

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: P266357

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
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-5WQ-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 5087 lumens
Efficiency: N/A
Efficacy: 94.2 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

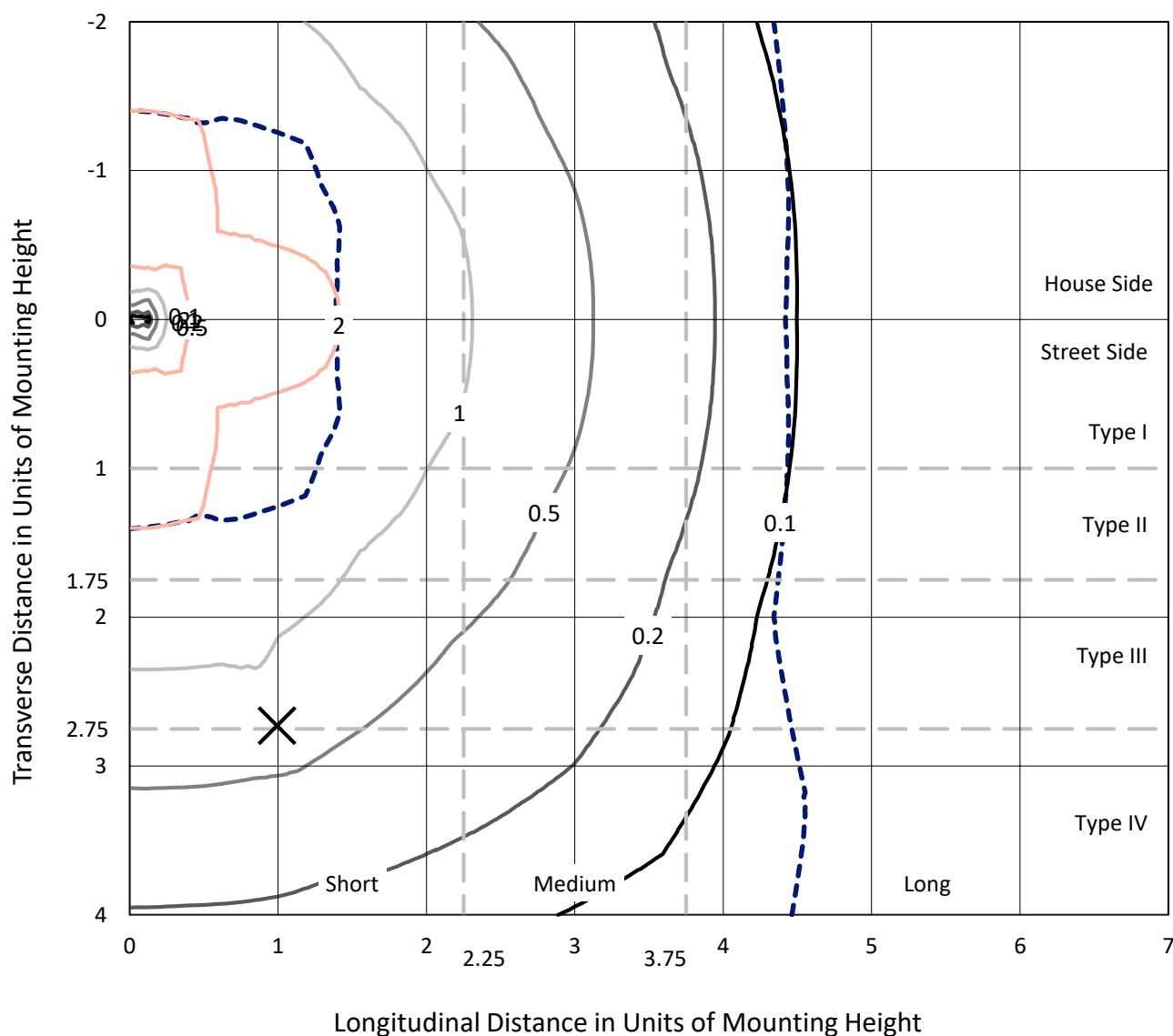


REPORT NUMBER: P266357

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

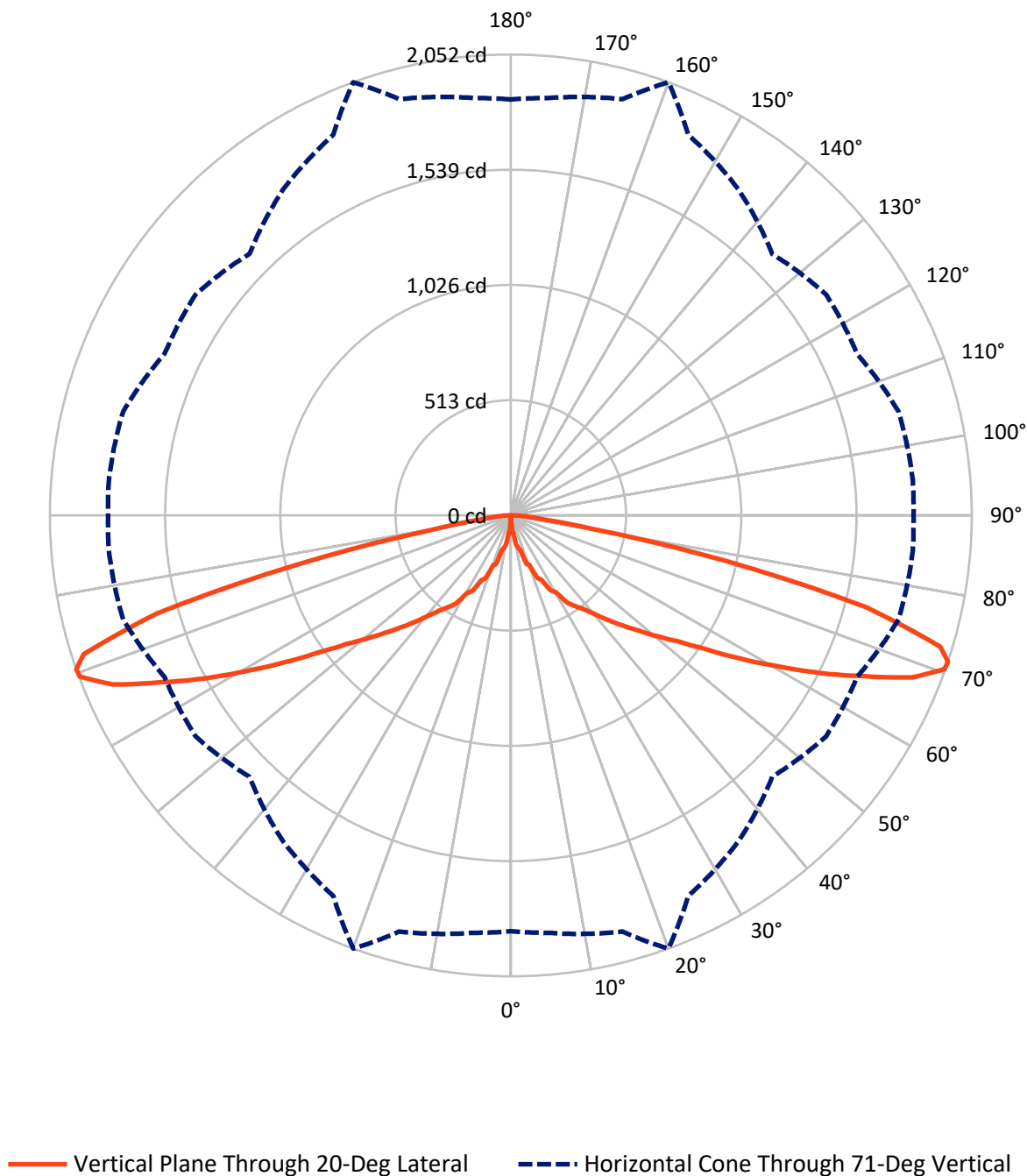


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266357

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266357

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

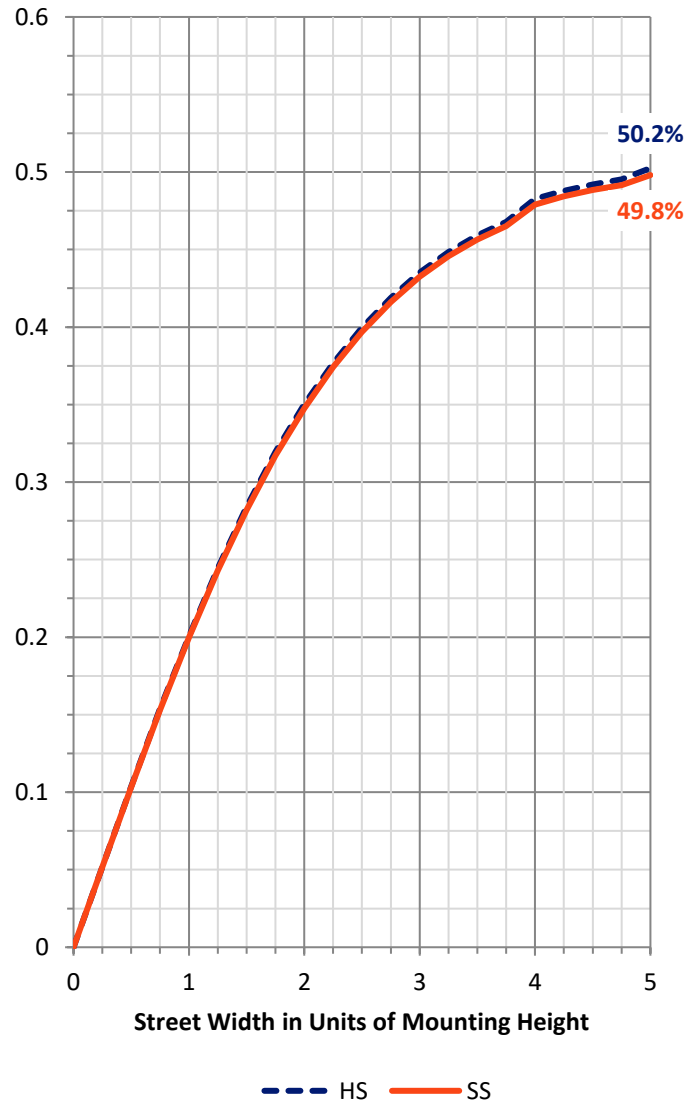
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2543.5	0.0	2543.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2543.5	0.0	2543.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5087.0	0.0	5087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	42.0	0.8
20°-30°	142.3	2.8
30°-40°	290.0	5.7
40°-50°	496.7	9.8
50°-60°	875.0	17.2
60°-70°	1490.2	29.3
70°-80°	1541.4	30.3
80°-90°	205.9	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°	5087.0	100.0
0°-180°	5087.0	100.0

Coefficient of Utilization



REPORT NUMBER: P266357

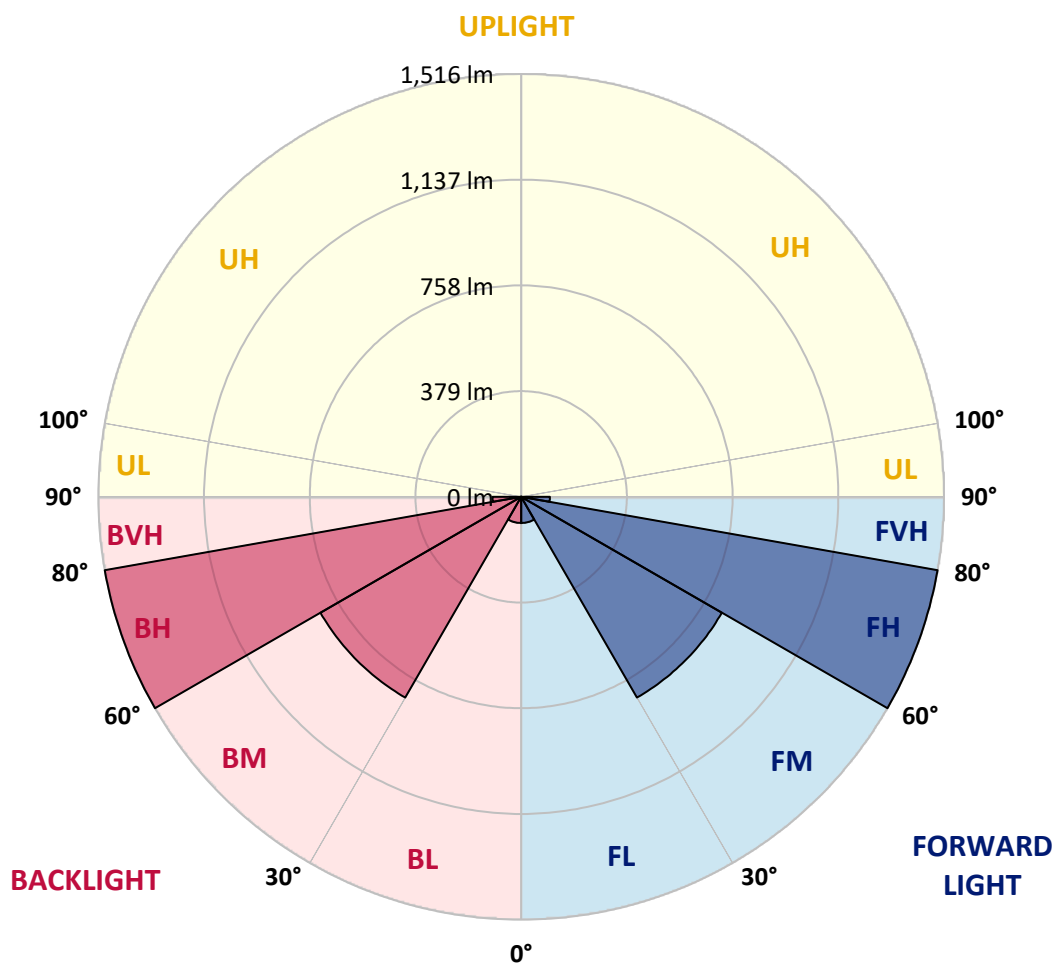
CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.9	1.8			
FM	(30°-60°)	830.9	16.3			
FH	(60°-80°)	1515.8	29.8			G1/1800
FVH	(80°-90°)	103.0	2.0			G2/225
BL	(0°-30°)	93.9	1.8	B0/110		
BM	(30°-60°)	830.9	16.3	B1/1000		
BH	(60°-80°)	1515.8	29.8	B3/2500		G1/1800
BVH	(80°-90°)	103.0	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: P266357

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	11.3	10.7	10.2	18.7	9.6	7.9	4.0	2.2	1.6	1.6	1.6
5°	40.1	40.1	40.1	76.7	39.5	38.4	33.2	29.4	7.9	2.2	1.6
7.5°	70.0	70.0	54.2	78.0	47.4	40.7	38.9	37.8	30.5	6.2	2.9
10°	111.7	111.2	107.7	133.8	103.2	77.3	46.8	39.5	35.0	19.3	11.9
12.5°	120.3	119.0	116.3	148.4	112.3	109.6	84.7	58.1	78.0	116.3	98.8
15°	180.6	181.7	159.7	161.4	141.7	115.7	127.0	150.1	124.8	133.8	114.1
17.5°	198.6	197.5	193.6	226.4	185.7	155.1	172.7	176.1	150.1	175.4	178.9
20°	246.7	243.3	228.0	234.7	198.0	216.8	202.6	206.0	231.5	226.9	230.9
22.5°	286.1	285.7	278.3	302.5	247.8	243.8	231.9	251.2	255.7	247.8	285.0
25°	325.0	321.8	290.2	318.3	281.6	280.5	277.0	274.8	303.6	330.1	348.3
27.5°	369.7	367.9	356.6	377.0	327.9	299.1	300.8	319.9	337.6	346.6	405.8
30°	412.5	412.1	374.1	397.9	364.1	342.1	331.3	349.4	382.0	437.4	473.4
32.5°	472.4	470.2	443.7	464.0	396.2	374.8	366.9	379.9	426.6	453.7	492.1
35°	537.2	535.0	480.2	496.7	434.1	404.1	389.4	419.2	438.0	478.5	522.0
37.5°	571.1	567.2	539.0	531.1	490.5	441.3	421.0	439.6	464.5	510.1	554.3
40°	611.1	609.5	586.4	578.5	524.9	476.3	445.9	466.7	501.8	547.4	597.6
42.5°	659.1	658.1	637.2	637.7	570.1	520.4	476.3	506.3	542.9	603.3	659.1
45°	717.2	713.3	699.2	699.8	627.6	568.8	519.8	558.7	586.4	657.5	721.8
47.5°	782.8	782.2	766.4	766.4	685.6	625.8	571.7	624.7	655.3	739.3	789.0
50°	857.8	856.8	845.5	845.5	761.9	687.9	634.4	698.2	731.4	812.6	867.5
52.5°	940.3	939.6	936.8	930.6	846.6	774.9	713.3	786.1	814.9	905.9	953.2
55°	1038.4	1045.7	1043.6	1048.1	957.8	882.7	809.4	887.7	918.7	1010.2	1046.3
57.5°	1163.1	1160.9	1172.2	1200.9	1088.0	1020.4	930.0	1019.2	1030.5	1117.0	1150.8
60°	1277.2	1279.9	1302.1	1363.0	1223.5	1177.3	1074.1	1159.3	1159.8	1233.7	1259.2
62.5°	1399.1	1404.1	1442.0	1545.3	1366.3	1335.9	1231.4	1297.0	1291.3	1355.6	1381.1
65°	1536.2	1543.0	1594.3	1725.3	1525.5	1487.7	1379.3	1431.8	1430.1	1515.9	1513.6
67.5°	1702.6	1711.1	1757.4	1925.6	1714.5	1629.3	1504.0	1567.8	1562.2	1647.4	1641.2
70°	1835.9	1844.8	1895.2	2048.7	1841.5	1738.8	1609.6	1678.5	1683.0	1763.1	1772.0
71°	1851.0	1864.6	1917.7	2051.5	1868.7	1768.8	1645.2	1713.3	1700.4	1786.2	1795.8
72.5°	1806.0	1819.0	1888.3	1998.4	1880.0	1782.9	1697.1	1738.2	1687.5	1768.1	1768.1
75°	1532.8	1532.8	1630.5	1634.3	1715.7	1718.5	1732.0	1695.9	1536.8	1542.4	1517.0
77.5°	956.7	966.8	1069.0	985.4	1249.0	1457.8	1600.5	1445.4	1177.3	1068.4	985.4
80°	363.5	359.0	477.4	364.6	663.7	984.3	1204.9	988.2	624.2	411.5	308.7
82.5°	83.5	106.7	148.0	143.4	221.3	434.6	669.3	439.1	200.3	155.8	120.3
85°	41.2	43.5	73.9	78.4	88.0	119.0	221.8	136.6	102.8	102.1	75.1
87.5°	17.0	19.8	41.2	40.1	39.5	49.6	45.2	63.8	65.4	69.3	44.0
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: P266357

CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-7027

CANDELA DISTRIBUTION (continued):

	90°
0°	1.6
2.5°	1.6
5°	1.6
7.5°	2.9
10°	11.9
12.5°	94.2
15°	119.0
17.5°	178.4
20°	231.9
22.5°	291.2
25°	346.6
27.5°	413.7
30°	477.4
32.5°	510.1
35°	535.6
37.5°	567.2
40°	607.9
42.5°	663.0
45°	724.7
47.5°	792.9
50°	872.0
52.5°	955.4
55°	1045.7
57.5°	1153.6
60°	1254.7
62.5°	1380.4
65°	1510.2
67.5°	1639.4
70°	1764.2
71°	1792.4
72.5°	1757.4
75°	1511.4
77.5°	968.0
80°	293.4
82.5°	112.3
85°	71.7
87.5°	41.2
90°	0.0

(END OF REPORT)