

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: P266518

Luminaire Tested: **UTLD-AF24-90-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266518
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-AF24-90-D-U-T3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 6378.7 lumens
Efficiency: N/A
Efficacy: 67.9 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): 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



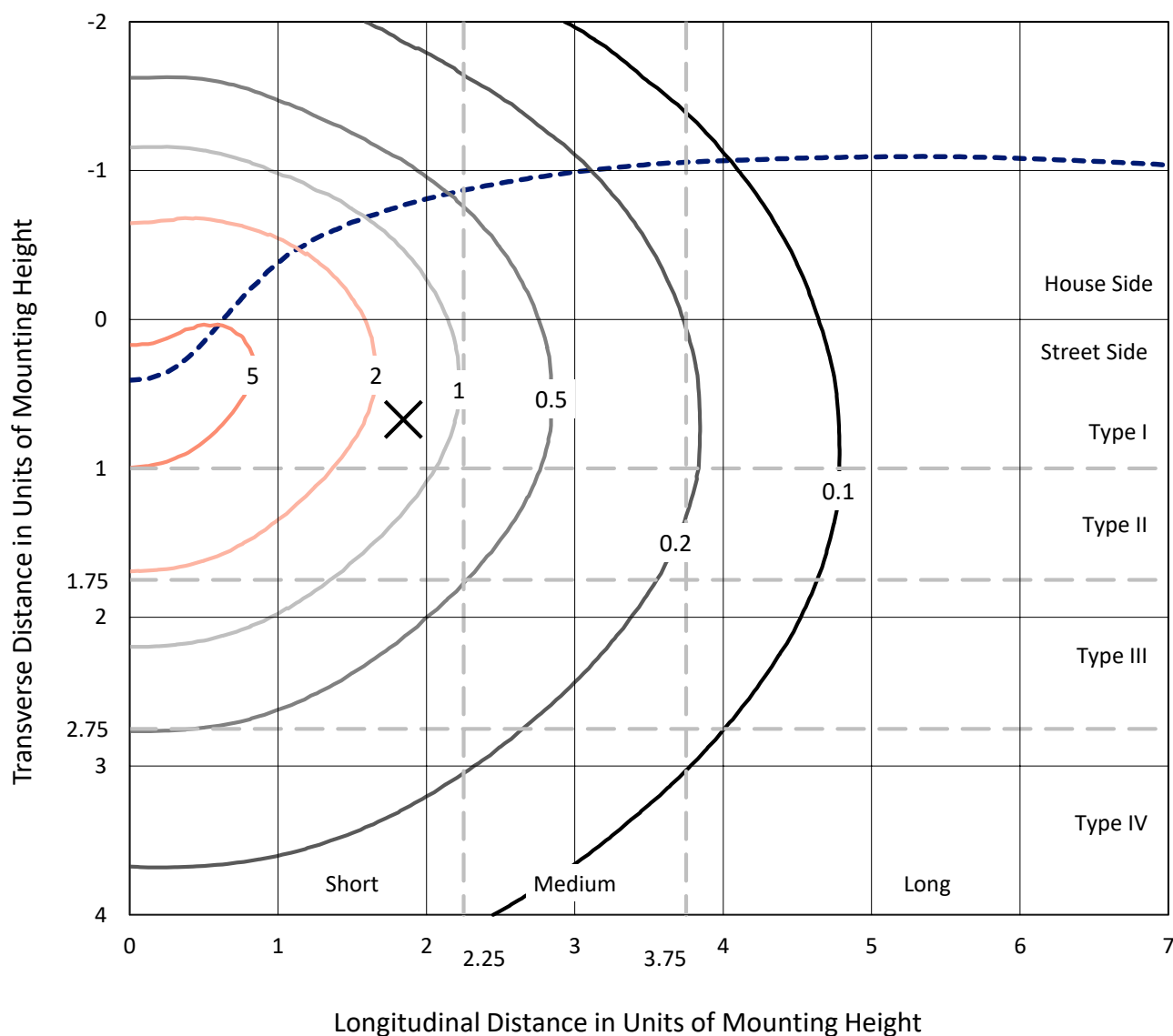
REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

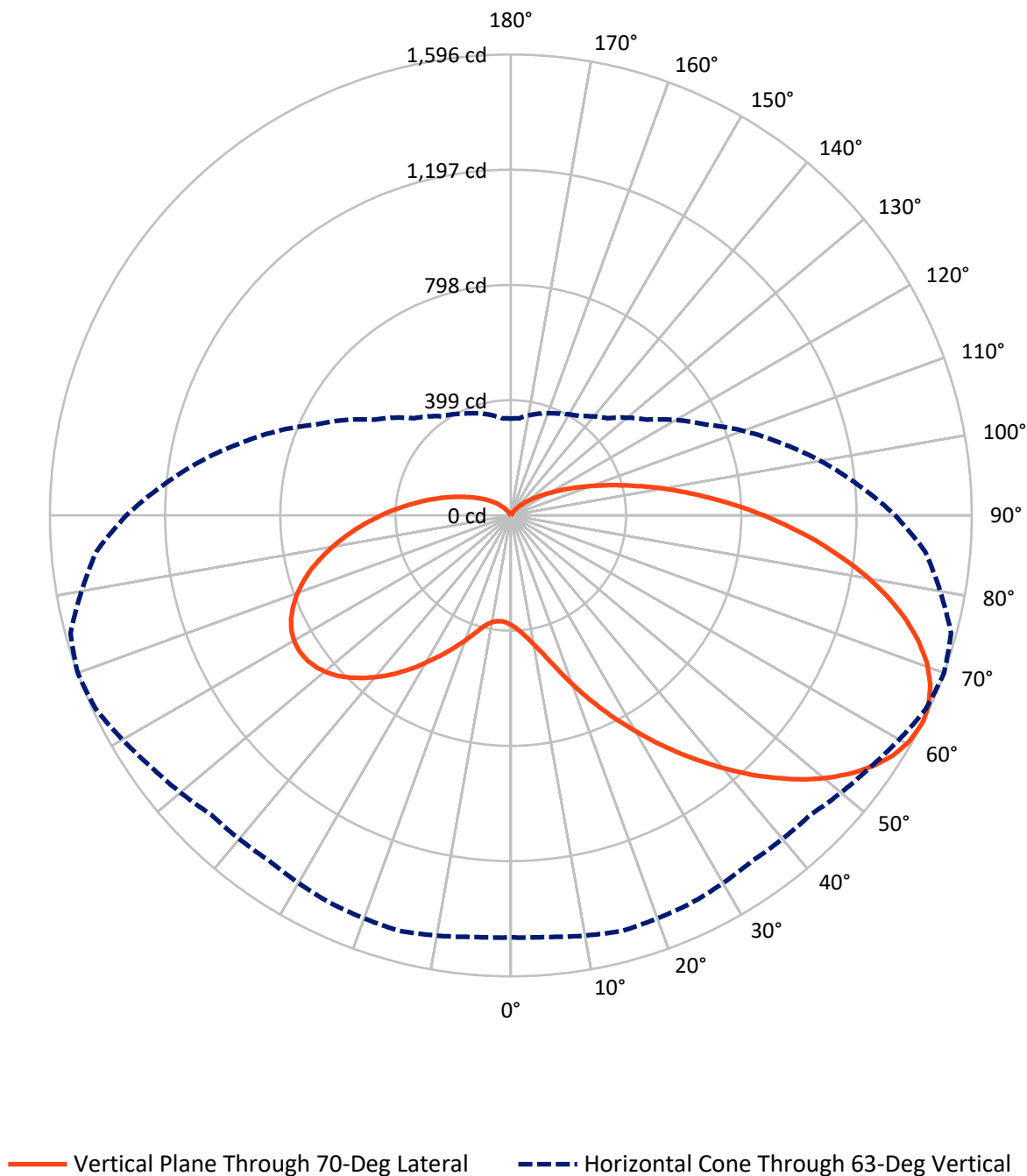


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

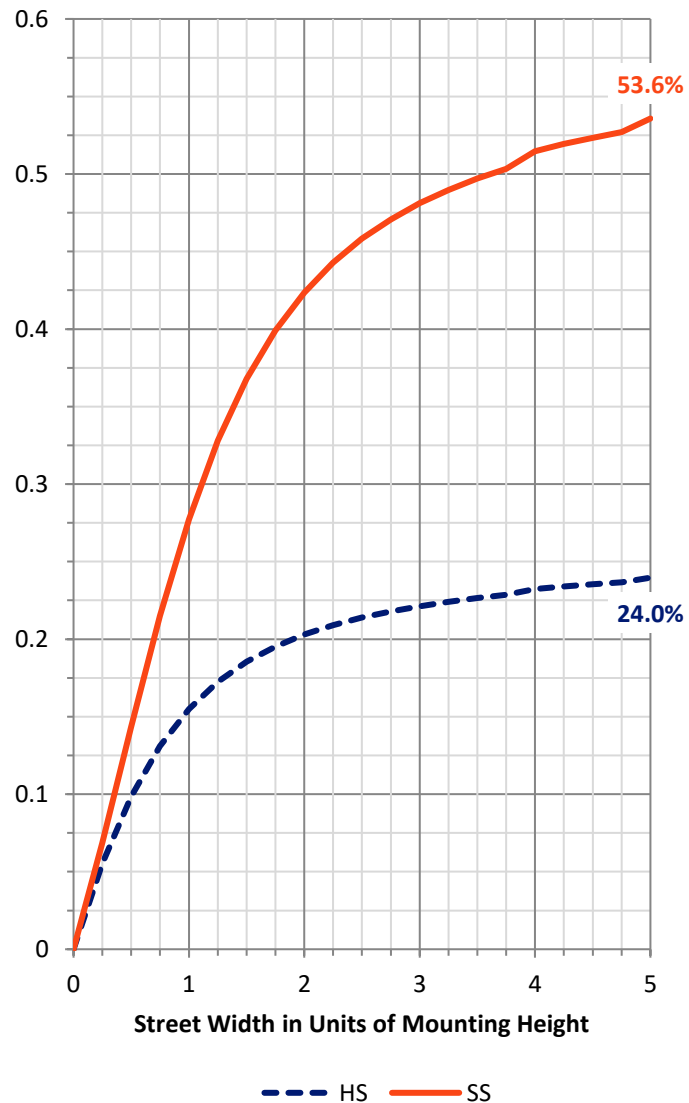
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.4	369.1	1999.5
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3685.7	693.4	4379.2
	% Fixture	57.8	10.9	68.7
Total	Lumens	5316.2	1062.5	6378.7
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	0.6
10°-20°	133.1	2.1
20°-30°	285.9	4.5
30°-40°	498.2	7.8
40°-50°	740.2	11.6
50°-60°	945.2	14.8
60°-70°	1024.8	16.1
70°-80°	933.2	14.6
80°-90°	717.9	11.3
90°-100°	481.5	7.5
100°-110°	291.8	4.6
110°-120°	162.9	2.6
120°-130°	82.7	1.3
130°-140°	34.2	0.5
140°-150°	8.7	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5316.2	83.3
0°-180°	6378.7	100.0

Coefficient of Utilization



REPORT NUMBER: P266518

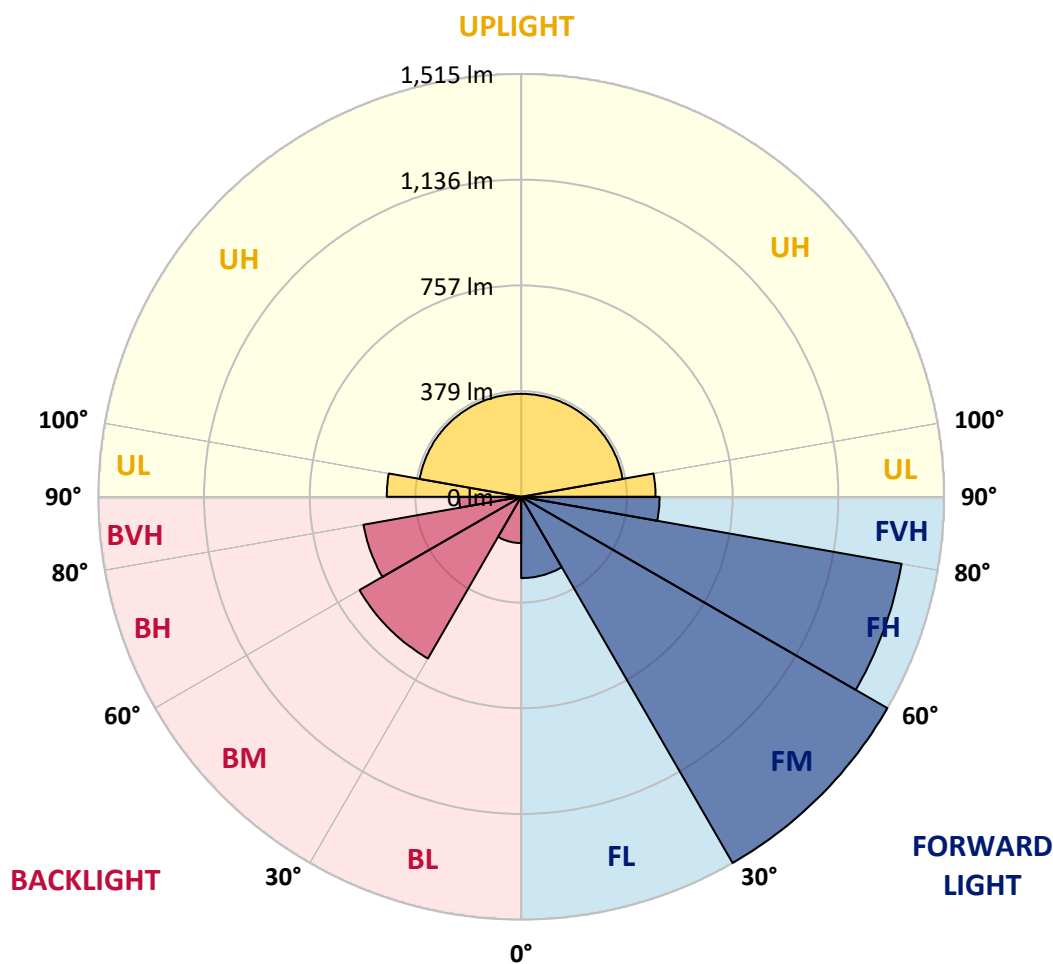
CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.1	4.6			
FM	(30°-60°)	1515.0	23.8			
FH	(60°-80°)	1384.0	21.7			G1/1800
FVH	(80°-90°)	495.6	7.8			G3/500
BL	(0°-30°)	165.6	2.6	B1/500		
BM	(30°-60°)	668.6	10.5	B1/1000		
BH	(60°-80°)	573.9	9.0	B2/1000		G2/1000
BVH	(80°-90°)	222.2	3.5			G2/225
UL	(90°-100°)	481.5	7.5		U3/500	
UH	(100°-180°)	369.1	5.8		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	411.7	411.7	410.9	409.9	407.6	404.1	399.0	395.8	392.4	389.9	384.8
5°	446.8	448.6	445.2	443.6	437.7	430.9	423.5	414.2	409.9	404.1	394.0
7.5°	484.5	486.3	482.8	478.7	471.3	461.1	449.4	437.7	430.1	422.6	407.6
10°	526.5	527.3	523.2	518.1	508.9	496.4	483.7	466.2	457.7	447.7	427.7
12.5°	573.5	571.9	568.4	560.1	549.1	535.7	519.0	501.3	489.7	477.9	452.7
15°	627.1	626.3	620.4	610.4	597.0	581.8	561.7	542.4	530.7	518.1	488.0
17.5°	683.3	681.6	675.7	664.0	649.7	630.5	615.3	592.7	578.5	565.2	530.7
20°	739.5	738.6	734.5	721.0	705.1	690.0	669.9	646.4	632.1	613.7	574.3
22.5°	804.1	801.5	794.8	783.1	769.7	754.5	733.6	704.4	688.3	670.8	623.9
25°	868.7	867.8	859.4	846.8	836.0	819.2	799.0	764.6	748.6	724.5	674.1
27.5°	935.7	934.0	925.7	912.1	903.9	887.9	862.7	829.1	809.9	786.5	730.2
30°	1005.3	1004.5	994.3	980.9	971.7	956.7	930.6	894.6	875.3	849.3	786.5
32.5°	1074.8	1074.8	1064.9	1053.1	1042.2	1022.9	998.6	964.2	943.2	915.6	845.1
35°	1147.8	1143.6	1136.0	1125.1	1107.5	1088.2	1066.5	1035.4	1013.6	983.5	908.8
37.5°	1216.6	1216.6	1204.0	1194.7	1175.4	1153.7	1133.5	1107.5	1083.3	1053.9	970.9
40°	1284.4	1285.3	1273.5	1261.8	1236.6	1216.6	1199.0	1177.9	1156.2	1125.9	1038.8
42.5°	1349.9	1348.1	1337.2	1323.8	1296.2	1273.5	1262.7	1245.1	1229.2	1197.3	1104.1
45°	1410.2	1406.0	1397.7	1381.8	1349.9	1327.2	1323.1	1314.6	1298.0	1269.3	1170.4
47.5°	1457.2	1454.6	1451.3	1430.3	1397.7	1375.8	1375.8	1379.2	1366.6	1337.2	1232.5
50°	1495.8	1494.9	1493.3	1469.7	1434.6	1417.7	1424.4	1436.2	1427.9	1401.8	1287.8
52.5°	1521.6	1520.9	1523.3	1499.1	1464.6	1449.7	1465.6	1489.0	1482.4	1458.8	1340.6
55°	1531.8	1531.8	1539.3	1516.7	1482.4	1470.5	1496.5	1529.3	1528.5	1507.4	1380.9
57.5°	1527.6	1528.5	1541.9	1520.9	1489.0	1482.4	1516.7	1561.2	1564.5	1543.5	1414.4
60°	1508.3	1509.2	1527.6	1511.7	1484.0	1482.4	1526.0	1580.4	1587.1	1568.7	1433.7
62.5°	1471.5	1474.7	1497.5	1487.4	1464.6	1470.5	1522.5	1586.2	1595.5	1578.0	1441.2
63°	1461.4	1465.6	1489.8	1480.6	1459.7	1466.5	1520.0	1586.2	1596.4	1578.7	1441.2
65°	1420.3	1425.3	1453.0	1448.7	1433.7	1446.4	1505.7	1577.1	1589.6	1573.7	1433.7
67.5°	1354.0	1364.0	1396.0	1399.3	1391.7	1411.1	1476.5	1553.6	1567.1	1551.9	1411.1
70°	1274.3	1286.2	1327.2	1337.2	1335.6	1364.0	1433.7	1514.2	1528.5	1513.4	1372.5
72.5°	1188.8	1204.7	1242.5	1264.4	1275.2	1306.2	1380.9	1460.6	1474.7	1458.8	1321.3
75°	1095.8	1112.6	1159.5	1186.3	1203.1	1241.6	1315.5	1395.1	1407.7	1395.1	1256.8
77.5°	1002.8	1019.4	1067.2	1101.7	1127.6	1173.7	1246.7	1319.7	1329.0	1315.5	1181.4
80°	907.2	926.4	972.5	1012.7	1048.1	1094.1	1164.6	1230.8	1241.6	1224.1	1100.1
82.5°	812.4	829.1	881.1	928.0	965.9	1012.0	1079.0	1141.0	1146.1	1128.5	1010.4
85°	726.9	741.1	792.3	842.6	887.0	932.4	994.3	1043.8	1051.3	1028.6	921.4
87.5°	646.4	657.3	711.0	760.4	805.7	856.1	911.4	950.8	950.8	933.2	828.3
90°	571.9	579.3	627.9	682.4	731.1	775.5	827.5	861.0	856.9	835.1	741.1
92.5°	499.6	508.9	556.7	608.7	658.2	704.4	746.2	768.8	763.0	740.4	657.3
95°	440.2	444.3	491.4	545.0	590.2	632.1	669.1	685.0	675.7	653.1	574.3
97.5°	385.6	389.1	430.1	481.2	529.9	568.4	593.6	603.7	594.5	571.9	506.5
100°	341.3	342.1	378.9	428.4	473.6	507.3	529.9	529.9	521.5	498.9	439.4
102.5°	297.7	299.3	329.5	378.9	421.8	451.0	468.6	466.9	451.8	429.3	381.5
105°	262.5	264.1	287.5	335.3	374.0	400.7	414.9	405.0	390.8	370.6	330.3
107.5°	231.5	232.2	250.6	293.4	330.3	355.5	363.1	352.1	336.1	316.9	288.4



REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	207.1	206.3	220.5	257.4	292.6	313.6	317.8	304.3	288.4	272.5	249.0
112.5°	183.7	183.7	192.9	223.9	256.6	276.7	278.4	259.2	245.6	231.5	216.3
115°	164.3	163.5	170.1	194.6	224.7	241.5	239.8	222.2	209.7	197.8	187.7
117.5°	147.5	145.9	150.9	167.7	195.3	211.3	207.1	186.9	177.8	169.4	163.5
120°	132.5	131.6	134.1	145.9	167.7	180.3	176.1	158.6	150.0	145.9	142.6
122.5°	119.0	119.0	118.1	125.8	142.6	152.6	146.8	132.5	127.4	125.0	125.0
125°	107.3	107.3	105.6	108.2	119.0	127.4	122.3	110.8	107.3	107.3	108.2
127.5°	95.6	95.6	94.0	93.1	98.1	103.9	98.1	91.4	90.5	91.4	93.1
130°	84.7	83.8	82.1	78.8	79.7	82.1	78.0	74.6	75.5	78.0	79.7
132.5°	74.6	73.8	71.2	66.3	62.9	62.9	59.6	59.6	62.1	64.6	67.9
135°	64.6	63.7	61.3	55.3	49.4	46.2	43.6	46.9	50.3	52.8	56.1
137.5°	54.4	53.7	50.3	44.5	36.9	31.9	31.0	36.0	39.3	42.8	45.3
140°	44.5	43.6	40.2	34.3	26.1	20.1	20.1	26.8	30.3	32.7	36.0
142.5°	35.3	34.3	31.9	25.2	16.8	12.5	13.5	19.3	21.7	24.3	26.8
145°	26.1	26.1	23.4	17.5	10.2	5.8	7.5	12.5	15.1	16.8	19.3
147.5°	17.5	17.5	15.1	10.9	5.8	2.5	3.4	7.5	9.3	10.9	12.5
150°	10.9	10.9	9.3	5.8	2.5	0.0	1.6	3.4	5.0	5.8	7.5
152.5°	5.8	5.8	4.2	2.5	0.9	0.0	0.0	1.6	1.6	2.5	3.4
155°	2.5	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	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: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	382.3	379.9	374.0	369.7	364.7	360.5	358.1	353.8	351.2	352.1	351.2
5°	389.1	383.9	373.1	363.9	353.8	345.4	338.8	332.8	329.5	327.1	327.8
7.5°	399.9	392.4	376.5	361.4	346.2	333.7	323.6	316.1	309.3	307.7	306.9
10°	416.8	406.7	383.9	363.9	344.6	327.1	313.6	302.6	295.9	292.6	292.6
12.5°	440.2	425.9	397.4	370.6	346.2	324.5	307.7	294.3	286.6	283.3	282.5
15°	472.9	455.3	420.0	383.9	352.9	327.1	306.9	293.4	287.5	285.9	285.0
17.5°	510.5	491.4	447.7	405.8	366.4	333.7	314.3	303.4	296.8	293.4	292.6
20°	553.4	528.3	478.7	430.1	385.6	351.2	329.5	314.3	306.1	301.8	301.0
22.5°	597.0	569.3	512.3	456.1	407.6	375.6	344.6	326.2	314.3	309.3	307.7
25°	643.9	612.9	546.7	483.7	434.3	398.3	363.1	336.1	322.9	316.9	316.9
27.5°	694.2	658.2	582.7	512.3	462.0	419.1	380.6	347.1	331.1	324.5	323.6
30°	747.0	706.7	619.7	543.3	488.0	438.6	395.8	358.9	339.6	332.1	331.1
32.5°	804.1	757.9	660.7	576.8	512.3	456.1	409.2	369.7	347.1	337.9	337.0
35°	860.1	808.2	699.2	609.5	534.0	471.3	420.0	380.6	352.9	343.7	343.0
37.5°	922.3	862.0	740.4	641.4	554.2	482.8	429.3	389.1	358.9	348.8	347.1
40°	981.8	914.7	778.9	669.9	571.0	493.8	436.8	396.6	363.9	352.9	351.2
42.5°	1040.4	968.4	817.5	696.7	585.2	500.5	441.8	401.6	368.9	356.3	353.8
45°	1099.2	1018.7	856.9	718.6	596.1	506.5	445.2	405.8	373.1	358.1	356.3
47.5°	1153.7	1068.2	892.9	737.8	603.7	508.9	446.8	407.6	376.5	358.9	356.3
50°	1205.6	1110.9	923.1	752.1	608.7	508.9	446.8	408.3	378.1	358.9	357.2
52.5°	1250.9	1147.8	947.4	761.3	609.5	506.5	444.3	407.6	378.1	357.2	354.7
55°	1285.3	1177.9	965.0	765.4	607.1	502.2	440.2	405.0	377.3	354.7	352.1
57.5°	1313.0	1199.0	975.9	764.6	601.1	495.5	435.0	401.6	374.8	350.5	348.0
60°	1329.8	1209.8	977.5	758.8	592.7	487.2	428.4	396.6	371.4	346.2	343.0
62.5°	1332.2	1208.9	971.7	747.0	580.1	477.1	420.0	389.9	365.5	339.6	336.1
63°	1331.4	1208.2	968.4	744.5	577.7	475.5	419.1	389.1	364.7	337.9	335.3
65°	1322.1	1198.1	955.7	731.1	565.9	465.3	411.7	382.3	359.7	332.8	328.7
67.5°	1298.0	1175.4	932.4	708.5	548.3	451.8	400.7	374.0	351.2	324.5	320.2
70°	1261.0	1143.6	900.5	683.3	529.9	437.7	389.1	363.1	342.1	315.2	310.3
72.5°	1211.5	1097.5	863.6	654.0	508.1	421.8	375.6	351.2	330.3	305.2	297.7
75°	1151.9	1043.8	822.5	622.0	484.5	405.0	362.1	339.6	318.5	293.4	285.9
77.5°	1080.8	982.7	771.4	588.6	462.0	387.3	347.1	325.2	305.2	280.0	272.5
80°	1004.5	914.7	720.3	550.8	436.8	368.9	332.1	310.3	290.2	266.5	257.4
82.5°	923.9	841.8	665.7	514.8	411.7	349.6	316.1	294.3	275.1	252.3	244.0
85°	842.6	768.8	612.9	478.7	385.6	331.1	299.3	279.3	258.3	236.4	228.1
87.5°	762.1	697.5	561.7	441.0	361.4	312.7	282.5	262.5	241.5	220.5	213.7
90°	685.0	628.9	508.1	405.8	336.1	292.6	265.8	245.6	225.6	204.5	197.8
92.5°	607.9	559.3	459.5	374.0	312.7	274.2	249.0	228.9	208.0	187.7	183.7
95°	539.2	497.2	413.3	339.6	290.2	256.6	232.2	213.0	191.2	171.8	169.4
97.5°	474.6	438.6	368.0	310.3	267.4	237.2	215.5	195.3	173.6	155.9	154.2
100°	416.8	387.3	329.5	280.0	244.8	219.6	199.6	179.4	157.7	142.6	140.9
102.5°	363.9	340.4	293.4	253.2	224.7	202.1	181.9	162.7	141.8	128.3	128.3
105°	318.5	297.7	259.9	228.1	203.7	183.7	165.2	145.9	125.0	114.1	114.1
107.5°	275.8	261.5	230.5	203.7	184.4	166.8	149.3	130.0	109.9	101.5	102.2



REPORT NUMBER: P266518

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	240.7	228.9	202.8	182.7	166.8	150.9	134.1	114.9	95.6	89.7	90.5
112.5°	209.7	200.4	178.7	162.7	149.3	135.9	119.0	99.8	83.1	79.7	80.5
115°	182.7	175.2	158.6	144.2	133.3	120.7	105.6	86.3	72.1	70.4	70.4
117.5°	159.3	153.4	139.1	128.3	118.1	107.3	92.3	74.6	62.1	62.1	62.1
120°	140.0	134.9	123.2	113.1	104.8	94.0	79.7	62.9	53.7	54.4	54.4
122.5°	121.6	118.1	107.3	99.8	91.4	82.1	67.9	52.0	46.2	47.8	48.6
125°	106.4	103.1	94.7	86.3	78.8	69.6	56.1	43.6	40.2	42.0	42.0
127.5°	91.4	89.7	82.1	74.6	67.9	58.7	46.2	36.0	35.3	36.9	36.9
130°	78.8	77.2	71.2	62.9	56.1	47.8	36.9	29.4	29.4	31.0	31.0
132.5°	67.1	66.3	60.4	52.8	46.2	37.6	29.4	23.4	25.2	26.8	26.8
135°	55.3	55.3	50.3	42.8	36.0	28.4	21.7	19.3	21.0	22.6	22.6
137.5°	45.3	44.5	40.2	33.5	26.8	21.0	15.9	15.1	17.5	19.3	19.3
140°	36.0	35.3	31.9	26.1	19.3	14.3	10.9	11.8	14.3	15.1	15.9
142.5°	26.8	26.8	23.4	19.3	12.5	8.4	6.6	9.3	10.9	11.8	12.5
145°	19.3	19.3	16.8	12.5	7.5	4.2	4.2	6.6	8.4	9.3	9.3
147.5°	12.5	12.5	10.9	7.5	4.2	1.6	2.5	4.2	5.8	6.6	6.6
150°	7.5	6.6	5.8	3.4	1.6	0.0	0.9	1.6	3.4	4.2	3.4
152.5°	3.4	3.4	2.5	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6
155°	0.9	0.9	0.9	0.9	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)