

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: P240313

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6644 lumens
Efficiency: N/A
Efficacy: 80.0 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 - G3

Input Watts (W): 83
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

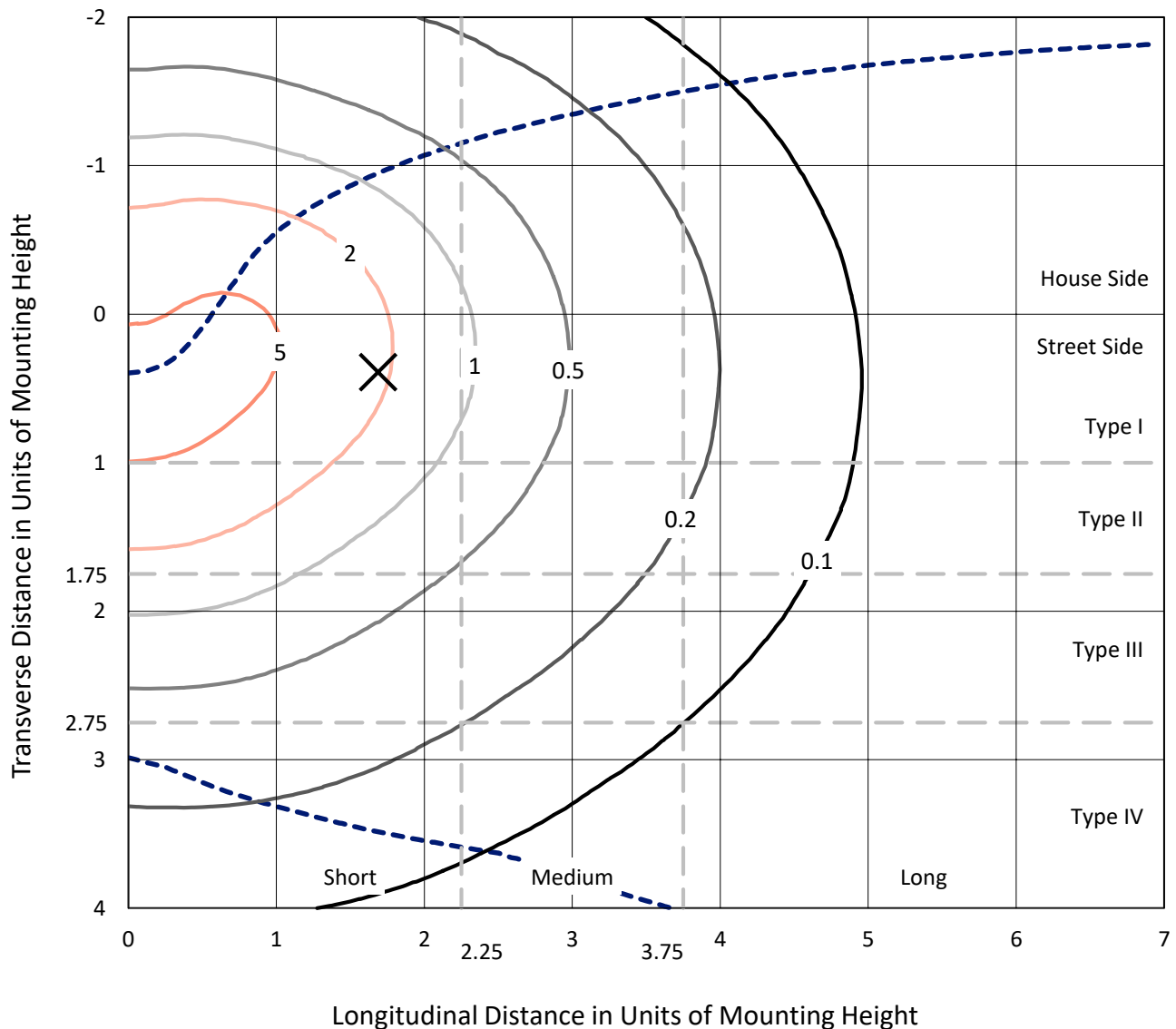


REPORT NUMBER: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

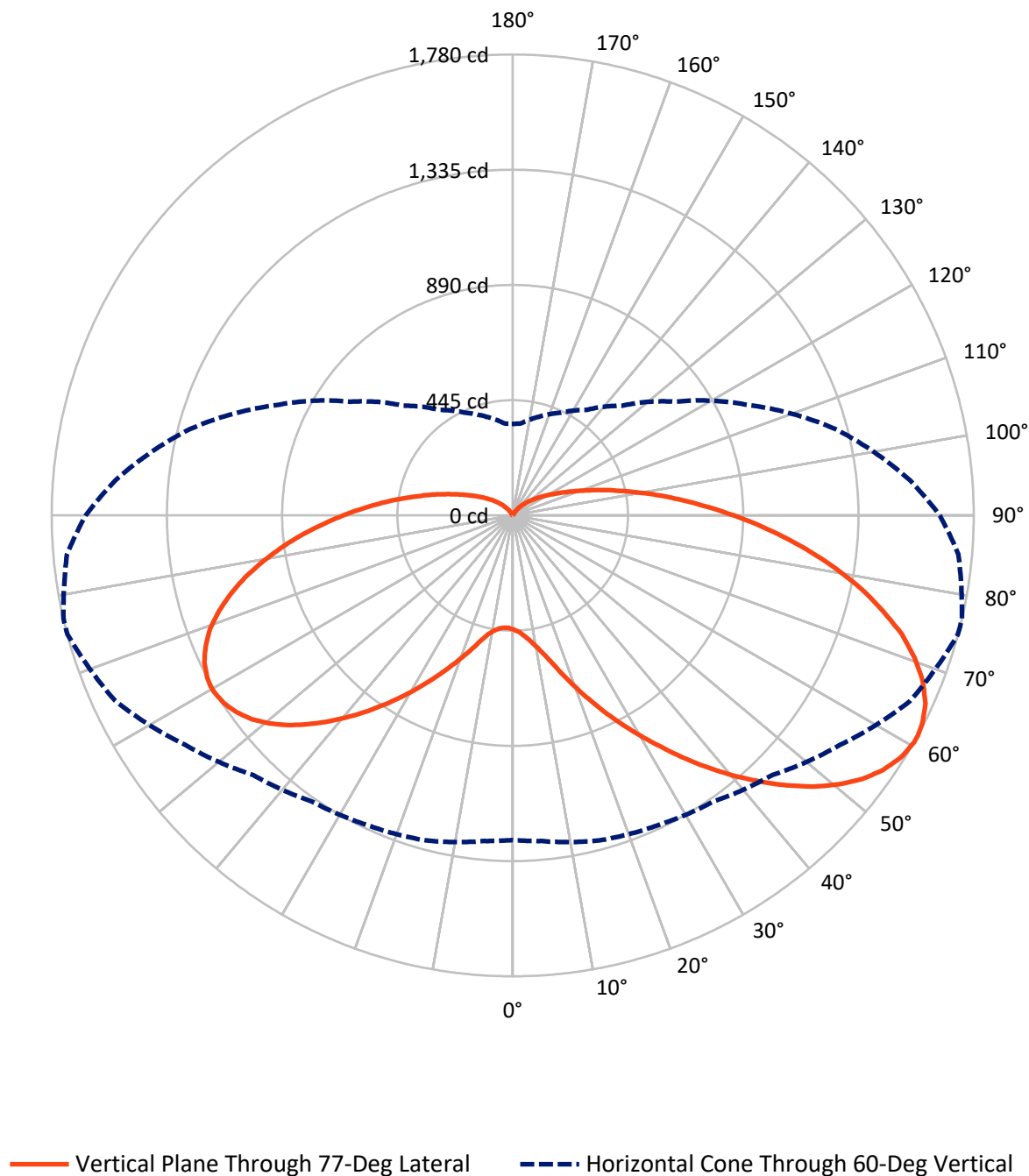


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240313

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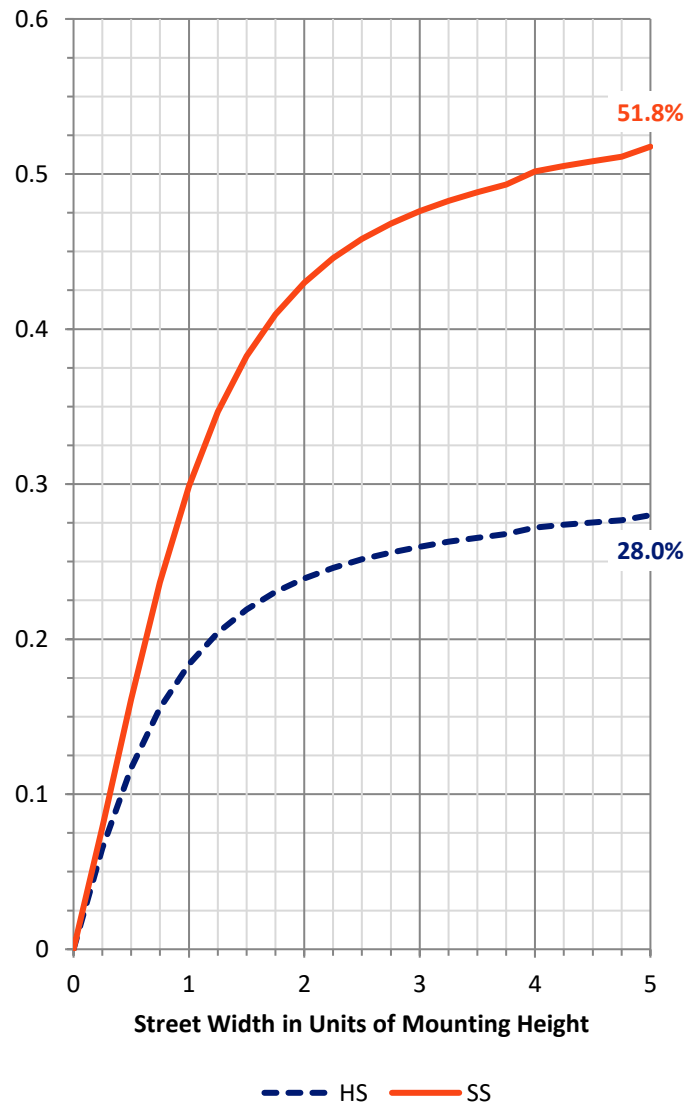
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.8	424.4	2400.2
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	3644.9	598.9	4243.8
	% Fixture	54.9	9.0	63.9
Total	Lumens	5620.8	1023.3	6644.0
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	0.7
10°-20°	154.7	2.3
20°-30°	331.5	5.0
30°-40°	571.5	8.6
40°-50°	829.8	12.5
50°-60°	1021.1	15.4
60°-70°	1058.1	15.9
70°-80°	922.5	13.9
80°-90°	687.6	10.3
90°-100°	454.6	6.8
100°-110°	277.4	4.2
110°-120°	158.9	2.4
120°-130°	84.0	1.3
130°-140°	37.1	0.6
140°-150°	10.3	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5620.8	84.6
0°-180°	6644.0	100.0

Coefficient of Utilization



REPORT NUMBER: P240313

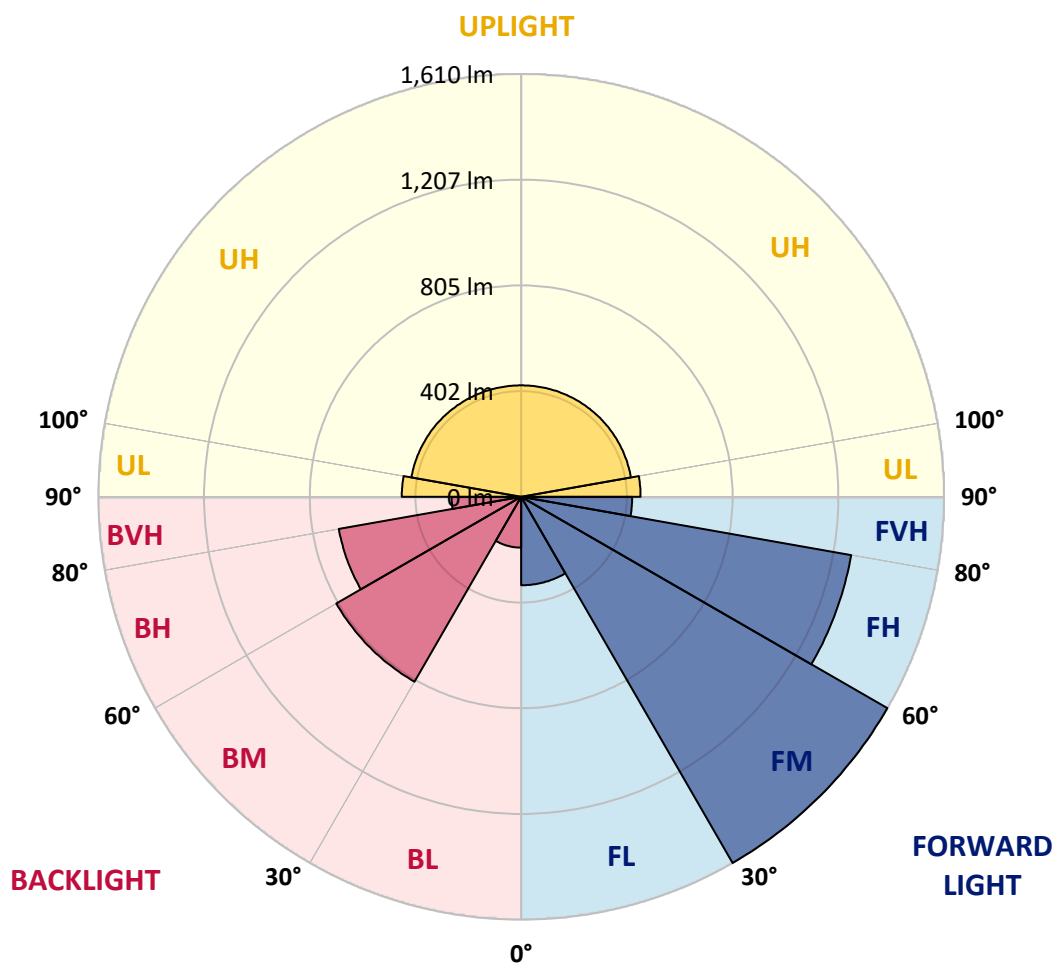
CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.7	5.1			
FM	(30°-60°)	1609.7	24.2			
FH	(60°-80°)	1275.9	19.2			G1/1800
FVH	(80°-90°)	422.7	6.4			G3/500
BL	(0°-30°)	193.5	2.9	B1/500		
BM	(30°-60°)	812.7	12.2	B1/1000		
BH	(60°-80°)	704.7	10.6	B2/1000		G2/1000
BVH	(80°-90°)	264.9	4.0			G3/500
UL	(90°-100°)	454.6	6.8		U3/500	
UH	(100°-180°)	424.4	6.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





REPORT NUMBER: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
2.5°	479.0	479.0	477.3	476.4	472.9	468.6	464.3	458.3	452.3	450.4	447.0
5°	520.4	520.4	518.7	514.4	508.3	500.5	491.0	481.5	469.5	466.9	457.4
7.5°	566.9	565.3	560.9	556.6	548.1	536.8	523.8	509.1	492.8	489.4	475.5
10°	613.6	613.6	609.2	602.3	591.9	577.3	561.8	543.7	522.1	517.8	499.7
12.5°	667.1	665.4	658.5	653.3	641.3	624.9	607.6	585.1	559.2	554.9	531.6
15°	724.1	723.2	717.2	706.0	692.1	676.7	658.5	634.2	606.7	599.9	573.9
17.5°	787.9	782.8	779.2	767.2	752.6	732.7	718.9	693.8	663.6	655.9	624.0
20°	846.6	847.5	839.6	829.4	815.5	801.8	781.9	759.5	726.7	716.3	680.0
22.5°	913.1	913.1	905.3	895.0	881.0	874.2	851.7	828.5	788.8	780.9	740.4
25°	982.1	979.5	971.8	962.2	955.4	946.7	926.0	898.3	857.8	850.0	804.3
27.5°	1045.9	1046.8	1037.3	1029.6	1028.6	1017.4	1000.2	970.9	932.1	920.8	871.7
30°	1111.5	1112.4	1105.4	1096.0	1096.9	1090.0	1075.3	1045.1	1008.0	995.1	942.4
32.5°	1177.2	1175.4	1165.9	1165.0	1162.4	1157.3	1146.0	1127.1	1086.5	1072.7	1018.3
35°	1235.8	1235.8	1226.3	1229.8	1224.6	1223.7	1220.3	1205.5	1169.4	1155.5	1096.9
37.5°	1290.2	1289.4	1284.2	1285.0	1281.5	1280.7	1286.7	1285.0	1251.3	1240.1	1179.7
40°	1340.3	1335.0	1330.8	1334.2	1330.8	1335.9	1350.6	1361.0	1332.4	1323.7	1262.6
42.5°	1374.7	1373.1	1371.3	1377.3	1372.2	1384.2	1407.6	1432.6	1415.4	1406.7	1345.4
45°	1402.4	1398.9	1402.4	1408.5	1405.0	1420.5	1461.9	1499.9	1499.9	1487.8	1424.8
47.5°	1413.6	1412.7	1421.4	1426.5	1424.8	1449.9	1505.0	1562.9	1575.0	1565.4	1501.7
50°	1411.0	1411.0	1424.8	1432.6	1434.2	1467.2	1537.0	1613.0	1640.5	1632.8	1569.8
52.5°	1394.5	1394.5	1415.4	1424.8	1431.8	1473.2	1558.6	1655.3	1695.8	1691.5	1628.5
55°	1363.5	1362.7	1389.4	1401.5	1416.2	1467.2	1567.3	1682.8	1739.0	1735.5	1678.5
57.5°	1315.2	1316.9	1349.7	1368.7	1387.7	1448.1	1562.9	1696.7	1768.3	1766.5	1710.5
60°	1254.0	1262.6	1299.6	1321.3	1349.7	1417.8	1544.8	1694.1	1779.5	1780.4	1727.7
61°	1228.1	1236.7	1274.6	1300.5	1330.8	1403.2	1534.4	1688.9	1778.6	1780.4	1729.5
62.5°	1186.7	1191.8	1236.7	1267.7	1300.5	1376.4	1513.7	1675.1	1772.6	1775.1	1726.9
65°	1109.0	1118.5	1164.1	1203.1	1241.8	1324.7	1468.8	1639.7	1747.6	1751.9	1706.9
67.5°	1023.5	1034.6	1087.3	1132.3	1177.2	1265.1	1413.6	1588.7	1702.7	1707.8	1669.1
70°	939.0	952.7	1008.0	1052.8	1108.1	1198.7	1346.3	1523.2	1641.4	1646.6	1613.0
72.5°	852.7	868.2	925.1	976.9	1033.0	1125.4	1271.2	1445.5	1564.6	1571.4	1540.4
75°	766.4	786.2	839.6	899.2	955.4	1050.3	1193.5	1362.7	1470.5	1477.4	1453.2
77.5°	688.7	706.0	758.6	820.7	881.9	972.6	1109.0	1264.2	1376.4	1380.0	1358.3
80°	610.1	628.2	685.2	743.9	808.6	895.8	1021.8	1165.0	1262.6	1272.1	1249.6
82.5°	540.3	558.4	611.9	675.8	737.8	821.5	932.8	1063.2	1149.5	1159.9	1144.4
85°	481.5	494.5	547.2	608.5	668.7	748.2	855.3	968.2	1045.9	1047.7	1032.2
87.5°	422.9	436.7	486.7	546.3	607.6	680.0	771.5	869.0	932.1	938.1	922.5
90°	374.5	383.2	430.6	489.4	548.9	615.3	694.7	780.9	831.9	831.9	819.9
92.5°	332.2	336.5	384.0	440.1	497.1	554.1	624.0	690.4	734.4	733.5	719.7
95°	293.5	298.6	338.2	392.7	447.9	500.5	557.6	610.1	642.9	644.6	628.2
97.5°	259.0	262.3	299.5	353.0	402.2	451.4	498.8	541.1	562.6	563.6	551.4
100°	231.3	231.3	266.7	314.1	361.6	405.6	446.3	478.1	487.7	486.7	476.4
102.5°	207.1	205.4	235.6	281.4	325.4	363.3	396.1	416.9	424.6	422.0	415.0
105°	183.8	185.5	208.8	252.0	291.7	325.4	350.4	367.6	367.6	365.9	359.0
107.5°	166.5	165.7	183.8	223.6	261.4	290.8	310.8	319.2	316.8	314.1	309.9



REPORT NUMBER: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	149.2	149.2	163.2	200.2	233.0	259.7	273.5	278.7	271.0	270.1	269.3
112.5°	134.6	134.6	145.9	176.9	208.0	230.4	241.7	242.5	234.0	233.0	234.0
115°	123.5	123.5	129.5	157.2	185.5	205.4	214.9	210.6	201.9	201.0	203.7
117.5°	112.2	112.2	117.4	137.2	164.0	182.1	188.2	182.1	174.4	174.4	177.8
120°	102.7	102.7	104.5	119.9	144.1	159.6	164.0	157.2	151.0	151.0	154.5
122.5°	94.1	93.2	94.1	104.5	124.2	139.0	140.6	134.6	130.3	131.2	136.3
125°	85.4	85.4	84.5	90.5	107.0	119.1	120.8	113.9	113.9	113.9	118.2
127.5°	77.7	77.7	75.9	78.5	90.5	100.9	100.9	95.8	97.6	99.2	102.7
130°	70.8	70.8	69.1	69.1	75.1	83.7	83.7	80.3	84.5	85.4	88.9
132.5°	63.8	63.1	61.3	58.7	61.3	66.4	66.4	65.5	72.4	73.3	75.9
135°	57.0	56.0	54.4	50.0	49.1	51.0	51.0	53.5	60.4	61.3	64.7
137.5°	49.1	49.1	46.7	42.3	37.1	37.1	37.1	42.3	49.1	51.0	52.7
140°	42.3	42.3	39.7	34.5	27.7	25.0	25.9	32.8	39.7	40.5	42.3
142.5°	34.5	34.5	31.9	26.8	19.8	14.6	16.4	23.3	29.4	31.0	32.8
145°	26.8	26.8	24.1	19.0	12.1	7.7	9.5	16.4	20.8	21.6	23.3
147.5°	19.8	19.8	17.3	12.9	6.9	2.6	5.1	9.5	13.7	14.6	16.4
150°	12.9	12.9	11.3	6.9	3.5	0.0	1.7	5.1	7.7	8.6	9.5
152.5°	6.9	6.9	5.1	3.5	0.9	0.0	0.0	1.7	3.5	3.5	4.3
155°	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	1.7
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	0.9	0.9	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: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
2.5°	443.6	440.1	433.2	428.1	422.0	416.9	412.6	409.0	408.2	405.6	406.5
5°	451.4	445.3	432.3	421.2	409.0	398.7	390.0	384.0	379.6	378.0	376.3
7.5°	466.0	455.6	436.7	418.6	401.3	385.8	371.9	363.3	356.4	353.0	353.0
10°	486.7	473.7	447.0	422.9	398.7	378.0	360.8	346.9	338.2	334.0	334.9
12.5°	515.1	498.0	465.1	432.3	403.0	376.3	353.0	338.2	327.9	322.8	322.8
15°	555.8	536.8	492.8	450.4	410.9	378.0	353.0	336.5	328.8	325.4	324.5
17.5°	605.0	579.9	529.9	479.0	429.0	388.3	363.3	347.8	336.5	332.2	331.4
20°	655.0	626.5	567.8	510.9	454.8	410.9	380.6	359.9	345.2	339.1	338.2
22.5°	712.0	679.1	610.1	542.8	482.4	440.1	397.8	371.1	353.8	346.1	345.2
25°	770.6	734.4	656.7	580.8	519.5	468.6	419.4	382.3	361.6	352.2	351.3
27.5°	832.8	794.0	705.0	618.7	554.9	495.4	439.2	392.7	368.5	358.2	357.3
30°	901.8	855.3	757.7	662.7	590.3	520.4	458.3	404.7	375.5	363.3	361.6
32.5°	973.5	921.7	811.2	709.4	623.1	542.8	473.7	417.7	382.3	368.5	367.6
35°	1048.6	990.8	866.4	755.1	652.4	562.6	487.7	429.0	387.5	372.8	371.1
37.5°	1127.1	1063.2	924.3	798.2	680.9	579.9	498.8	438.3	392.7	375.5	373.6
40°	1205.5	1132.3	981.2	842.3	706.8	594.6	508.3	445.3	396.1	378.0	376.3
42.5°	1281.5	1206.4	1039.0	882.9	729.2	605.9	515.1	451.4	399.6	379.6	377.2
45°	1355.8	1277.2	1094.2	917.3	748.2	614.5	519.5	454.8	403.9	379.6	377.2
47.5°	1429.9	1343.7	1148.7	947.6	762.0	620.5	521.2	456.4	406.5	378.8	376.3
50°	1497.3	1403.2	1195.3	974.4	772.4	622.2	520.4	455.6	407.3	377.2	373.6
52.5°	1552.6	1455.9	1234.1	993.2	778.5	621.3	517.8	454.0	406.5	373.6	371.1
55°	1600.0	1496.5	1262.6	1005.4	778.5	617.1	513.5	450.4	403.0	369.4	365.9
57.5°	1631.0	1526.7	1281.5	1010.5	774.9	609.2	505.8	444.4	399.6	363.3	359.9
60°	1649.2	1541.3	1289.4	1007.2	765.5	599.0	497.1	437.6	394.4	356.4	353.0
61°	1650.9	1543.1	1289.4	1003.6	761.2	594.6	493.7	435.0	391.8	353.8	349.5
62.5°	1649.2	1541.3	1285.0	995.9	752.6	586.8	486.7	429.0	386.7	347.8	345.2
65°	1631.9	1524.9	1267.7	976.0	733.5	571.3	474.6	419.4	378.0	339.1	334.9
67.5°	1594.8	1492.2	1236.7	948.5	711.1	553.2	460.8	408.2	368.5	328.8	323.6
70°	1541.3	1443.8	1197.8	916.4	686.0	533.3	445.3	395.3	356.4	318.5	311.5
72.5°	1474.9	1385.1	1143.5	875.9	656.7	512.7	429.0	381.5	343.5	306.4	297.7
75°	1392.0	1310.0	1083.1	831.0	624.0	488.5	411.7	365.9	328.8	293.5	284.0
77.5°	1300.5	1227.2	1017.4	781.9	591.2	465.1	392.7	348.6	313.2	278.7	269.3
80°	1200.4	1136.6	943.2	730.1	556.6	441.0	373.6	332.2	297.7	264.1	252.8
82.5°	1097.7	1040.8	869.0	677.4	519.5	415.9	353.0	314.1	280.5	248.6	236.4
85°	993.2	944.1	794.0	623.1	482.4	390.9	334.0	296.0	262.3	232.1	221.8
87.5°	889.7	847.5	717.2	571.3	448.7	366.8	314.1	277.8	245.1	215.8	205.4
90°	793.1	756.8	646.4	523.1	415.0	341.8	294.2	259.7	227.8	198.6	191.5
92.5°	701.7	670.6	578.2	472.1	381.5	317.6	274.5	240.8	208.8	182.1	177.8
95°	618.7	589.5	516.0	427.2	350.4	296.0	255.4	223.6	191.5	166.5	163.2
97.5°	537.7	519.5	458.3	384.0	320.1	272.7	236.4	206.3	175.2	151.9	150.1
100°	470.4	451.4	402.2	344.3	292.6	252.0	218.3	189.0	159.6	138.1	137.2
102.5°	409.0	396.1	354.6	310.8	265.8	229.6	200.2	172.6	144.1	125.1	125.1
105°	357.3	345.2	314.1	276.2	240.0	210.6	182.1	155.3	128.6	112.2	113.1
107.5°	308.1	300.4	274.5	244.2	215.8	190.7	164.9	139.0	113.1	100.1	100.9



REPORT NUMBER: P240313

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	268.3	260.6	240.8	218.3	194.2	172.6	148.5	123.5	98.4	90.5	90.5
112.5°	233.0	227.8	211.4	193.3	174.4	155.3	133.8	108.7	86.4	80.3	81.1
115°	203.7	199.4	185.5	171.7	156.2	139.9	119.1	94.9	75.1	72.4	72.4
117.5°	176.9	174.4	163.2	151.0	139.0	124.2	105.3	82.0	64.7	64.7	64.7
120°	154.5	151.9	143.2	132.9	122.6	109.6	90.5	69.9	57.0	57.0	57.8
122.5°	135.5	133.8	125.1	117.4	107.8	94.9	77.7	58.7	50.0	51.0	51.0
125°	118.2	116.5	110.5	101.8	93.2	81.1	65.5	48.3	43.1	44.9	44.9
127.5°	102.7	101.8	95.8	88.1	79.4	69.1	53.5	40.5	38.0	39.7	39.7
130°	89.7	88.9	82.8	75.1	67.3	56.0	43.1	33.7	32.8	34.5	34.5
132.5°	76.8	75.9	70.8	63.1	55.2	44.9	33.7	26.8	28.5	30.1	30.1
135°	64.7	63.8	60.4	51.8	44.9	35.4	25.9	22.4	24.1	25.9	25.9
137.5°	53.5	52.7	49.1	41.4	33.7	25.9	19.0	18.1	19.8	21.6	21.6
140°	43.1	42.3	38.8	31.9	24.1	18.1	12.9	14.6	16.4	18.1	18.1
142.5°	32.8	32.8	30.1	24.1	16.4	11.3	8.6	11.3	12.9	14.6	14.6
145°	24.1	24.1	20.8	16.4	9.5	6.0	5.1	7.7	10.4	11.3	11.3
147.5°	16.4	16.4	13.7	10.4	5.1	2.6	3.5	5.1	6.9	7.7	8.6
150°	9.5	9.5	7.7	5.1	2.6	0.9	0.9	3.5	4.3	5.1	5.1
152.5°	4.3	4.3	3.5	1.7	0.9	0.9	0.9	0.9	2.6	2.6	2.6
155°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.0	0.9	0.9	0.9
157.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	0.9	0.9	0.9	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)