

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: P240153

Luminaire Tested: **UTLD-AF24-100-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7115 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 96
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

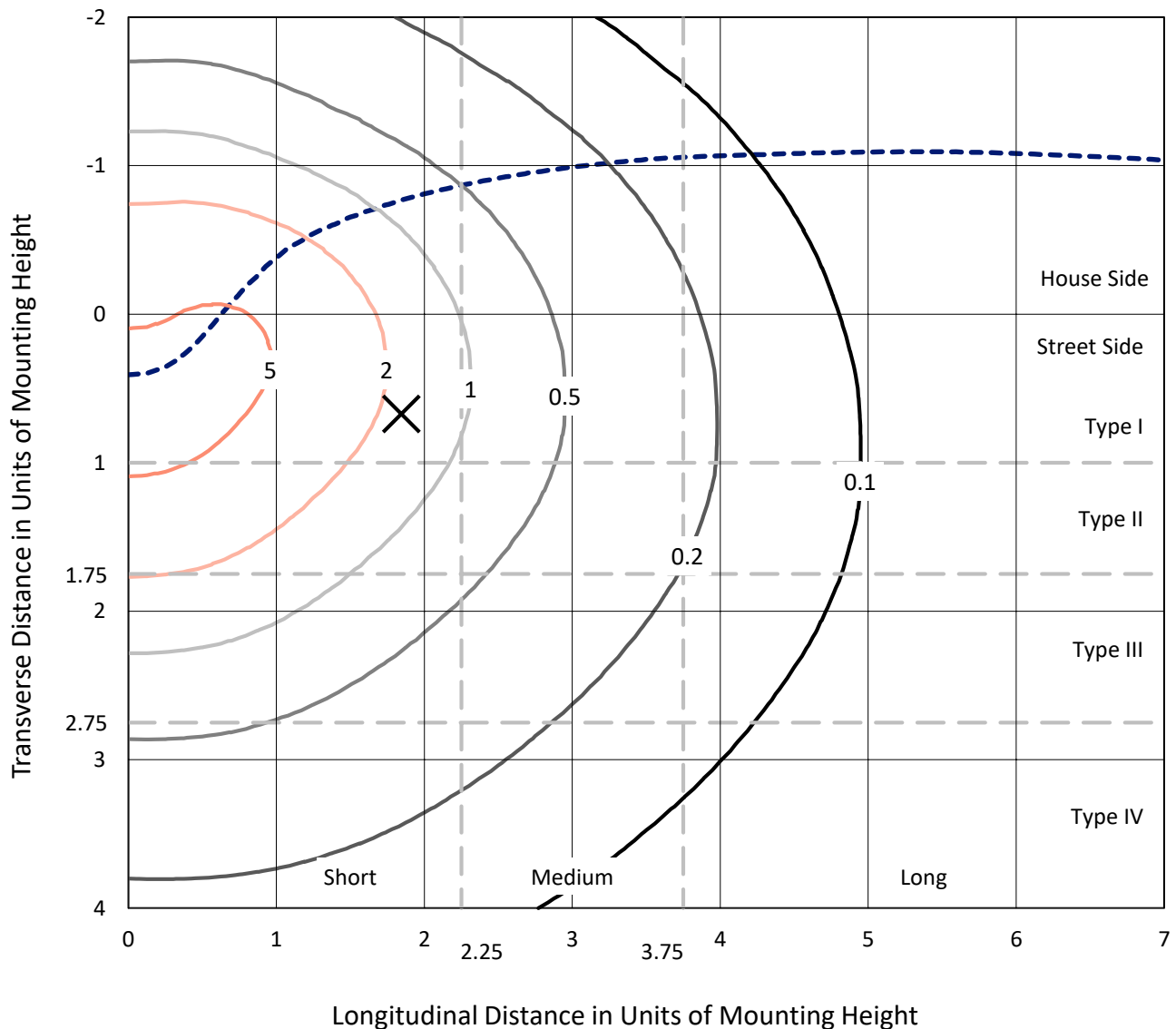


REPORT NUMBER: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

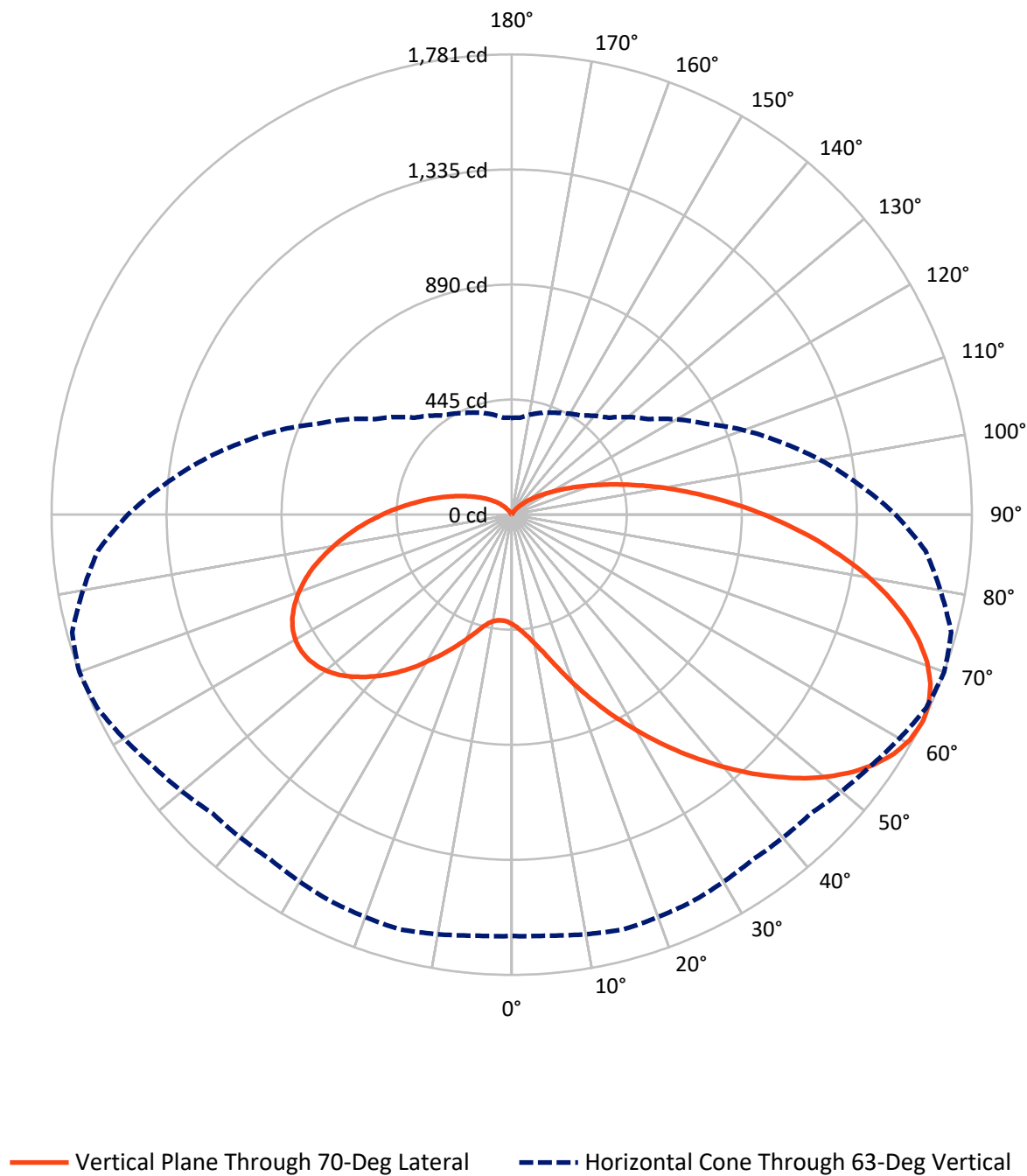


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240153

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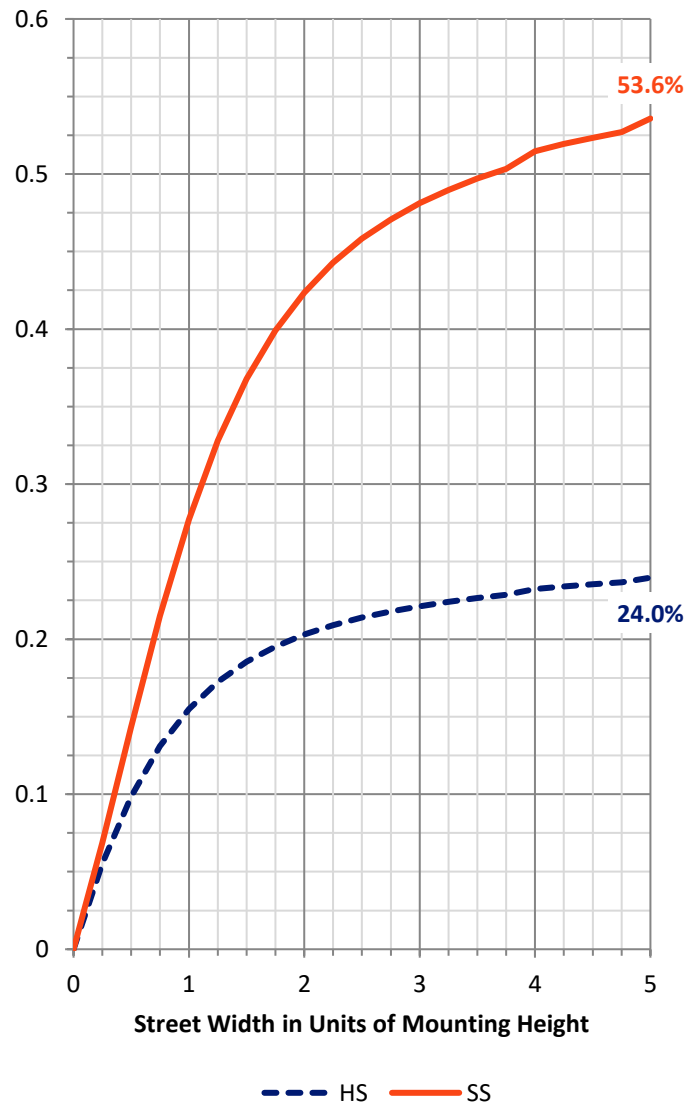
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.6	411.7	2230.3
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	4111.2	773.5	4884.7
	% Fixture	57.8	10.9	68.7
Total	Lumens	5929.8	1185.2	7115.0
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	0.6
10°-20°	148.4	2.1
20°-30°	318.9	4.5
30°-40°	555.7	7.8
40°-50°	825.7	11.6
50°-60°	1054.3	14.8
60°-70°	1143.1	16.1
70°-80°	1040.9	14.6
80°-90°	800.7	11.3
90°-100°	537.1	7.5
100°-110°	325.5	4.6
110°-120°	181.7	2.6
120°-130°	92.2	1.3
130°-140°	38.2	0.5
140°-150°	9.7	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5929.8	83.3
0°-180°	7115.0	100.0

Coefficient of Utilization



REPORT NUMBER: P240153

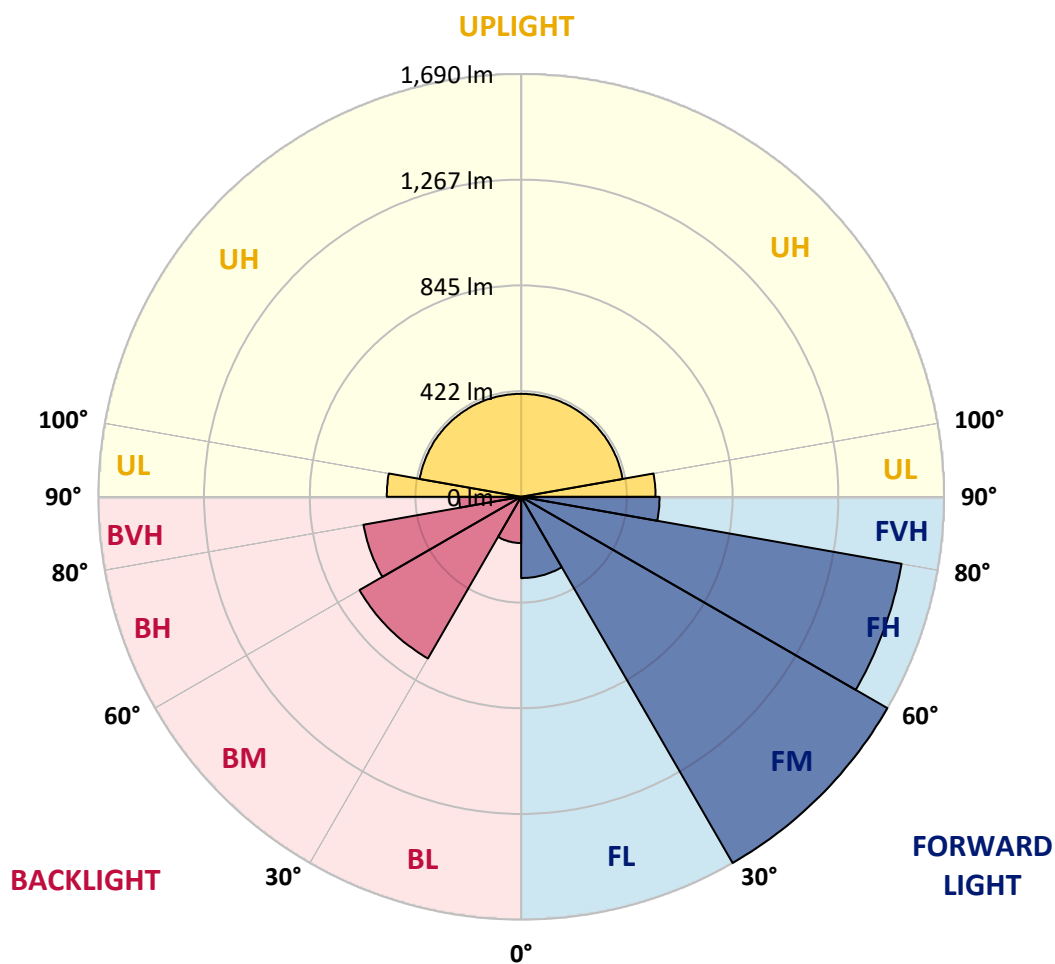
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.7	4.6			
FM	(30°-60°)	1689.8	23.8			
FH	(60°-80°)	1543.7	21.7			G1/1800
FVH	(80°-90°)	552.9	7.8			G4/750
BL	(0°-30°)	184.8	2.6	B1/500		
BM	(30°-60°)	745.8	10.5	B1/1000		
BH	(60°-80°)	640.2	9.0	B2/1000		G2/1000
BVH	(80°-90°)	247.9	3.5			G3/500
UL	(90°-100°)	537.1	7.5		U4/1000	
UH	(100°-180°)	411.7	5.8		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6
2.5°	459.2	459.2	458.3	457.4	454.5	450.8	445.1	441.4	437.7	434.9	429.3
5°	498.4	500.3	496.6	494.7	488.2	480.7	472.3	461.9	457.4	450.8	439.6
7.5°	540.5	542.4	538.6	533.9	525.5	514.4	501.3	488.2	479.7	471.4	454.5
10°	587.3	588.3	583.6	578.0	567.7	553.6	539.6	520.0	510.6	499.5	476.9
12.5°	639.7	637.8	634.0	624.8	612.5	597.5	578.8	559.3	546.2	533.0	505.0
15°	699.5	698.6	692.0	680.8	665.8	649.0	626.6	605.1	591.9	578.0	544.3
17.5°	762.2	760.3	753.8	740.7	724.8	703.3	686.4	661.2	645.2	630.3	591.9
20°	824.8	824.0	819.2	804.2	786.4	769.6	747.3	721.0	705.2	684.6	640.6
22.5°	896.8	894.1	886.5	873.5	858.6	841.7	818.4	785.6	767.8	748.2	695.8
25°	968.9	967.9	958.5	944.5	932.4	913.7	891.2	852.9	835.2	808.0	751.9
27.5°	1043.7	1041.8	1032.5	1017.5	1008.1	990.3	962.3	924.9	903.3	877.3	814.5
30°	1121.3	1120.4	1109.1	1094.2	1083.9	1067.0	1038.1	997.9	976.3	947.4	877.3
32.5°	1198.9	1198.9	1187.6	1174.6	1162.4	1141.0	1113.8	1075.4	1052.0	1021.2	942.7
35°	1280.3	1275.6	1267.2	1255.1	1235.4	1213.9	1189.7	1155.0	1130.7	1097.0	1013.7
37.5°	1357.0	1357.0	1342.9	1332.6	1311.1	1286.8	1264.3	1235.4	1208.3	1175.5	1083.0
40°	1432.7	1433.7	1420.6	1407.5	1379.4	1357.0	1337.4	1314.0	1289.6	1255.9	1158.7
42.5°	1505.7	1503.9	1491.6	1476.6	1445.8	1420.6	1408.4	1388.8	1370.9	1335.4	1231.7
45°	1573.0	1568.3	1559.0	1541.2	1505.7	1480.5	1475.8	1466.4	1447.6	1415.9	1305.5
47.5°	1625.3	1622.6	1618.7	1595.4	1559.0	1534.6	1534.6	1538.4	1524.3	1491.6	1374.7
50°	1668.4	1667.4	1665.5	1639.4	1600.1	1581.4	1588.8	1602.0	1592.7	1563.6	1436.4
52.5°	1697.4	1696.5	1699.2	1672.1	1633.8	1616.9	1634.7	1661.0	1653.4	1627.2	1495.4
55°	1708.6	1708.6	1717.0	1691.8	1653.4	1640.3	1669.4	1705.7	1704.9	1681.5	1540.2
57.5°	1703.9	1704.9	1719.8	1696.5	1661.0	1653.4	1691.8	1741.4	1745.1	1721.7	1577.7
60°	1682.4	1683.3	1703.9	1686.2	1655.3	1653.4	1702.0	1762.9	1770.3	1749.8	1599.2
62.5°	1641.3	1645.0	1670.2	1659.0	1633.8	1640.3	1698.3	1769.4	1779.8	1760.0	1607.6
63°	1630.0	1634.7	1661.9	1651.6	1628.2	1635.6	1695.4	1769.4	1780.6	1760.9	1607.6
65°	1584.3	1589.8	1620.7	1616.1	1599.2	1613.2	1679.7	1759.1	1773.2	1755.4	1599.2
67.5°	1510.3	1521.6	1557.1	1560.9	1552.5	1574.0	1646.9	1733.0	1747.9	1731.1	1574.0
70°	1421.5	1434.6	1480.5	1491.6	1489.8	1521.6	1599.2	1688.9	1704.9	1688.0	1530.9
72.5°	1326.1	1343.9	1386.0	1410.3	1422.4	1457.1	1540.2	1629.2	1645.0	1627.2	1473.9
75°	1222.3	1240.9	1293.4	1323.3	1342.0	1385.1	1467.4	1556.2	1570.2	1556.2	1401.9
77.5°	1118.5	1137.2	1190.5	1228.8	1257.8	1309.3	1390.7	1472.0	1482.3	1467.4	1317.6
80°	1011.8	1033.4	1084.8	1129.7	1169.0	1220.4	1299.0	1372.9	1385.1	1365.4	1227.0
82.5°	906.2	924.9	982.9	1035.2	1077.3	1128.7	1203.6	1272.8	1278.5	1258.7	1126.9
85°	810.8	826.8	883.8	939.8	989.5	1039.9	1109.1	1164.2	1172.8	1147.4	1027.8
87.5°	721.0	733.2	793.0	848.2	898.7	954.8	1016.5	1060.5	1060.5	1040.9	924.0
90°	637.8	646.3	700.5	761.2	815.5	865.0	923.0	960.5	955.8	931.4	826.8
92.5°	557.3	567.7	620.9	678.9	734.1	785.6	832.3	857.5	851.0	825.8	733.2
95°	491.0	495.6	548.1	607.9	658.4	705.2	746.2	764.0	753.8	728.5	640.6
97.5°	430.2	434.0	479.7	536.8	591.1	634.0	662.1	673.4	663.1	637.8	564.9
100°	380.7	381.6	422.8	477.9	528.4	565.8	591.1	591.1	581.7	556.4	490.0
102.5°	332.0	333.9	367.5	422.8	470.4	503.1	522.8	520.9	504.1	478.8	425.6
105°	292.7	294.6	320.7	374.1	417.2	447.0	462.9	451.7	435.8	413.3	368.4
107.5°	258.1	259.1	279.6	327.3	368.4	396.5	405.0	392.8	375.0	353.5	321.7



REPORT NUMBER: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	231.0	230.1	246.0	287.2	326.3	349.7	354.4	339.5	321.7	304.0	277.7
112.5°	204.9	204.9	215.1	249.6	286.2	308.6	310.6	289.0	274.0	258.1	241.3
115°	183.3	182.4	189.9	217.0	250.6	269.4	267.4	247.8	233.9	220.7	209.4
117.5°	164.6	162.7	168.4	187.1	217.9	235.7	231.0	208.5	198.3	188.9	182.4
120°	147.7	146.9	149.6	162.7	187.1	201.0	196.3	176.8	167.3	162.7	159.0
122.5°	132.8	132.8	131.8	140.3	159.0	170.2	163.7	147.7	142.1	139.3	139.3
125°	119.7	119.7	117.8	120.6	132.8	142.1	136.6	123.5	119.7	119.7	120.6
127.5°	106.6	106.6	104.8	103.8	109.4	116.0	109.4	101.9	100.9	101.9	103.8
130°	94.5	93.5	91.7	88.0	88.8	91.7	87.0	83.2	84.1	87.0	88.8
132.5°	83.2	82.3	79.5	73.9	70.2	70.2	66.4	66.4	69.2	72.0	75.7
135°	72.0	71.1	68.3	61.7	55.1	51.5	48.6	52.3	56.2	58.9	62.6
137.5°	60.7	59.9	56.2	49.6	41.2	35.5	34.6	40.2	43.9	47.7	50.5
140°	49.6	48.6	44.9	38.4	29.0	22.4	22.4	29.9	33.7	36.5	40.2
142.5°	39.3	38.4	35.5	28.1	18.7	13.9	15.0	21.6	24.4	27.1	29.9
145°	29.0	29.0	26.2	19.6	11.3	6.5	8.4	13.9	16.8	18.7	21.6
147.5°	19.6	19.6	16.8	12.1	6.5	2.8	3.8	8.4	10.3	12.1	13.9
150°	12.1	12.1	10.3	6.5	2.8	0.0	1.8	3.8	5.6	6.5	8.4
152.5°	6.5	6.5	4.7	2.8	1.0	0.0	0.0	1.8	1.8	2.8	3.8
155°	2.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	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: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6
2.5°	426.4	423.6	417.2	412.5	406.8	402.2	399.4	394.7	391.8	392.8	391.8
5°	434.0	428.3	416.2	405.9	394.7	385.2	377.8	371.3	367.5	364.7	365.7
7.5°	446.1	437.7	419.9	403.0	386.2	372.2	361.0	352.6	345.0	343.2	342.3
10°	464.8	453.5	428.3	405.9	384.4	364.7	349.7	337.6	330.1	326.3	326.3
12.5°	491.0	475.1	443.3	413.3	386.2	361.8	343.2	328.3	319.8	316.1	315.2
15°	527.5	507.8	468.5	428.3	393.8	364.7	342.3	327.3	320.7	318.9	318.0
17.5°	569.6	548.1	499.5	452.7	408.6	372.2	350.7	338.6	331.0	327.3	326.3
20°	617.2	589.1	533.9	479.7	430.2	391.8	367.5	350.7	341.3	336.6	335.8
22.5°	665.8	635.1	571.4	508.7	454.5	419.0	384.4	363.9	350.7	345.0	343.2
25°	718.3	683.6	609.7	539.6	484.4	444.2	405.0	375.0	360.0	353.5	353.5
27.5°	774.3	734.1	650.0	571.4	515.2	467.6	424.6	387.3	369.4	361.8	361.0
30°	833.2	788.5	691.1	606.1	544.3	489.2	441.4	400.2	378.8	370.4	369.4
32.5°	896.8	845.4	737.0	643.4	571.4	508.7	456.3	412.5	387.3	376.8	376.0
35°	959.6	901.5	780.0	679.9	595.7	525.5	468.5	424.6	393.8	383.4	382.5
37.5°	1028.6	961.4	825.8	715.4	618.2	538.6	478.8	434.0	400.2	389.1	387.3
40°	1095.1	1020.3	868.8	747.3	636.9	550.8	487.2	442.4	405.9	393.8	391.8
42.5°	1160.6	1080.1	911.8	777.2	652.8	558.4	492.9	448.0	411.5	397.4	394.7
45°	1226.0	1136.3	955.8	801.4	665.0	564.9	496.6	452.7	416.2	399.4	397.4
47.5°	1286.8	1191.5	996.0	822.9	673.4	567.7	498.4	454.5	419.9	400.2	397.4
50°	1344.8	1239.1	1029.7	838.9	678.9	567.7	498.4	455.4	421.7	400.2	398.4
52.5°	1395.4	1280.3	1056.7	849.2	679.9	564.9	495.6	454.5	421.7	398.4	395.6
55°	1433.7	1314.0	1076.4	853.9	677.1	560.2	491.0	451.7	420.8	395.6	392.8
57.5°	1464.5	1337.4	1088.5	852.9	670.6	552.8	485.3	448.0	418.0	390.9	388.1
60°	1483.2	1349.5	1090.4	846.3	661.2	543.3	477.9	442.4	414.3	386.2	382.5
62.5°	1486.0	1348.6	1083.9	833.2	647.2	532.1	468.5	434.9	407.7	378.8	375.0
63°	1485.1	1347.6	1080.1	830.5	644.3	530.2	467.6	434.0	406.8	376.8	374.1
65°	1474.8	1336.4	1066.2	815.5	631.3	519.0	459.2	426.4	401.2	371.3	366.6
67.5°	1447.6	1311.1	1039.9	790.3	611.7	504.1	447.0	417.2	391.8	361.8	357.3
70°	1406.5	1275.6	1004.4	762.2	591.1	488.2	434.0	405.0	381.6	351.6	346.1
72.5°	1351.3	1224.1	963.2	729.5	566.7	470.4	419.0	391.8	368.4	340.5	332.0
75°	1285.0	1164.2	917.4	693.9	540.5	451.7	404.0	378.8	355.4	327.3	318.9
77.5°	1205.4	1096.1	860.4	656.5	515.2	432.0	387.3	362.8	340.5	312.4	304.0
80°	1120.4	1020.3	803.4	614.5	487.2	411.5	370.4	346.1	323.6	297.4	287.2
82.5°	1030.6	939.0	742.5	574.1	459.2	389.9	352.6	328.3	306.7	281.5	272.2
85°	939.8	857.5	683.6	533.9	430.2	369.4	333.9	311.4	288.0	263.8	254.3
87.5°	850.1	778.0	626.6	491.8	403.0	348.9	315.2	292.7	269.4	246.0	238.5
90°	764.0	701.5	566.7	452.7	375.0	326.3	296.4	274.0	251.6	228.3	220.7
92.5°	678.1	623.8	512.5	417.2	348.9	305.8	277.7	255.3	231.9	209.4	204.9
95°	601.4	554.6	461.1	378.8	323.6	286.2	259.1	237.5	213.3	191.7	188.9
97.5°	529.4	489.2	410.6	346.1	298.3	264.6	240.4	217.9	193.6	173.9	172.1
100°	464.8	432.0	367.5	312.4	273.0	245.1	222.6	200.2	175.8	159.0	157.2
102.5°	405.9	379.6	327.3	282.4	250.6	225.4	202.9	181.5	158.1	143.1	143.1
105°	355.4	332.0	289.9	254.3	227.3	204.9	184.2	162.7	139.3	127.2	127.2
107.5°	307.7	291.8	257.2	227.3	205.7	186.1	166.5	145.0	122.5	113.2	114.0



REPORT NUMBER: P240153

CATALOG NUMBER: UTLD-AF24-100-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	268.4	255.3	226.2	203.9	186.1	168.4	149.6	128.2	106.6	100.1	100.9
112.5°	233.9	223.6	199.2	181.5	166.5	151.6	132.8	111.3	92.6	88.8	89.8
115°	203.9	195.5	176.8	160.8	148.7	134.7	117.8	96.3	80.5	78.5	78.5
117.5°	177.6	171.1	155.2	143.1	131.8	119.7	102.9	83.2	69.2	69.2	69.2
120°	156.1	150.6	137.4	126.3	116.9	104.8	88.8	70.2	59.9	60.7	60.7
122.5°	135.6	131.8	119.7	111.3	101.9	91.7	75.7	58.0	51.5	53.3	54.2
125°	118.8	115.0	105.7	96.3	88.0	77.6	62.6	48.6	44.9	46.8	46.8
127.5°	101.9	100.1	91.7	83.2	75.7	65.4	51.5	40.2	39.3	41.2	41.2
130°	88.0	86.0	79.5	70.2	62.6	53.3	41.2	32.8	32.8	34.6	34.6
132.5°	74.9	73.9	67.3	58.9	51.5	42.1	32.8	26.2	28.1	29.9	29.9
135°	61.7	61.7	56.2	47.7	40.2	31.8	24.4	21.6	23.4	25.2	25.2
137.5°	50.5	49.6	44.9	37.3	29.9	23.4	17.8	16.8	19.6	21.6	21.6
140°	40.2	39.3	35.5	29.0	21.6	16.0	12.1	13.1	16.0	16.8	17.8
142.5°	29.9	29.9	26.2	21.6	13.9	9.4	7.4	10.3	12.1	13.1	13.9
145°	21.6	21.6	18.7	13.9	8.4	4.7	4.7	7.4	9.4	10.3	10.3
147.5°	13.9	13.9	12.1	8.4	4.7	1.8	2.8	4.7	6.5	7.4	7.4
150°	8.4	7.4	6.5	3.8	1.8	0.0	1.0	1.8	3.8	4.7	3.8
152.5°	3.8	3.8	2.8	1.8	1.0	0.0	0.0	0.0	1.0	1.8	1.8
155°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)