

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: P266494

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 6511.2 lumens
Efficiency: N/A
Efficacy: 69.3 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

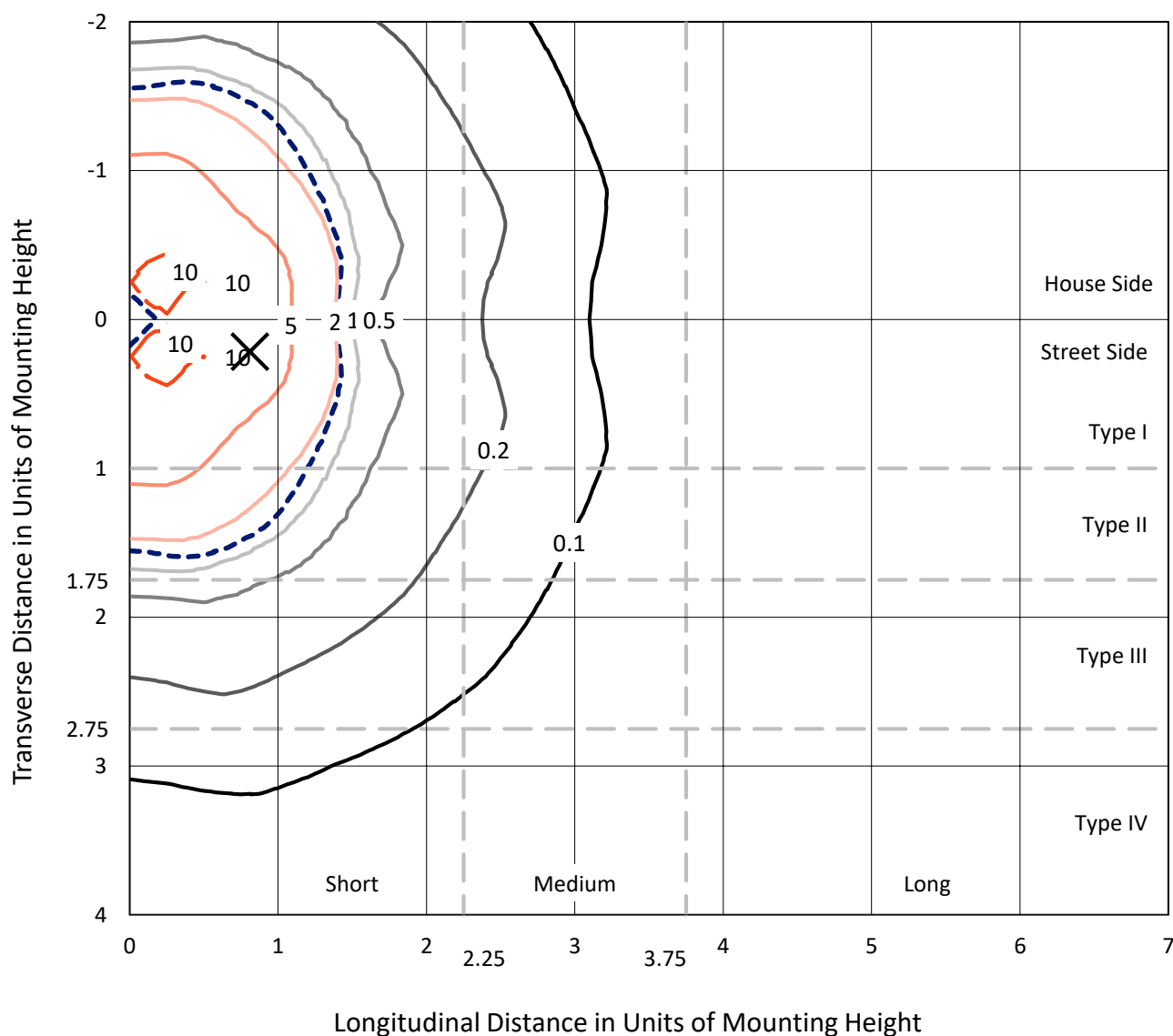


REPORT NUMBER: P266494

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

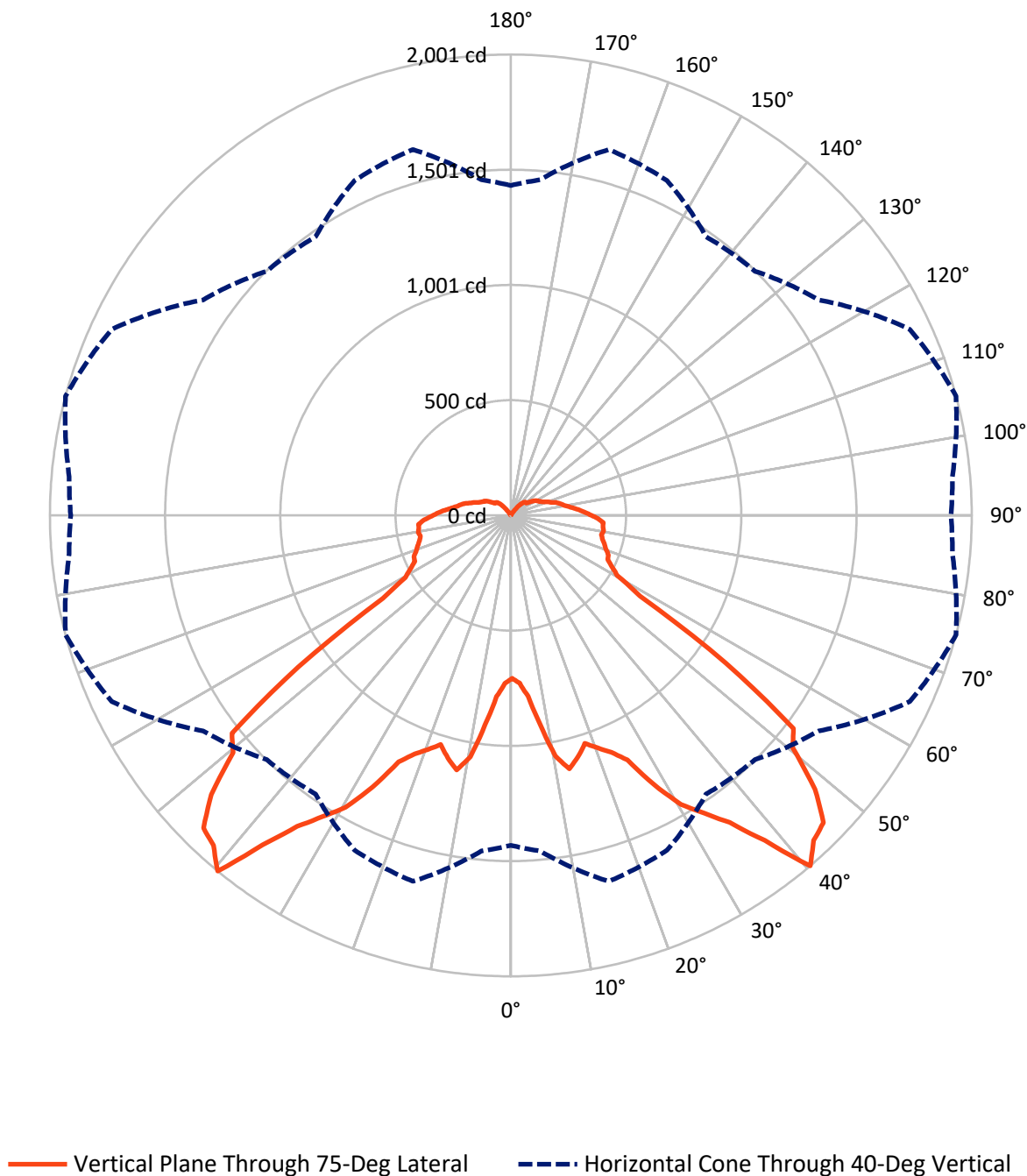


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266494

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266494

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

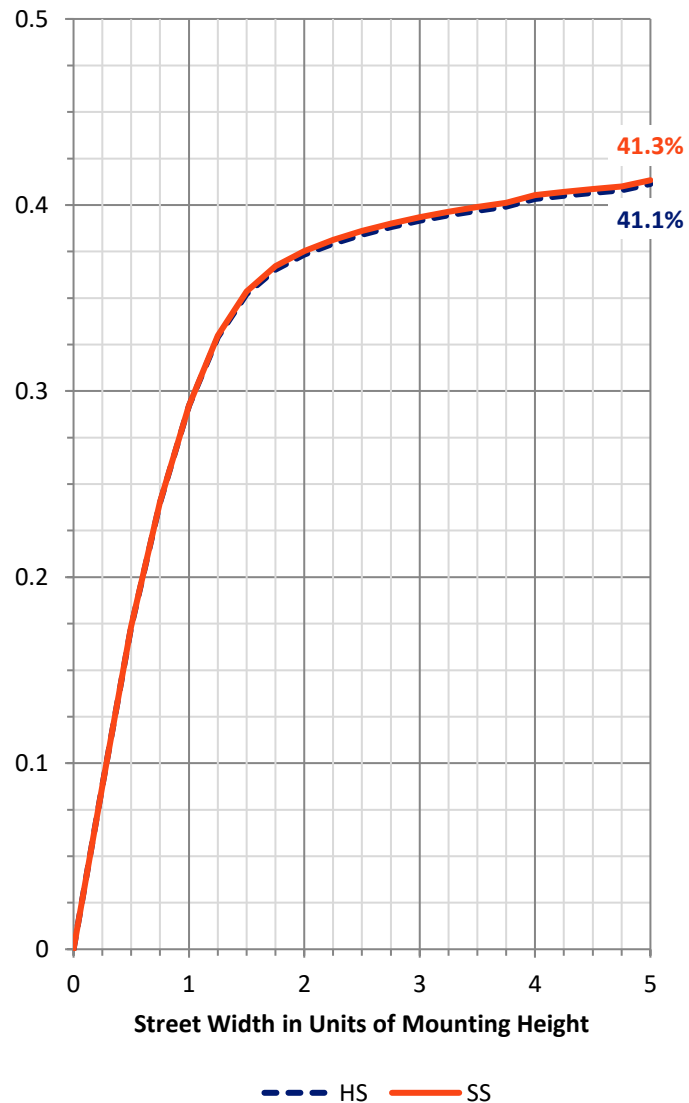
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.5	441.1	3255.6
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2814.5	441.1	3255.6
	% Fixture	43.2	6.8	50.0
Total	Lumens	5629.0	882.2	6511.2
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.3
10°-20°	339.1	5.2
20°-30°	605.8	9.3
30°-40°	959.1	14.7
40°-50°	1286.8	19.8
50°-60°	1024.3	15.7
60°-70°	470.1	7.2
70°-80°	428.5	6.6
80°-90°	431.7	6.6
90°-100°	332.0	5.1
100°-110°	231.8	3.6
110°-120°	153.1	2.4
120°-130°	95.7	1.5
130°-140°	56.0	0.9
140°-150°	12.7	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5629.0	86.5
0°-180°	6511.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266494

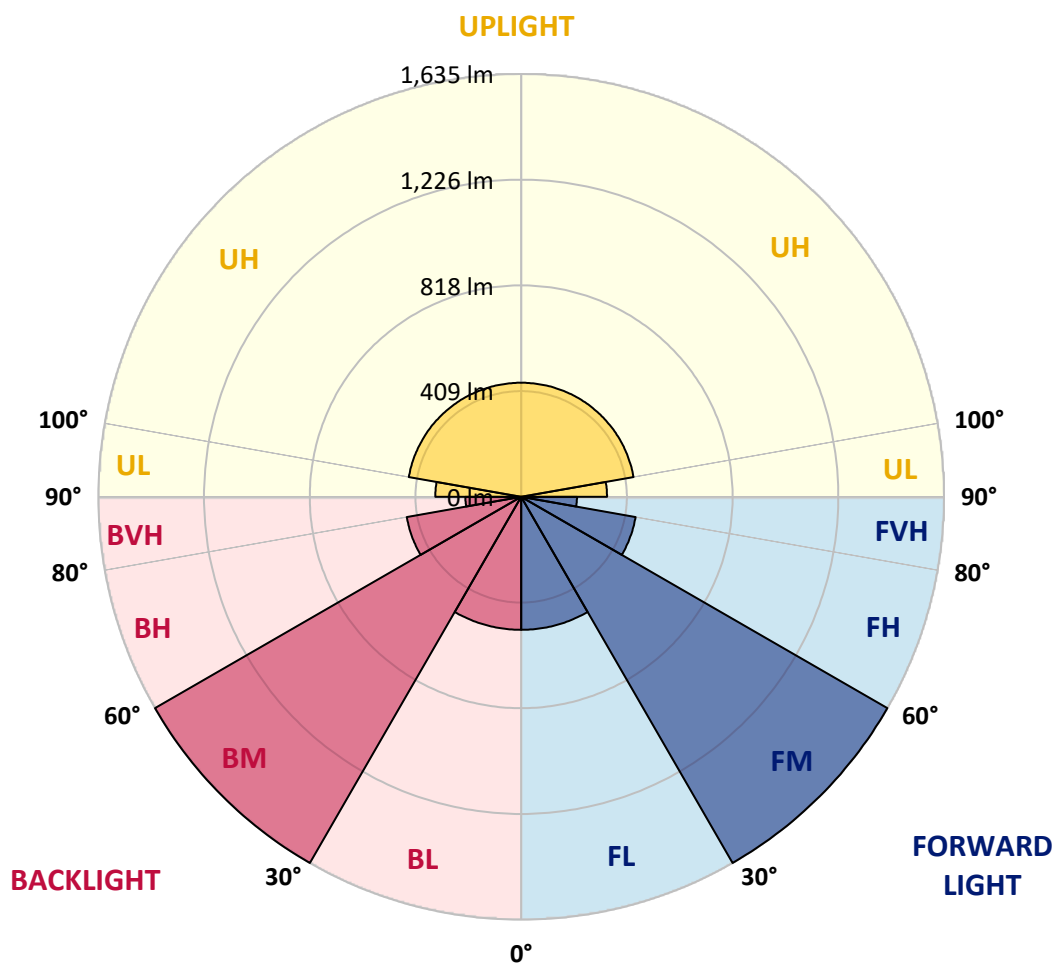
CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.2	7.9			
FM	(30°-60°)	1635.1	25.1			
FH	(60°-80°)	449.3	6.9			G0/660
FVH	(80°-90°)	215.9	3.3			G2/225
BL	(0°-30°)	514.2	7.9	B2/1000		
BM	(30°-60°)	1635.1	25.1	B2/2500		
BH	(60°-80°)	449.3	6.9	B1/500		G0/660
BVH	(80°-90°)	215.9	3.3			G2/225
UL	(90°-100°)	332.0	5.1		U3/500	
UH	(100°-180°)	441.1	6.8		U3/500	

BUG Rating: B2-U4-G2

Type V Short





REPORT NUMBER: P266494

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
2.5°	726.5	726.5	726.5	724.8	726.5	728.3	730.1	730.1	729.2	726.5	724.8
5°	777.8	777.8	776.9	778.7	778.7	775.1	776.9	783.0	789.0	784.7	783.0
7.5°	901.7	899.2	893.0	887.9	881.7	881.7	894.8	902.5	916.5	918.2	913.8
10°	1026.6	1030.0	1033.5	1033.5	1048.2	1064.8	1076.0	1072.5	1062.2	1054.3	1049.1
12.5°	1063.0	1065.6	1095.9	1172.2	1228.6	1274.5	1235.4	1176.6	1129.8	1099.3	1095.9
15°	1090.7	1097.6	1135.7	1231.1	1372.5	1410.7	1330.0	1180.1	1088.9	1045.6	1036.1
17.5°	1118.5	1126.3	1190.4	1328.4	1440.2	1430.6	1333.5	1173.0	1040.4	983.3	976.3
20°	1094.1	1102.8	1192.9	1377.7	1459.2	1413.3	1379.4	1228.6	1077.7	1011.9	1004.0
22.5°	1103.7	1112.5	1203.4	1382.9	1433.2	1435.9	1383.7	1293.6	1116.8	1041.3	1029.2
25°	1121.1	1128.0	1240.6	1421.9	1422.7	1415.9	1389.9	1340.5	1175.7	1103.7	1093.3
27.5°	1121.1	1127.2	1253.8	1405.5	1415.0	1399.4	1432.3	1450.6	1323.9	1259.9	1262.4
30°	1171.4	1174.9	1305.7	1403.7	1382.0	1394.2	1487.0	1542.5	1455.8	1352.6	1351.7
32.5°	1269.3	1285.8	1423.6	1463.6	1378.5	1389.9	1500.9	1597.9	1541.6	1417.5	1403.7
35°	1395.1	1399.4	1526.0	1515.6	1403.7	1397.7	1533.8	1685.5	1637.8	1515.6	1511.3
37.5°	1435.9	1441.9	1592.8	1564.9	1434.1	1439.3	1588.5	1792.2	1790.4	1692.4	1661.2
40°	1432.3	1462.7	1644.7	1604.1	1477.4	1499.1	1631.0	1911.9	2001.2	1924.8	1911.0
42.5°	1690.7	1706.3	1813.0	1665.5	1517.2	1517.2	1648.2	1888.3	1928.3	1782.6	1754.0
45°	1717.6	1716.8	1833.8	1715.9	1527.7	1492.2	1586.6	1799.0	1903.1	1806.9	1764.5
47.5°	1662.1	1683.8	1829.5	1687.2	1508.7	1421.1	1480.9	1696.8	1777.4	1629.2	1595.3
50°	1602.2	1618.7	1729.7	1556.4	1414.1	1351.7	1396.8	1552.9	1584.9	1406.3	1380.3
52.5°	1438.4	1440.2	1571.9	1435.0	1331.7	1267.6	1304.0	1448.7	1536.5	1365.6	1347.4
55°	1219.1	1242.4	1409.8	1324.8	1234.7	1179.1	1186.1	1210.3	1133.2	877.5	817.5
57.5°	932.0	962.4	1157.5	1161.8	1092.5	1004.0	906.8	768.2	661.5	424.9	408.4
60°	634.7	660.7	808.0	844.4	872.3	770.7	627.7	548.0	531.4	368.5	356.4
62.5°	392.7	414.5	552.3	565.4	625.9	562.7	497.8	473.3	492.5	352.0	343.3
65°	363.3	378.0	479.4	460.4	475.2	471.7	443.0	438.7	462.1	343.3	337.3
67.5°	351.1	363.3	443.9	430.1	436.0	441.2	421.3	424.9	456.9	350.2	343.3
70°	345.0	358.1	432.7	423.1	429.2	434.4	422.3	417.1	437.8	352.9	343.3
72.5°	340.7	354.7	415.2	409.3	425.6	439.6	427.5	416.2	424.9	354.7	345.0
75°	332.9	346.8	399.7	403.2	428.3	444.8	429.2	411.9	411.0	351.1	339.9
77.5°	331.3	346.8	383.2	404.9	429.2	450.9	438.7	413.6	402.4	352.9	339.0
80°	328.6	345.9	391.0	418.8	436.0	447.4	442.1	424.9	408.4	365.9	351.1
82.5°	343.3	359.0	397.9	429.2	434.4	432.7	432.7	421.3	403.2	366.8	352.9
85°	361.6	373.6	414.5	432.7	428.3	417.1	411.9	411.0	402.4	376.3	365.0
87.5°	358.1	366.8	394.4	411.9	413.6	391.0	391.9	386.7	377.2	351.1	341.6
90°	334.7	340.7	372.0	390.1	378.8	360.7	352.9	342.4	343.3	319.9	313.0
92.5°	319.1	326.1	348.5	359.0	357.3	326.9	321.7	320.9	315.7	295.6	291.3
95°	298.2	302.5	321.7	335.5	326.9	295.6	290.4	286.1	287.0	279.3	280.0
97.5°	293.0	296.5	310.5	307.8	293.0	266.2	262.8	261.0	260.1	255.7	254.8
100°	281.8	281.8	286.1	278.4	261.0	241.0	235.9	236.8	237.5	232.3	230.7
102.5°	262.8	263.7	265.3	258.4	242.0	221.2	216.0	220.3	221.9	220.3	219.4
105°	248.8	248.0	248.8	241.0	222.8	204.6	198.5	202.8	207.1	208.0	206.3
107.5°	228.0	227.1	227.1	219.4	205.5	190.7	185.5	183.0	183.0	183.0	183.0
110°	197.6	198.5	198.5	195.1	188.1	179.5	172.6	167.4	169.2	168.3	169.9



REPORT NUMBER: P266494

CATALOG NUMBER: UTLD-AF24-90-D-U-5WQ-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	183.9	183.9	182.0	179.5	172.6	163.9	156.0	152.6	150.8	149.9	150.8
115°	169.2	169.9	164.7	163.0	156.0	150.8	143.1	140.4	140.4	143.1	144.7
117.5°	156.0	156.0	152.6	148.3	142.2	137.9	134.3	132.7	132.7	136.2	136.2
120°	141.4	141.4	137.9	132.7	130.1	124.0	124.9	124.0	126.7	131.0	131.8
122.5°	124.9	124.9	121.5	117.0	118.8	114.4	112.6	109.2	114.4	119.7	120.6
125°	111.0	110.1	106.7	101.5	108.3	108.3	104.1	92.7	99.7	104.1	104.9
127.5°	101.5	100.6	96.3	91.1	99.7	104.9	95.4	84.1	87.6	91.8	93.7
130°	96.3	95.4	91.1	85.0	87.6	99.7	85.9	80.7	85.0	89.3	89.3
132.5°	92.7	91.8	88.5	82.4	78.1	91.1	77.2	79.0	85.0	89.3	89.3
135°	85.9	85.9	81.4	72.9	62.4	66.7	62.4	71.1	78.1	81.4	82.4
137.5°	73.8	73.8	70.2	62.4	50.2	47.7	49.4	60.6	68.5	72.0	72.0
140°	58.1	57.2	53.8	46.8	33.0	22.5	32.1	46.0	53.8	57.2	57.2
142.5°	40.8	39.9	35.6	28.7	17.3	7.8	17.3	27.8	35.6	39.0	39.9
145°	26.1	26.1	22.5	17.3	8.7	2.6	6.9	16.4	21.6	25.2	25.2
147.5°	16.4	16.4	13.8	9.5	2.6	1.7	2.6	7.8	13.0	15.6	16.4
150°	9.5	9.5	6.9	3.5	1.7	0.9	1.7	2.6	5.2	7.8	7.8
152.5°	3.5	2.6	1.7	1.7	0.9	0.9	0.9	1.7	1.7	2.6	2.6
155°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
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)