

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: P239828

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634 lumens
Efficiency: N/A
Efficacy: 70.6 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: B2 - U4 - G2

Input Watts (W): 94
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

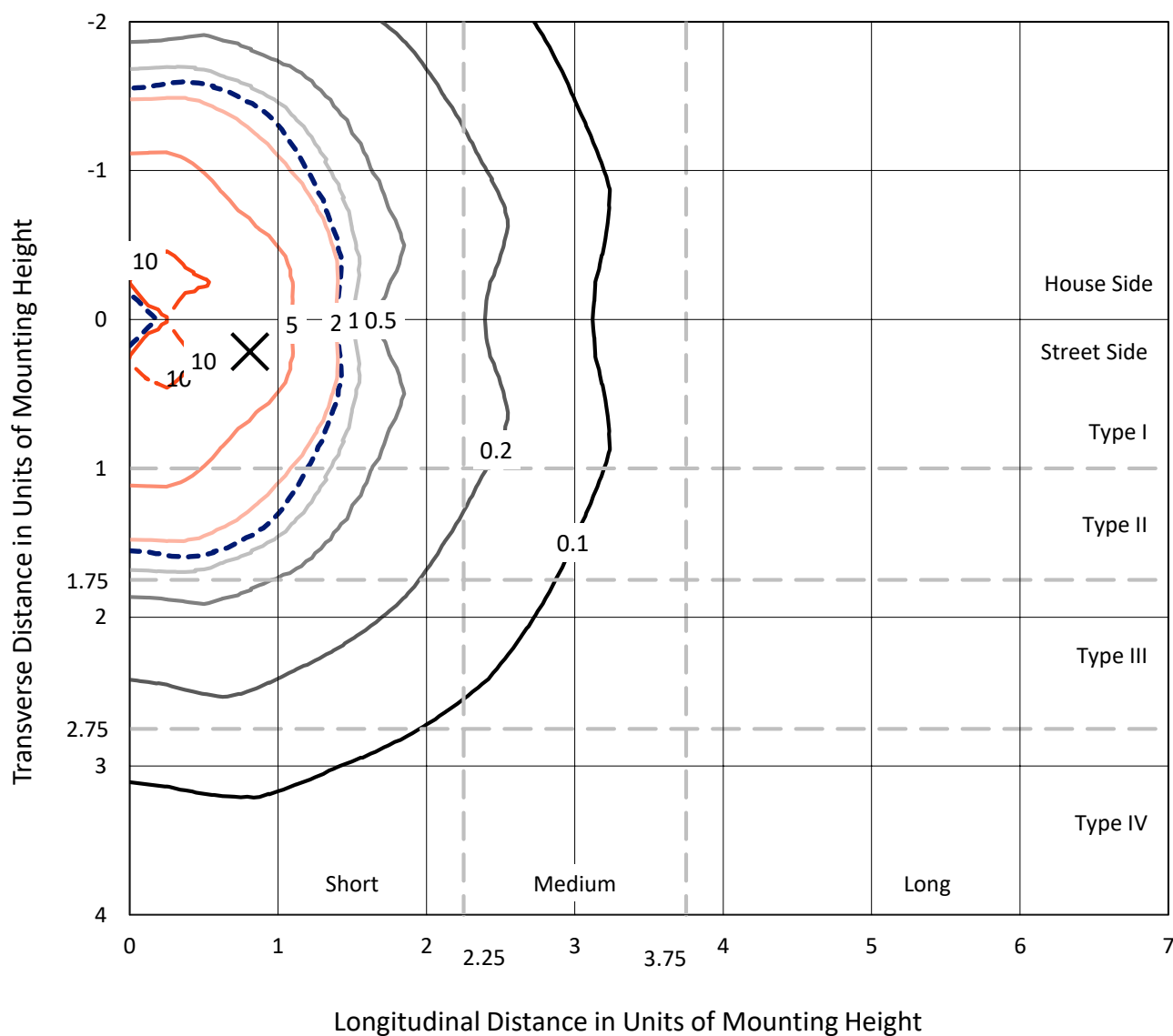


REPORT NUMBER: P239828

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

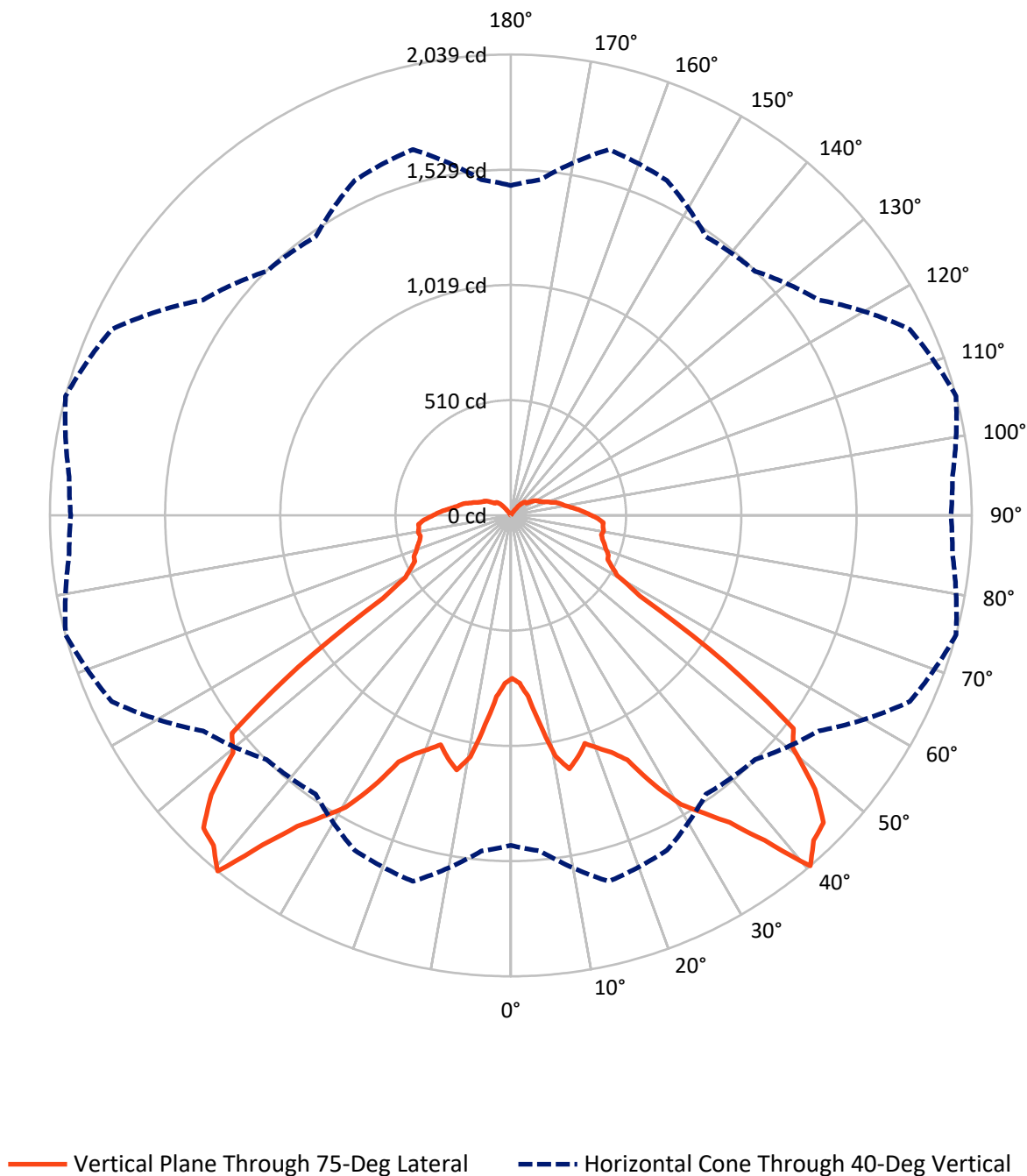


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P239828

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P239828

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

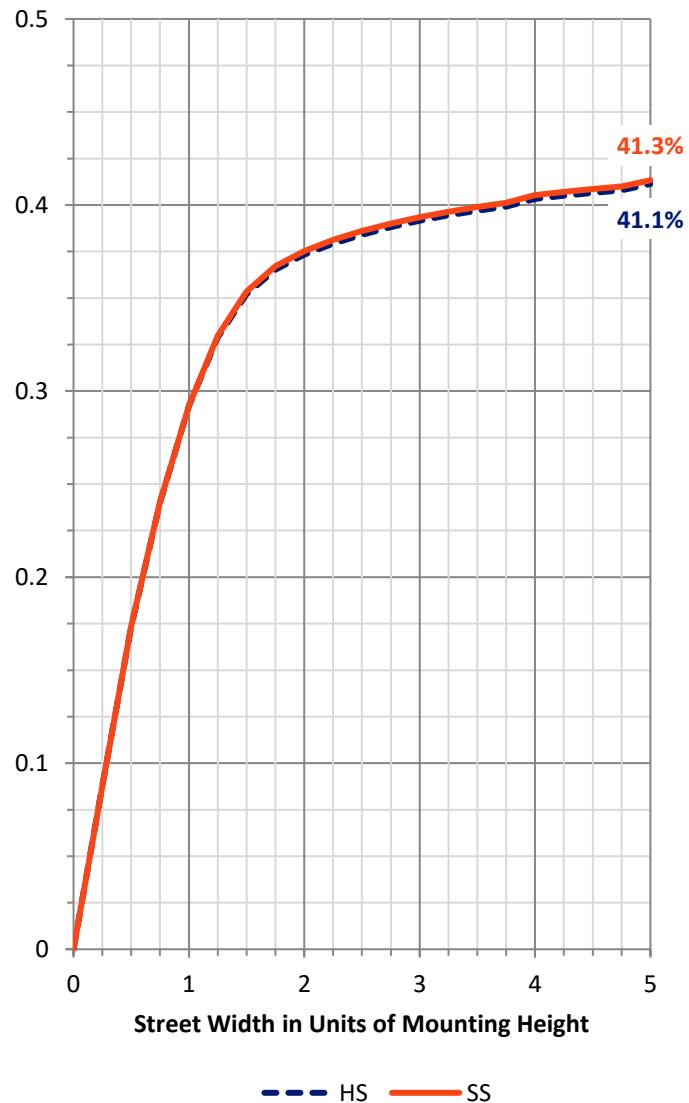
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.6	449.4	3317.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2867.6	449.4	3317.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	5735.2	898.9	6634.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.3
10°-20°	345.6	5.2
20°-30°	617.2	9.3
30°-40°	977.1	14.7
40°-50°	1311.1	19.8
50°-60°	1043.6	15.7
60°-70°	479.0	7.2
70°-80°	436.6	6.6
80°-90°	439.9	6.6
90°-100°	338.2	5.1
100°-110°	236.2	3.6
110°-120°	156.0	2.4
120°-130°	97.5	1.5
130°-140°	57.1	0.9
140°-150°	13.0	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5735.2	86.5
0°-180°	6634.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239828

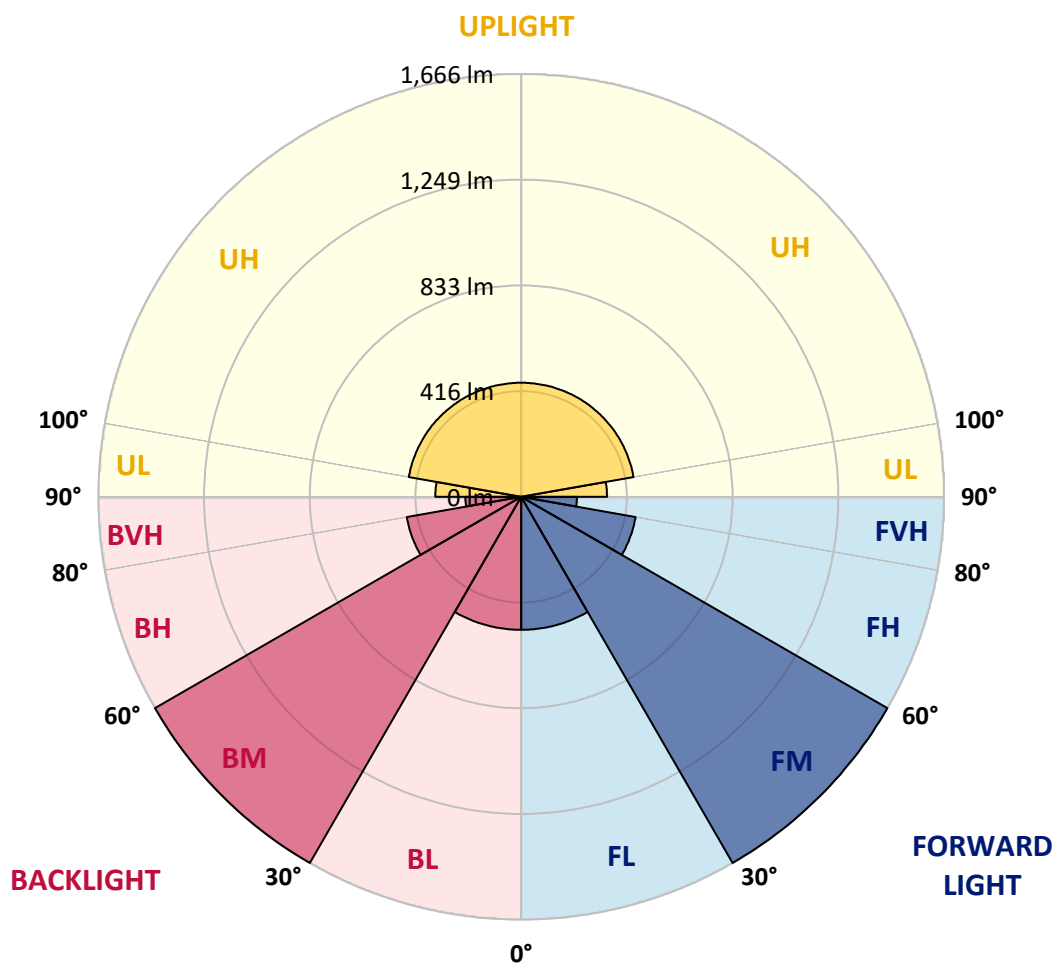
CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.9	7.9			
FM	(30°-60°)	1665.9	25.1			
FH	(60°-80°)	457.8	6.9			G0/660
FVH	(80°-90°)	219.9	3.3			G2/225
BL	(0°-30°)	523.9	7.9	B2/1000		
BM	(30°-60°)	1665.9	25.1	B2/2500		
BH	(60°-80°)	457.8	6.9	B1/500		G0/660
BVH	(80°-90°)	219.9	3.3			G2/225
UL	(90°-100°)	338.2	5.1		U3/500	
UH	(100°-180°)	449.4	6.8		U3/500	

BUG Rating: B2-U4-G2

Type V Short





REPORT NUMBER: P239828

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	720.8	720.8	720.8	720.8	720.8	720.8	720.8	720.8	720.8	720.8	720.8
2.5°	740.3	740.3	740.3	738.5	740.3	742.1	743.8	743.8	742.9	740.3	738.5
5°	792.4	792.4	791.5	793.3	793.3	789.8	791.5	797.7	803.9	799.5	797.7
7.5°	918.7	916.1	909.9	904.6	898.4	898.4	911.7	919.6	933.7	935.5	931.1
10°	1045.9	1049.5	1053.0	1053.0	1068.0	1084.8	1096.3	1092.8	1082.2	1074.2	1068.9
12.5°	1083.0	1085.7	1116.6	1194.3	1251.8	1298.6	1258.8	1198.8	1151.1	1120.1	1116.6
15°	1111.3	1118.4	1157.2	1254.4	1398.4	1437.3	1355.1	1202.3	1109.5	1065.4	1055.7
17.5°	1139.6	1147.5	1212.9	1353.4	1467.3	1457.6	1358.7	1195.2	1060.1	1001.8	994.7
20°	1114.8	1123.7	1215.5	1403.7	1486.8	1439.9	1405.5	1251.8	1098.1	1030.9	1023.0
22.5°	1124.6	1133.4	1226.1	1409.0	1460.2	1462.9	1409.9	1318.0	1137.8	1061.0	1048.6
25°	1142.2	1149.3	1264.1	1448.8	1449.6	1442.6	1416.1	1365.7	1197.9	1124.6	1114.0
27.5°	1142.2	1148.4	1277.4	1432.0	1441.7	1425.8	1459.4	1477.9	1348.9	1283.6	1286.2
30°	1193.5	1197.0	1330.4	1430.2	1408.1	1420.5	1515.0	1571.6	1483.2	1378.1	1377.2
32.5°	1293.3	1310.1	1450.5	1491.2	1404.6	1416.1	1529.2	1628.1	1570.7	1444.3	1430.2
35°	1421.4	1425.8	1554.8	1544.2	1430.2	1424.0	1562.7	1717.3	1668.7	1544.2	1539.8
37.5°	1462.9	1469.1	1622.8	1594.5	1461.1	1466.4	1618.4	1826.0	1824.2	1724.4	1692.6
40°	1459.4	1490.3	1675.8	1634.3	1505.3	1527.4	1661.7	1947.9	2038.9	1961.1	1947.0
42.5°	1722.6	1738.5	1847.2	1697.0	1545.9	1545.9	1679.3	1924.0	1964.7	1816.3	1787.1
45°	1750.0	1749.1	1868.4	1748.2	1556.5	1520.3	1616.6	1833.0	1939.0	1841.0	1797.7
47.5°	1693.5	1715.5	1864.0	1719.1	1537.1	1447.9	1508.8	1728.8	1811.0	1659.9	1625.4
50°	1632.5	1649.3	1762.4	1585.7	1440.8	1377.2	1423.1	1582.2	1614.8	1432.9	1406.4
52.5°	1465.5	1467.3	1601.6	1462.0	1356.9	1291.5	1328.6	1476.1	1565.4	1391.3	1372.8
55°	1242.1	1265.9	1436.4	1349.8	1258.0	1201.4	1208.5	1233.2	1154.6	894.0	833.0
57.5°	949.6	980.6	1179.3	1183.7	1113.1	1023.0	924.0	782.7	674.0	432.9	416.1
60°	646.6	673.1	823.3	860.4	888.7	785.3	639.6	558.3	541.5	375.4	363.1
62.5°	400.2	422.3	562.7	576.0	637.8	573.3	507.1	482.3	501.8	358.7	349.8
65°	370.1	385.2	488.5	469.1	484.1	480.6	451.4	447.0	470.8	349.8	343.6
67.5°	357.8	370.1	452.3	438.2	444.3	449.6	429.3	432.9	465.5	356.9	349.8
70°	351.6	364.8	440.8	431.1	437.3	442.6	430.2	424.9	446.1	359.5	349.8
72.5°	347.2	361.3	423.1	417.0	433.7	447.9	435.5	424.0	432.9	361.3	351.6
75°	339.2	353.4	407.2	410.8	436.4	453.2	437.3	419.6	418.7	357.8	346.3
77.5°	337.5	353.4	390.5	412.5	437.3	459.4	447.0	421.4	409.9	359.5	345.4
80°	334.8	352.5	398.4	426.7	444.3	455.8	450.5	432.9	416.1	372.8	357.8
82.5°	349.8	365.7	405.5	437.3	442.6	440.8	440.8	429.3	410.8	373.7	359.5
85°	368.4	380.7	422.3	440.8	436.4	424.9	419.6	418.7	409.9	383.4	371.9
87.5°	364.8	373.7	401.9	419.6	421.4	398.4	399.3	394.0	384.3	357.8	348.1
90°	341.0	347.2	379.0	397.5	386.0	367.5	359.5	348.9	349.8	326.0	318.9
92.5°	325.1	332.2	355.1	365.7	364.0	333.0	327.7	326.9	321.6	301.2	296.8
95°	303.9	308.3	327.7	341.9	333.0	301.2	295.9	291.5	292.4	284.5	285.3
97.5°	298.6	302.1	316.3	313.6	298.6	271.2	267.7	265.9	265.0	260.6	259.7
100°	287.1	287.1	291.5	283.6	265.9	245.6	240.3	241.2	242.0	236.7	235.0
102.5°	267.7	268.6	270.3	263.3	246.5	225.3	220.0	224.4	226.1	224.4	223.5
105°	253.5	252.7	253.5	245.6	227.0	208.5	202.3	206.7	211.1	212.0	210.2
107.5°	232.3	231.4	231.4	223.5	209.4	194.3	189.0	186.4	186.4	186.4	186.4
110°	201.4	202.3	202.3	198.8	191.7	182.9	175.8	170.5	172.3	171.4	173.1



REPORT NUMBER: P239828

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	187.3	187.3	185.5	182.9	175.8	167.0	159.0	155.5	153.7	152.8	153.7
115°	172.3	173.1	167.8	166.1	159.0	153.7	145.8	143.1	143.1	145.8	147.5
117.5°	159.0	159.0	155.5	151.1	144.9	140.5	136.9	135.2	135.2	138.7	138.7
120°	144.0	144.0	140.5	135.2	132.5	126.3	127.2	126.3	129.0	133.4	134.3
122.5°	127.2	127.2	123.7	119.3	121.0	116.6	114.8	111.3	116.6	121.9	122.8
125°	113.1	112.2	108.7	103.4	110.4	110.4	106.0	94.5	101.6	106.0	106.9
127.5°	103.4	102.5	98.1	92.8	101.6	106.9	97.2	85.7	89.2	93.6	95.4
130°	98.1	97.2	92.8	86.6	89.2	101.6	87.5	82.2	86.6	91.0	91.0
132.5°	94.5	93.6	90.1	83.9	79.5	92.8	78.6	80.4	86.6	91.0	91.0
135°	87.5	87.5	83.0	74.2	63.6	68.0	63.6	72.4	79.5	83.0	83.9
137.5°	75.1	75.1	71.6	63.6	51.2	48.6	50.4	61.8	69.8	73.3	73.3
140°	59.2	58.3	54.8	47.7	33.6	23.0	32.7	46.8	54.8	58.3	58.3
142.5°	41.5	40.6	36.2	29.2	17.7	8.0	17.7	28.3	36.2	39.8	40.6
145°	26.5	26.5	23.0	17.7	8.8	2.7	7.1	16.8	22.1	25.6	25.6
147.5°	16.8	16.8	14.1	9.7	2.7	1.8	2.7	8.0	13.3	15.9	16.8
150°	9.7	9.7	7.1	3.5	1.8	0.9	1.8	2.7	5.3	8.0	8.0
152.5°	3.5	2.7	1.8	1.8	0.9	0.9	0.9	1.8	1.8	2.7	2.7
155°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	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)