

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: P240967

Luminaire Tested: **UTLD-AF24-50-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5413.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - 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



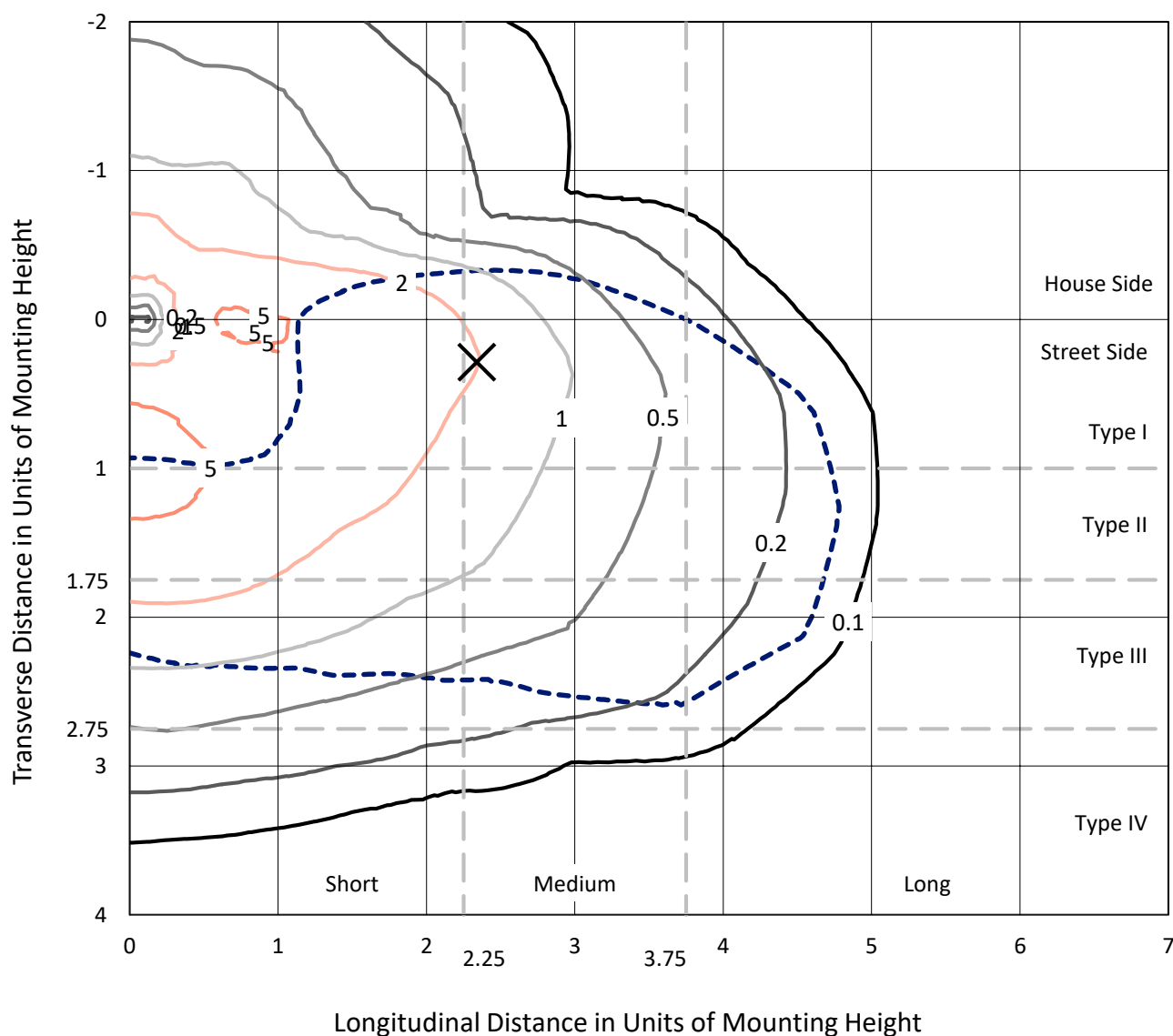
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

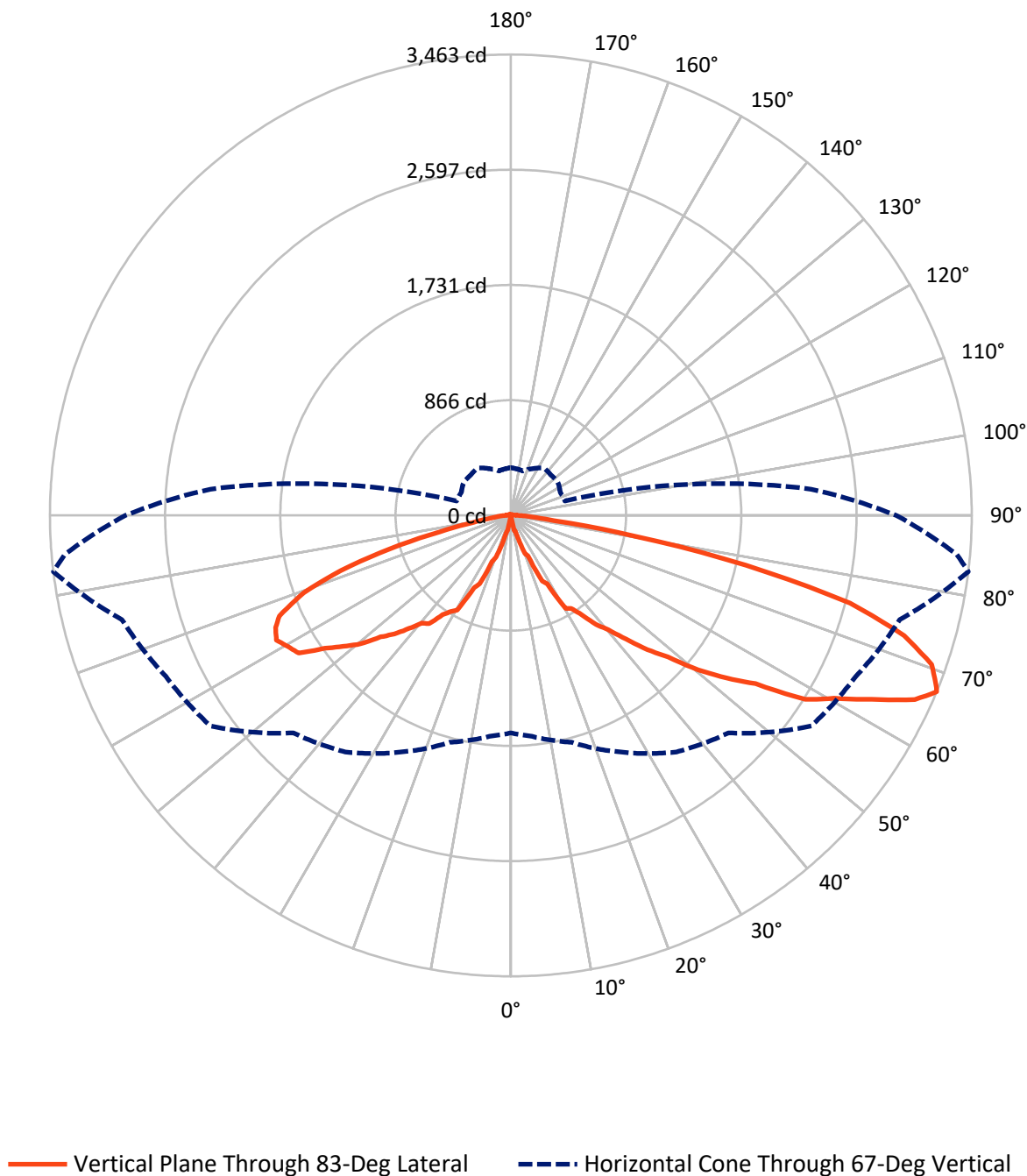


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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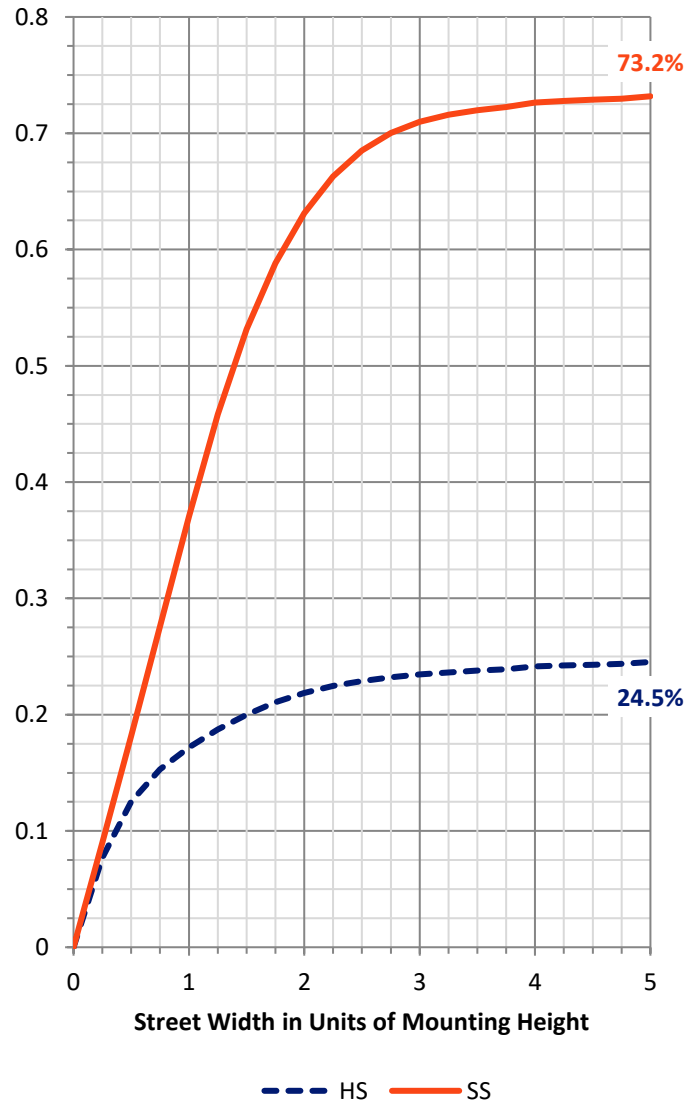
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.4	35.9	1394.3
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	3989.0	30.2	4019.2
	% Fixture	73.7	0.6	74.2
Total	Lumens	5347.3	66.1	5413.4
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	49.0	0.9
20°-30°	196.7	3.6
30°-40°	434.5	8.0
40°-50°	774.3	14.3
50°-60°	1242.7	23.0
60°-70°	1512.0	27.9
70°-80°	974.3	18.0
80°-90°	160.1	3.0
90°-100°	32.9	0.6
100°-110°	15.1	0.3
110°-120°	7.6	0.1
120°-130°	5.5	0.1
130°-140°	3.4	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5347.3	98.8
0°-180°	5413.4	100.0

Coefficient of Utilization



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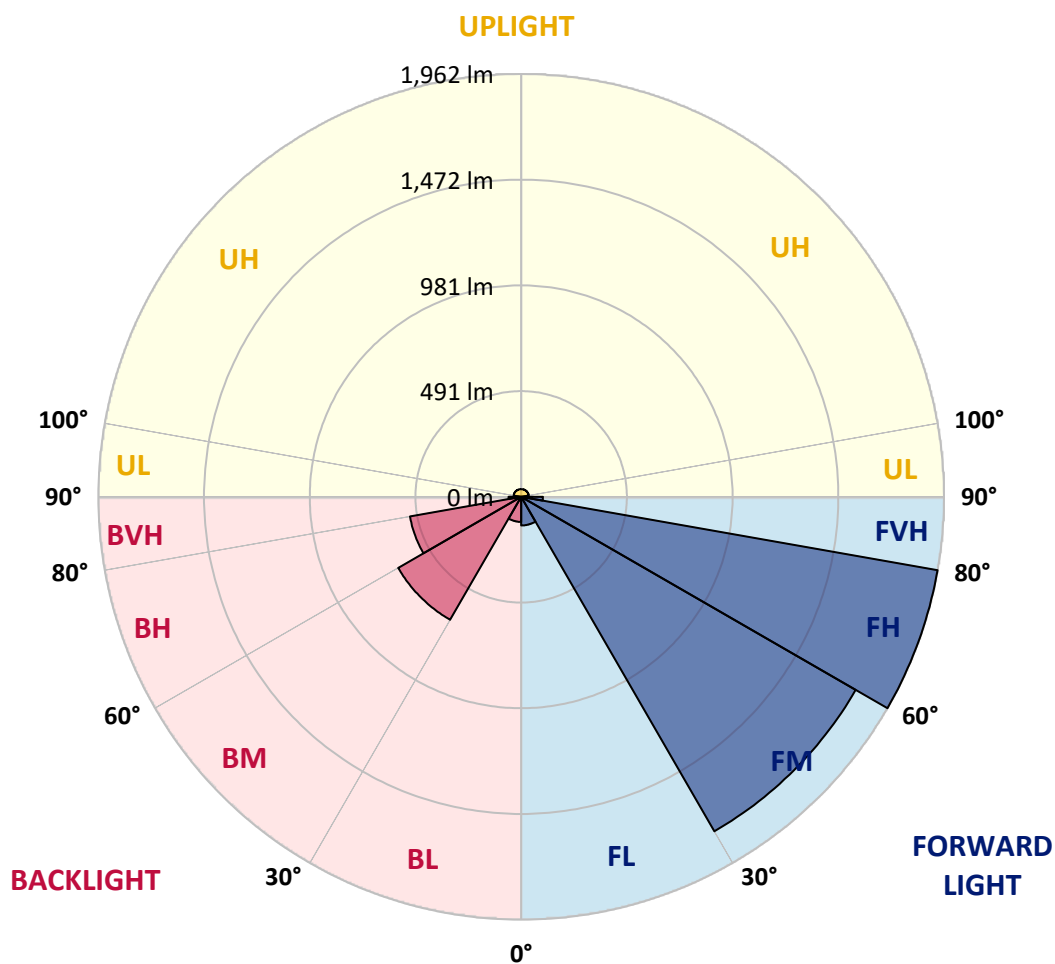
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.0	2.5			
FM	(30°-60°)	1792.4	33.1			
FH	(60°-80°)	1962.3	36.2			G2/5000
FVH	(80°-90°)	101.2	1.9			G2/225
BL	(0°-30°)	116.5	2.2	B1/500		
BM	(30°-60°)	659.0	12.2	B1/1000		
BH	(60°-80°)	524.0	9.7	B2/1000		G2/1000
BVH	(80°-90°)	58.8	1.1			G1/100
UL	(90°-100°)	32.9	0.6		U2/50	
UH	(100°-180°)	35.9	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	27.2	27.2	27.2	24.6	21.2	17.3	15.2	13.3	12.6	12.6	12.6
5°	60.4	63.0	60.4	59.7	53.7	65.7	26.5	17.9	13.3	12.0	12.0
7.5°	85.5	86.8	70.3	65.0	52.4	71.6	57.7	32.5	16.6	13.3	12.6
10°	148.5	128.0	108.7	107.4	100.9	75.6	51.8	46.4	25.9	19.9	20.6
12.5°	143.9	147.9	145.3	140.7	129.3	108.1	68.9	88.9	97.5	114.8	108.1
15°	176.5	173.8	153.9	155.2	147.2	156.5	139.9	147.9	139.3	121.4	126.6
17.5°	273.2	263.9	276.6	212.3	155.2	190.4	193.6	173.1	185.1	191.0	212.3
20°	312.4	299.1	315.1	270.0	257.4	216.3	206.2	313.7	292.5	307.1	309.7
22.5°	431.8	424.5	378.7	309.0	329.0	275.9	294.5	325.6	332.3	329.0	339.6
25°	544.5	543.9	538.6	475.6	350.9	391.3	340.2	371.4	479.6	545.8	551.8
27.5°	644.7	639.3	601.6	583.7	491.4	441.7	405.9	514.6	549.1	581.0	588.3
30°	815.1	849.7	768.0	663.9	594.9	508.7	545.8	543.2	661.2	811.2	819.1
32.5°	957.1	937.8	852.9	765.4	695.1	628.8	575.0	758.7	791.3	832.4	851.0
35°	1166.7	1173.9	1084.4	853.6	795.9	704.4	752.1	823.8	846.3	914.6	919.9
37.5°	1219.1	1276.7	1224.4	1023.4	846.3	770.1	809.2	901.3	975.6	1038.6	998.8
40°	1449.8	1420.7	1308.6	1146.7	950.4	862.2	989.6	1043.9	1055.2	1128.8	1138.1
42.5°	1676.0	1688.6	1550.0	1344.4	1085.8	1002.2	1113.6	1099.0	1206.5	1270.1	1304.6
45°	1896.2	1902.2	1792.7	1532.8	1302.6	1235.6	1181.2	1243.6	1422.6	1438.0	1446.6
47.5°	2045.5	2046.1	1999.7	1738.4	1485.6	1334.4	1317.3	1384.2	1561.9	1589.2	1597.1
50°	2278.2	2272.3	2165.5	1875.7	1727.8	1530.1	1597.1	1571.9	1725.7	1823.9	1845.2
52.5°	2369.8	2339.9	2282.9	2075.3	1945.3	1749.7	1719.2	1764.9	1940.6	2029.5	2099.8
55°	2310.1	2361.8	2351.3	2202.0	2009.6	1942.7	1863.1	2034.9	2094.5	2231.2	2355.9
57.5°	2186.0	2274.9	2316.7	2261.0	2156.2	2004.4	2147.0	2121.1	2349.9	2608.5	2692.1
60°	2101.1	2156.2	2241.1	2308.8	2232.5	2176.7	2315.3	2450.7	2538.2	2790.3	2901.7
62.5°	1948.6	2001.0	2136.9	2235.1	2192.0	2210.6	2502.4	2573.4	2831.4	3041.6	3193.6
65°	1767.6	1816.7	1975.8	2078.6	2181.4	2254.4	2621.1	2758.5	2941.5	3335.4	3356.7
67°	1634.3	1662.8	1764.3	1961.9	2168.9	2310.7	2756.4	2860.0	3024.4	3462.8	3362.6
67.5°	1589.8	1617.7	1700.6	1905.6	2161.5	2319.3	2794.9	2889.7	3036.3	3449.5	3361.3
70°	1223.7	1322.5	1324.5	1520.2	1930.0	2255.7	2863.2	2992.5	3108.6	3354.1	3245.3
72.5°	732.8	732.8	766.7	959.0	1368.3	2017.6	2863.2	2956.7	3056.9	3090.0	2907.0
75°	354.9	338.3	384.0	460.3	689.2	1360.9	2580.7	2710.0	2722.6	2632.5	2357.8
77.5°	292.5	254.0	241.4	236.1	369.4	509.3	1724.5	2115.8	2116.4	1806.0	1580.6
80°	183.0	185.1	190.4	163.8	211.5	263.3	687.8	1288.7	1171.3	938.5	790.6
82.5°	129.3	134.0	136.0	121.4	147.9	123.4	228.8	543.9	473.5	326.9	277.2
85°	90.8	88.2	98.8	82.2	88.9	72.9	126.0	234.2	266.6	161.8	153.2
87.5°	54.4	54.4	66.3	55.8	61.0	52.4	76.3	114.8	132.7	91.6	85.5
90°	32.5	29.9	31.2	31.8	34.5	29.9	41.1	55.0	57.7	46.4	42.5
92.5°	24.6	24.6	26.5	25.2	31.2	27.2	35.8	43.1	52.4	39.8	37.1
95°	16.0	17.9	19.9	20.6	23.8	20.6	29.9	35.2	39.2	30.5	29.2
97.5°	14.6	16.0	17.3	17.3	19.9	16.6	24.6	31.2	31.2	23.8	21.9
100°	13.9	14.6	15.2	15.2	16.6	13.3	19.2	27.2	27.2	19.9	18.6
102.5°	12.6	13.3	12.6	12.0	13.9	10.6	16.0	23.8	19.2	15.2	16.0
105°	12.6	12.6	11.3	9.9	11.3	8.6	13.9	17.3	13.3	12.6	13.3
107.5°	12.0	12.0	9.3	8.6	9.3	7.3	11.3	12.0	10.6	12.0	12.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	11.3	10.6	8.6	7.3	7.3	6.6	8.6	8.6	8.6	11.3	12.6
112.5°	9.9	9.3	7.3	5.9	5.9	5.3	5.9	6.6	8.0	10.6	12.0
115°	9.3	8.6	6.6	5.3	4.6	4.6	5.3	5.3	7.3	10.6	12.0
117.5°	9.3	8.6	5.9	5.3	4.0	4.0	4.6	5.3	7.3	10.6	12.0
120°	8.6	8.6	5.9	4.6	4.0	3.3	4.0	4.6	7.3	11.3	12.0
122.5°	8.6	8.0	5.9	4.6	3.3	3.3	3.3	4.0	6.6	10.6	11.3
125°	8.0	8.0	5.3	4.0	3.3	2.7	3.3	4.0	7.3	10.6	11.3
127.5°	8.0	7.3	5.3	4.0	2.7	2.7	3.3	3.3	6.6	9.9	10.6
130°	8.0	7.3	5.3	3.3	2.7	2.7	2.7	3.3	6.6	9.3	9.9
132.5°	6.6	6.6	4.6	3.3	2.7	1.9	2.7	2.7	5.3	8.0	8.6
135°	6.6	5.9	4.6	3.3	2.7	1.9	1.9	2.7	5.3	7.3	7.3
137.5°	5.9	5.3	4.6	3.3	1.9	1.9	1.3	1.9	4.6	5.9	6.6
140°	5.3	5.3	4.0	3.3	1.9	1.3	1.3	1.9	3.3	4.6	5.3
142.5°	5.3	5.3	4.6	3.3	1.9	1.3	1.3	1.3	2.7	4.0	4.0
145°	4.6	4.6	4.0	2.7	1.3	0.6	0.6	1.3	1.9	2.7	3.3
147.5°	4.6	4.6	4.0	2.7	1.3	0.6	0.6	1.3	1.9	2.7	2.7
150°	4.0	4.0	3.3	1.9	0.6	0.0	0.0	0.6	1.3	1.9	1.9
152.5°	2.7	2.7	1.9	1.3	0.0	0.0	0.0	0.6	1.3	1.3	1.3
155°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.0	12.0	12.0	12.0	12.0
5°	11.3	11.3	12.0	12.0	12.0	12.0	12.0	12.6	13.3	13.3	13.9
7.5°	12.6	12.6	12.0	12.0	12.6	13.9	22.5	47.8	90.2	83.6	82.9
10°	19.9	19.9	17.9	16.6	17.9	65.0	102.1	96.9	81.5	79.6	76.9
12.5°	126.0	117.4	94.8	59.7	86.8	82.2	95.5	112.1	145.9	153.2	147.9
15°	126.6	132.0	142.6	154.6	195.7	86.8	168.5	206.2	220.2	220.2	224.8
17.5°	220.2	237.4	182.4	164.5	195.0	238.8	188.3	209.6	207.6	208.3	202.3
20°	358.1	323.7	356.8	320.4	218.9	267.3	234.8	224.8	303.1	360.8	360.8
22.5°	354.9	376.0	371.4	368.1	385.3	237.4	299.8	325.6	337.6	322.3	345.6
25°	592.3	569.7	538.6	367.4	369.4	330.3	323.7	303.8	330.3	356.2	350.9
27.5°	619.5	624.8	565.8	547.2	387.3	371.4	305.0	353.5	385.3	387.3	384.0
30°	845.7	856.2	667.9	504.1	435.1	338.9	356.8	340.9	356.2	374.1	384.0
32.5°	894.7	878.8	737.5	567.7	426.5	358.9	328.3	340.9	398.6	398.6	395.3
35°	953.1	941.1	760.1	539.2	464.9	335.6	303.8	339.6	356.2	385.3	387.3
37.5°	1070.5	1063.9	834.3	537.9	413.9	317.0	334.3	342.9	348.2	354.9	348.8
40°	1148.1	1097.0	856.9	561.8	400.6	367.4	348.2	323.0	327.7	311.1	303.8
42.5°	1294.0	1208.4	878.8	545.8	390.7	405.3	323.7	319.1	307.7	290.5	290.5
45°	1442.6	1333.1	908.0	513.3	376.8	393.3	333.6	326.3	316.4	313.7	307.7
47.5°	1593.8	1446.6	903.4	533.9	422.5	368.1	417.9	350.9	301.8	327.7	325.6
50°	1842.5	1630.9	907.4	493.5	421.1	361.5	418.5	332.3	323.0	342.9	344.9
52.5°	2045.5	1756.3	962.4	470.3	407.9	418.5	396.0	402.6	380.7	374.7	382.1
55°	2288.2	1916.8	926.6	442.4	397.3	394.7	466.3	405.3	385.3	404.6	406.5
57.5°	2592.7	2140.3	934.5	397.3	400.6	380.0	456.3	453.7	441.7	432.4	429.1
60°	2769.0	2211.9	860.2	423.8	388.0	419.2	484.2	470.3	407.2	472.9	483.5
62.5°	2907.6	2323.3	677.8	419.2	431.1	400.0	444.4	459.0	429.1	478.8	484.9
65°	2941.5	2317.4	519.4	430.5	426.5	444.4	526.0	451.0	374.7	382.1	385.3
67°	2895.1	2265.0	421.1	409.9	432.4	427.8	435.1	387.3	346.2	353.5	358.9
67.5°	2868.6	2222.6	399.3	408.6	447.0	427.1	426.5	372.8	338.3	347.5	349.5
70°	2621.8	1991.1	334.3	403.2	443.0	388.0	398.6	328.3	298.5	301.8	303.1
72.5°	2245.1	1597.7	319.1	401.3	435.1	323.7	306.4	268.6	254.0	249.4	242.7
75°	1723.2	1101.0	315.1	362.1	357.5	244.7	245.4	223.5	224.8	214.9	210.9
77.5°	1038.0	616.8	267.9	306.4	267.9	187.0	203.0	198.4	203.6	193.0	186.4
80°	497.5	301.2	211.5	225.5	189.0	146.6	173.1	180.4	181.8	166.4	159.2
82.5°	212.9	155.9	143.2	141.3	134.6	113.4	139.9	147.2	148.5	139.3	111.4
85°	125.3	106.1	98.8	94.8	93.5	70.3	100.1	118.8	118.8	98.2	84.9
87.5°	78.3	77.6	69.7	69.7	72.9	49.7	68.9	81.5	76.9	58.4	46.4
90°	37.1	39.8	41.7	42.5	49.7	27.8	44.4	47.1	44.4	31.8	22.5
92.5°	29.9	33.9	36.5	37.8	45.1	23.8	39.8	42.5	40.5	31.8	22.5
95°	24.6	30.5	36.5	35.8	37.8	18.6	35.2	38.5	37.1	27.8	19.2
97.5°	19.9	24.6	29.9	29.9	34.5	16.0	32.5	36.5	35.8	25.2	18.6
100°	17.9	21.9	26.5	25.9	30.5	12.6	29.2	31.8	31.2	20.6	16.6
102.5°	16.0	17.9	20.6	20.6	22.5	10.6	21.9	24.6	23.2	17.3	16.6
105°	14.6	15.2	14.6	13.9	14.6	9.3	13.9	16.0	13.9	13.3	13.3
107.5°	13.9	13.9	12.0	11.3	10.6	8.0	9.9	10.6	9.3	12.0	13.3



REPORT NUMBER: P240967

CATALOG NUMBER: UTLD-AF24-50-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.9	13.3	10.6	9.9	8.6	7.3	8.0	8.0	8.0	12.0	12.6
112.5°	13.3	13.3	9.9	8.6	8.0	6.6	6.6	5.9	7.3	12.0	13.3
115°	13.3	12.6	9.3	8.0	6.6	5.9	5.3	5.3	6.6	12.0	13.3
117.5°	13.3	12.6	9.3	7.3	6.6	5.3	4.6	4.6	6.6	12.0	13.3
120°	13.3	13.3	9.3	6.6	5.9	5.3	4.6	4.6	6.6	11.3	12.6
122.5°	12.6	12.6	8.6	6.6	5.3	4.6	4.0	4.0	6.6	11.3	12.0
125°	12.0	12.0	8.6	5.9	4.6	4.0	4.0	4.0	6.6	10.6	12.0
127.5°	11.3	11.3	8.0	5.3	4.0	4.0	3.3	3.3	6.6	10.6	11.3
130°	10.6	10.6	7.3	4.6	4.0	3.3	2.7	3.3	6.6	9.9	10.6
132.5°	9.3	9.3	6.6	4.0	3.3	2.7	2.7	2.7	5.9	9.3	9.9
135°	8.0	8.0	5.9	4.0	3.3	2.7	1.9	2.7	5.3	8.0	8.6
137.5°	7.3	7.3	5.3	3.3	2.7	1.9	1.9	2.7	5.3	7.3	8.0
140°	5.3	5.3	4.0	2.7	1.9	1.9	1.3	1.9	4.6	5.9	6.6
142.5°	4.0	4.0	3.3	2.7	1.9	1.3	1.3	1.9	4.0	5.3	5.3
145°	3.3	3.3	2.7	1.9	1.9	1.3	0.6	1.3	3.3	4.6	4.6
147.5°	2.7	2.7	2.7	1.9	1.3	0.6	0.6	0.6	1.9	3.3	3.3
150°	1.9	1.9	1.9	1.9	1.3	0.0	0.0	0.0	1.3	1.9	1.9
152.5°	1.3	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.6	0.6
155°	0.6	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	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)