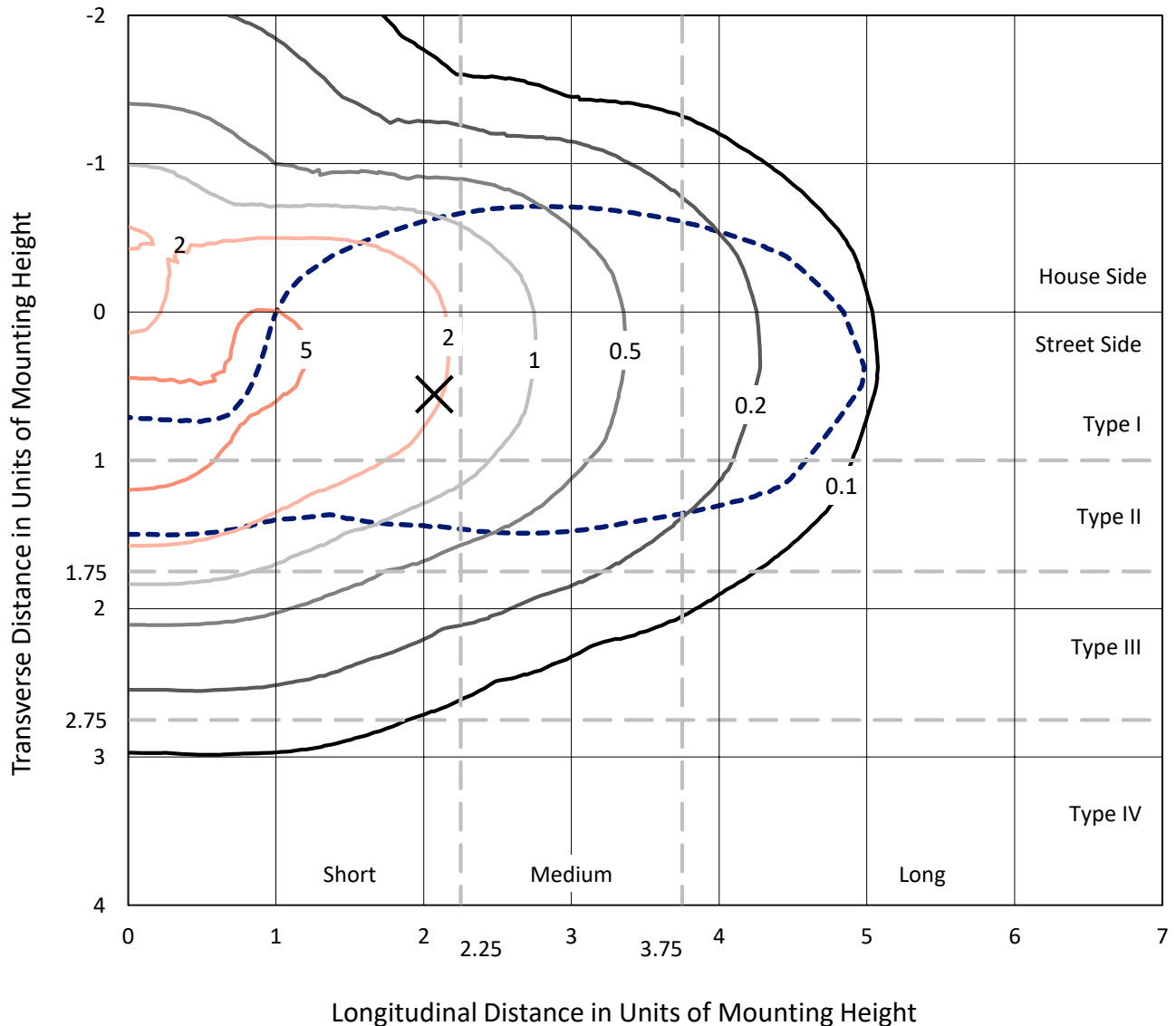
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

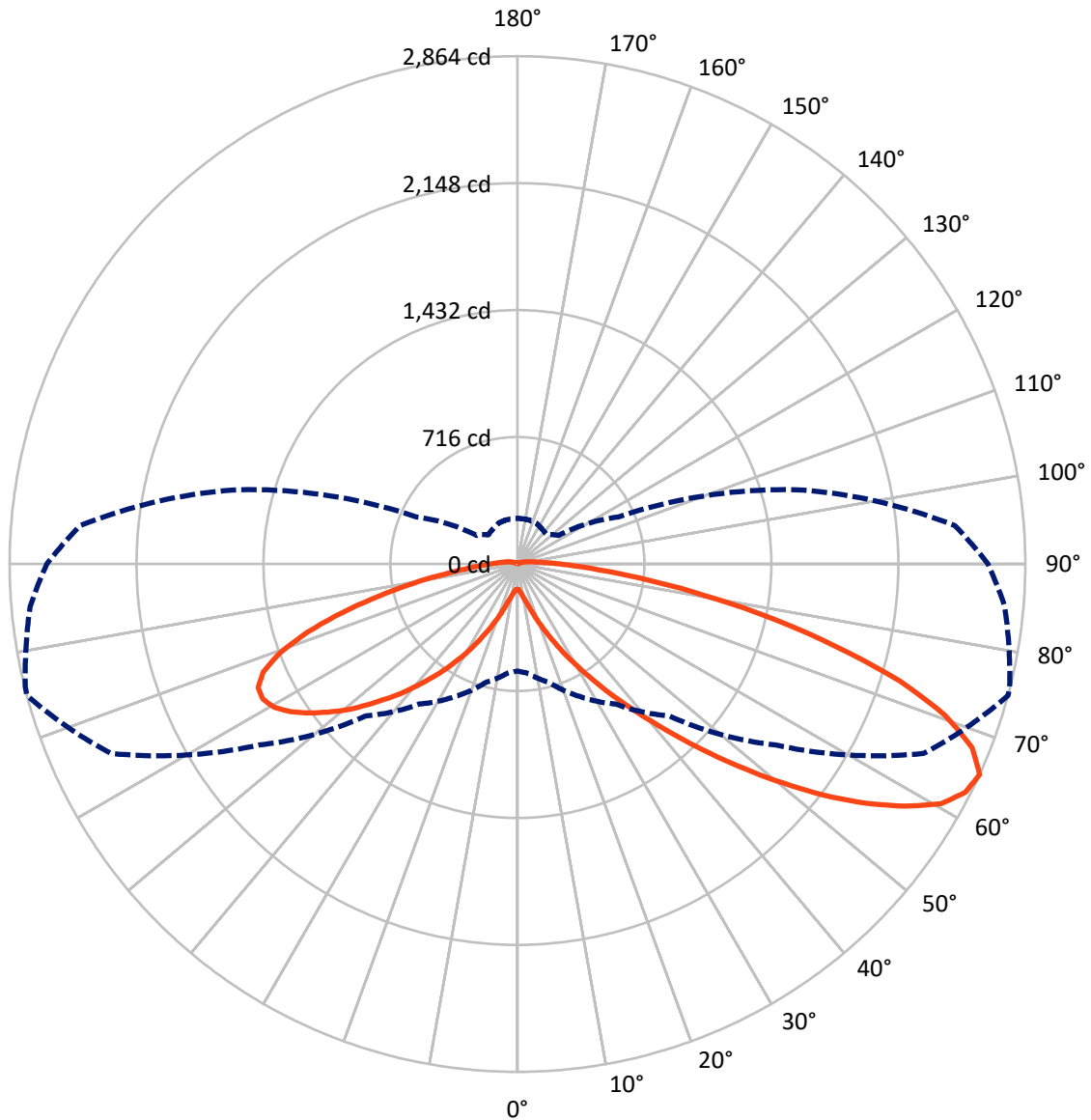
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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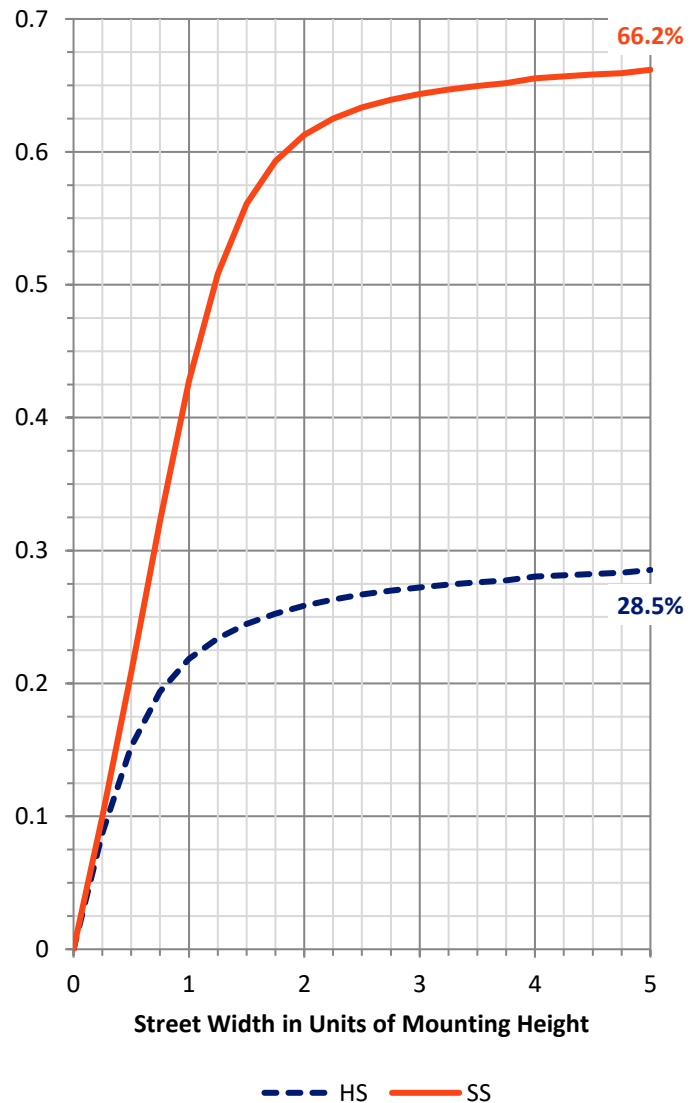
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.5	88.6	1567.1
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3360.4	79.8	3440.2
	% Fixture	67.1	1.6	68.7
Total	Lumens	4838.9	168.4	5007.3
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.3
10°-20°	72.4	1.4
20°-30°	211.2	4.2
30°-40°	473.6	9.5
40°-50°	842.9	16.8
50°-60°	1145.4	22.9
60°-70°	1112.3	22.2
70°-80°	701.1	14.0
80°-90°	264.4	5.3
90°-100°	90.0	1.8
100°-110°	40.7	0.8
110°-120°	19.6	0.4
120°-130°	10.3	0.2
130°-140°	5.4	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4838.9	96.6
0°-180°	5007.3	100.0

Coefficient of Utilization



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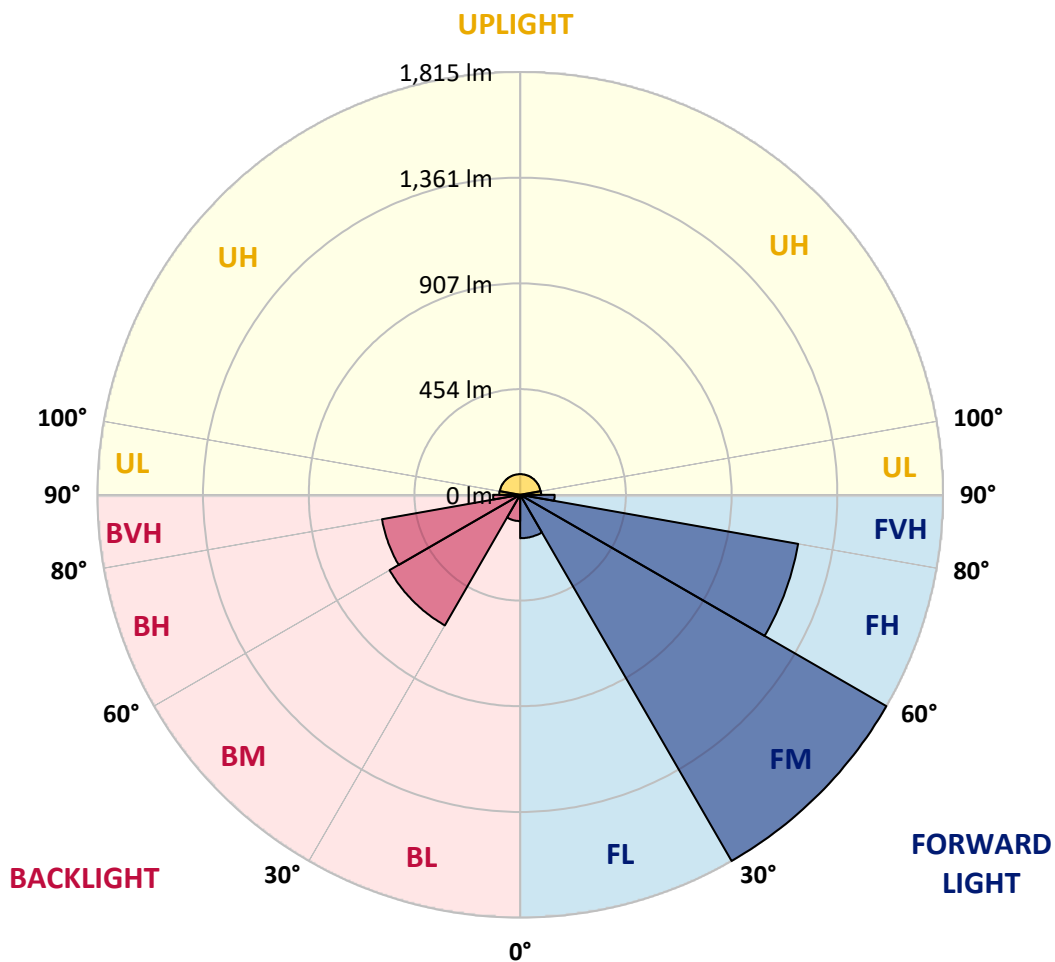
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.5	3.7			
FM (30°-60°)	1814.7	36.2			
FH (60°-80°)	1211.3	24.2			G1/1800
FVH (80°-90°)	148.0	3.0			G2/225
BL (0°-30°)	112.8	2.3	B1/500		
BM (30°-60°)	647.2	12.9	B1/1000		
BH (60°-80°)	602.1	12.0	B2/1000		G2/1000
BVH (80°-90°)	116.4	2.3			G2/225
UL (90°-100°)	90.0	1.8		U3/500	
UH (100°-180°)	88.6	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4
2.5°	154.9	154.3	154.3	154.3	153.0	151.8	149.9	148.6	146.7	146.1	145.6
5°	171.2	171.2	170.6	169.9	168.7	165.5	162.5	159.9	156.8	156.1	153.6
7.5°	196.8	196.3	195.7	192.6	190.6	186.3	181.3	177.4	171.9	171.9	168.0
10°	230.7	229.6	227.7	224.5	217.7	212.0	206.3	199.4	193.8	193.2	187.5
12.5°	271.0	271.0	268.4	262.1	253.4	245.2	235.8	228.3	220.7	220.1	215.1
15°	326.1	326.6	318.6	309.2	296.6	284.1	272.2	265.3	256.5	258.4	251.6
17.5°	394.4	393.3	386.3	367.4	346.8	330.5	316.8	309.2	302.3	302.8	297.8
20°	480.4	479.1	467.2	442.2	408.3	383.8	367.4	362.5	358.7	356.8	351.9
22.5°	586.4	580.0	556.2	523.7	482.9	447.8	430.2	422.8	421.4	422.1	417.1
25°	704.8	702.4	672.3	620.3	567.5	522.4	495.4	494.2	496.0	492.9	492.9
27.5°	849.2	842.2	807.1	735.0	659.7	605.9	574.4	571.3	580.0	577.6	573.8
30°	1017.9	1007.2	959.6	867.3	770.8	698.6	662.2	662.2	671.6	671.6	670.5
32.5°	1193.9	1192.1	1118.2	1010.3	896.2	800.9	769.5	764.5	773.9	778.9	772.6
35°	1392.2	1377.8	1292.5	1170.1	1022.8	918.1	879.2	886.1	893.6	894.3	884.2
37.5°	1594.1	1579.7	1481.9	1330.8	1158.9	1046.0	1006.0	1010.8	1022.8	1022.8	1009.7
40°	1767.3	1751.5	1655.6	1498.2	1309.5	1188.4	1145.8	1160.3	1168.3	1171.5	1150.2
42.5°	1904.0	1892.7	1806.7	1646.2	1454.2	1331.4	1303.8	1327.6	1335.8	1342.0	1311.3
45°	1980.5	1971.0	1911.5	1766.6	1575.9	1474.4	1479.4	1508.3	1523.9	1516.9	1483.7
47.5°	1992.4	1984.8	1951.6	1841.2	1687.6	1611.7	1659.3	1702.6	1726.6	1727.1	1670.7
50°	1918.4	1921.6	1922.1	1858.8	1750.4	1723.3	1827.5	1924.6	1942.8	1932.8	1866.2
52.5°	1774.7	1772.8	1809.3	1809.3	1761.6	1792.3	1968.6	2142.2	2167.3	2164.9	2072.6
55°	1561.6	1563.4	1631.1	1684.4	1702.0	1806.7	2083.9	2339.1	2380.5	2376.8	2275.3
57.5°	1296.3	1314.4	1397.9	1500.0	1579.7	1745.3	2137.2	2508.5	2576.3	2576.9	2454.0
60°	1038.5	1057.3	1154.6	1285.6	1401.0	1626.8	2101.5	2596.3	2744.9	2738.0	2607.6
62.5°	793.3	812.8	906.2	1055.5	1189.7	1437.3	1979.8	2614.5	2834.6	2830.2	2718.0
65°	603.8	616.4	691.7	822.8	963.8	1210.9	1779.8	2527.9	2864.0	2861.0	2758.7
67.5°	451.6	457.1	528.7	634.7	756.9	979.5	1503.2	2319.7	2766.2	2769.4	2712.3
70°	347.5	351.2	403.2	495.4	586.4	765.7	1217.9	2019.3	2560.5	2568.6	2566.8
72.5°	275.9	281.6	323.0	390.0	455.9	580.0	942.0	1633.7	2255.7	2272.7	2323.5
75°	227.7	234.0	265.3	314.7	362.5	441.5	684.8	1253.6	1854.3	1890.1	2003.0
77.5°	188.2	194.4	220.7	259.6	289.1	337.4	501.7	926.8	1456.8	1471.8	1621.1
80°	154.3	159.9	183.8	213.8	235.1	263.5	365.6	650.9	1062.3	1081.1	1226.7
82.5°	122.9	128.0	149.9	174.4	191.9	211.3	271.0	445.9	740.0	753.8	849.7
85°	94.7	99.8	118.5	139.9	154.9	170.6	207.6	310.4	489.8	506.1	576.4
87.5°	70.9	75.3	90.9	109.2	124.8	138.0	159.9	214.4	326.6	340.6	373.7
90°	52.0	55.1	69.0	82.8	97.2	111.7	125.4	156.8	217.7	223.2	246.5
92.5°	38.9	40.8	52.0	63.9	77.8	90.3	99.1	115.4	153.0	153.6	169.9
95°	28.9	30.7	40.1	50.1	62.1	74.0	81.5	89.7	112.2	114.1	124.1
97.5°	23.2	23.8	32.0	40.8	50.8	60.8	67.0	71.4	85.9	87.9	94.7
100°	19.4	20.1	27.0	34.5	43.2	52.0	56.5	58.4	67.7	69.6	74.7
102.5°	16.9	16.9	23.2	30.1	37.5	43.9	47.0	48.3	54.5	54.5	58.4
105°	15.1	15.1	20.1	26.3	32.6	38.2	40.1	40.1	42.6	43.2	45.2
107.5°	13.7	13.7	18.1	23.8	28.9	33.3	34.5	33.3	33.9	33.9	35.1
110°	12.6	12.6	15.7	21.3	25.6	28.9	29.5	28.2	26.3	26.3	27.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	11.3	11.9	14.4	18.8	22.6	25.6	25.6	23.8	20.6	20.6	22.0
115°	10.7	10.7	13.2	16.9	20.1	22.6	22.6	20.1	16.9	16.3	17.6
117.5°	10.1	10.1	11.3	15.1	18.1	20.1	20.1	16.9	13.7	13.7	15.1
120°	9.4	9.4	10.7	13.7	16.3	18.1	17.6	15.1	11.9	11.9	13.2
122.5°	9.4	9.4	10.1	12.6	14.4	15.7	15.1	12.6	10.1	10.1	11.3
125°	8.7	8.7	9.4	11.3	13.2	14.4	13.2	10.7	9.4	9.4	10.1
127.5°	8.7	8.7	8.7	10.1	11.9	12.6	11.9	9.4	8.2	8.2	9.4
130°	8.2	8.2	8.7	9.4	10.7	11.3	10.1	8.2	7.5	7.5	8.7
132.5°	8.2	8.2	8.2	8.2	8.7	9.4	8.2	6.2	6.9	6.9	7.5
135°	7.5	7.5	7.5	7.5	8.2	8.2	6.9	5.7	6.2	6.2	6.9
137.5°	6.9	6.9	6.9	6.9	6.9	6.2	5.7	5.0	5.7	5.7	6.2
140°	6.2	6.2	6.2	5.7	5.0	5.0	4.4	3.8	4.4	4.4	5.0
142.5°	5.7	5.7	5.7	5.0	4.4	3.8	3.2	3.2	3.8	3.8	4.4
145°	5.0	5.0	4.4	3.8	3.2	2.5	1.8	2.5	3.2	3.2	3.8
147.5°	3.8	3.8	3.8	3.2	1.8	1.2	1.2	1.8	2.5	2.5	2.5
150°	3.2	3.2	3.2	2.5	1.2	0.6	0.6	1.2	1.2	1.2	1.8
152.5°	1.8	1.8	1.8	1.8	0.6	0.0	0.0	0.6	1.2	1.2	1.2
155°	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0
162.5°	0.0	0.0	0.0	0.6	0.6	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°	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4
2.5°	144.9	144.2	143.0	141.7	140.5	139.2	138.0	137.3	136.1	136.1	136.1
5°	152.4	150.6	148.0	145.6	143.0	141.1	139.2	137.3	136.1	135.5	134.8
7.5°	166.2	163.7	159.3	155.4	151.1	147.4	144.2	141.7	140.5	139.9	139.9
10°	184.9	181.9	176.2	168.7	163.7	158.0	153.0	149.9	147.4	146.7	146.1
12.5°	210.1	206.9	197.5	189.3	180.0	171.2	165.5	161.8	159.9	159.3	159.3
15°	245.9	242.1	227.0	213.3	198.2	187.5	180.0	176.9	177.4	179.4	177.4
17.5°	290.3	284.7	267.1	244.5	222.1	205.7	198.8	199.4	201.9	203.8	203.2
20°	345.6	337.4	312.9	280.9	250.2	228.3	221.4	222.1	225.2	230.7	230.1
22.5°	410.2	397.6	366.2	323.0	279.7	254.6	242.1	243.9	250.9	256.5	256.5
25°	481.0	469.7	425.2	367.4	313.6	276.5	260.9	263.5	273.4	279.7	281.6
27.5°	565.1	547.5	492.3	417.1	345.6	296.0	276.5	277.8	290.3	298.5	299.8
30°	654.7	634.0	565.1	466.5	373.7	311.1	285.9	288.5	302.3	311.7	313.6
32.5°	755.6	731.3	641.0	518.7	400.1	319.8	290.9	293.5	307.9	318.6	319.8
35°	867.9	832.2	722.4	566.3	417.7	323.0	290.9	294.1	307.9	318.6	320.4
37.5°	982.0	942.0	802.1	612.1	428.3	320.4	286.6	290.3	302.8	312.9	314.7
40°	1115.0	1063.6	889.3	649.6	432.1	313.6	279.0	283.4	294.1	302.3	303.5
42.5°	1266.8	1193.9	980.8	681.7	426.4	304.9	271.5	276.5	285.3	290.9	291.6
45°	1424.2	1336.4	1069.8	706.8	418.3	294.1	264.0	269.7	277.2	278.4	279.7
47.5°	1594.1	1496.3	1167.1	721.7	403.8	282.9	258.4	264.0	269.0	268.4	269.0
50°	1782.2	1661.9	1266.2	728.1	387.6	273.4	254.0	260.2	264.0	260.9	260.9
52.5°	1966.0	1843.1	1356.5	730.6	369.4	264.6	250.9	258.4	260.2	257.1	257.1
55°	2161.7	2010.6	1446.8	723.8	351.2	257.8	249.5	257.8	259.1	254.6	254.6
57.5°	2342.3	2189.2	1528.3	713.0	334.3	251.6	247.7	257.1	258.4	254.6	255.2
60°	2508.5	2341.0	1591.6	695.4	316.1	245.2	246.5	257.1	258.4	255.8	257.1
62.5°	2610.1	2441.4	1624.9	667.9	298.5	239.6	244.5	255.8	258.4	256.5	257.8
65°	2654.0	2477.1	1620.5	628.4	281.6	232.6	240.8	253.4	256.5	256.5	257.8
67.5°	2620.7	2444.5	1556.5	577.6	265.9	225.7	235.8	248.3	252.7	254.0	255.8
70°	2497.2	2309.6	1427.9	513.6	249.0	218.2	229.6	241.5	246.5	249.0	250.2
72.5°	2250.7	2083.2	1245.4	449.6	231.4	208.8	220.1	231.4	237.1	240.2	240.2
75°	1937.8	1770.3	1025.3	382.0	215.1	198.2	208.8	218.2	224.5	227.7	226.3
77.5°	1559.0	1402.9	796.4	312.9	197.5	185.6	195.7	203.8	208.8	211.3	208.2
80°	1155.2	1055.5	598.3	258.4	180.0	171.2	179.4	186.3	191.9	191.3	188.8
82.5°	819.0	724.9	418.9	214.4	162.5	155.4	161.8	166.2	169.9	168.7	164.3
85°	545.6	484.1	296.0	175.0	144.2	138.5	142.4	144.9	146.7	143.5	140.5
87.5°	355.0	316.1	213.3	144.2	124.8	121.1	122.9	123.6	124.1	121.1	117.2
90°	232.0	215.7	158.7	119.2	107.2	104.8	104.8	102.2	102.8	99.1	95.3
92.5°	163.7	153.6	123.6	97.8	91.6	89.7	89.0	85.9	85.3	81.5	79.0
95°	122.3	117.9	99.8	82.8	77.8	77.1	75.9	72.7	70.3	66.4	65.2
97.5°	95.3	93.4	82.2	70.9	67.0	65.9	65.2	61.4	59.5	55.8	54.5
100°	75.9	75.9	69.0	60.8	57.7	57.1	56.5	52.7	50.8	47.0	46.4
102.5°	60.8	61.4	57.7	52.7	50.1	48.9	47.6	45.2	42.1	39.6	39.6
105°	47.6	48.9	47.6	44.6	43.2	42.1	40.8	38.2	35.1	32.6	32.6
107.5°	37.5	38.9	38.9	38.2	36.4	35.7	35.1	32.0	29.5	27.0	27.0
110°	28.9	30.7	32.0	32.0	32.0	30.7	29.5	27.7	24.5	22.6	22.6



REPORT NUMBER: P240580

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.2	24.5	26.3	27.0	27.0	27.0	25.6	22.6	20.1	18.8	19.4
115°	18.8	20.1	22.0	23.2	23.2	23.2	21.3	19.4	16.9	16.3	16.3
117.5°	15.7	16.9	18.1	20.1	20.1	20.1	18.8	16.3	13.7	13.7	13.7
120°	13.7	14.4	16.3	16.9	17.6	17.6	16.3	13.7	11.9	11.9	12.6
122.5°	11.9	12.6	13.7	15.1	15.7	15.1	13.7	11.3	10.1	10.7	10.7
125°	10.7	11.3	11.9	13.2	13.7	13.2	11.9	9.4	8.7	9.4	9.4
127.5°	10.1	10.1	10.7	11.3	11.9	11.3	10.1	8.2	7.5	8.7	8.7
130°	8.7	9.4	9.4	10.1	10.1	10.1	8.7	6.9	6.9	7.5	7.5
132.5°	8.2	8.2	8.2	8.7	8.7	8.2	6.9	5.7	6.2	6.9	6.9
135°	6.9	7.5	7.5	7.5	7.5	6.9	5.7	5.0	5.7	6.2	6.2
137.5°	6.2	6.2	6.2	6.2	6.2	5.7	5.0	4.4	5.0	5.0	5.0
140°	5.0	5.7	5.7	5.0	5.0	4.4	3.8	3.2	3.8	4.4	4.4
142.5°	4.4	4.4	4.4	4.4	3.8	3.2	2.5	2.5	3.2	3.2	3.2
145°	3.8	3.8	3.8	3.2	2.5	2.5	1.8	1.8	2.5	2.5	3.2
147.5°	2.5	2.5	2.5	2.5	1.8	1.8	1.2	1.2	1.8	1.8	1.8
150°	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)