

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: P239392

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - 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



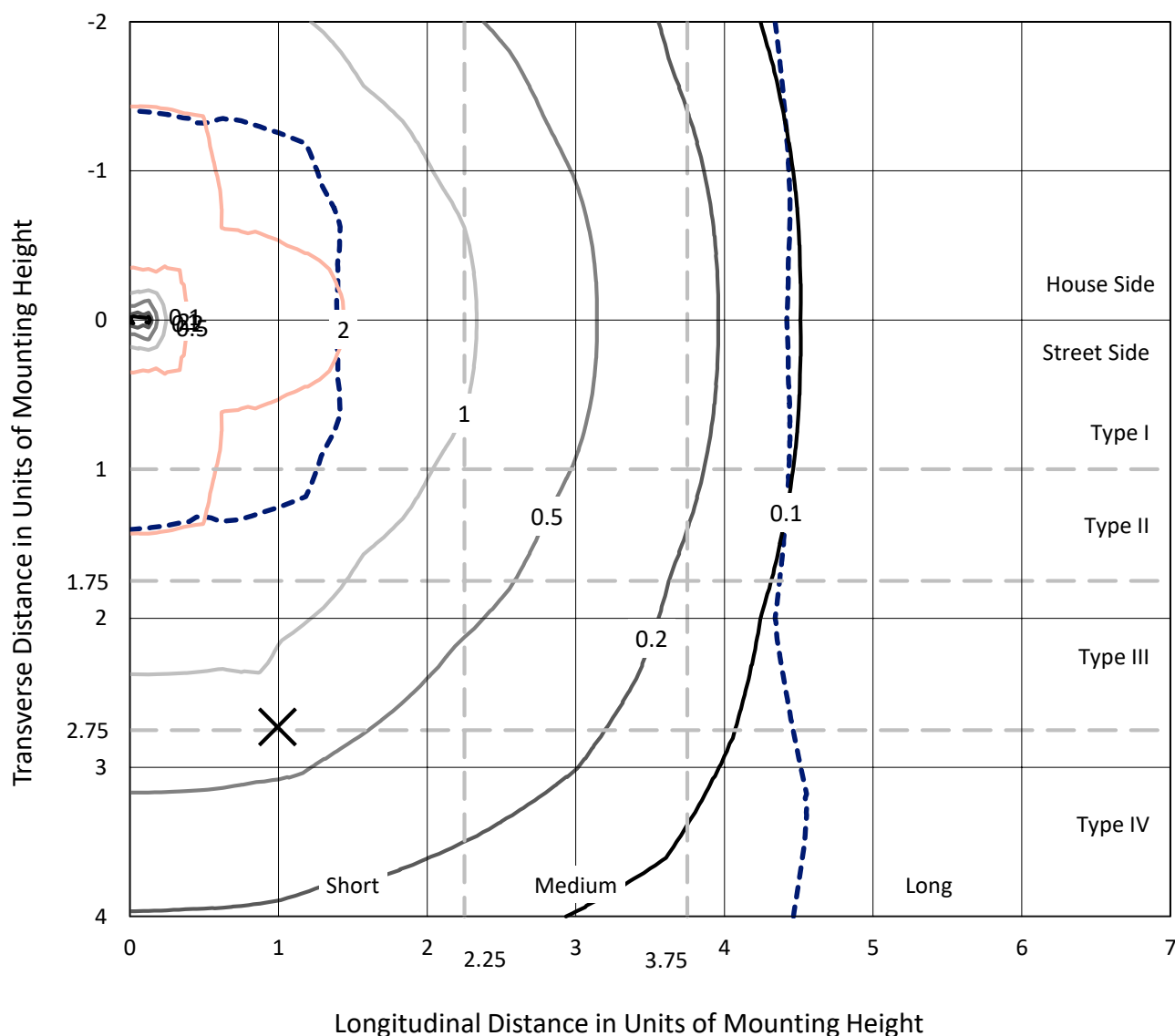
REPORT NUMBER: P239392

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

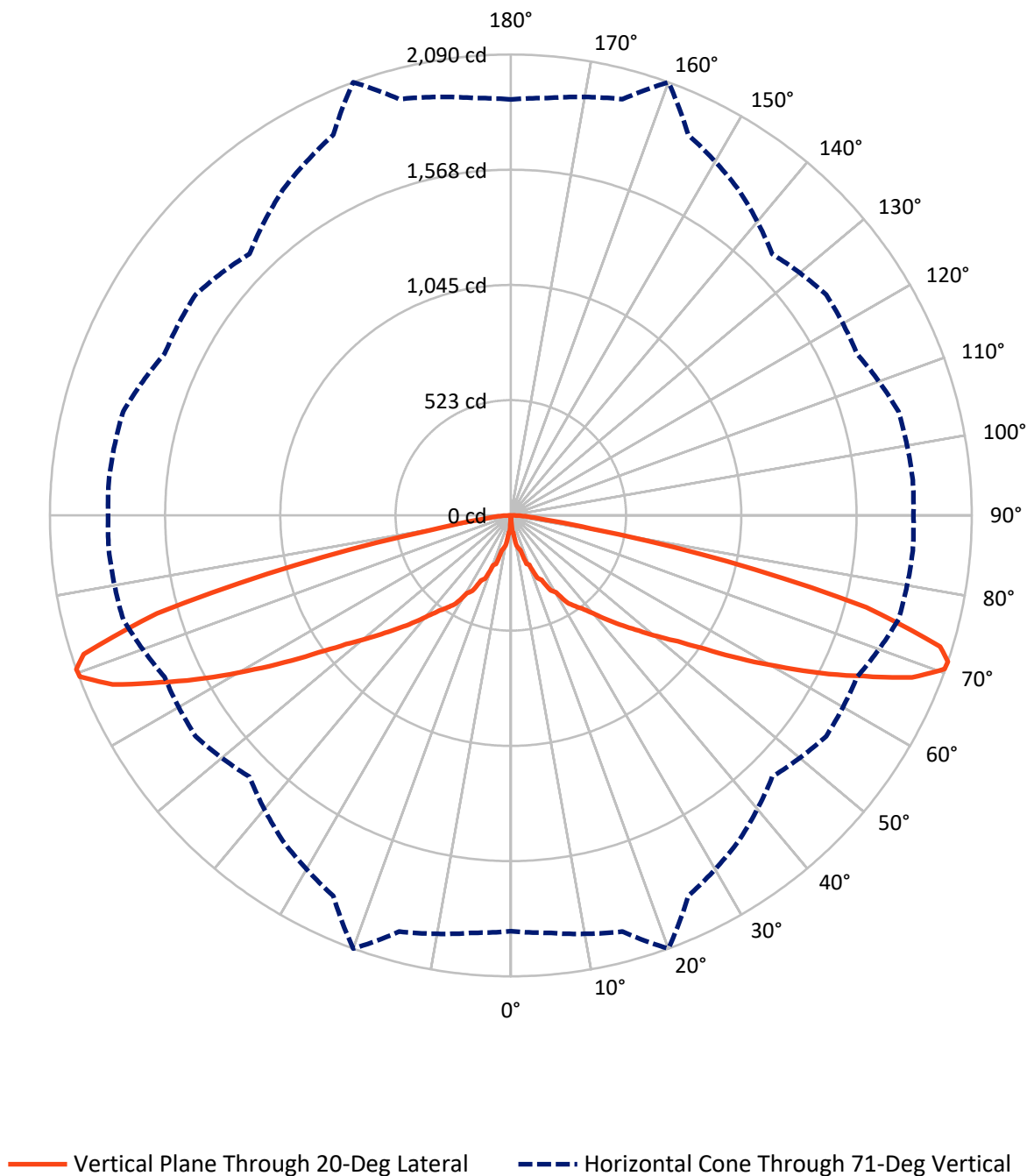


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P239392

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P239392

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

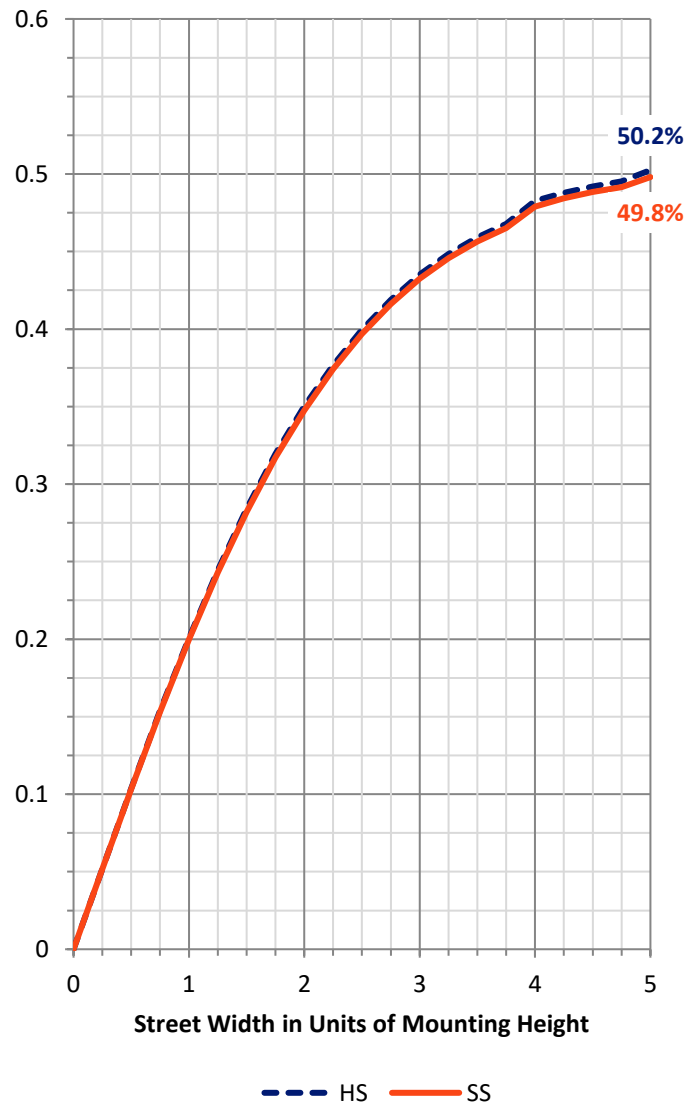
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.5	0.0	2591.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2591.5	0.0	2591.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5183.0	0.0	5183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	42.8	0.8
20°-30°	145.0	2.8
30°-40°	295.5	5.7
40°-50°	506.0	9.8
50°-60°	891.5	17.2
60°-70°	1518.3	29.3
70°-80°	1570.5	30.3
80°-90°	209.8	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5183.0	100.0
0°-180°	5183.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239392

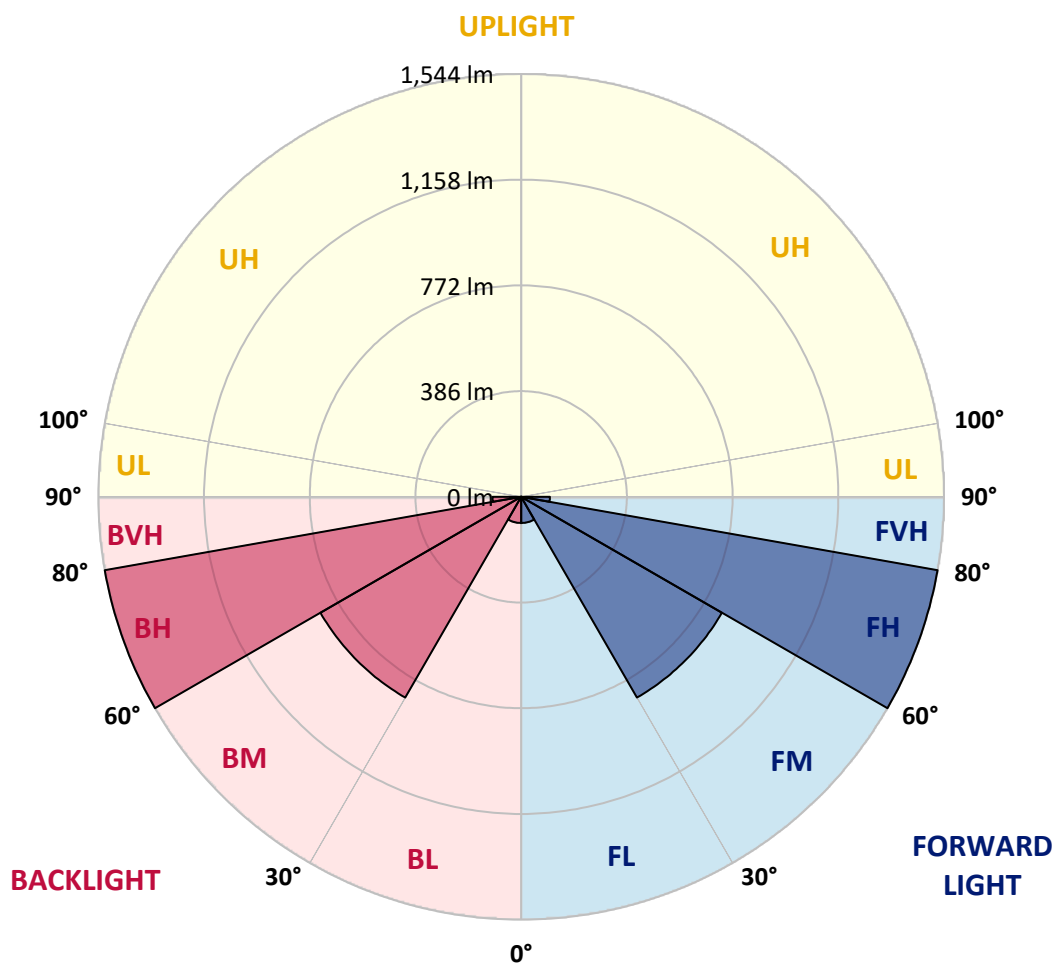
CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.6	1.8			
FM	(30°-60°)	846.5	16.3			
FH	(60°-80°)	1544.4	29.8			G1/1800
FVH	(80°-90°)	104.9	2.0			G2/225
BL	(0°-30°)	95.6	1.8	B0/110		
BM	(30°-60°)	846.5	16.3	B1/1000		
BH	(60°-80°)	1544.4	29.8	B3/2500		G1/1800
BVH	(80°-90°)	104.9	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P239392

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	11.5	10.9	10.4	19.0	9.8	8.1	4.0	2.3	1.7	1.7	1.7
5°	40.8	40.8	40.8	78.2	40.3	39.1	33.9	29.9	8.1	2.3	1.7
7.5°	71.3	71.3	55.2	79.4	48.3	41.4	39.7	38.5	31.1	6.3	2.9
10°	113.9	113.3	109.8	136.3	105.2	78.8	47.7	40.3	35.7	19.6	12.1
12.5°	122.5	121.3	118.5	151.2	114.4	111.6	86.3	59.2	79.4	118.5	100.6
15°	184.0	185.2	162.7	164.5	144.3	117.9	129.4	153.0	127.1	136.3	116.2
17.5°	202.4	201.3	197.2	230.6	189.2	158.1	176.0	179.4	153.0	178.8	182.3
20°	251.3	247.8	232.3	239.2	201.8	220.8	206.4	209.9	235.8	231.2	235.2
22.5°	291.5	291.0	283.5	308.2	252.4	248.4	236.3	255.9	260.5	252.4	290.4
25°	331.2	327.8	295.6	324.3	286.9	285.8	282.3	280.0	309.4	336.4	354.8
27.5°	376.6	374.9	363.4	384.1	334.1	304.8	306.5	326.0	343.9	353.1	413.4
30°	420.3	419.8	381.2	405.4	370.9	348.5	337.5	355.9	389.3	445.6	482.4
32.5°	481.3	479.0	452.0	472.7	403.7	381.8	373.8	387.0	434.7	462.3	501.4
35°	547.4	545.1	489.3	506.0	442.2	411.7	396.8	427.2	446.2	487.6	531.9
37.5°	581.9	577.9	549.1	541.1	499.7	449.7	429.0	447.9	473.2	519.8	564.7
40°	622.7	621.0	597.4	589.4	534.8	485.3	454.3	475.5	511.2	557.8	608.9
42.5°	671.6	670.5	649.2	649.8	580.8	530.2	485.3	515.8	553.2	614.7	671.6
45°	730.8	726.8	712.4	713.0	639.4	579.6	529.6	569.3	597.4	669.9	735.4
47.5°	797.5	797.0	780.9	780.9	698.6	637.7	582.5	636.5	667.6	753.3	803.9
50°	874.0	872.9	861.4	861.4	776.3	700.9	646.3	711.3	745.2	828.0	883.8
52.5°	958.0	957.4	954.5	948.2	862.5	789.5	726.8	801.0	830.3	922.9	971.2
55°	1058.0	1065.5	1063.2	1067.8	975.8	899.3	824.6	904.5	936.1	1029.3	1066.1
57.5°	1185.1	1182.8	1194.3	1223.6	1108.6	1039.6	947.6	1038.5	1050.0	1138.0	1172.5
60°	1301.3	1304.1	1326.6	1388.7	1246.6	1199.5	1094.3	1181.1	1181.7	1257.0	1282.9
62.5°	1425.5	1430.6	1469.2	1574.4	1392.1	1361.1	1254.7	1321.4	1315.6	1381.2	1407.1
65°	1565.2	1572.1	1624.4	1757.8	1554.3	1515.7	1405.3	1458.8	1457.1	1544.5	1542.2
67.5°	1734.8	1743.4	1790.6	1962.0	1746.9	1660.1	1532.4	1597.4	1591.6	1678.5	1672.1
70°	1870.5	1879.7	1930.9	2087.3	1876.3	1771.6	1639.9	1710.1	1714.7	1796.3	1805.5
71°	1886.0	1899.8	1953.9	2090.2	1903.9	1802.1	1676.2	1745.7	1732.5	1819.9	1829.7
72.5°	1840.0	1853.3	1924.0	2036.1	1915.4	1816.5	1729.1	1771.0	1719.3	1801.5	1801.5
75°	1561.7	1561.7	1661.2	1665.2	1748.0	1750.9	1764.7	1727.9	1565.8	1571.5	1545.6
77.5°	974.7	985.0	1089.1	1004.0	1272.5	1485.3	1630.7	1472.6	1199.5	1088.5	1004.0
80°	370.3	365.7	486.5	371.5	676.2	1002.8	1227.7	1006.9	636.0	419.2	314.5
82.5°	85.1	108.7	150.7	146.1	225.4	442.8	682.0	447.4	204.1	158.7	122.5
85°	42.0	44.3	75.3	79.9	89.7	121.3	226.0	139.2	104.7	104.1	76.5
87.5°	17.3	20.1	42.0	40.8	40.3	50.6	46.0	65.0	66.7	70.7	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P239392

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7030

CANDELA DISTRIBUTION (continued):

	90°
0°	1.7
2.5°	1.7
5°	1.7
7.5°	2.9
10°	12.1
12.5°	96.0
15°	121.3
17.5°	181.7
20°	236.3
22.5°	296.7
25°	353.1
27.5°	421.5
30°	486.5
32.5°	519.8
35°	545.7
37.5°	577.9
40°	619.3
42.5°	675.6
45°	738.3
47.5°	807.9
50°	888.4
52.5°	973.5
55°	1065.5
57.5°	1175.3
60°	1278.3
62.5°	1406.5
65°	1538.7
67.5°	1670.4
70°	1797.5
71°	1826.2
72.5°	1790.6
75°	1539.9
77.5°	986.2
80°	299.0
82.5°	114.4
85°	73.0
87.5°	42.0
90°	0.0

(END OF REPORT)