

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: P240417

Luminaire Tested: **UTLD-AF24-40-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874.3 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 40
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



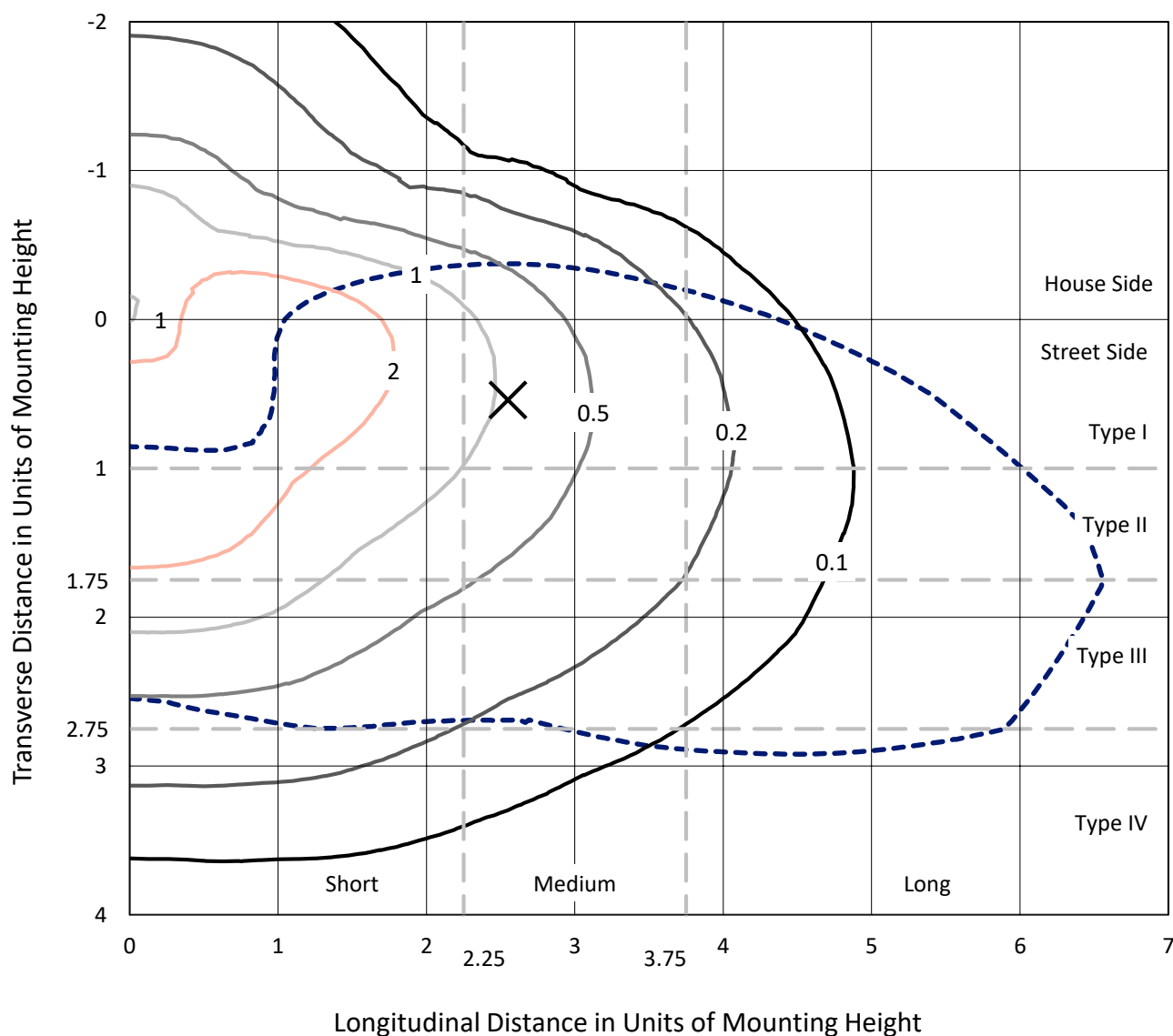
REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

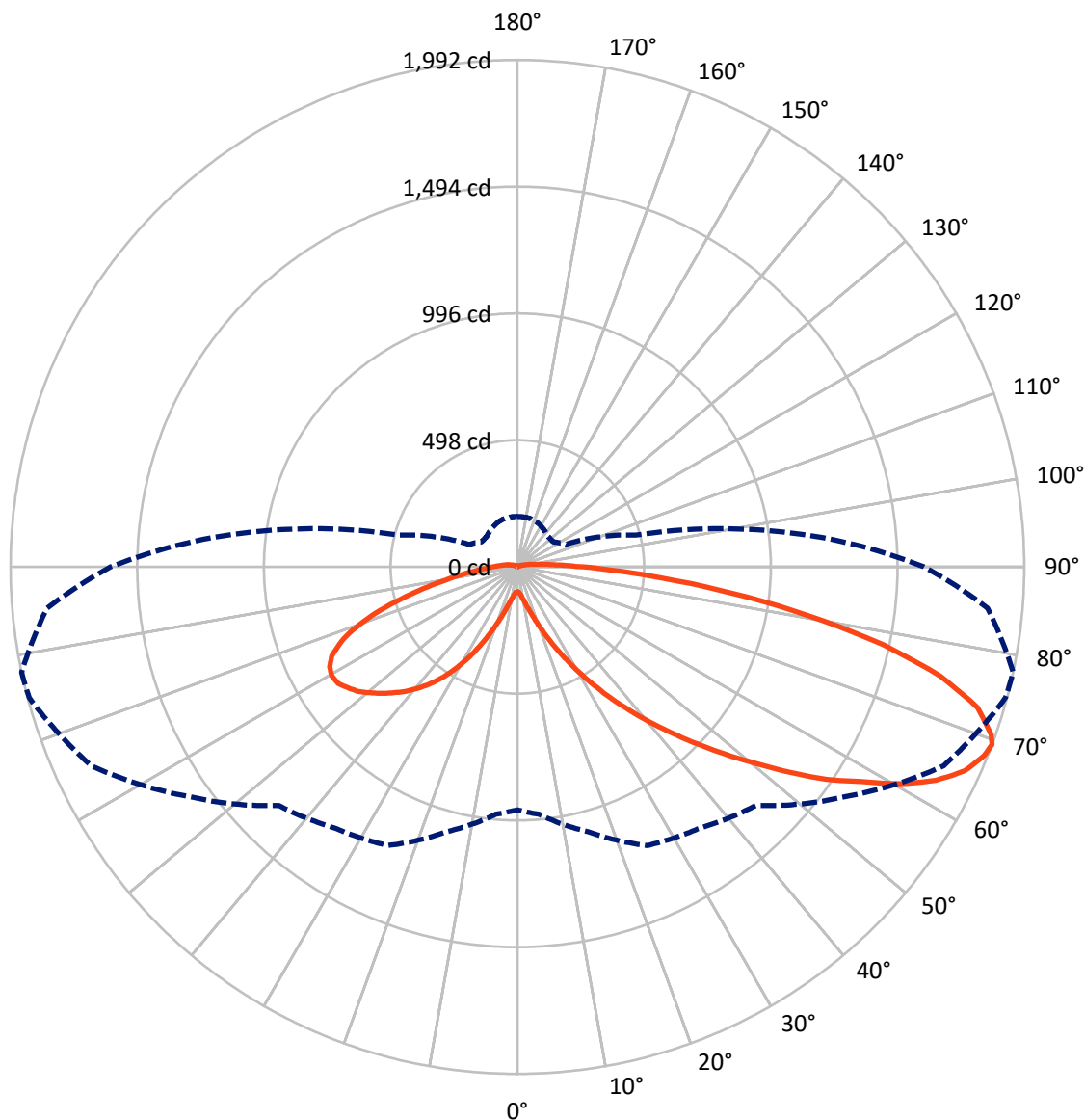


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

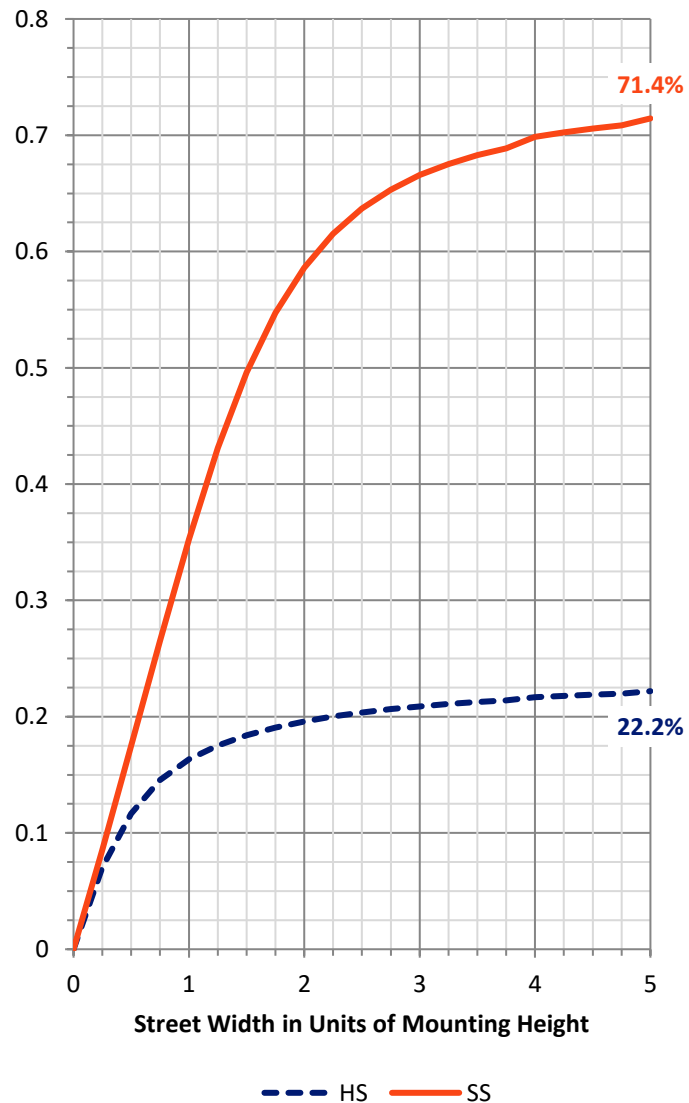
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.0	67.6	967.6
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	2832.4	74.3	2906.7
	% Fixture	73.1	1.9	75.0
Total	Lumens	3732.4	141.9	3874.3
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.3
10°-20°	49.8	1.3
20°-30°	141.9	3.7
30°-40°	301.7	7.8
40°-50°	523.0	13.5
50°-60°	783.0	20.2
60°-70°	932.0	24.1
70°-80°	710.9	18.3
80°-90°	279.3	7.2
90°-100°	82.0	2.1
100°-110°	33.2	0.9
110°-120°	15.0	0.4
120°-130°	7.2	0.2
130°-140°	3.4	0.1
140°-150°	1.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3732.4	96.3
0°-180°	3874.3	100.0

Coefficient of Utilization



REPORT NUMBER: P240417

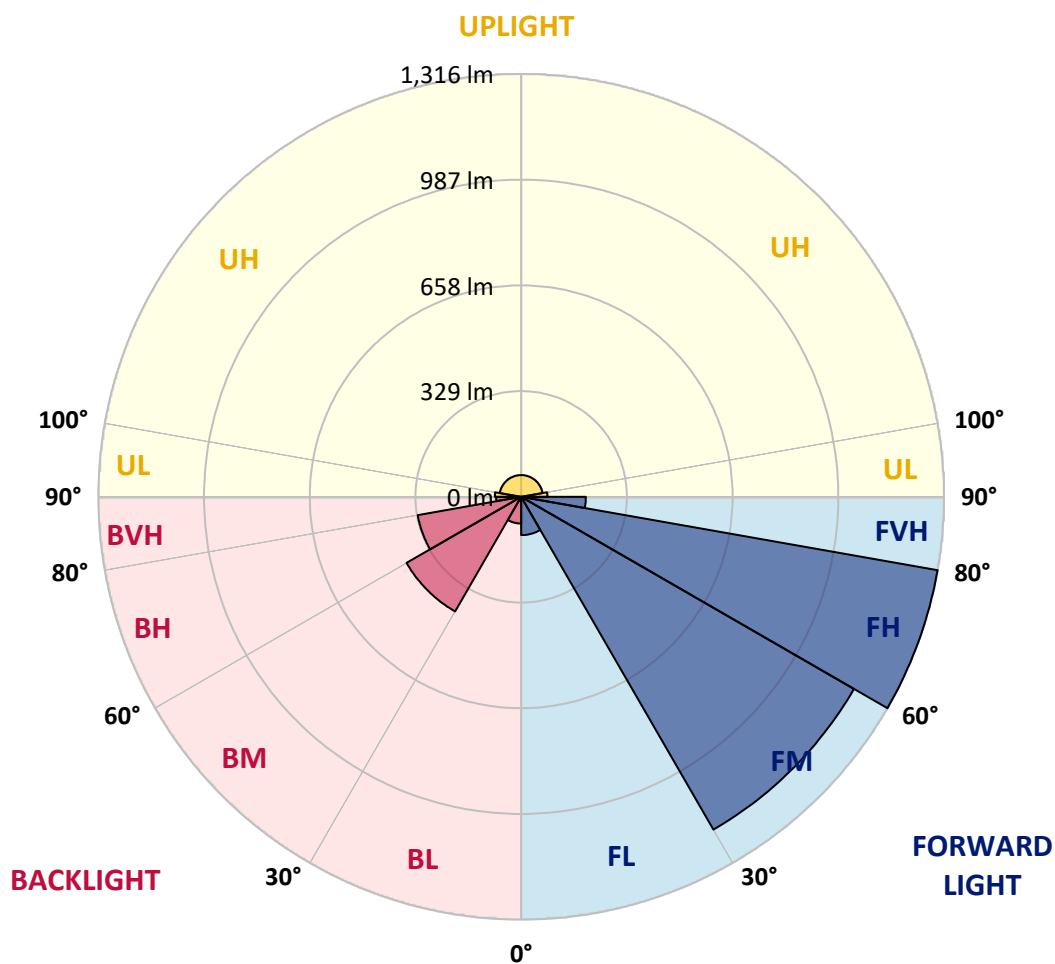
CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.2	3.1			
FM	(30°-60°)	1195.9	30.9			
FH	(60°-80°)	1316.0	34.0			G1/1800
FVH	(80°-90°)	201.2	5.2			G2/225
BL	(0°-30°)	83.2	2.1	B0/110		
BM	(30°-60°)	411.8	10.6	B1/1000		
BH	(60°-80°)	326.9	8.4	B1/500		G1/500
BVH	(80°-90°)	78.0	2.0			G1/100
UL	(90°-100°)	82.0	2.1		U3/500	
UH	(100°-180°)	67.6	1.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium



REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	105.2	105.2	104.7	104.7	104.3	103.2	101.7	100.7	100.3	100.3	99.3
5°	116.9	116.9	116.0	116.0	114.5	113.0	111.0	108.6	107.1	106.6	105.2
7.5°	132.5	132.1	131.5	130.1	128.6	125.7	123.3	120.8	117.9	117.4	115.5
10°	152.6	151.7	151.7	149.6	146.7	143.3	138.9	135.5	132.5	132.1	130.1
12.5°	178.9	178.1	176.6	172.6	168.3	162.9	159.0	155.5	152.6	151.7	149.1
15°	210.4	209.9	206.0	201.0	193.2	186.4	181.9	178.9	178.1	177.1	174.6
17.5°	249.4	247.0	243.1	233.3	223.0	213.3	209.3	209.9	210.4	210.4	208.3
20°	293.1	292.0	286.2	272.9	258.7	246.5	243.1	246.1	249.9	249.9	249.4
22.5°	350.1	347.3	336.5	318.0	297.8	285.6	280.8	287.2	297.8	298.4	300.4
25°	412.8	411.8	394.8	367.3	341.9	327.2	323.9	331.6	351.2	352.7	358.1
27.5°	482.3	479.8	464.2	425.6	392.2	370.7	369.3	386.4	407.4	414.7	422.7
30°	566.4	564.0	534.2	489.6	449.0	420.6	421.0	443.1	475.4	481.9	493.1
32.5°	653.5	651.0	620.3	564.5	510.7	475.4	476.4	509.1	546.4	554.2	566.4
35°	753.8	752.8	712.2	643.6	575.7	533.1	540.5	575.2	621.1	633.9	644.6
37.5°	862.4	851.5	811.9	732.2	647.2	600.6	606.1	652.5	706.8	712.7	723.4
40°	971.5	968.9	921.5	832.0	729.3	671.6	678.9	731.3	790.0	800.7	806.6
42.5°	1086.4	1085.4	1029.7	931.8	814.4	749.8	756.7	816.3	881.9	892.2	895.1
45°	1208.6	1201.8	1146.5	1037.0	912.8	833.0	845.2	906.9	984.1	992.4	993.9
47.5°	1313.9	1305.0	1263.4	1149.4	1008.6	923.0	932.3	1009.1	1090.3	1099.0	1095.7
50°	1408.7	1404.7	1362.7	1262.0	1113.8	1013.9	1027.1	1110.8	1202.3	1213.0	1209.6
52.5°	1470.8	1468.3	1451.3	1353.9	1206.2	1106.9	1125.5	1216.5	1324.5	1340.2	1322.1
55°	1501.7	1501.7	1505.0	1434.6	1290.8	1195.0	1223.8	1333.8	1451.7	1473.8	1448.3
57.5°	1499.1	1496.2	1524.6	1489.9	1355.9	1265.9	1322.1	1458.6	1582.3	1591.2	1577.9
60°	1443.5	1452.7	1502.7	1509.0	1402.4	1328.9	1416.0	1574.0	1707.0	1730.5	1690.5
62.5°	1354.4	1372.0	1444.9	1486.9	1415.0	1373.9	1496.8	1675.3	1823.0	1846.9	1789.6
65°	1231.7	1249.7	1339.2	1420.5	1389.7	1389.1	1552.0	1767.7	1915.5	1932.6	1855.8
67.5°	1077.6	1083.5	1186.7	1303.6	1317.6	1366.2	1578.5	1831.3	1982.4	1979.4	1879.3
69°	954.8	975.8	1077.6	1208.2	1252.2	1326.1	1573.6	1848.8	1986.4	1992.3	1855.8
70°	892.6	896.6	996.9	1129.4	1206.2	1289.8	1557.0	1845.0	1980.0	1975.6	1828.9
72.5°	693.1	700.9	792.9	937.1	1043.3	1169.5	1475.2	1779.0	1903.2	1892.0	1690.5
75°	494.5	507.7	592.3	727.7	853.6	1012.5	1324.5	1637.1	1745.2	1719.3	1491.4
77.5°	337.5	351.2	414.3	538.5	663.8	836.9	1117.1	1422.3	1496.8	1469.9	1218.9
80°	216.7	225.9	275.9	374.2	493.6	642.7	889.7	1139.7	1205.6	1157.8	931.8
82.5°	143.3	149.1	183.9	253.4	345.4	473.9	659.8	851.5	880.9	850.6	653.0
85°	96.8	100.7	125.7	172.2	242.1	333.6	467.1	592.3	616.3	574.2	435.3
87.5°	66.5	70.5	90.4	120.3	168.3	232.8	313.0	398.1	390.8	371.3	284.2
90°	47.4	51.0	65.0	85.5	118.9	161.9	208.9	252.0	251.0	231.8	181.5
92.5°	34.2	37.1	49.3	64.0	88.1	113.5	140.8	158.4	158.4	150.7	120.3
95°	25.9	27.9	37.7	48.9	66.0	84.1	98.4	107.6	105.7	99.8	87.1
97.5°	20.5	22.0	29.8	39.7	52.3	65.0	73.4	74.3	72.8	70.9	64.6
100°	17.2	18.1	24.9	33.3	43.4	52.8	56.7	55.2	53.3	52.8	49.3
102.5°	14.6	15.2	21.6	28.9	37.1	44.0	45.5	43.0	40.7	40.1	38.7
105°	13.2	13.2	18.6	24.9	31.8	36.7	37.7	34.8	31.3	30.4	29.8
107.5°	11.7	12.2	16.2	22.0	27.5	31.3	31.3	27.9	23.9	23.0	23.0



REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	10.7	10.7	14.2	19.5	23.9	26.9	26.4	22.5	18.6	17.6	18.1
112.5°	9.9	9.9	12.7	17.2	21.1	23.0	22.0	18.1	14.6	14.2	14.2
115°	9.3	9.3	11.3	15.2	18.1	19.5	18.6	14.6	11.7	11.3	11.7
117.5°	8.3	8.8	10.3	13.2	15.7	17.2	15.7	12.2	9.9	9.3	10.3
120°	7.8	8.3	9.3	11.3	13.6	14.6	12.7	10.3	8.3	8.3	8.8
122.5°	7.3	7.8	8.3	10.3	11.7	12.2	10.7	8.3	6.9	7.3	7.8
125°	7.3	7.3	7.8	8.8	10.3	10.3	8.8	6.9	6.3	6.3	6.9
127.5°	6.9	6.9	6.9	7.8	8.8	8.8	7.3	5.9	5.4	5.9	6.3
130°	6.3	6.3	6.3	6.9	7.3	7.3	6.3	4.9	4.9	4.9	5.4
132.5°	5.9	5.9	5.9	5.9	6.3	5.9	4.9	4.0	4.4	4.4	4.9
135°	5.4	5.4	5.4	5.4	4.9	4.4	3.4	3.4	4.0	4.0	4.4
137.5°	4.9	4.9	4.9	4.4	4.0	3.4	2.9	2.9	3.4	3.4	4.0
140°	4.4	4.4	4.4	3.4	2.9	2.4	1.9	1.9	2.9	2.9	2.9
142.5°	4.0	4.0	3.4	2.9	2.4	1.4	1.0	1.4	1.9	1.9	2.4
145°	2.9	2.9	2.9	2.4	1.4	1.0	0.4	1.0	1.4	1.4	1.9
147.5°	2.4	2.4	2.4	1.9	1.0	0.4	0.4	0.4	1.0	1.0	1.4
150°	1.9	1.9	1.4	1.4	0.4	0.0	0.0	0.4	0.4	1.0	1.0
152.5°	1.4	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
155°	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	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: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	98.8	98.4	97.8	96.8	96.3	95.4	94.4	93.4	93.4	93.4	93.0
5°	104.7	103.7	102.2	100.3	98.8	97.4	95.8	94.4	94.0	93.4	93.4
7.5°	113.9	113.0	110.1	107.6	104.7	102.7	100.3	99.3	98.4	97.8	97.8
10°	128.2	126.2	122.3	118.3	114.9	111.0	108.6	107.1	105.7	105.2	105.7
12.5°	147.3	143.7	138.9	133.1	127.2	122.3	119.3	117.9	117.4	116.9	116.9
15°	173.6	171.2	161.3	151.1	142.8	136.0	132.1	130.6	133.6	134.5	134.5
17.5°	207.9	203.4	191.7	177.5	160.4	150.1	147.3	149.6	152.1	155.0	155.5
20°	250.4	243.1	228.0	205.0	181.9	167.2	164.9	167.8	173.6	177.5	178.1
22.5°	296.8	292.0	268.6	234.3	203.4	186.4	181.0	185.4	194.7	200.1	200.5
25°	356.6	348.7	313.6	266.6	225.9	202.0	195.7	202.0	213.3	221.6	222.1
27.5°	421.6	409.4	363.4	298.9	245.1	215.2	207.4	215.7	230.9	240.7	241.7
30°	489.2	472.0	412.8	329.2	262.2	224.0	215.7	225.9	243.1	254.3	255.7
32.5°	560.1	539.5	458.4	355.6	273.4	228.9	220.1	232.2	250.4	262.2	263.7
35°	632.4	606.5	500.9	374.6	278.8	229.9	220.6	234.3	252.0	264.1	265.6
37.5°	708.8	670.7	538.0	387.9	279.8	226.9	218.6	232.2	249.0	260.2	261.2
40°	782.7	733.2	569.4	393.8	276.3	222.6	213.7	228.0	242.1	250.4	251.4
42.5°	863.8	800.7	596.8	393.8	269.6	217.2	208.3	221.6	232.8	238.7	239.2
45°	946.5	868.2	618.3	388.9	260.7	210.4	203.0	214.7	223.6	225.9	225.9
47.5°	1041.9	939.1	638.3	380.6	251.0	203.4	197.6	208.3	214.7	214.7	215.2
50°	1137.7	1013.5	653.5	368.8	239.8	197.6	193.2	203.4	208.3	205.4	205.4
52.5°	1241.4	1089.8	667.7	353.7	229.5	192.2	190.2	201.0	204.5	200.1	199.1
55°	1346.1	1161.7	670.7	334.6	217.7	187.8	188.8	199.1	202.4	197.6	197.1
57.5°	1458.1	1235.5	670.1	312.6	207.4	184.4	187.4	198.7	202.0	197.1	196.6
60°	1544.7	1293.7	654.5	289.5	198.1	181.0	186.9	198.1	202.0	198.1	198.1
62.5°	1622.9	1327.9	625.1	265.1	189.3	178.5	185.4	197.1	201.0	199.1	199.1
65°	1658.7	1337.8	580.0	241.1	181.9	175.6	184.4	195.7	200.1	199.6	200.1
67.5°	1636.6	1292.3	520.4	219.6	175.2	172.2	181.9	193.2	198.1	199.1	199.6
69°	1598.5	1241.4	483.3	208.3	171.2	169.7	180.0	190.7	196.6	198.1	198.1
70°	1564.7	1197.9	452.5	201.5	168.3	168.3	178.9	189.3	195.1	196.6	197.1
72.5°	1401.4	1056.0	382.5	183.4	161.9	163.4	174.2	184.4	190.7	192.2	192.2
75°	1200.8	866.2	311.6	168.3	154.6	158.0	168.3	178.1	183.9	185.4	184.8
77.5°	956.2	671.6	252.8	155.0	146.3	149.6	160.4	169.7	175.6	176.6	174.6
80°	713.7	489.6	205.0	141.4	136.5	140.8	150.7	158.4	164.3	164.9	161.9
82.5°	494.5	353.7	166.8	128.2	125.7	129.2	137.8	144.8	150.1	148.7	147.3
85°	329.6	242.5	136.5	113.5	113.5	117.4	123.8	128.2	133.6	131.5	128.6
87.5°	217.2	167.2	112.0	99.3	100.3	103.7	108.6	110.1	114.9	113.5	110.1
90°	147.3	120.3	92.0	85.5	87.1	90.4	93.0	93.0	96.3	94.0	92.5
92.5°	104.7	92.0	76.8	73.9	75.3	78.2	78.7	76.8	79.8	78.2	76.3
95°	78.7	72.4	65.0	63.6	65.5	67.5	66.9	64.0	65.0	64.0	63.6
97.5°	61.1	59.2	55.2	54.3	56.3	57.7	56.7	53.3	53.7	52.8	51.9
100°	49.3	48.0	47.0	47.0	48.4	48.9	47.4	44.5	44.0	42.5	43.0
102.5°	39.2	39.2	39.7	40.7	41.6	41.6	39.7	37.1	36.2	34.8	34.8
105°	30.8	31.3	33.3	33.8	34.8	34.8	32.8	30.8	28.9	27.5	27.5
107.5°	23.9	24.9	26.9	28.4	29.4	28.9	27.5	25.4	23.0	21.6	21.6



REPORT NUMBER: P240417

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.1	20.1	22.0	23.9	24.5	24.5	23.0	20.5	17.6	17.2	17.2
112.5°	15.7	16.2	18.6	20.1	20.5	20.5	19.1	17.2	14.2	13.6	13.6
115°	12.7	13.2	15.2	16.6	17.2	17.2	16.2	14.2	11.3	11.3	11.3
117.5°	10.7	11.3	12.7	14.2	14.6	14.6	13.2	11.3	9.3	9.3	9.3
120°	9.3	9.9	10.7	11.7	12.2	12.2	11.3	9.3	7.8	7.8	7.8
122.5°	8.3	8.8	9.3	10.3	10.7	10.7	9.3	7.3	6.9	6.9	6.9
125°	7.3	7.8	8.3	8.8	9.3	8.8	7.8	6.3	5.9	6.3	6.3
127.5°	6.3	6.9	7.3	7.3	7.8	7.3	6.3	5.4	4.9	5.4	5.4
130°	5.9	5.9	6.3	6.3	6.9	6.3	5.4	4.4	4.4	4.9	4.9
132.5°	5.4	5.4	5.4	5.4	5.9	5.4	4.4	3.4	4.0	4.4	4.4
135°	4.4	4.4	4.9	4.4	4.9	4.0	3.4	2.9	3.4	4.0	4.0
137.5°	4.0	4.0	4.0	4.0	3.4	3.4	2.4	2.4	2.9	3.4	2.9
140°	3.4	3.4	3.4	2.9	2.9	2.4	1.9	1.9	2.4	2.4	2.4
142.5°	2.4	2.4	2.4	2.4	1.9	1.4	1.0	1.4	1.4	1.9	1.9
145°	1.9	1.9	1.9	1.4	1.0	1.0	0.4	1.0	1.0	1.4	1.4
147.5°	1.4	1.4	1.4	1.0	1.0	0.4	0.4	0.4	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.4	0.4	0.4
152.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	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

(END OF REPORT)