

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: P240367

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240367  
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-AF24-80-D-U-5WQ-TL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 7377.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 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): 83  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

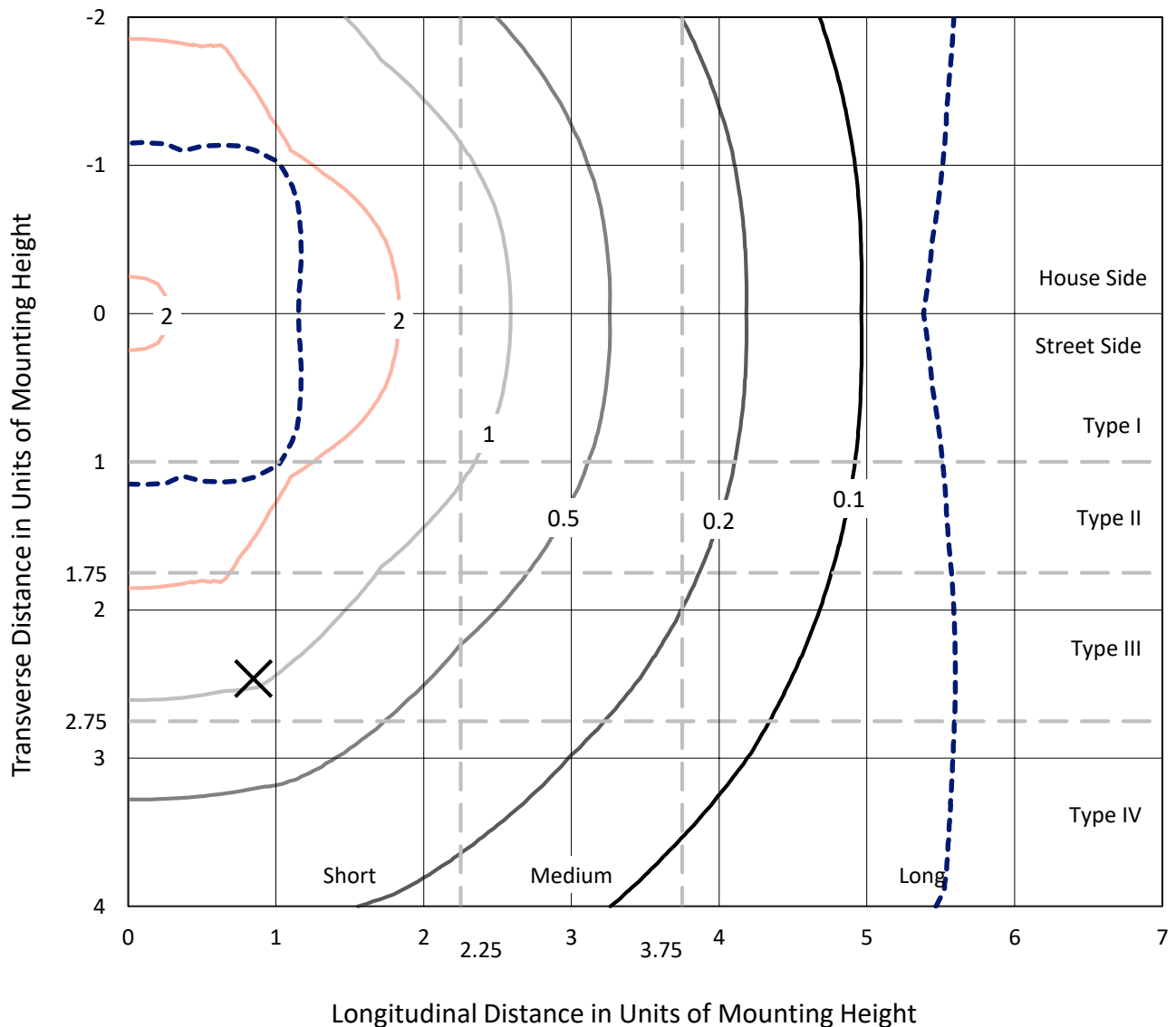


REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

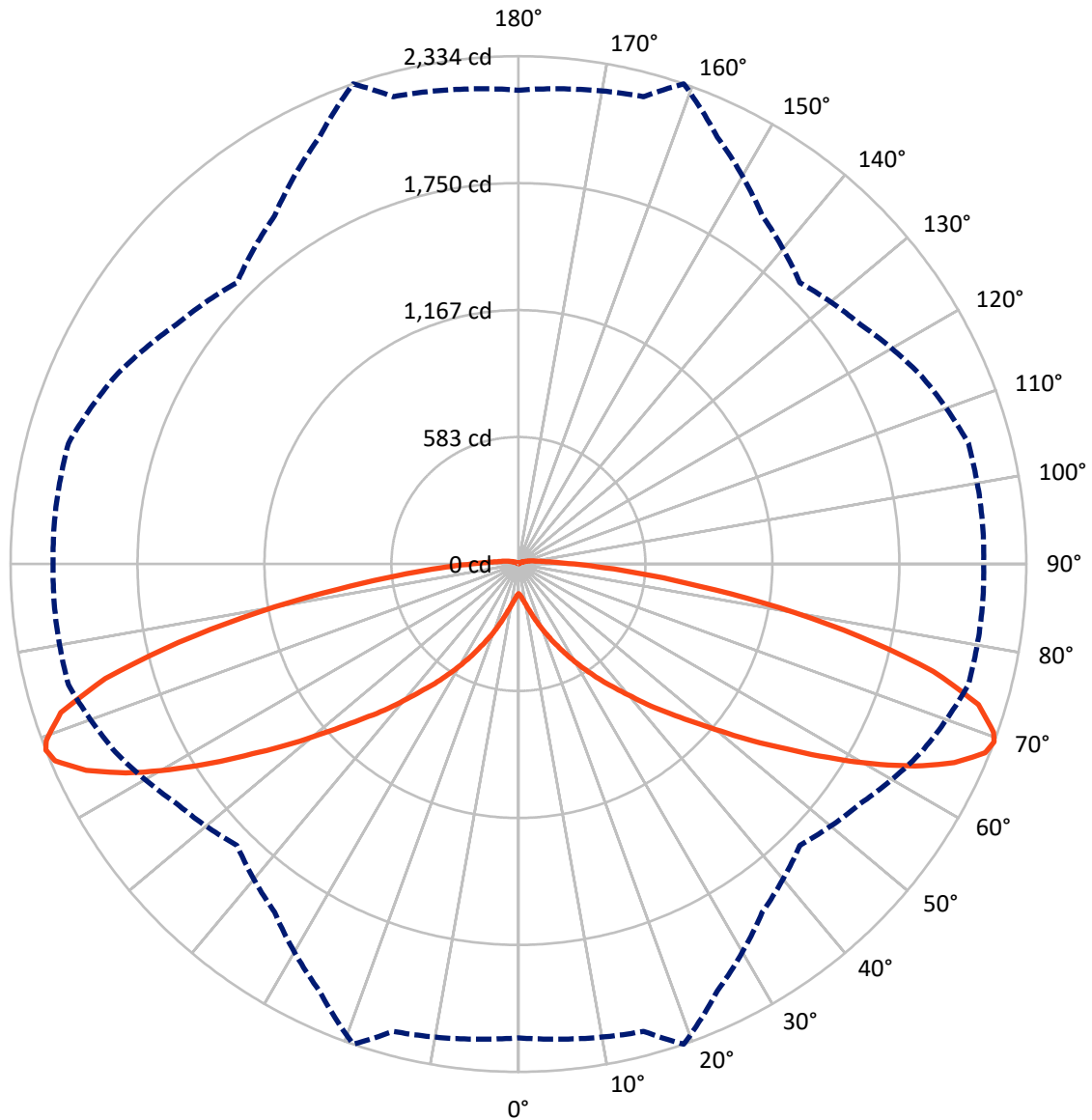


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

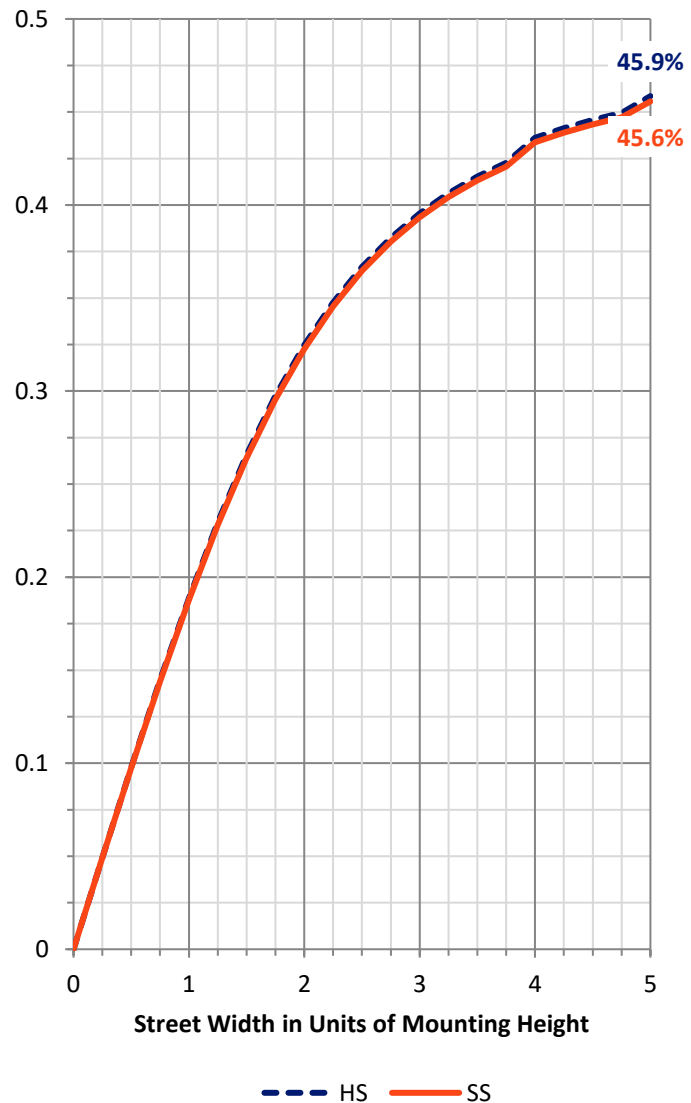
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3538.9	149.7	3688.6
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3538.9	149.7	3688.6
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	7077.9	299.3	7377.2
	% Fixture	95.9	4.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	0.2
10°-20°	65.9	0.9
20°-30°	179.7	2.4
30°-40°	379.9	5.1
40°-50°	693.6	9.4
50°-60°	1211.5	16.4
60°-70°	1899.1	25.7
70°-80°	1873.5	25.4
80°-90°	759.7	10.3
90°-100°	183.1	2.5
100°-110°	66.8	0.9
110°-120°	28.1	0.4
120°-130°	12.9	0.2
130°-140°	6.0	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7077.9	95.9
0°-180°	7377.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P240367

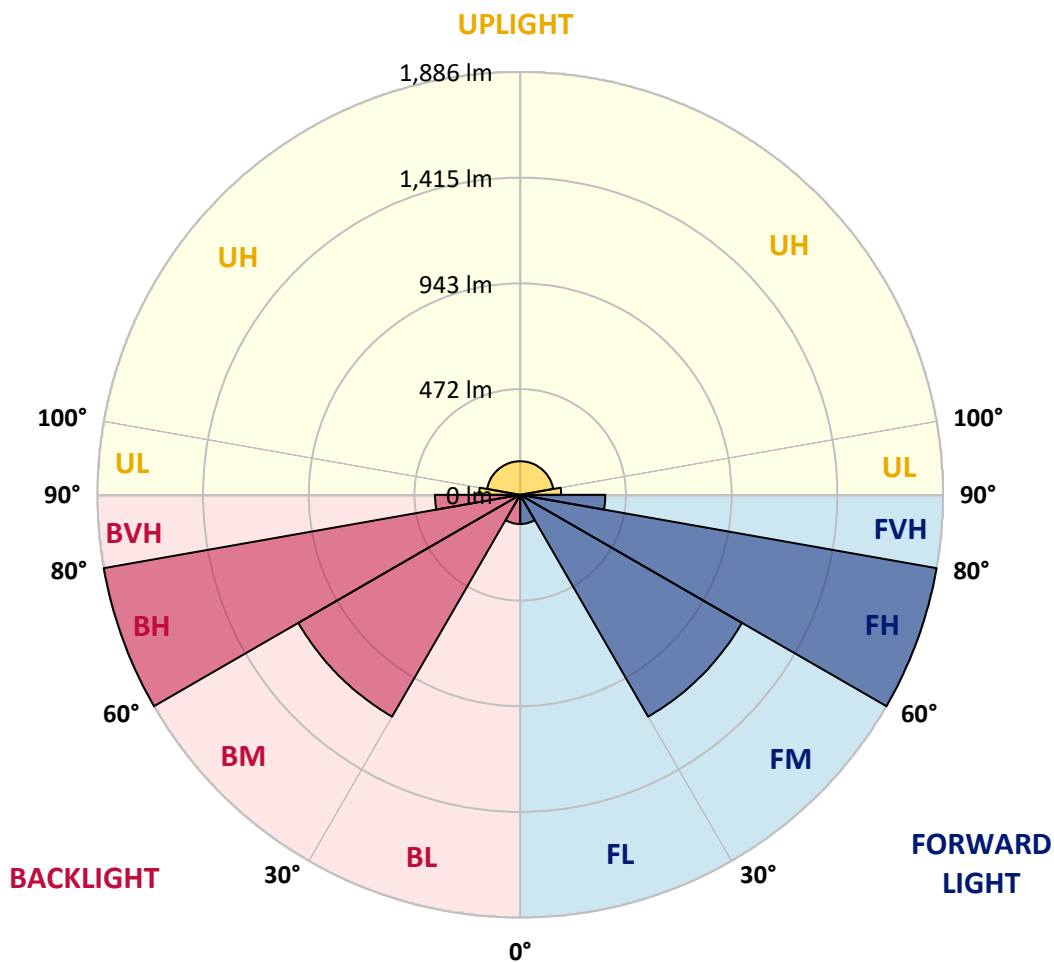
CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.2	1.8			
FM (30°-60°)	1142.5	15.5			
FH (60°-80°)	1886.3	25.6			G2/5000
FVH (80°-90°)	379.9	5.1			G3/500
BL (0°-30°)	130.2	1.8	B1/500		
BM (30°-60°)	1142.5	15.5	B2/2500		
BH (60°-80°)	1886.3	25.6	B3/2500		G2/5000
BVH (80°-90°)	379.9	5.1			G3/500
UL (90°-100°)	183.1	2.5		U3/500	
UH (100°-180°)	149.7	2.0		U3/500	

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

Type V Short





REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	139.2	139.2	139.2	142.8	139.2	139.2	139.2	139.2	139.2	139.2	138.3
5°	146.4	146.4	146.4	154.4	146.4	145.5	145.5	146.4	145.5	145.5	145.5
7.5°	159.7	158.9	158.9	169.6	158.9	158.0	157.2	157.2	157.2	156.1	156.1
10°	177.6	176.7	175.8	190.1	175.0	174.0	173.1	172.3	172.3	172.3	173.1
12.5°	200.8	200.8	199.1	215.1	196.3	193.7	191.9	190.9	191.9	192.8	193.7
15°	230.2	231.2	228.5	245.4	222.3	217.8	215.1	215.1	216.9	219.5	222.3
17.5°	269.6	268.7	263.4	283.8	256.1	247.3	241.0	241.9	248.1	255.2	259.7
20°	312.4	309.6	303.4	324.0	292.7	279.3	272.2	274.0	284.7	296.3	302.5
22.5°	359.7	356.9	348.1	368.6	332.0	315.0	307.9	310.7	324.0	340.9	353.5
25°	411.5	410.6	398.0	416.9	374.0	353.5	343.6	349.8	368.6	394.4	409.6
27.5°	468.5	466.7	450.7	471.2	421.3	396.3	384.7	390.9	415.9	449.8	473.8
30°	531.0	529.3	507.0	529.3	471.2	439.1	425.7	435.5	465.9	511.5	538.2
32.5°	597.9	596.2	568.4	589.9	526.5	485.5	467.6	481.1	520.3	570.4	606.0
35°	668.4	664.0	635.5	656.0	585.5	533.7	512.3	532.8	576.6	635.5	675.7
37.5°	744.4	739.0	706.0	723.9	647.1	588.2	564.1	582.8	638.1	700.6	749.7
40°	822.8	818.5	778.3	801.4	717.5	646.2	617.7	640.8	704.1	770.2	821.1
42.5°	905.9	901.4	863.0	892.5	793.4	709.5	676.6	706.0	774.6	847.9	903.2
45°	991.5	989.8	953.2	981.7	875.5	783.6	746.1	780.0	855.0	936.3	989.8
47.5°	1096.0	1085.3	1057.6	1085.3	973.7	874.6	828.1	863.9	947.0	1035.2	1088.9
50°	1199.5	1197.7	1173.7	1207.6	1084.4	968.4	917.4	958.5	1053.1	1144.2	1195.1
52.5°	1322.7	1326.2	1300.4	1351.2	1212.9	1087.0	1026.4	1072.8	1178.1	1266.5	1316.5
55°	1454.8	1456.5	1445.8	1500.2	1351.2	1210.3	1145.9	1196.8	1304.8	1402.2	1449.5
57.5°	1608.3	1606.4	1603.0	1677.9	1513.7	1357.4	1278.0	1339.6	1452.0	1550.3	1589.5
60°	1759.9	1759.9	1768.9	1862.7	1685.0	1509.2	1417.3	1487.8	1606.4	1710.0	1738.6
62.5°	1924.2	1926.9	1934.9	2044.7	1849.2	1663.6	1558.2	1635.1	1768.9	1864.4	1887.6
65°	2058.1	2070.6	2088.4	2201.8	2012.5	1803.8	1693.1	1774.3	1911.7	2006.3	2020.6
67.5°	2155.3	2161.5	2195.6	2313.3	2133.1	1915.4	1793.9	1877.8	2013.4	2109.8	2118.7
69°	2177.6	2192.0	2223.2	2333.9	2164.3	1953.7	1828.7	1918.8	2043.8	2141.1	2141.1
70°	2167.8	2185.7	2223.2	2316.9	2171.4	1966.1	1843.9	1927.8	2050.0	2140.2	2137.5
72.5°	2059.9	2072.3	2136.6	2210.7	2117.0	1941.2	1836.7	1909.0	1994.7	2057.2	2041.1
75°	1832.3	1844.8	1917.1	1969.7	1946.6	1823.3	1749.2	1796.5	1837.6	1843.9	1813.4
77.5°	1480.7	1499.4	1599.3	1603.0	1672.5	1624.3	1585.1	1602.1	1576.2	1547.5	1481.5
80°	1117.4	1130.9	1222.7	1213.8	1328.9	1359.3	1354.9	1345.0	1267.3	1177.2	1103.1
82.5°	774.6	785.3	877.4	836.3	987.0	1060.3	1086.1	1052.2	934.3	832.7	766.7
85°	496.2	514.1	586.4	559.6	693.5	781.9	820.2	767.5	656.0	557.8	502.5
87.5°	321.3	328.5	381.1	358.8	460.5	551.5	592.6	549.8	450.7	368.6	322.2
90°	207.0	215.1	248.1	231.2	307.9	379.3	414.1	374.0	305.3	247.3	215.1
92.5°	144.5	150.8	169.6	159.7	207.0	261.4	292.7	261.4	211.5	175.0	151.8
95°	110.7	113.3	126.7	117.8	150.8	189.2	207.9	189.2	154.4	131.2	115.2
97.5°	87.5	89.3	99.1	91.9	113.3	141.1	155.2	141.9	118.6	102.6	90.1
100°	70.5	71.3	79.4	75.8	91.0	110.7	120.5	111.6	95.5	82.2	72.3
102.5°	57.2	57.2	65.1	63.4	75.0	89.3	96.3	91.9	78.5	66.9	57.2
105°	45.6	45.6	52.7	52.7	62.5	73.2	79.4	75.0	64.3	53.5	45.6
107.5°	35.7	36.6	41.9	41.9	51.8	60.6	65.1	61.6	52.7	41.9	35.7



REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	28.5	29.5	33.9	34.9	42.8	51.0	54.4	51.0	42.8	33.0	27.7
112.5°	23.2	23.2	27.7	27.7	34.9	41.9	44.6	41.9	34.9	25.9	22.3
115°	19.6	19.6	22.3	22.3	28.5	34.9	37.4	34.9	27.7	21.5	18.8
117.5°	16.9	16.9	18.8	18.8	24.1	29.5	31.2	28.5	23.2	17.8	16.1
120°	15.2	15.2	16.1	16.1	19.6	24.1	25.9	24.1	18.8	15.2	14.3
122.5°	13.4	13.4	14.3	13.4	16.9	20.5	21.5	19.6	16.1	13.4	12.4
125°	12.4	12.4	12.4	11.6	14.3	16.9	17.8	16.1	13.4	11.6	11.6
127.5°	10.7	10.7	10.7	9.9	11.6	14.3	15.2	13.4	11.6	10.7	9.9
130°	9.9	9.9	9.9	9.0	10.7	11.6	12.4	11.6	9.9	9.9	9.9
132.5°	9.0	9.0	9.0	8.0	9.0	9.9	9.9	9.0	8.0	8.0	9.0
135°	8.0	8.0	8.0	7.1	7.1	7.1	8.0	7.1	7.1	7.1	8.0
137.5°	7.1	7.1	7.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.1
140°	6.2	6.2	6.2	4.5	5.4	4.5	4.5	4.5	5.4	5.4	6.2
142.5°	5.4	5.4	4.5	4.5	4.5	3.6	2.7	3.6	3.6	4.5	5.4
145°	4.5	4.5	3.6	3.6	3.6	2.7	1.7	1.7	3.6	3.6	3.6
147.5°	3.6	3.6	2.7	2.7	2.7	1.7	0.9	1.7	2.7	2.7	3.6
150°	2.7	2.7	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7	2.7
152.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.0	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9
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: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (continued):**

	90°
0°	136.6
2.5°	138.3
5°	145.5
7.5°	156.1
10°	172.3
12.5°	194.6
15°	222.3
17.5°	258.8
20°	304.3
22.5°	356.9
25°	414.1
27.5°	476.6
30°	541.7
32.5°	612.3
35°	683.6
37.5°	754.1
40°	830.1
42.5°	906.8
45°	992.4
47.5°	1091.5
50°	1204.9
52.5°	1321.8
55°	1445.8
57.5°	1589.5
60°	1741.3
62.5°	1889.4
65°	2017.0
67.5°	2116.2
69°	2138.4
70°	2131.2
72.5°	2022.4
75°	1791.2
77.5°	1466.4
80°	1079.1
82.5°	739.0
85°	490.9
87.5°	314.1
90°	206.2
92.5°	147.3
95°	111.6
97.5°	88.4
100°	70.5
102.5°	57.2
105°	44.6
107.5°	34.9



REPORT NUMBER: P240367

CATALOG NUMBER: UTLD-AF24-80-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (continued):**

	90°
110°	27.7
112.5°	22.3
115°	18.8
117.5°	16.1
120°	13.4
122.5°	12.4
125°	11.6
127.5°	9.9
130°	9.9
132.5°	9.0
135°	8.0
137.5°	7.1
140°	6.2
142.5°	5.4
145°	4.5
147.5°	2.7
150°	2.7
152.5°	1.7
155°	0.9
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)