

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: P266362

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

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)  
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-TL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4656.1 lumens  
Efficiency: N/A  
Efficacy: 86.2 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 - U3 - G3

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

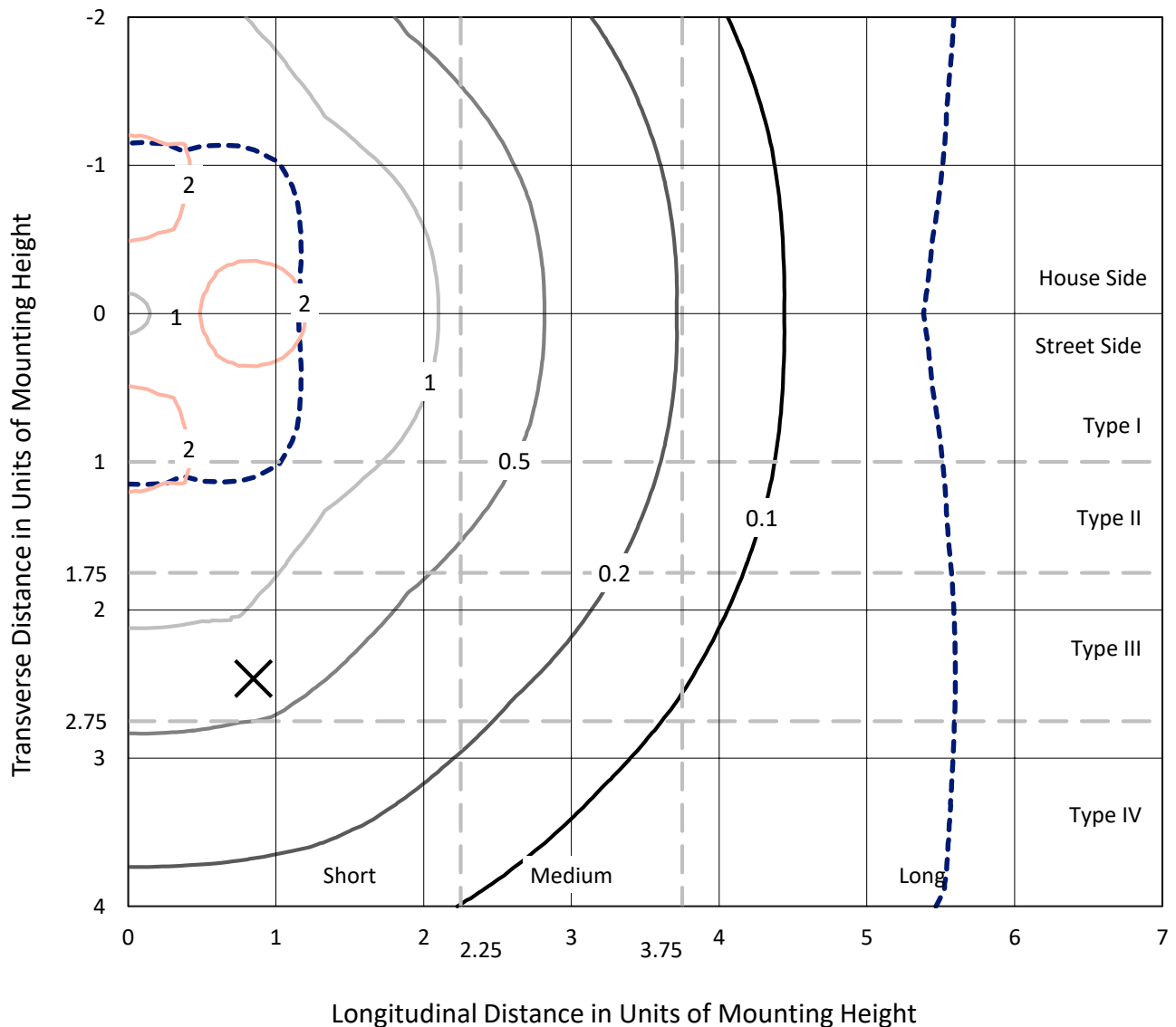


REPORT NUMBER: P266362

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

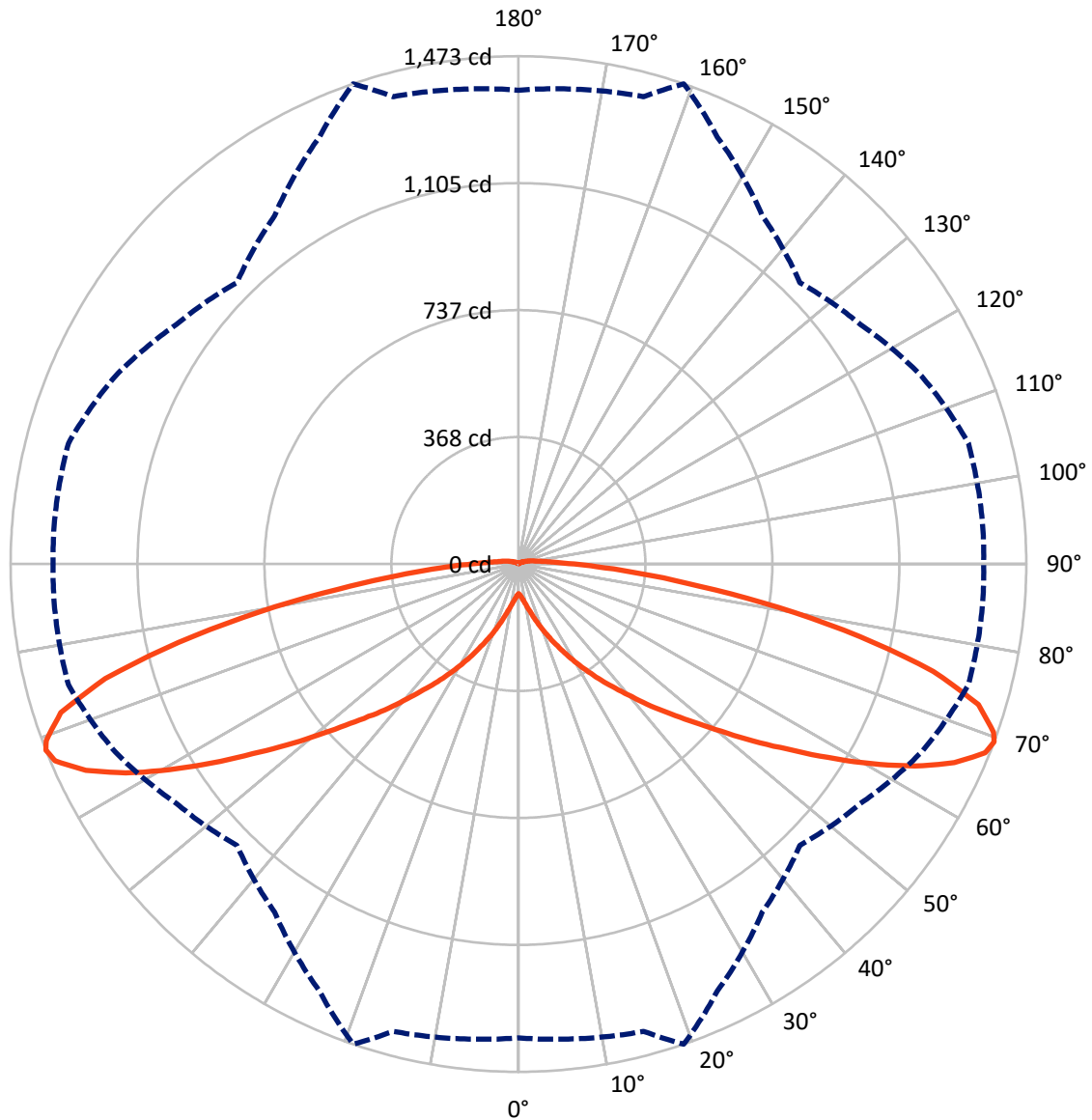


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266362

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

### Luminous Intensity Polar Plot



— Vertical Plane Through 19-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P266362

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

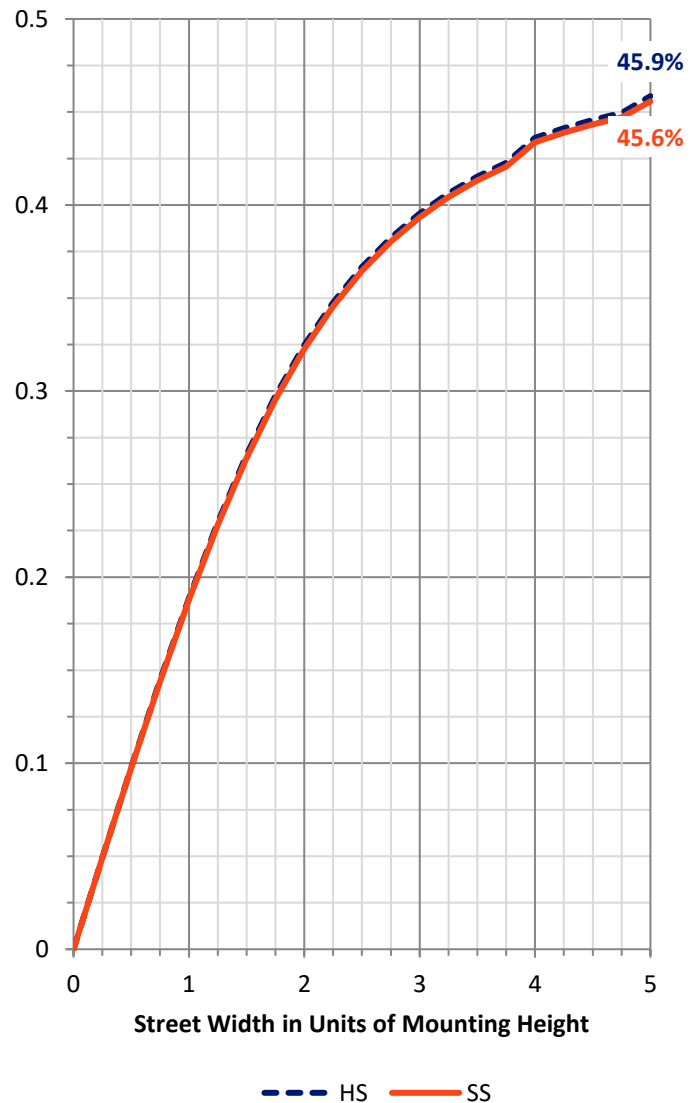
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2233.6	94.4	2328.1
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	2233.6	94.4	2328.1
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	4467.2	188.9	4656.1
	% Fixture	95.9	4.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.4	0.2
10°-20°	41.6	0.9
20°-30°	113.4	2.4
30°-40°	239.8	5.1
40°-50°	437.8	9.4
50°-60°	764.7	16.4
60°-70°	1198.6	25.7
70°-80°	1182.5	25.4
80°-90°	479.5	10.3
90°-100°	115.6	2.5
100°-110°	42.1	0.9
110°-120°	17.7	0.4
120°-130°	8.1	0.2
130°-140°	3.8	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4467.2	95.9
0°-180°	4656.1	100.0



REPORT NUMBER: P266362

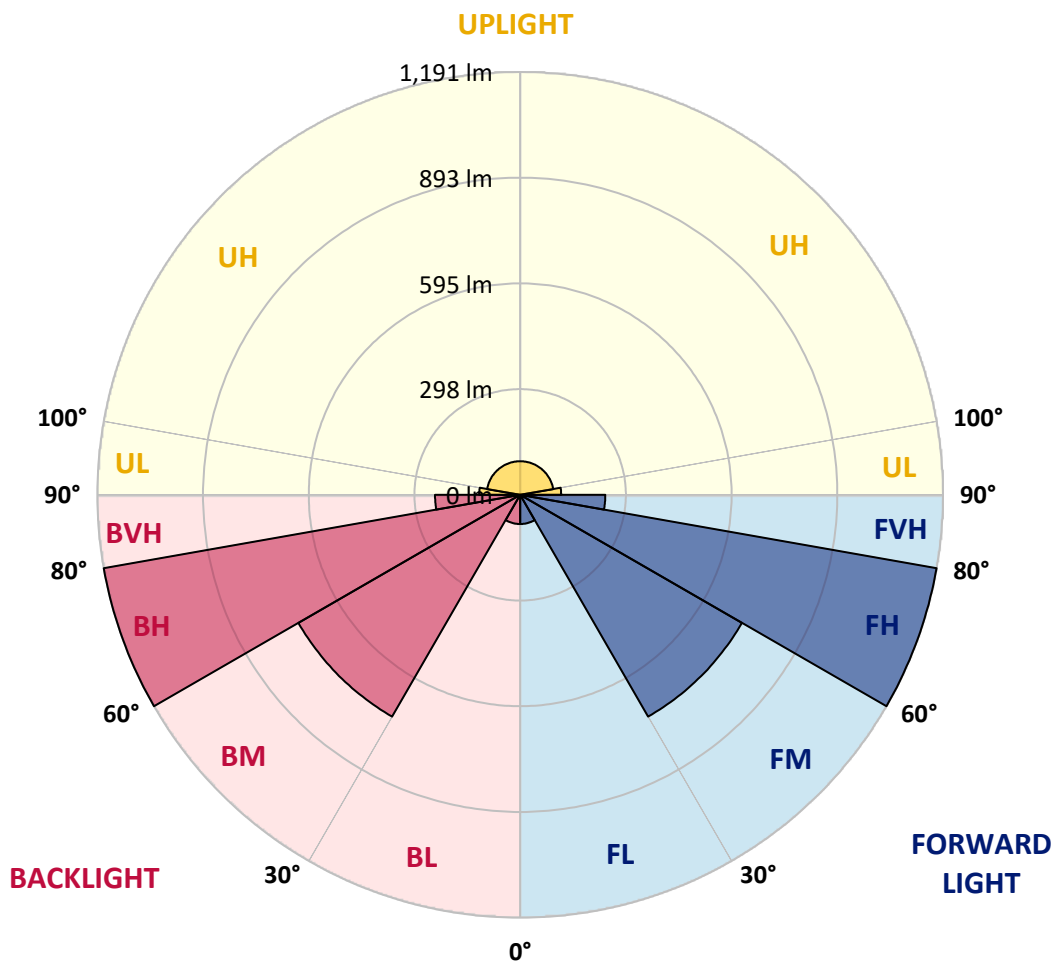
CATALOG NUMBER: UTLD-AF24-50-D-U-5WQ-TL-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	82.2	1.8			
FM (30°-60°)	721.1	15.5			
FH (60°-80°)	1190.6	25.6			G1/1800
FVH (80°-90°)	239.8	5.1			G3/500
BL (0°-30°)	82.2	1.8	B0/110		
BM (30°-60°)	721.1	15.5	B1/1000		
BH (60°-80°)	1190.6	25.6	B3/2500		G1/1800
BVH (80°-90°)	239.8	5.1			G3/500
UL (90°-100°)	115.6	2.5		U3/500	
UH (100°-180°)	94.4	2.0		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





REPORT NUMBER: P266362

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2.5°	87.9	87.9	87.9	90.1	87.9	87.9	87.9	87.9	87.9	87.9	87.3
5°	92.3	92.3	92.3	97.5	92.3	91.7	91.7	92.3	91.7	91.7	91.7
7.5°	100.8	100.3	100.3	107.0	100.3	99.7	99.2	99.2	99.2	98.5	98.5
10°	112.1	111.5	111.0	120.0	110.4	109.9	109.2	108.8	108.8	108.8	109.2
12.5°	126.8	126.8	125.7	135.7	124.0	122.2	121.1	120.6	121.1	121.7	122.2
15°	145.3	145.9	144.2	154.9	140.2	137.4	135.7	135.7	136.9	138.6	140.2
17.5°	170.0	169.6	166.1	179.1	161.7	156.0	152.2	152.6	156.7	161.1	163.9
20°	197.2	195.6	191.5	204.5	184.7	176.2	171.8	173.0	179.8	186.9	191.0
22.5°	227.0	225.4	219.6	232.7	209.6	198.9	194.4	196.0	204.5	215.1	223.0
25°	259.7	259.2	251.3	263.1	236.1	223.0	216.9	220.9	232.7	249.0	258.5
27.5°	295.7	294.6	284.5	297.3	265.9	250.1	242.8	246.8	262.5	284.0	299.1
30°	335.2	334.0	319.9	334.0	297.3	277.1	268.8	274.9	294.0	322.9	339.6
32.5°	377.4	376.3	358.9	372.3	332.4	306.4	295.2	303.5	328.4	360.0	382.5
35°	421.9	419.1	401.1	413.9	369.6	336.9	323.3	336.2	364.0	401.1	426.4
37.5°	469.9	466.4	445.6	456.9	408.4	371.2	356.0	367.9	402.8	442.1	473.1
40°	519.4	516.5	491.3	505.8	452.8	407.8	389.9	404.4	444.4	486.2	518.2
42.5°	571.7	568.9	544.7	563.2	500.7	447.9	427.0	445.6	488.9	535.1	570.1
45°	625.8	624.7	601.7	619.7	552.5	494.5	470.9	492.4	539.6	590.8	624.7
47.5°	691.8	685.0	667.5	685.0	614.6	552.0	522.8	545.4	597.6	653.4	687.3
50°	757.1	756.0	740.7	762.1	684.4	611.1	579.0	605.0	664.7	722.1	754.2
52.5°	834.9	837.1	820.7	852.9	765.5	686.0	647.8	677.1	743.5	799.3	830.8
55°	918.2	919.2	912.6	947.0	852.9	763.7	723.2	755.4	823.6	884.9	914.8
57.5°	1015.1	1013.9	1011.8	1059.0	955.3	856.8	806.7	845.6	916.5	978.4	1003.2
60°	1110.8	1110.8	1116.5	1175.6	1063.6	952.6	894.5	939.0	1013.9	1079.3	1097.3
62.5°	1214.5	1216.1	1221.2	1290.5	1167.2	1049.9	983.6	1032.0	1116.5	1176.7	1191.4
65°	1298.9	1306.9	1318.2	1389.7	1270.3	1138.4	1068.5	1119.8	1206.6	1266.3	1275.4
67.5°	1360.4	1364.3	1385.7	1460.0	1346.3	1208.8	1132.3	1185.1	1270.8	1331.6	1337.2
69°	1374.4	1383.5	1403.2	1473.0	1366.1	1233.1	1154.2	1211.0	1290.0	1351.3	1351.3
70°	1368.3	1379.4	1403.2	1462.4	1370.5	1241.0	1163.8	1216.8	1293.9	1350.8	1349.2
72.5°	1300.0	1308.0	1348.5	1395.2	1336.1	1225.2	1159.3	1204.8	1259.0	1298.4	1288.3
75°	1156.5	1164.4	1209.9	1243.3	1228.5	1150.8	1104.0	1133.9	1159.8	1163.8	1144.6
77.5°	934.4	946.4	1009.4	1011.8	1055.6	1025.1	1000.4	1011.1	994.9	976.7	935.0
80°	705.3	713.8	771.7	766.1	838.7	857.9	855.0	848.9	799.9	743.0	696.2
82.5°	488.9	495.8	553.7	527.8	623.1	669.1	685.5	664.1	589.7	525.6	483.8
85°	313.1	324.5	370.1	353.3	437.7	493.4	517.7	484.5	413.9	352.0	317.1
87.5°	202.7	207.2	240.6	226.5	290.6	348.2	374.1	346.9	284.5	232.7	203.3
90°	130.8	135.7	156.7	145.9	194.4	239.4	261.3	236.1	192.6	156.0	135.7
92.5°	91.3	95.2	107.0	100.8	130.8	165.1	184.7	165.1	133.5	110.4	95.8
95°	69.9	71.5	79.9	74.4	95.2	119.5	131.2	119.5	97.5	82.9	72.7
97.5°	55.2	56.4	62.5	58.0	71.5	89.0	98.1	89.7	74.9	64.8	57.0
100°	44.5	45.0	50.1	47.9	57.4	69.9	76.0	70.3	60.2	51.8	45.6
102.5°	36.0	36.0	41.1	40.0	47.3	56.4	60.8	58.0	49.5	42.2	36.0
105°	28.7	28.7	33.2	33.2	39.4	46.3	50.1	47.3	40.6	33.7	28.7
107.5°	22.5	23.0	26.5	26.5	32.7	38.3	41.1	38.8	33.2	26.5	22.5



REPORT NUMBER: P266362

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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	18.1	18.5	21.4	22.0	26.9	32.1	34.3	32.1	26.9	20.8	17.4
112.5°	14.6	14.6	17.4	17.4	22.0	26.5	28.1	26.5	22.0	16.3	14.1
115°	12.3	12.3	14.1	14.1	18.1	22.0	23.6	22.0	17.4	13.6	11.9
117.5°	10.7	10.7	11.9	11.9	15.2	18.5	19.8	18.1	14.6	11.3	10.2
120°	9.6	9.6	10.2	10.2	12.3	15.2	16.3	15.2	11.9	9.6	9.1
122.5°	8.4	8.4	9.1	8.4	10.7	12.9	13.6	12.3	10.2	8.4	7.8
125°	7.8	7.8	7.8	7.4	9.1	10.7	11.3	10.2	8.4	7.4	7.4
127.5°	6.7	6.7	6.7	6.2	7.4	9.1	9.6	8.4	7.4	6.7	6.2
130°	6.2	6.2	6.2	5.6	6.7	7.4	7.8	7.4	6.2	6.2	6.2
132.5°	5.6	5.6	5.6	5.1	5.6	6.2	6.2	5.6	5.1	5.1	5.6
135°	5.1	5.1	5.1	4.5	4.5	4.5	5.1	4.5	4.5	4.5	5.1
137.5°	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5
140°	4.0	4.0	4.0	2.9	3.4	2.9	2.9	2.9	3.4	3.4	4.0
142.5°	3.4	3.4	2.9	2.9	2.9	2.2	1.6	2.2	2.2	2.9	3.4
145°	2.9	2.9	2.2	2.2	2.2	1.6	1.1	1.1	2.2	2.2	2.2
147.5°	2.2	2.2	1.6	1.6	1.6	1.1	0.5	1.1	1.6	1.6	2.2
150°	1.6	1.6	1.1	1.1	1.1	0.5	0.5	0.5	1.1	1.1	1.6
152.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.0	0.5	0.5	1.1	1.1
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.0	0.0	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





REPORT NUMBER: P266362

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

**CANDELA DISTRIBUTION (continued):**

	90°
0°	86.1
2.5°	87.3
5°	91.7
7.5°	98.5
10°	108.8
12.5°	122.8
15°	140.2
17.5°	163.3
20°	192.1
22.5°	225.4
25°	261.3
27.5°	300.8
30°	342.0
32.5°	386.5
35°	431.5
37.5°	476.0
40°	523.9
42.5°	572.3
45°	626.4
47.5°	688.9
50°	760.4
52.5°	834.3
55°	912.6
57.5°	1003.2
60°	1098.9
62.5°	1192.5
65°	1273.1
67.5°	1335.6
69°	1349.7
70°	1345.1
72.5°	1276.4
75°	1130.5
77.5°	925.6
80°	681.0
82.5°	466.4
85°	309.8
87.5°	198.3
90°	130.2
92.5°	93.0
95°	70.3
97.5°	55.8
100°	44.5
102.5°	36.0
105°	28.1
107.5°	22.0



REPORT NUMBER: P266362

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

**CANDELA DISTRIBUTION (continued):**

	90°
110°	17.4
112.5°	14.1
115°	11.9
117.5°	10.2
120°	8.4
122.5°	7.8
125°	7.4
127.5°	6.2
130°	6.2
132.5°	5.6
135°	5.1
137.5°	4.5
140°	4.0
142.5°	3.4
145°	2.9
147.5°	1.6
150°	1.6
152.5°	1.1
155°	0.5
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)