

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: P266459

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266459
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-AF24-80-D-U-5WQ-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 7239.4 lumens
Efficiency: N/A
Efficacy: 87.2 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): 83
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

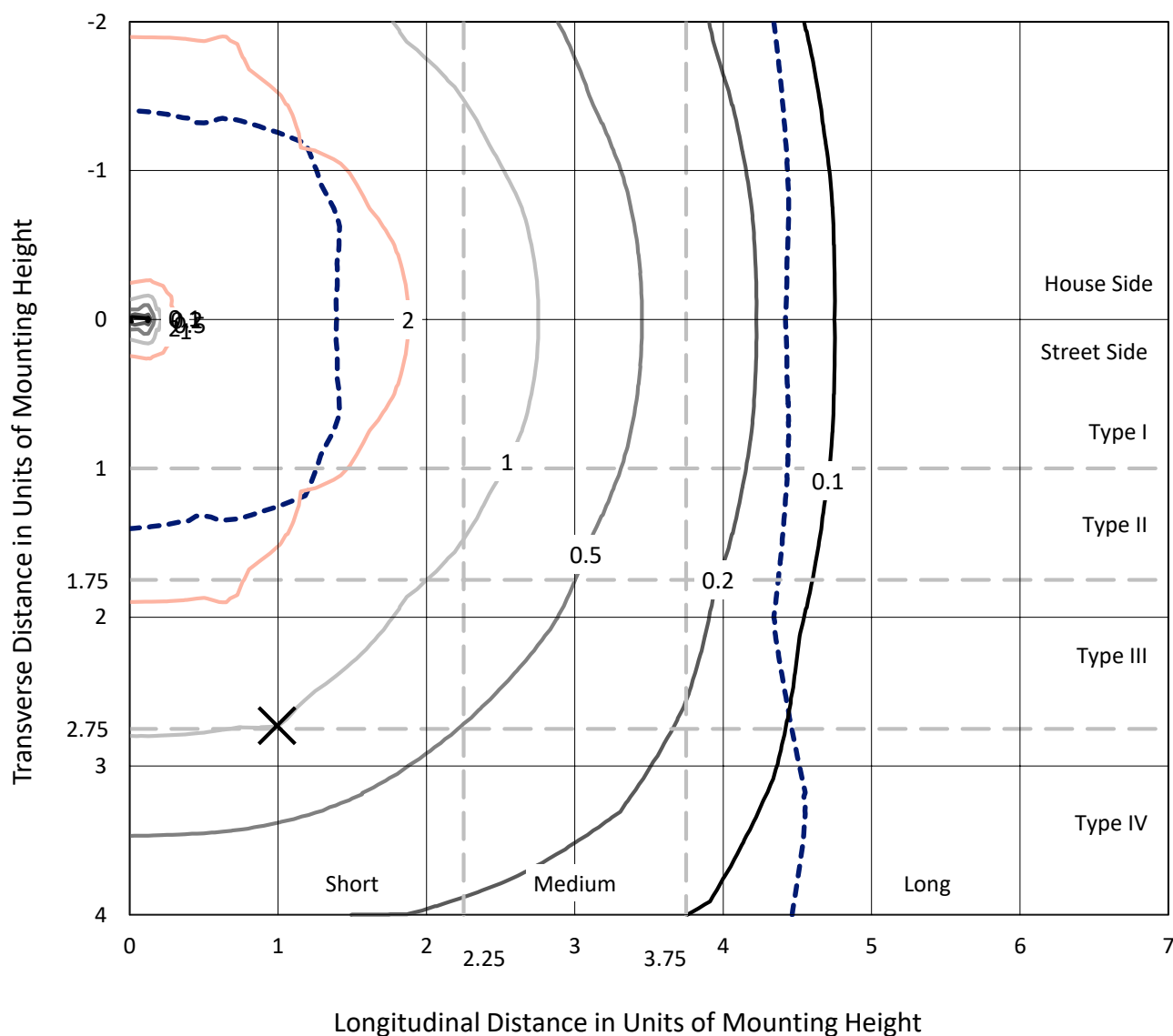


REPORT NUMBER: P266459

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

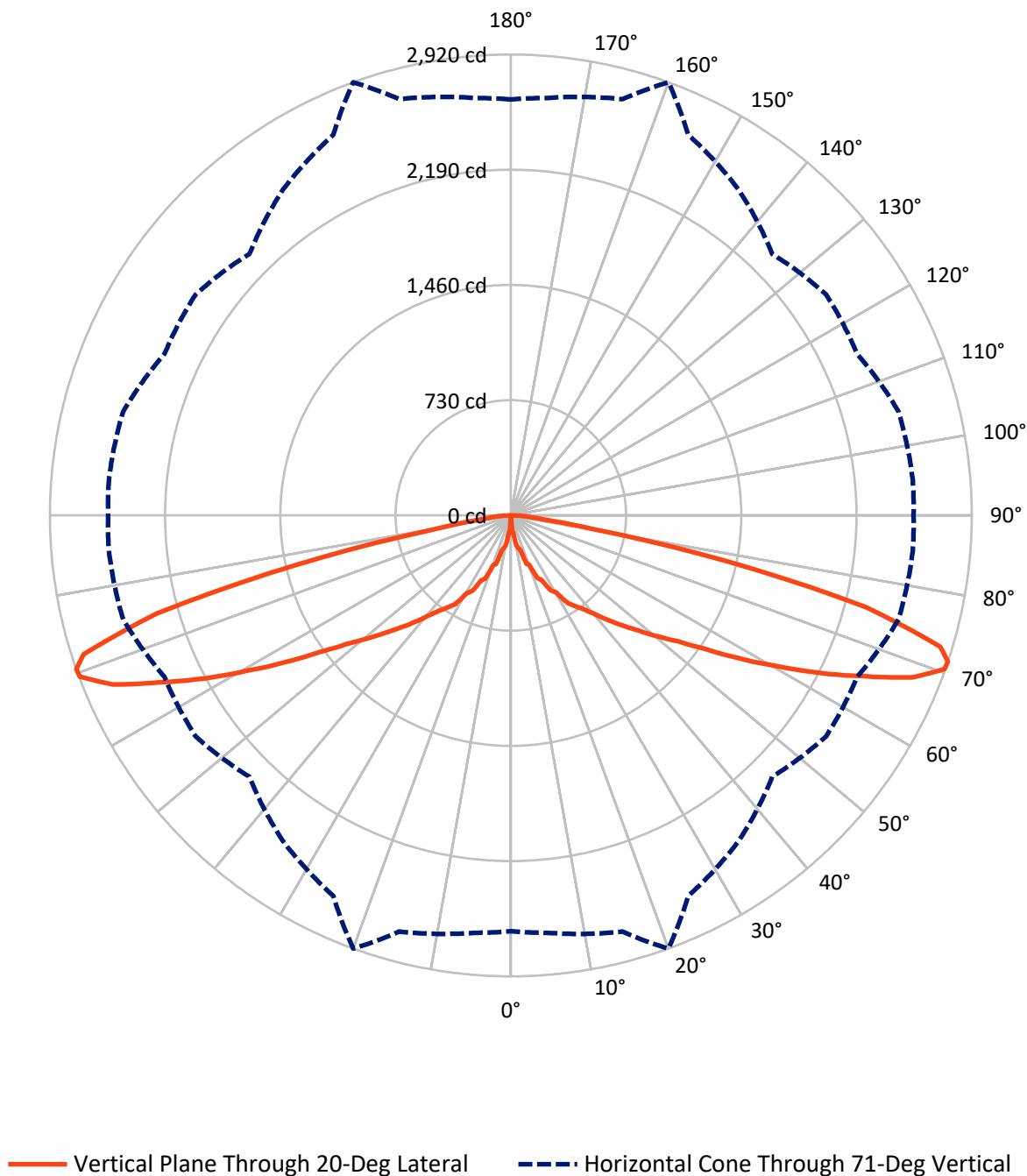


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266459

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266459

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

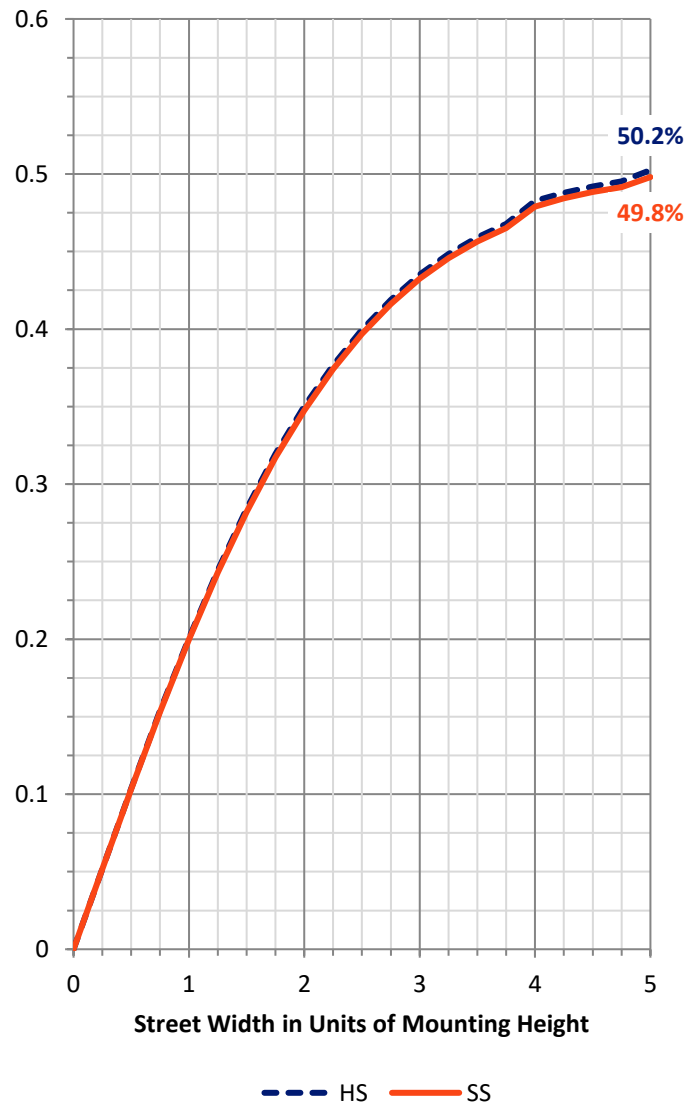
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.7	0.0	3619.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3619.7	0.0	3619.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7239.4	0.0	7239.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	59.8	0.8
20°-30°	202.5	2.8
30°-40°	412.7	5.7
40°-50°	706.8	9.8
50°-60°	1245.3	17.2
60°-70°	2120.8	29.3
70°-80°	2193.6	30.3
80°-90°	293.1	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°	7239.4	100.0
0°-180°	7239.4	100.0

Coefficient of Utilization



REPORT NUMBER: P266459

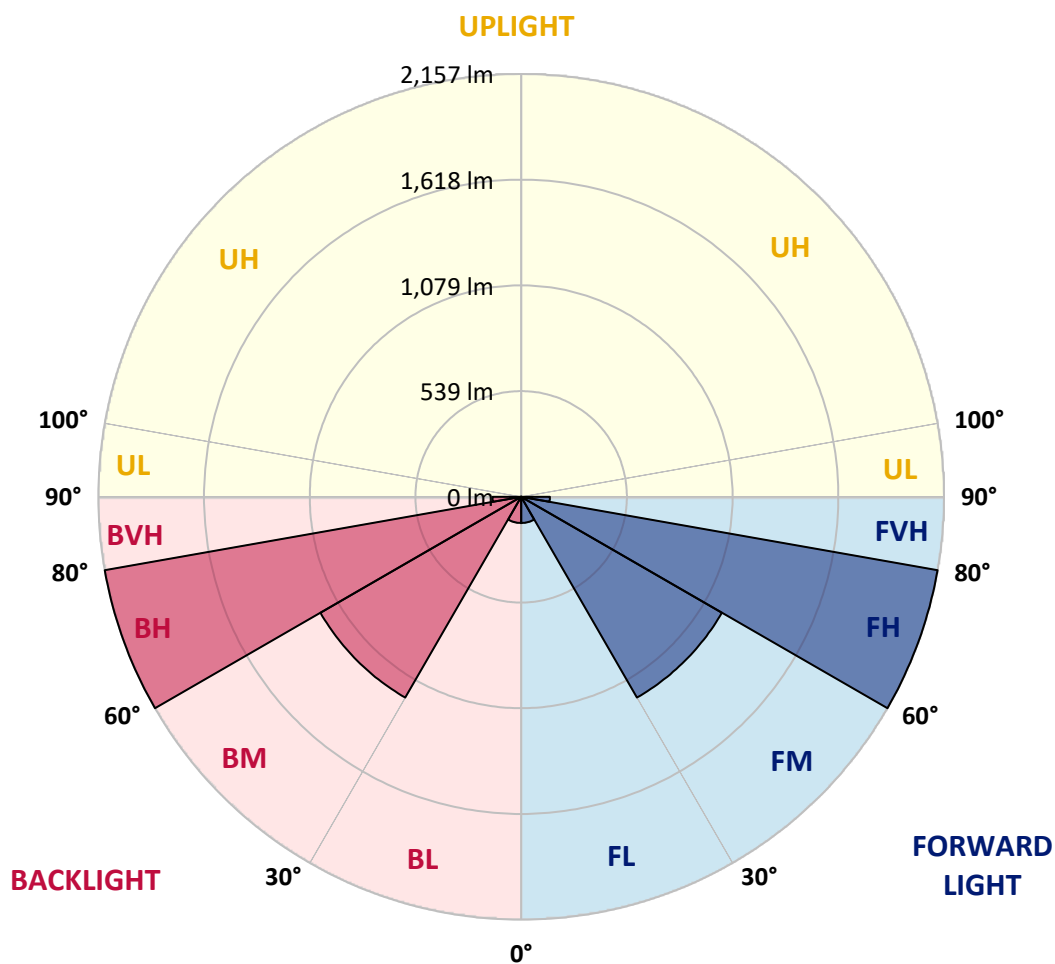
CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.6	1.8			
FM	(30°-60°)	1182.4	16.3			
FH	(60°-80°)	2157.2	29.8			G2/5000
FVH	(80°-90°)	146.5	2.0			G2/225
BL	(0°-30°)	133.6	1.8	B1/500		
BM	(30°-60°)	1182.4	16.3	B2/2500		
BH	(60°-80°)	2157.2	29.8	B3/2500		G2/5000
BVH	(80°-90°)	146.5	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: P266459

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
2.5°	16.1	15.2	14.5	26.5	13.7	11.3	5.6	3.2	2.4	2.4	2.4
5°	57.0	57.0	57.0	109.2	56.2	54.5	47.4	41.9	11.3	3.2	2.4
7.5°	99.6	99.6	77.2	110.9	67.5	57.9	55.4	53.8	43.4	8.9	4.0
10°	159.0	158.2	153.4	190.4	147.1	110.0	66.7	56.2	49.8	27.3	16.9
12.5°	171.0	169.5	165.5	211.2	159.8	155.9	120.5	82.7	110.9	165.5	140.6
15°	257.1	258.6	227.4	229.6	201.6	164.7	180.6	213.6	177.4	190.4	162.2
17.5°	282.6	281.1	275.5	322.0	264.2	220.9	245.7	250.5	213.6	249.8	254.6
20°	351.0	346.1	324.5	334.1	281.9	308.4	288.4	293.1	329.3	322.9	328.5
22.5°	407.2	406.5	396.0	430.5	352.6	346.9	330.0	357.3	363.9	352.6	405.6
25°	462.5	457.7	412.9	452.9	400.7	399.1	394.4	391.1	432.2	469.9	495.5
27.5°	526.0	523.6	507.6	536.5	466.6	425.6	428.1	455.4	480.4	493.1	577.5
30°	587.1	586.4	532.4	566.2	518.1	486.7	471.4	497.1	543.7	622.4	673.9
32.5°	672.2	669.1	631.2	660.3	563.9	533.4	522.0	540.5	607.2	645.7	700.4
35°	764.5	761.5	683.5	706.7	617.7	575.0	554.2	596.7	623.2	681.0	742.9
37.5°	812.7	807.1	767.1	755.7	698.0	628.0	599.2	625.7	661.1	726.1	788.7
40°	869.7	867.5	834.4	823.2	746.9	678.0	634.6	664.1	714.1	779.1	850.5
42.5°	938.1	936.6	906.7	907.6	811.2	740.6	678.0	720.4	772.6	858.6	938.1
45°	1020.8	1015.2	995.1	996.0	893.2	809.6	739.8	795.1	834.4	935.7	1027.2
47.5°	1114.0	1113.2	1090.7	1090.7	975.7	890.7	813.5	889.1	932.5	1052.2	1122.8
50°	1220.7	1219.2	1203.1	1203.1	1084.3	979.1	902.7	993.5	1040.9	1156.6	1234.5
52.5°	1338.0	1337.2	1333.3	1324.5	1204.7	1102.7	1015.2	1118.7	1159.7	1289.1	1356.5
55°	1477.8	1488.2	1485.1	1491.5	1363.0	1256.1	1151.7	1263.3	1307.6	1437.6	1489.1
57.5°	1655.2	1652.2	1668.2	1709.1	1548.5	1452.1	1323.7	1450.6	1466.6	1589.5	1637.6
60°	1817.5	1821.6	1852.8	1939.6	1741.3	1675.3	1528.3	1649.6	1650.5	1755.6	1791.8
62.5°	1991.1	1998.3	2052.1	2199.1	1944.4	1901.1	1752.6	1845.7	1837.7	1929.2	1965.3
65°	2186.1	2195.8	2268.8	2455.2	2170.9	2117.1	1962.9	2037.6	2035.2	2157.3	2154.0
67.5°	2423.1	2435.1	2501.1	2740.4	2439.9	2318.7	2140.4	2231.2	2223.1	2344.4	2335.7
70°	2612.7	2625.6	2697.0	2915.4	2620.7	2474.6	2290.6	2388.7	2395.1	2509.1	2521.9
71°	2634.4	2653.7	2729.1	2919.5	2659.3	2517.1	2341.3	2438.4	2419.9	2542.1	2555.7
72.5°	2570.1	2588.6	2687.4	2843.9	2675.3	2537.2	2415.2	2473.8	2401.4	2516.3	2516.3
75°	2181.4	2181.4	2320.3	2325.9	2441.7	2445.6	2464.9	2413.4	2187.1	2195.0	2158.8
77.5°	1361.3	1375.8	1521.2	1402.3	1777.3	2074.5	2277.7	2056.8	1675.3	1520.4	1402.3
80°	517.2	510.7	679.5	518.9	944.5	1400.6	1714.8	1406.3	888.3	585.4	439.4
82.5°	118.8	151.9	210.5	204.1	314.9	618.5	952.6	624.9	285.1	221.7	171.0
85°	58.6	61.9	105.2	111.6	125.4	169.5	315.7	194.4	146.2	145.3	106.8
87.5°	24.1	28.0	58.6	57.0	56.2	70.6	64.3	90.8	93.2	98.9	62.6
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: P266459

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-7027

CANDELA DISTRIBUTION (continued):

	90°
0°	2.4
2.5°	2.4
5°	2.4
7.5°	4.0
10°	16.9
12.5°	134.1
15°	169.5
17.5°	253.9
20°	330.0
22.5°	414.4
25°	493.1
27.5°	588.7
30°	679.5
32.5°	726.1
35°	762.2
37.5°	807.1
40°	865.0
42.5°	943.7
45°	1031.3
47.5°	1128.5
50°	1240.9
52.5°	1359.8
55°	1488.2
57.5°	1641.7
60°	1785.4
62.5°	1964.6
65°	2149.3
67.5°	2333.2
70°	2510.7
71°	2550.8
72.5°	2501.1
75°	2150.8
77.5°	1377.5
80°	417.6
82.5°	159.8
85°	102.0
87.5°	58.6
90°	0.0

(END OF REPORT)