

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: P240375

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240375
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-AF24-70-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 7131 lumens
Efficiency: N/A
Efficacy: 96.4 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): 74
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



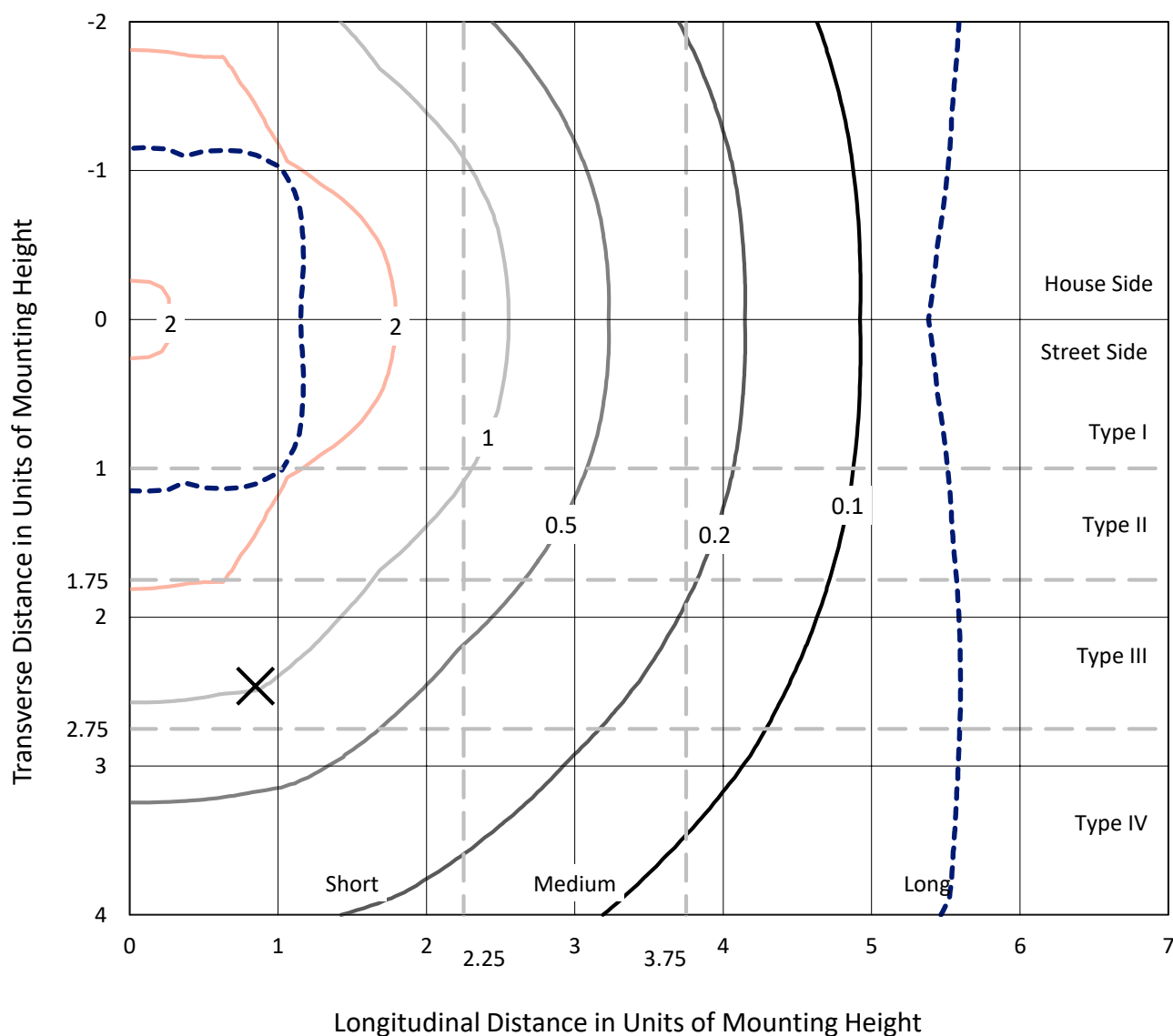
REPORT NUMBER: P240375

CATALOG NUMBER: UTLD-AF24-70-D-U-5WQ-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

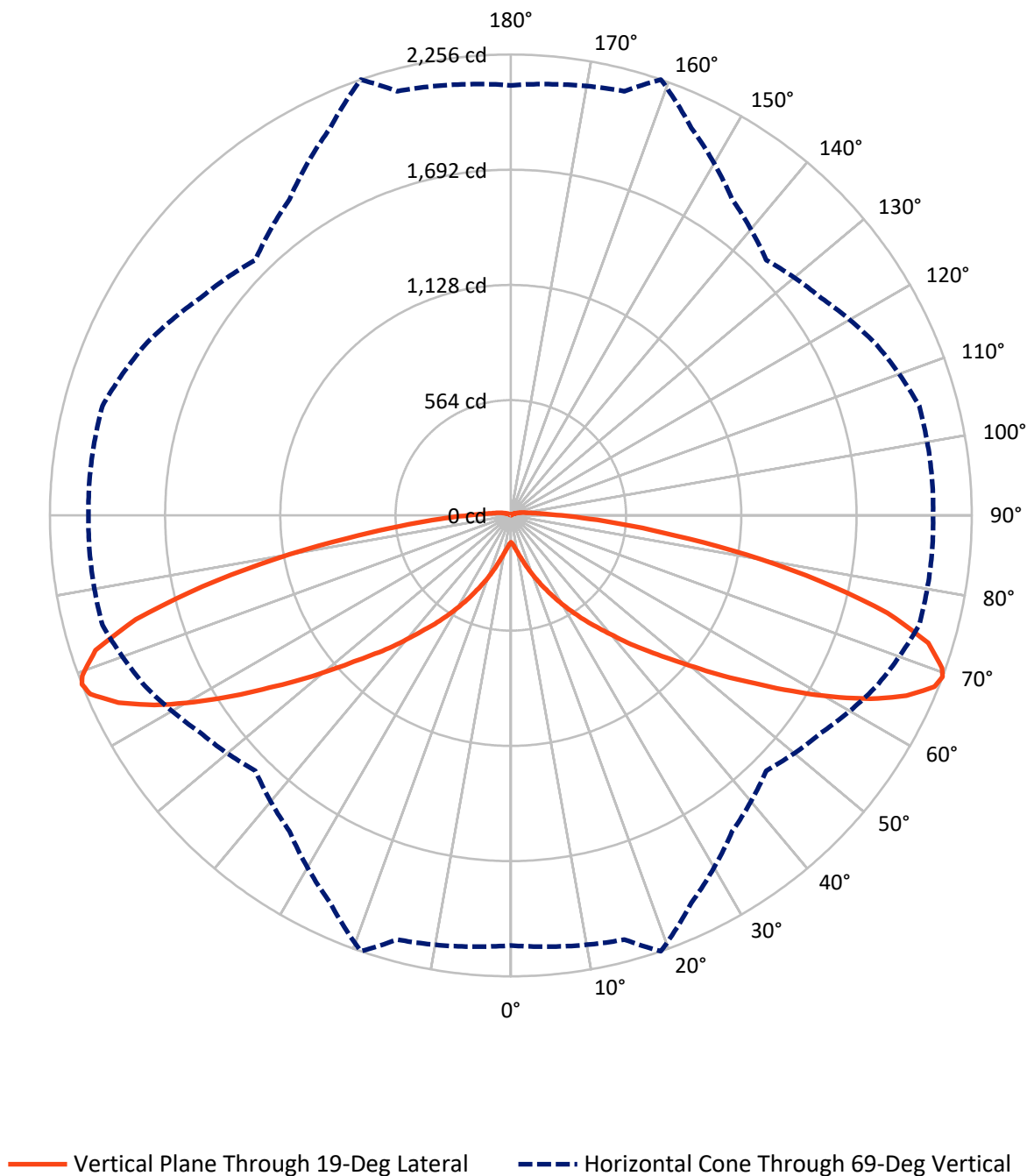


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P240375

CATALOG NUMBER: UTLD-AF24-70-D-U-5WQ-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240375

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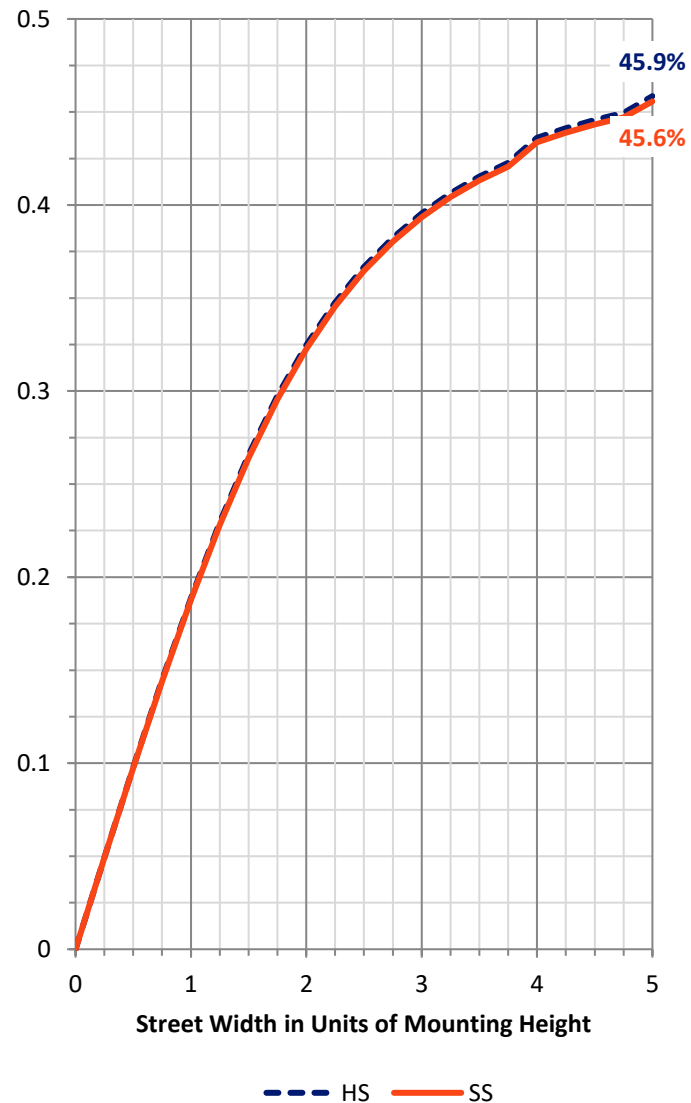
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3420.8	144.7	3565.5
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3420.8	144.7	3565.5
	% Fixture	48.0	2.0	50.0
Total	Lumens	6841.7	289.3	7131.0
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.2
10°-20°	63.7	0.9
20°-30°	173.7	2.4
30°-40°	367.2	5.1
40°-50°	670.5	9.4
50°-60°	1171.1	16.4
60°-70°	1835.7	25.7
70°-80°	1811.0	25.4
80°-90°	734.4	10.3
90°-100°	177.0	2.5
100°-110°	64.6	0.9
110°-120°	27.1	0.4
120°-130°	12.5	0.2
130°-140°	5.8	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°	6841.7	95.9
0°-180°	7131.0	100.0

Coefficient of Utilization



REPORT NUMBER: P240375

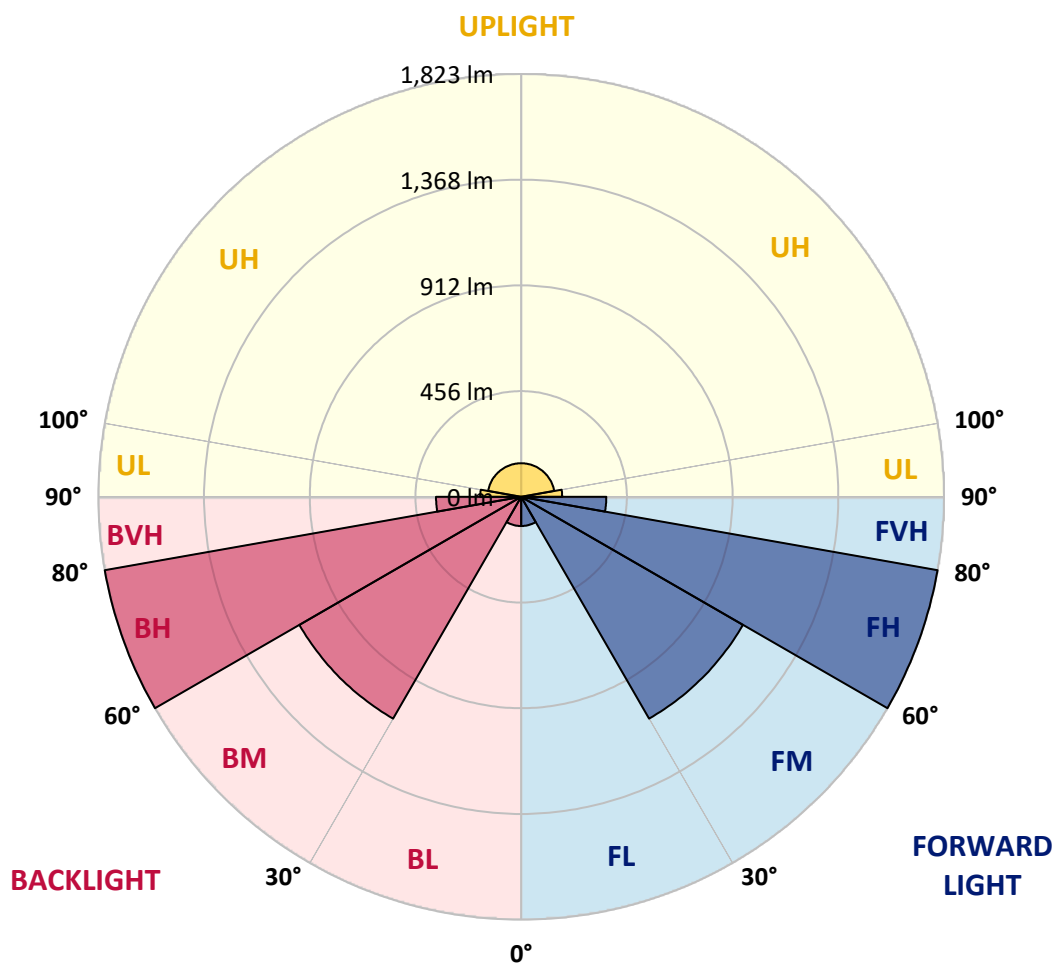
CATALOG NUMBER: UTLD-AF24-70-D-U-5WQ-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.9	1.8			
FM	(30°-60°)	1104.4	15.5			
FH	(60°-80°)	1823.4	25.6			G2/5000
FVH	(80°-90°)	367.2	5.1			G3/500
BL	(0°-30°)	125.9	1.8	B1/500		
BM	(30°-60°)	1104.4	15.5	B2/2500		
BH	(60°-80°)	1823.4	25.6	B3/2500		G2/5000
BVH	(80°-90°)	367.2	5.1			G3/500
UL	(90°-100°)	177.0	2.5		U3/500	
UH	(100°-180°)	144.7	2.0		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	134.6	134.6	134.6	138.0	134.6	134.6	134.6	134.6	134.6	134.6	133.7
5°	141.5	141.5	141.5	149.2	141.5	140.7	140.7	141.5	140.7	140.7	140.7
7.5°	154.5	153.5	153.5	163.9	153.5	152.7	151.8	151.8	151.8	151.0	151.0
10°	171.7	170.8	169.9	183.7	169.1	168.3	167.4	166.5	166.5	166.5	167.4
12.5°	194.2	194.2	192.4	207.9	189.8	187.2	185.5	184.6	185.5	186.4	187.2
15°	222.6	223.4	220.9	237.2	214.8	210.5	207.9	207.9	209.6	212.3	214.8
17.5°	260.5	259.6	254.5	274.4	247.6	239.0	232.9	233.7	239.9	246.7	251.0
20°	302.0	299.3	293.3	313.1	282.9	270.1	263.1	264.8	275.2	286.4	292.5
22.5°	347.7	345.0	336.4	356.3	320.9	304.5	297.7	300.2	313.1	329.6	341.7
25°	397.7	396.8	384.7	402.8	361.5	341.7	332.2	338.2	356.3	381.4	396.0
27.5°	453.0	451.2	435.7	455.5	407.2	383.0	371.8	377.9	402.0	434.8	458.1
30°	513.3	511.6	490.0	511.6	455.5	424.4	411.5	421.0	450.3	494.3	520.2
32.5°	578.0	576.3	549.5	570.3	509.0	469.3	452.0	465.0	503.0	551.3	585.7
35°	646.2	641.9	614.3	634.1	565.9	515.9	495.2	515.1	557.3	614.3	653.1
37.5°	719.5	714.3	682.4	699.7	625.4	568.6	545.2	563.3	616.8	677.2	724.7
40°	795.4	791.0	752.3	774.7	693.7	624.6	597.0	619.4	680.7	744.5	793.7
42.5°	875.6	871.3	834.2	862.7	766.9	685.9	654.0	682.4	748.8	819.6	873.1
45°	958.5	956.8	921.4	949.0	846.3	757.5	721.2	754.0	826.4	905.0	956.8
47.5°	1059.4	1049.0	1022.3	1049.0	941.2	845.5	800.6	835.1	915.3	1000.8	1052.5
50°	1159.5	1157.8	1134.5	1167.2	1048.2	936.0	886.9	926.6	1017.9	1106.0	1155.1
52.5°	1278.5	1282.0	1257.0	1306.1	1172.4	1050.8	992.1	1037.0	1138.7	1224.2	1272.4
55°	1406.3	1407.9	1397.6	1450.2	1306.1	1169.8	1107.8	1156.9	1261.3	1355.3	1401.0
57.5°	1554.6	1552.8	1549.5	1621.9	1463.1	1312.1	1235.4	1295.0	1403.6	1498.5	1536.5
60°	1701.3	1701.3	1709.9	1800.5	1628.7	1458.8	1369.9	1438.2	1552.8	1653.0	1680.5
62.5°	1860.0	1862.6	1870.4	1976.4	1787.5	1608.1	1506.3	1580.5	1709.9	1802.2	1824.6
65°	1989.4	2001.5	2018.7	2128.2	1945.3	1743.5	1636.5	1715.1	1847.9	1939.3	1953.1
67.5°	2083.4	2089.5	2122.2	2236.2	2061.9	1851.3	1734.0	1815.1	1946.3	2039.5	2048.0
69°	2105.0	2118.8	2149.0	2256.0	2092.0	1888.5	1767.7	1854.8	1975.6	2069.6	2069.6
70°	2095.5	2112.8	2149.0	2239.5	2099.0	1900.5	1782.4	1863.4	1981.7	2068.7	2066.2
72.5°	1991.1	2003.2	2065.3	2136.9	2046.3	1876.4	1775.4	1845.3	1928.2	1988.5	1973.0
75°	1771.1	1783.2	1853.1	1904.0	1881.5	1762.5	1690.9	1736.7	1776.4	1782.4	1753.0
77.5°	1431.2	1449.3	1546.0	1549.5	1616.7	1570.1	1532.2	1548.5	1523.6	1496.0	1432.1
80°	1080.1	1093.0	1181.9	1173.3	1284.5	1313.9	1309.6	1300.1	1225.1	1137.9	1066.3
82.5°	748.8	759.1	848.0	808.3	954.1	1024.9	1050.0	1017.1	903.3	804.9	741.0
85°	479.7	496.9	566.8	540.9	670.3	755.8	792.8	741.9	634.1	539.2	485.7
87.5°	310.6	317.5	368.4	346.8	445.2	533.2	572.9	531.4	435.7	356.3	311.4
90°	200.2	207.9	239.9	223.4	297.7	366.6	400.3	361.5	295.0	239.0	207.9
92.5°	139.7	145.8	163.9	154.5	200.2	252.8	282.9	252.8	204.5	169.1	146.7
95°	107.0	109.6	122.5	113.9	145.8	182.9	201.0	182.9	149.2	126.8	111.3
97.5°	84.5	86.2	95.7	88.9	109.6	136.3	150.1	137.2	114.8	99.2	87.2
100°	68.1	69.0	76.8	73.3	88.0	107.0	116.5	107.8	92.3	79.4	69.9
102.5°	55.2	55.2	63.0	61.3	72.4	86.2	93.2	88.9	75.9	64.8	55.2
105°	44.0	44.0	50.9	50.9	60.4	70.8	76.8	72.4	62.1	51.8	44.0
107.5°	34.5	35.4	40.5	40.5	50.0	58.6	63.0	59.5	50.9	40.5	34.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	27.6	28.4	32.7	33.7	41.4	49.2	52.6	49.2	41.4	31.9	26.7
112.5°	22.4	22.4	26.7	26.7	33.7	40.5	43.2	40.5	33.7	25.1	21.6
115°	19.0	19.0	21.6	21.6	27.6	33.7	36.2	33.7	26.7	20.7	18.1
117.5°	16.4	16.4	18.1	18.1	23.3	28.4	30.2	27.6	22.4	17.3	15.5
120°	14.6	14.6	15.5	15.5	19.0	23.3	25.1	23.3	18.1	14.6	13.8
122.5°	13.0	13.0	13.8	13.0	16.4	19.8	20.7	19.0	15.5	13.0	12.1
125°	12.1	12.1	12.1	11.3	13.8	16.4	17.3	15.5	13.0	11.3	11.3
127.5°	10.3	10.3	10.3	9.5	11.3	13.8	14.6	13.0	11.3	10.3	9.5
130°	9.5	9.5	9.5	8.6	10.3	11.3	12.1	11.3	9.5	9.5	9.5
132.5°	8.6	8.6	8.6	7.8	8.6	9.5	9.5	8.6	7.8	7.8	8.6
135°	7.8	7.8	7.8	6.9	6.9	6.9	7.8	6.9	6.9	6.9	7.8
137.5°	6.9	6.9	6.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.9
140°	6.0	6.0	6.0	4.3	5.2	4.3	4.3	4.3	5.2	5.2	6.0
142.5°	5.2	5.2	4.3	4.3	4.3	3.5	2.6	3.5	3.5	4.3	5.2
145°	4.3	4.3	3.5	3.5	3.5	2.6	1.7	1.7	3.5	3.5	3.5
147.5°	3.5	3.5	2.6	2.6	2.6	1.7	0.8	1.7	2.6	2.6	3.5
150°	2.6	2.6	1.7	1.7	1.7	0.8	0.8	0.8	1.7	1.7	2.6
152.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.8	0.8	1.7	1.7
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
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: P240375

CATALOG NUMBER: UTLD-AF24-70-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	90°
0°	132.0
2.5°	133.7
5°	140.7
7.5°	151.0
10°	166.5
12.5°	188.0
15°	214.8
17.5°	250.2
20°	294.2
22.5°	345.0
25°	400.3
27.5°	460.6
30°	523.6
32.5°	591.8
35°	660.8
37.5°	729.0
40°	802.3
42.5°	876.5
45°	959.3
47.5°	1055.1
50°	1164.6
52.5°	1277.7
55°	1397.6
57.5°	1536.5
60°	1683.2
62.5°	1826.4
65°	1949.7
67.5°	2045.5
69°	2067.1
70°	2060.1
72.5°	1954.9
75°	1731.4
77.5°	1417.4
80°	1043.0
82.5°	714.3
85°	474.4
87.5°	303.7
90°	199.3
92.5°	142.4
95°	107.8
97.5°	85.4
100°	68.1
102.5°	55.2
105°	43.2
107.5°	33.7



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CANDELA DISTRIBUTION (continued):

	90°
110°	26.7
112.5°	21.6
115°	18.1
117.5°	15.5
120°	13.0
122.5°	12.1
125°	11.3
127.5°	9.5
130°	9.5
132.5°	8.6
135°	7.8
137.5°	6.9
140°	6.0
142.5°	5.2
145°	4.3
147.5°	2.6
150°	2.6
152.5°	1.7
155°	0.8
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)