

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: P266440

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5458 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 74
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



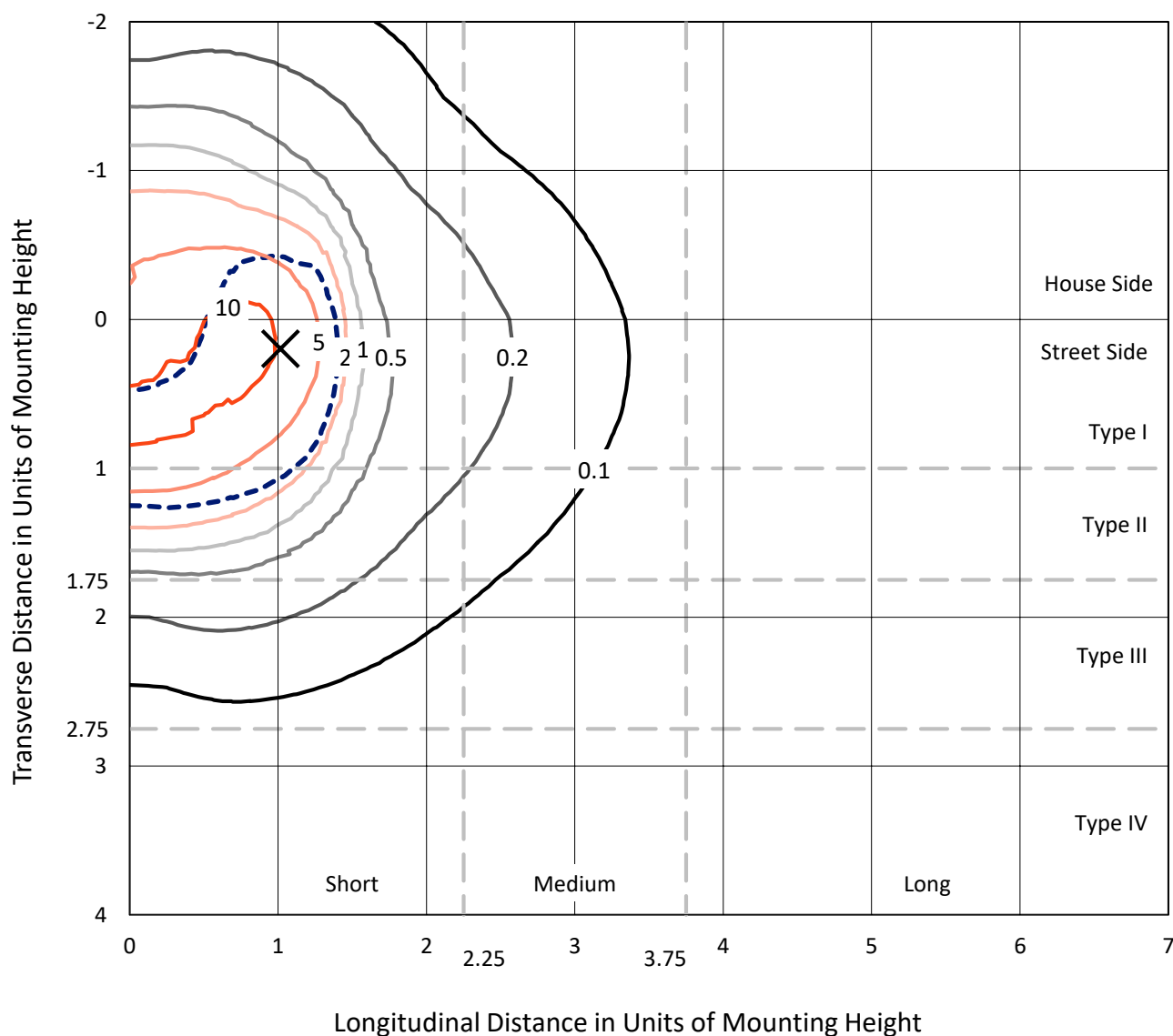
REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

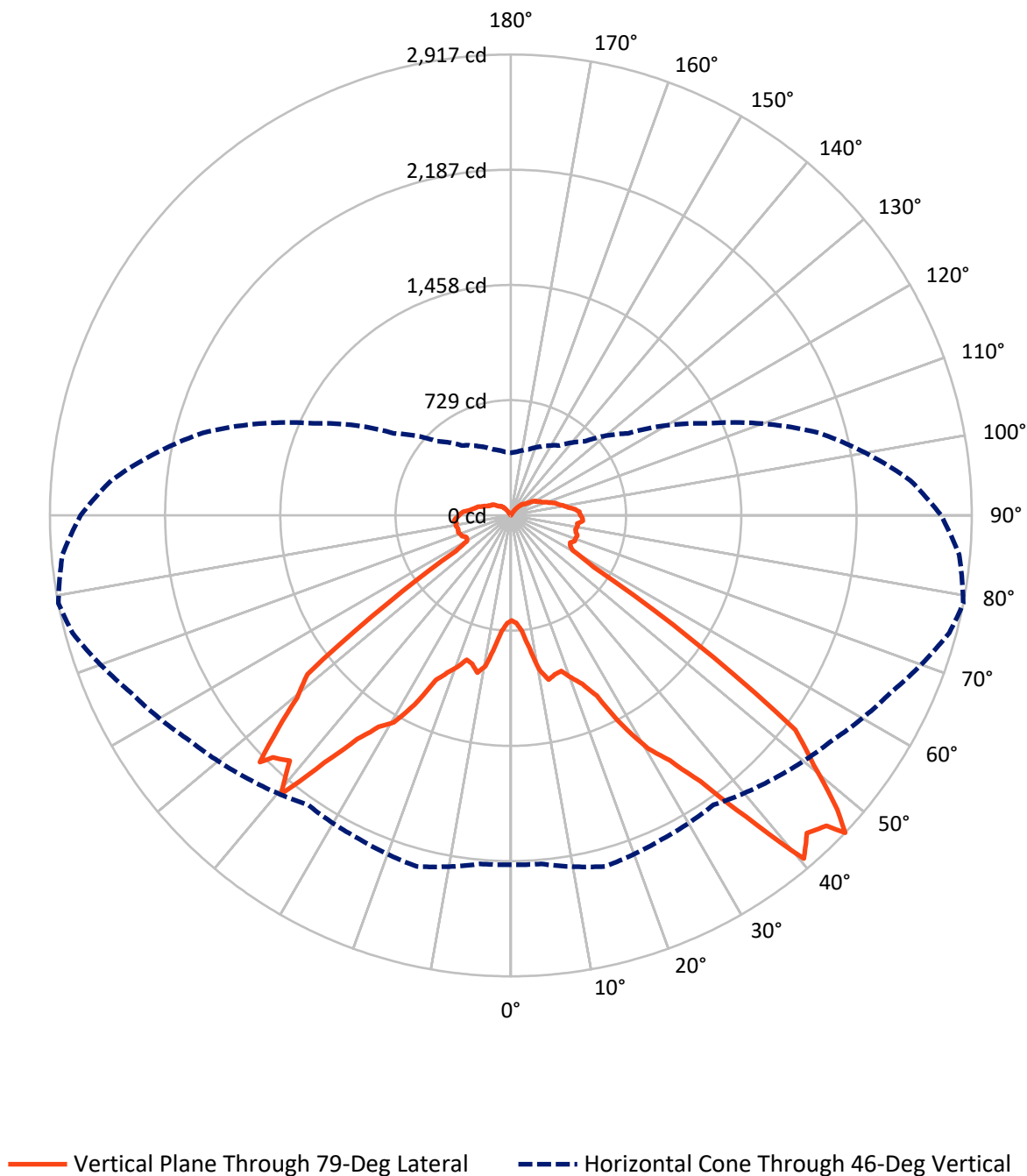


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

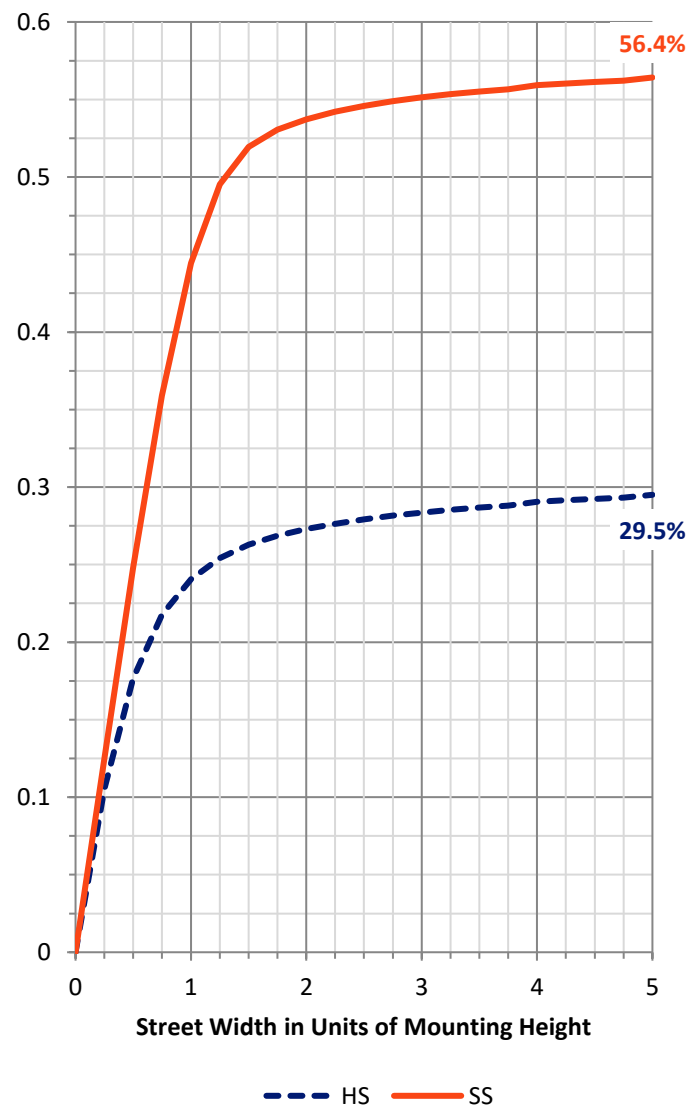
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.7	206.9	1870.6
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3138.4	448.9	3587.3
	% Fixture	57.5	8.2	65.7
Total	Lumens	4802.2	655.8	5458.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.3
10°-20°	259.3	4.8
20°-30°	523.9	9.6
30°-40°	959.0	17.6
40°-50°	1325.3	24.3
50°-60°	845.9	15.5
60°-70°	303.0	5.6
70°-80°	272.1	5.0
80°-90°	241.9	4.4
90°-100°	222.0	4.1
100°-110°	172.5	3.2
110°-120°	119.8	2.2
120°-130°	80.2	1.5
130°-140°	48.1	0.9
140°-150°	12.8	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4802.2	88.0
0°-180°	5458.0	100.0

Coefficient of Utilization



REPORT NUMBER: P266440

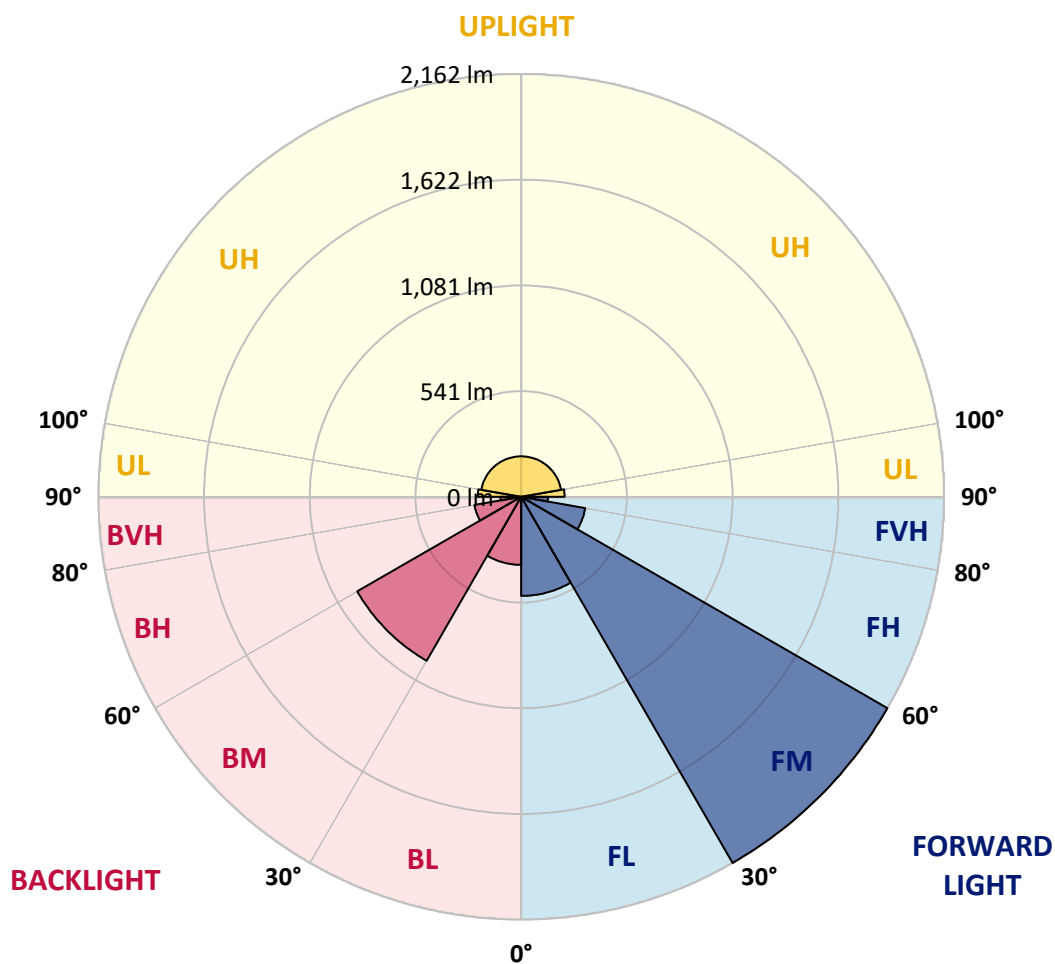
CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.9	9.3			
FM	(30°-60°)	2162.3	39.6			
FH	(60°-80°)	332.6	6.1			G0/660
FVH	(80°-90°)	136.7	2.5			G2/225
BL	(0°-30°)	347.9	6.4	B1/500		
BM	(30°-60°)	968.0	17.7	B1/1000		
BH	(60°-80°)	242.6	4.4	B1/500		G1/500
BVH	(80°-90°)	105.3	1.9			G2/225
UL	(90°-100°)	222.0	4.1		U3/500	
UH	(100°-180°)	206.9	3.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3
2.5°	676.2	678.4	677.7	676.2	679.2	680.6	680.6	679.8	680.6	682.1	685.0
5°	708.5	707.8	709.9	715.8	723.9	726.0	732.6	731.2	734.9	734.9	739.2
7.5°	764.8	765.5	772.9	778.8	787.5	806.6	825.0	849.1	848.4	846.9	852.9
10°	823.4	823.4	838.1	859.4	895.3	935.6	953.1	974.4	996.4	992.6	986.9
12.5°	841.8	844.8	870.4	923.1	1000.7	1069.6	1104.7	1100.5	1078.4	1066.0	1046.2
15°	875.5	879.1	907.0	987.5	1079.9	1141.4	1154.6	1100.5	1052.8	1044.0	1027.1
17.5°	1002.1	1002.1	1030.7	1104.7	1174.4	1160.5	1108.5	1082.7	1052.0	1035.1	1011.0
20°	1090.2	1095.3	1140.7	1192.7	1230.8	1185.4	1186.1	1138.5	1107.0	1096.7	1074.1
22.5°	1175.2	1182.4	1195.6	1277.0	1288.0	1296.8	1270.4	1227.2	1174.4	1157.6	1134.1
25°	1355.4	1357.6	1371.4	1410.2	1381.0	1366.3	1328.2	1293.1	1272.5	1263.7	1238.9
27.5°	1569.2	1562.7	1568.5	1571.5	1526.8	1486.4	1430.8	1468.2	1497.5	1505.5	1483.6
30°	1613.3	1602.2	1647.0	1694.6	1672.6	1624.2	1620.5	1665.3	1720.3	1710.0	1679.2
32.5°	1790.5	1773.7	1794.2	1799.3	1795.6	1781.8	1775.9	1832.4	1871.9	1849.2	1804.4
35°	1933.4	1932.7	1860.1	1877.0	1887.2	1919.5	1951.7	2028.6	2063.8	2065.3	2028.0
37.5°	2238.8	2216.8	2189.8	2082.8	2026.4	2041.0	2152.5	2288.7	2367.8	2419.9	2360.4
40°	2343.7	2353.2	2330.5	2318.7	2236.7	2202.3	2330.5	2564.9	2779.5	2855.7	2848.4
42.5°	2171.6	2193.5	2180.2	2261.7	2326.8	2370.7	2525.3	2726.0	2767.0	2747.3	2642.5
45°	2315.1	2315.1	2279.9	2229.4	2252.1	2394.9	2517.3	2652.9	2781.1	2801.5	2743.7
46°	2211.1	2213.2	2299.8	2261.7	2235.9	2354.6	2482.1	2652.9	2871.9	2916.5	2848.4
47.5°	2019.1	2015.4	2174.3	2186.8	2204.5	2301.8	2441.9	2652.1	2775.9	2778.8	2693.8
50°	1600.1	1606.7	1824.9	1940.7	2056.5	2152.5	2341.4	2460.2	2487.9	2482.8	2390.5
52.5°	1298.9	1316.6	1432.3	1578.1	1718.0	1902.6	2122.4	2233.0	2293.8	2253.6	2168.6
55°	900.5	938.5	1084.3	1215.4	1420.6	1597.8	1787.5	1797.9	1520.2	1393.5	1236.0
57.5°	556.8	564.1	693.0	878.5	1032.2	1171.5	1173.6	912.0	709.9	616.9	512.8
60°	309.1	315.8	430.1	567.0	717.2	734.0	655.8	527.5	473.2	449.2	412.4
62.5°	230.1	235.1	309.8	394.1	454.3	478.3	440.3	431.5	432.3	421.2	397.1
65°	207.2	210.3	271.7	314.2	349.5	354.7	368.6	399.2	416.2	413.8	403.7
67.5°	188.3	192.0	247.7	278.4	299.7	324.6	336.2	383.8	429.3	436.7	427.1
70°	167.8	173.6	223.5	255.7	279.8	304.0	327.5	386.8	423.5	433.7	429.3
72.5°	145.0	152.4	194.2	227.8	254.9	281.3	321.7	372.2	422.1	440.3	443.3
75°	127.5	137.0	171.4	201.5	230.1	261.5	304.0	367.0	413.8	425.6	431.5
77.5°	115.1	125.3	151.6	179.5	206.6	241.0	290.2	365.6	405.9	419.1	429.3
80°	105.6	115.7	137.7	159.7	182.4	221.3	275.5	363.4	413.8	427.9	433.7
82.5°	98.2	107.6	126.8	146.6	164.8	200.1	265.2	359.7	411.8	423.5	426.3
85°	99.0	106.2	123.7	142.1	159.0	189.1	260.1	361.2	438.8	457.1	460.1
87.5°	104.1	109.1	127.5	148.7	167.8	198.5	269.6	358.2	435.9	452.7	460.1
90°	112.8	117.1	139.1	164.1	186.8	215.5	267.4	350.2	423.5	438.8	443.3
92.5°	140.0	143.5	167.8	194.9	214.7	224.1	258.6	362.6	425.6	434.4	434.4
95°	181.0	185.4	208.8	229.2	233.0	227.8	254.2	322.3	388.2	407.3	418.3
97.5°	226.5	227.8	241.0	244.7	233.6	222.1	248.3	301.1	352.3	365.6	368.6
100°	241.0	241.0	249.8	246.9	225.7	209.6	224.9	274.1	323.7	338.5	342.9
102.5°	244.0	245.4	254.2	244.7	216.1	189.7	200.1	246.9	293.0	309.1	318.0
105°	258.6	259.3	254.2	230.8	195.7	172.1	181.0	227.8	276.9	292.3	301.8
107.5°	241.7	239.6	225.7	203.6	180.2	163.4	173.6	208.0	245.4	257.9	264.6



REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	200.1	198.5	193.4	185.4	170.7	158.2	164.8	196.3	232.2	241.7	247.7
112.5°	192.6	191.2	186.0	176.5	159.7	150.1	161.2	188.3	210.3	214.7	215.5
115°	185.4	184.0	172.1	161.2	148.0	143.5	150.9	175.8	196.3	201.5	205.9
117.5°	159.7	158.2	149.5	142.9	137.7	140.0	152.4	166.2	181.0	185.4	188.3
120°	142.1	141.5	137.0	132.6	129.6	131.2	144.3	159.7	174.5	178.8	181.0
122.5°	134.0	133.4	128.2	121.6	121.6	121.6	132.0	143.5	159.7	163.4	168.5
125°	117.9	117.9	112.8	107.6	115.1	117.9	120.2	120.9	133.4	139.1	141.5
127.5°	104.7	105.6	101.1	97.5	110.6	117.1	115.7	106.2	113.5	117.9	120.9
130°	103.2	103.2	98.2	93.8	100.4	113.5	109.1	99.6	108.4	111.4	112.8
132.5°	100.4	100.4	95.2	88.7	90.1	104.7	95.2	93.1	101.1	104.1	104.7
135°	92.3	92.3	88.7	79.9	74.0	88.7	77.0	81.3	89.4	91.5	92.3
137.5°	82.0	82.0	78.4	71.1	58.6	66.7	59.4	68.9	77.0	79.1	79.9
140°	67.5	66.7	64.5	55.7	42.5	37.4	40.3	54.9	63.1	64.5	66.7
142.5°	49.9	50.6	46.9	39.5	25.6	14.0	23.4	35.2	43.9	46.2	47.6
145°	36.7	35.9	32.2	25.6	14.0	2.2	11.0	22.0	27.8	30.1	31.5
147.5°	24.2	24.2	21.2	15.5	4.4	0.7	3.0	11.0	17.5	19.0	19.9
150°	16.1	16.1	11.7	4.4	0.7	0.7	0.7	2.2	7.4	8.9	10.3
152.5°	5.1	5.1	2.2	1.4	0.7	0.0	0.0	0.7	1.4	1.4	2.2
155°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	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: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3
2.5°	685.8	685.0	682.8	680.6	674.7	667.4	660.1	655.0	652.0	649.8	649.1
5°	737.8	739.2	729.0	712.0	695.9	681.4	667.4	654.2	646.9	641.0	638.9
7.5°	848.4	850.5	830.0	803.8	762.7	712.9	670.3	641.7	621.3	608.8	606.6
10°	985.4	979.5	955.3	898.9	824.3	747.3	667.4	605.8	572.8	557.5	556.8
12.5°	1041.0	1033.1	1005.9	959.0	880.6	780.3	681.4	600.0	550.9	531.2	530.4
15°	1015.4	1001.5	951.7	908.5	877.6	821.9	733.3	640.3	572.8	548.0	541.4
17.5°	993.4	979.5	937.7	875.5	817.5	793.5	750.3	673.3	602.9	567.8	560.5
20°	1057.9	1049.1	997.1	914.4	850.5	753.9	718.7	666.0	613.3	591.3	585.3
22.5°	1117.2	1112.8	1047.7	961.1	875.5	808.0	737.8	698.9	647.7	632.2	625.7
25°	1227.9	1207.3	1100.5	984.0	910.0	844.0	753.9	693.0	630.8	610.9	607.3
27.5°	1488.0	1440.3	1284.2	1109.1	960.5	855.6	752.4	662.9	594.9	570.0	568.4
30°	1653.5	1610.3	1434.5	1241.7	1039.6	883.6	742.9	635.2	583.9	559.7	560.5
32.5°	1753.9	1696.0	1498.3	1254.3	1057.9	897.4	748.7	625.7	556.8	526.0	525.2
35°	1971.5	1890.9	1603.7	1354.6	1093.7	876.9	723.9	605.8	542.1	519.4	516.4
37.5°	2281.3	2190.5	1801.6	1435.9	1108.5	849.8	691.5	583.2	507.0	475.5	473.2
40°	2729.1	2595.7	2075.5	1534.1	1096.7	829.3	656.4	548.8	485.8	465.2	458.7
42.5°	2507.0	2356.2	1912.1	1515.0	1067.5	772.9	622.7	531.8	473.2	457.1	448.3
45°	2645.5	2469.7	1932.0	1408.8	955.3	689.4	565.7	498.2	439.6	416.9	414.7
46°	2722.5	2538.5	2017.7	1376.7	904.1	662.9	539.9	482.7	432.3	402.9	396.3
47.5°	2555.4	2351.0	1855.0	1313.6	863.0	603.8	506.3	458.7	424.2	397.1	392.6
50°	2241.1	2041.0	1604.5	1120.1	742.9	532.6	451.3	422.7	388.2	359.1	353.8
52.5°	2045.5	1877.6	1468.9	1016.2	630.8	449.2	402.9	378.0	342.9	308.5	304.0
55°	1124.6	1008.8	907.6	763.4	523.2	379.5	350.9	336.2	300.4	266.6	264.6
57.5°	463.0	416.2	412.4	389.1	359.7	319.3	303.3	294.6	258.6	217.6	216.1
60°	389.8	347.3	306.2	269.6	267.4	266.6	261.5	246.1	206.6	164.1	162.7
62.5°	379.5	337.8	297.5	252.8	233.6	239.6	230.1	211.0	181.0	140.0	138.5
65°	386.8	343.6	296.0	245.4	224.9	227.1	216.9	202.2	181.6	152.4	150.9
67.5°	411.8	367.0	313.6	242.5	217.6	222.1	214.7	203.6	192.0	173.6	170.0
70°	415.3	375.9	314.2	244.0	209.6	214.7	212.4	202.9	194.9	178.8	176.5
72.5°	426.3	390.6	320.9	238.8	200.7	202.9	205.9	202.9	197.7	188.3	184.6
75°	416.2	384.7	318.0	234.5	192.0	190.5	197.7	201.5	202.9	199.2	194.9
77.5°	413.8	387.6	318.7	231.6	184.0	178.0	184.0	189.7	192.6	189.1	185.4
80°	416.9	394.1	328.2	232.2	175.1	160.4	163.4	170.0	170.7	164.1	159.0
82.5°	410.3	388.2	318.0	224.1	161.2	142.9	143.5	150.1	150.9	142.9	137.0
85°	439.6	413.2	325.2	213.9	146.6	130.4	131.2	134.0	129.6	120.9	115.1
87.5°	438.8	407.3	310.6	197.7	137.0	123.1	122.3	121.6	114.3	104.1	99.0
90°	423.5	390.6	290.8	174.5	120.9	112.8	110.6	106.2	95.9	84.3	80.6
92.5°	413.2	378.0	277.7	164.8	106.2	99.0	97.5	93.1	82.7	70.3	68.1
95°	402.3	367.8	255.7	144.3	93.8	86.4	84.3	79.9	71.9	61.5	60.0
97.5°	354.7	320.9	225.7	131.2	83.5	75.5	74.0	70.3	63.7	56.5	55.7
100°	327.5	297.5	209.6	120.2	74.6	65.9	65.1	63.1	58.6	53.4	52.7
102.5°	306.2	276.9	194.2	111.4	66.7	58.6	57.9	57.1	54.9	51.4	51.4
105°	290.2	262.2	186.0	104.1	60.0	53.4	52.7	52.7	50.6	48.4	48.4
107.5°	252.8	229.2	162.0	92.3	54.9	49.0	49.0	49.0	47.6	46.2	46.9



REPORT NUMBER: P266440

CATALOG NUMBER: UTLD-AF24-70-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	238.1	216.1	153.9	86.4	52.7	45.5	44.6	44.6	43.9	44.6	44.6
112.5°	205.2	186.0	135.6	82.7	51.4	43.2	41.1	39.5	38.1	39.5	40.3
115°	197.1	179.5	131.2	79.9	49.9	41.7	38.8	36.7	33.6	35.9	35.9
117.5°	181.0	164.8	121.6	77.7	49.9	39.5	36.7	34.5	31.5	33.0	33.0
120°	173.6	159.7	122.3	79.9	50.6	37.4	34.5	30.8	28.6	30.8	30.8
122.5°	163.4	150.9	115.1	75.5	48.4	36.7	33.6	26.4	25.0	27.0	27.0
125°	137.0	126.8	99.0	66.7	46.2	36.7	33.0	23.4	23.4	25.0	25.6
127.5°	116.5	108.4	85.7	62.3	46.9	38.8	31.5	20.5	22.0	24.2	24.2
130°	110.0	103.2	85.0	63.7	49.0	41.1	25.6	19.0	20.5	22.6	22.6
132.5°	102.5	96.7	82.0	65.1	49.9	38.8	21.2	17.5	19.0	20.5	20.5
135°	90.1	85.7	74.0	59.4	44.6	30.8	16.9	15.5	17.5	19.0	19.9
137.5°	79.1	75.5	65.1	53.4	40.3	26.4	11.7	14.0	15.5	16.1	16.9
140°	65.1	63.1	54.9	43.9	30.1	14.6	8.9	11.0	12.4	14.0	14.0
142.5°	47.6	46.2	38.8	28.6	18.3	5.8	5.8	8.1	9.5	11.0	11.0
145°	31.5	30.1	25.0	18.3	8.1	1.4	3.7	5.8	8.1	8.9	8.9
147.5°	19.9	19.0	15.5	9.5	3.0	1.4	1.4	4.4	5.8	6.6	6.6
150°	10.3	9.5	6.6	3.0	1.4	0.7	0.7	1.4	3.7	4.4	4.4
152.5°	2.2	2.2	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	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)