

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: P266352

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.1 lumens
Efficiency: N/A
Efficacy: 79.4 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): 40
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

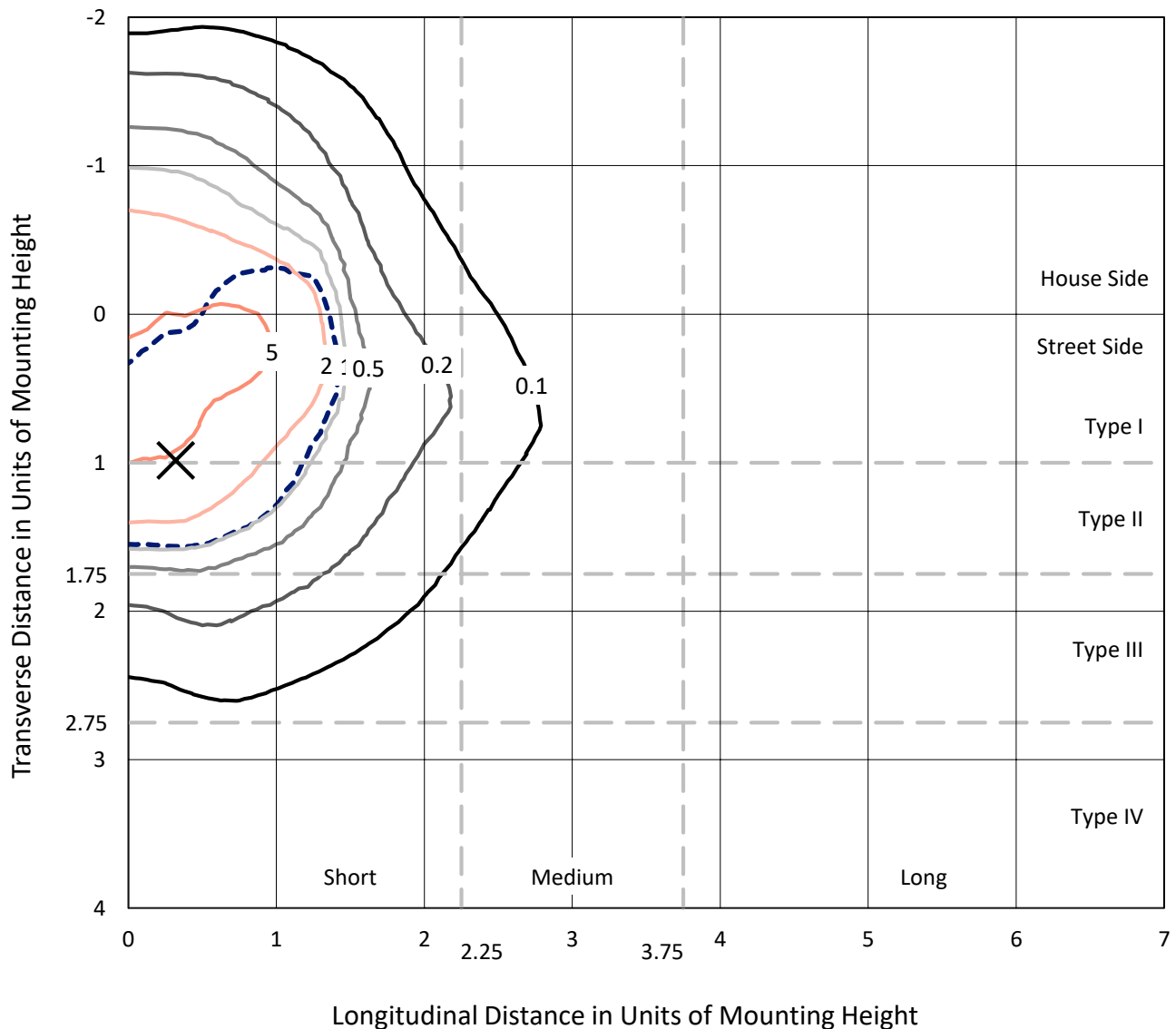


REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

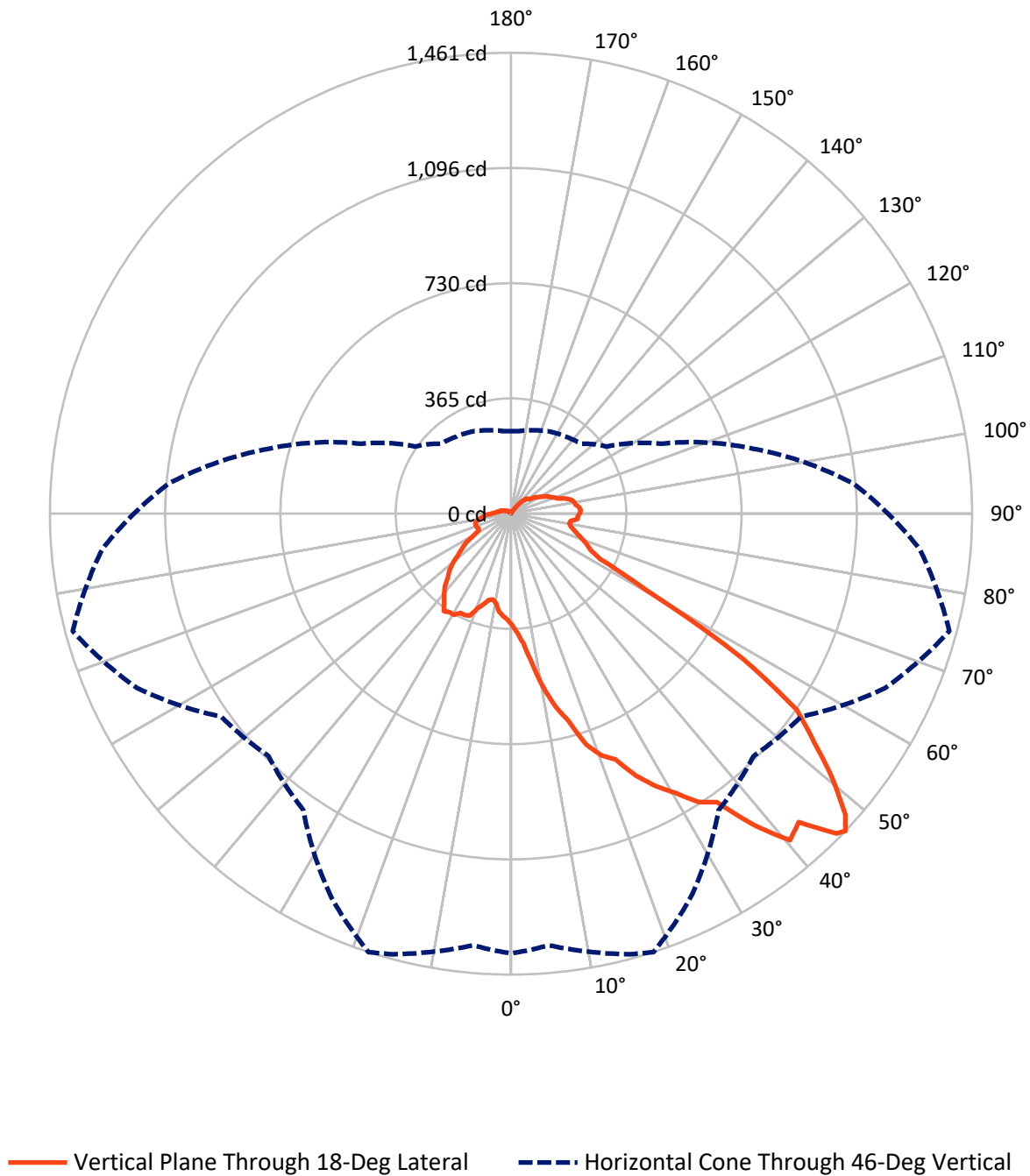


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

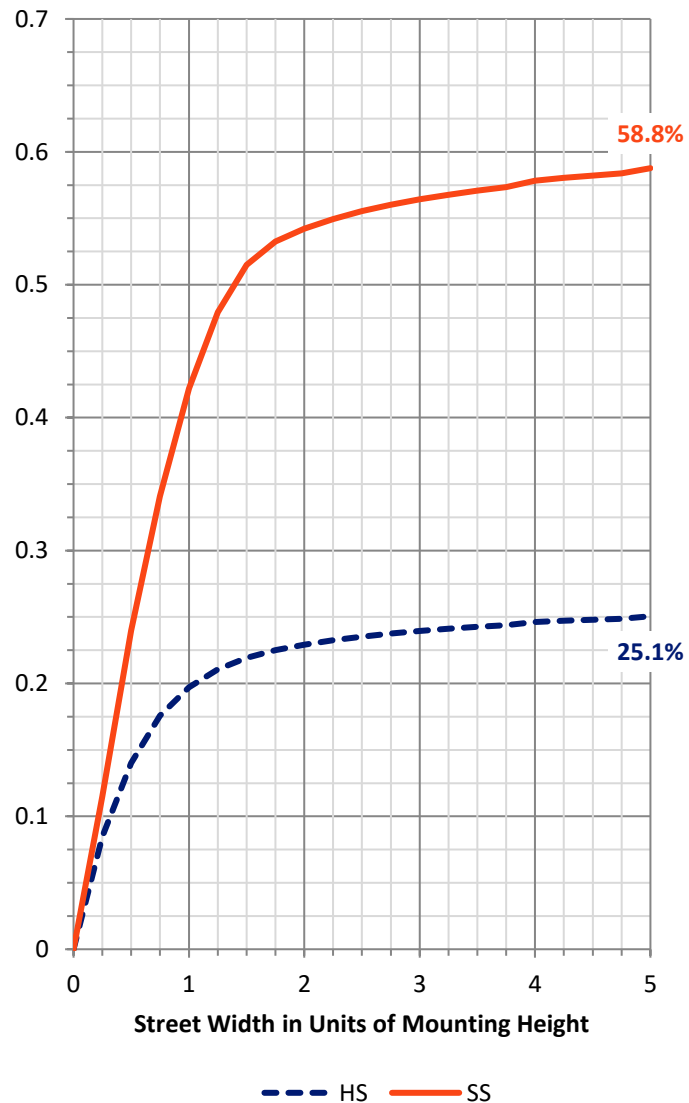
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.4	102.9	929.3
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	1939.3	308.4	2247.7
	% Fixture	61.0	9.7	70.7
Total	Lumens	2765.7	411.3	3177.1
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	1.2
10°-20°	153.8	4.8
20°-30°	312.8	9.8
30°-40°	512.1	16.1
40°-50°	666.5	21.0
50°-60°	498.7	15.7
60°-70°	207.7	6.5
70°-80°	189.0	5.9
80°-90°	187.4	5.9
90°-100°	150.6	4.7
100°-110°	107.1	3.4
110°-120°	72.4	2.3
120°-130°	46.6	1.5
130°-140°	27.6	0.9
140°-150°	6.7	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2765.7	87.1
0°-180°	3177.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266352

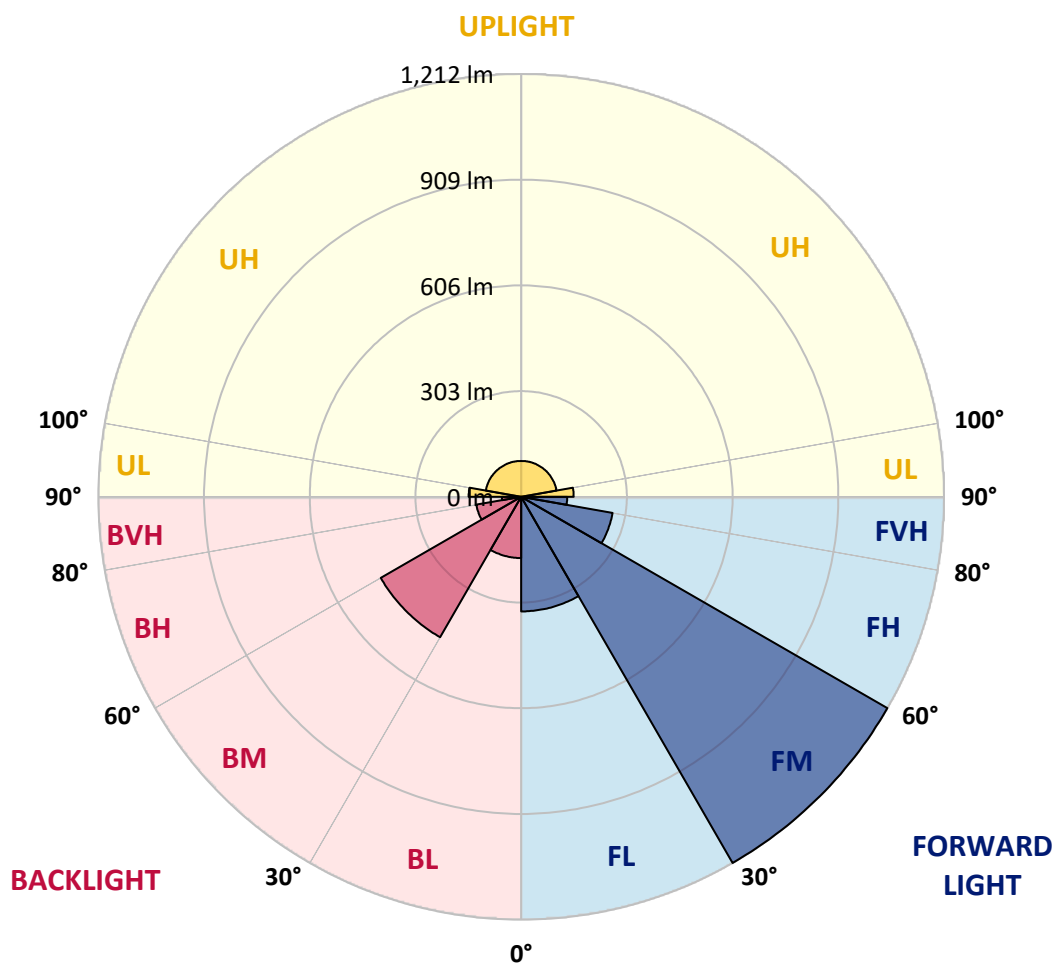
CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.6	10.3			
FM	(30°-60°)	1212.5	38.2			
FH	(60°-80°)	266.1	8.4			G0/660
FVH	(80°-90°)	132.1	4.2			G2/225
BL	(0°-30°)	175.7	5.5	B1/500		
BM	(30°-60°)	464.9	14.6	B1/1000		
BH	(60°-80°)	130.6	4.1	B1/500		G1/500
BVH	(80°-90°)	55.2	1.7			G1/100
UL	(90°-100°)	150.6	4.7		U3/500	
UH	(100°-180°)	102.9	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short



REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9
2.5°	378.2	376.5	377.4	377.4	375.1	374.4	372.1	369.5	365.9	361.9	358.5
5°	415.6	414.3	413.8	413.4	413.0	407.2	400.6	395.0	388.7	382.1	372.9
7.5°	484.5	484.1	481.5	478.3	474.0	464.3	452.4	446.7	438.5	428.3	414.3
10°	570.7	564.6	558.7	558.7	550.0	546.4	542.9	534.6	529.5	515.3	495.1
12.5°	619.9	616.7	628.6	627.7	639.2	659.9	666.9	673.9	641.7	601.0	563.1
15°	666.1	666.1	680.9	681.4	715.2	760.9	795.5	761.8	703.0	637.0	586.5
17.5°	729.2	733.1	754.8	769.2	814.9	893.5	869.7	807.4	719.6	640.9	584.3
20°	756.9	765.7	798.7	817.5	888.2	962.5	939.6	866.3	764.4	674.7	617.7
22.5°	774.1	780.2	818.9	845.7	936.2	998.9	995.5	921.2	825.1	713.0	647.0
25°	844.3	848.3	892.2	920.0	1015.7	1035.8	996.0	944.5	850.1	733.6	675.6
27.5°	868.0	868.5	936.2	977.8	1056.5	1049.5	997.7	976.2	928.3	836.4	797.3
30°	900.1	899.3	982.7	1027.5	1075.5	1045.5	1003.9	1022.7	1025.8	951.0	879.9
32.5°	939.6	936.2	1035.8	1089.5	1104.8	1044.6	1013.9	1045.9	1092.6	1015.3	938.8
35°	976.2	979.2	1086.4	1122.9	1137.3	1049.9	1019.1	1089.5	1184.0	1124.1	996.0
37.5°	1210.7	1207.2	1241.1	1253.8	1217.4	1067.9	1039.3	1143.5	1281.9	1256.0	1118.5
40°	1263.8	1252.0	1353.0	1360.6	1296.4	1131.7	1094.8	1176.1	1359.2	1405.4	1296.0
42.5°	1219.1	1215.9	1326.3	1336.4	1290.2	1174.8	1131.2	1202.4	1367.9	1405.8	1223.9
45°	1416.3	1400.1	1457.6	1445.7	1318.0	1156.3	1108.8	1172.9	1337.7	1443.5	1299.5
46°	1393.9	1373.2	1445.7	1460.7	1344.3	1147.0	1086.4	1121.2	1307.4	1437.4	1300.3
47.5°	1325.4	1327.2	1423.9	1424.7	1317.5	1148.4	1049.5	1090.0	1239.8	1358.7	1176.1
50°	1157.1	1137.3	1314.0	1319.7	1217.4	1098.6	1011.8	1030.1	1172.9	1245.9	1060.0
52.5°	1114.1	1098.6	1202.8	1201.9	1109.6	1023.2	942.7	962.1	1123.3	1206.3	1073.7
55°	1023.6	1018.3	1105.8	1098.3	1033.7	930.0	872.4	884.3	931.8	899.3	535.1
57.5°	680.0	700.3	851.4	865.8	866.3	817.5	745.6	636.1	550.4	468.2	261.9
60°	277.7	300.9	469.2	491.2	523.3	612.9	540.3	425.3	355.4	369.5	226.3
62.5°	209.6	218.4	313.1	317.2	329.5	372.9	368.6	308.4	303.5	334.3	216.6
65°	195.0	202.9	277.7	276.3	270.6	282.4	281.6	267.5	272.8	311.4	215.8
67.5°	184.5	192.3	257.9	258.4	253.5	255.7	257.5	250.4	262.8	302.6	221.4
70°	173.9	182.4	237.2	238.5	242.1	250.0	253.1	247.8	258.7	291.7	221.0
72.5°	161.2	170.5	217.8	220.1	227.1	245.1	255.7	254.4	255.7	275.4	220.1
75°	156.8	166.0	201.6	205.6	215.8	242.9	270.2	261.3	252.7	264.9	214.9
77.5°	137.5	148.0	184.5	193.2	215.8	250.0	279.8	276.8	260.5	257.9	209.1
80°	132.2	142.3	177.4	187.1	211.3	256.0	289.6	290.0	281.6	267.5	214.9
82.5°	133.0	142.8	179.2	190.3	217.8	260.5	281.6	292.6	293.4	275.9	221.4
85°	156.3	165.6	200.3	211.7	236.0	259.3	275.4	283.3	291.3	291.3	242.9
87.5°	166.9	175.3	201.6	211.7	235.0	262.2	259.6	272.8	280.7	290.8	250.4
90°	176.5	181.8	209.1	218.7	231.0	253.1	246.0	242.1	248.7	259.3	234.5
92.5°	183.7	188.5	212.5	221.0	231.6	236.3	225.8	214.3	230.7	238.9	218.4
95°	196.4	200.9	213.4	216.6	215.2	219.6	203.3	199.1	206.0	215.2	202.1
97.5°	187.6	190.7	202.9	206.5	205.6	199.1	182.7	180.1	186.3	193.2	178.9
100°	187.6	191.6	200.9	202.9	197.6	181.0	164.3	163.4	167.4	170.9	157.3
102.5°	191.6	193.2	195.0	196.4	186.7	168.3	155.9	152.9	154.1	155.9	143.6
105°	181.5	181.8	182.7	178.9	170.9	156.8	144.5	139.2	143.6	148.8	138.8
107.5°	156.8	156.3	156.8	155.4	154.7	146.2	137.5	131.0	131.0	132.7	123.0



REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	146.2	146.8	146.2	146.2	142.3	136.6	128.3	121.2	117.8	118.7	109.9
112.5°	133.9	133.9	134.4	134.8	132.7	127.4	119.0	112.0	107.6	106.8	98.5
115°	133.9	132.7	128.6	128.3	123.8	116.4	110.2	101.5	98.5	98.5	93.2
117.5°	119.5	118.7	115.5	114.7	112.0	105.9	102.3	95.3	93.2	91.7	87.0
120°	105.9	105.9	104.6	104.2	101.5	97.9	90.5	87.9	86.1	87.9	84.8
122.5°	98.5	98.5	96.2	95.3	92.3	89.7	83.1	78.2	75.1	78.6	76.8
125°	90.5	90.1	87.0	86.5	81.2	81.2	77.8	71.7	63.3	66.7	65.8
127.5°	79.5	79.1	75.1	74.6	71.7	75.1	74.2	66.4	54.8	57.1	57.1
130°	76.4	75.5	72.0	71.1	68.1	67.3	70.7	58.0	51.5	53.5	53.2
132.5°	76.4	75.5	71.1	69.9	64.9	60.1	63.7	50.6	49.1	51.8	51.5
135°	69.0	69.0	64.9	62.4	57.5	48.8	49.6	39.0	43.1	47.0	47.0
137.5°	58.4	58.4	54.4	53.5	47.9	39.0	35.2	29.9	36.6	40.9	41.3
140°	45.6	45.6	42.6	40.9	36.9	26.0	16.3	18.4	27.7	31.6	33.0
142.5°	33.0	32.5	29.9	27.7	23.7	14.1	5.3	10.5	16.3	21.5	23.3
145°	22.8	22.4	19.4	18.1	14.6	6.6	1.3	4.4	9.6	12.8	14.9
147.5°	13.7	13.7	11.4	11.0	7.5	1.7	0.9	1.3	4.9	7.9	9.3
150°	7.9	7.9	5.7	4.4	1.7	0.4	0.4	0.4	1.3	3.6	4.4
152.5°	1.7	1.7	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.4	0.9
155°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
162.5°	0.4	0.4	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.4	0.4
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: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9	351.9
2.5°	356.6	355.0	351.0	346.1	342.7	339.6	337.5	336.1	335.2	333.0	333.9
5°	369.9	366.4	357.2	349.7	341.7	334.8	329.5	325.9	324.6	322.9	322.9
7.5°	407.7	399.3	385.3	367.6	351.4	337.5	324.2	316.7	310.2	306.6	305.8
10°	481.9	470.9	440.6	404.5	369.1	337.5	311.9	293.4	284.7	281.6	281.6
12.5°	543.5	526.2	486.7	446.4	398.8	349.3	311.4	286.4	274.5	270.6	270.6
15°	561.9	539.4	492.9	453.4	410.7	369.1	333.9	297.9	276.3	269.8	267.5
17.5°	556.2	534.2	492.0	444.1	396.2	365.2	333.9	314.5	294.7	283.3	281.6
20°	592.6	572.4	528.6	474.9	416.1	346.1	326.4	322.0	317.2	309.7	309.7
22.5°	623.0	604.0	560.2	502.5	431.8	386.1	356.6	352.3	347.0	345.8	344.9
25°	646.2	625.9	565.8	499.5	448.1	414.7	376.8	361.9	349.3	345.3	344.1
27.5°	770.6	739.3	642.6	548.7	474.9	424.4	380.9	361.6	349.7	344.9	348.0
30°	843.5	809.6	703.7	580.3	507.0	445.5	388.7	365.9	369.1	372.9	376.0
32.5°	899.3	854.8	730.6	584.3	501.8	449.4	401.5	374.4	365.5	370.8	371.7
35°	954.2	900.1	765.3	609.3	508.7	434.9	392.7	376.8	374.4	381.3	380.1
37.5°	1065.7	995.1	808.4	616.3	502.2	417.8	377.7	361.1	347.5	345.8	348.0
40°	1211.6	1116.8	851.4	613.3	471.4	397.1	359.0	340.0	329.5	322.9	319.0
42.5°	1138.7	1043.3	796.0	588.7	434.1	360.2	339.6	322.9	309.2	300.9	298.7
45°	1218.6	1125.4	810.1	539.1	391.4	327.3	310.6	299.1	280.4	272.4	271.1
46°	1194.4	1089.0	794.3	523.6	370.8	313.1	299.1	287.3	273.3	262.2	261.3
47.5°	1106.6	983.6	747.7	482.4	356.6	290.0	280.4	273.3	265.8	253.1	251.3
50°	987.5	893.5	663.8	428.9	300.6	258.7	250.4	248.2	239.8	224.4	225.8
52.5°	978.3	887.3	618.2	394.4	266.6	226.7	224.0	217.5	210.5	196.8	196.4
55°	471.8	401.2	343.2	308.8	223.1	200.9	199.5	196.4	187.6	175.3	177.4
57.5°	223.6	194.7	168.3	178.4	175.3	176.2	177.1	176.5	166.5	149.7	153.3
60°	195.9	170.0	145.4	137.9	144.9	155.9	155.9	149.4	135.4	115.5	113.7
62.5°	189.0	163.0	140.6	130.4	133.9	140.6	137.0	126.5	112.5	94.4	93.6
65°	189.8	162.1	140.1	127.4	130.4	133.0	126.5	118.1	110.8	97.9	97.9
67.5°	193.8	165.6	141.9	126.1	128.3	130.1	123.8	117.8	113.4	103.7	104.6
70°	194.7	167.9	143.6	126.5	126.1	127.9	123.4	117.8	115.5	109.0	108.5
72.5°	194.7	169.6	141.9	123.4	122.6	123.4	120.8	117.8	117.3	113.4	112.5
75°	188.0	165.6	135.7	117.3	116.4	117.3	116.4	116.1	117.8	116.1	114.3
77.5°	181.5	161.7	131.3	112.5	111.1	110.8	110.2	110.8	113.4	112.0	109.5
80°	184.5	163.4	130.4	108.5	104.6	102.8	102.8	103.2	103.2	99.4	95.3
82.5°	189.8	166.5	126.1	101.0	94.4	91.4	92.3	95.3	96.7	93.6	90.5
85°	209.1	180.6	127.0	95.8	86.1	82.6	83.9	87.9	85.2	80.8	77.3
87.5°	217.5	185.4	124.3	87.9	79.9	78.6	78.6	80.8	79.1	72.0	69.0
90°	207.8	177.4	112.5	74.6	69.3	70.7	71.1	69.0	61.5	53.5	50.9
92.5°	194.7	166.0	104.2	68.5	61.5	61.1	60.6	59.3	53.5	44.8	43.1
95°	183.7	156.3	96.2	62.8	56.2	54.8	54.4	52.7	47.4	40.9	40.0
97.5°	159.9	136.6	87.5	58.0	50.6	49.6	49.1	47.0	42.2	37.3	36.9
100°	143.6	121.7	78.2	52.3	45.6	44.3	43.9	42.6	38.6	35.2	34.8
102.5°	130.4	111.6	72.6	47.9	40.9	39.0	39.0	38.2	36.0	33.9	33.9
105°	127.0	109.5	70.2	43.9	36.6	35.7	35.2	35.2	33.3	32.1	32.1
107.5°	111.6	95.8	60.6	39.0	33.0	32.1	32.1	32.1	31.6	31.3	31.6



REPORT NUMBER: P266352

CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	100.6	86.5	55.8	36.6	30.7	29.5	29.5	29.5	29.5	30.4	30.4
112.5°	89.7	77.8	51.5	34.8	28.6	27.3	26.4	26.0	25.5	27.3	27.7
115°	84.8	74.2	49.1	33.0	27.3	26.0	24.2	23.3	22.0	23.3	23.7
117.5°	79.9	70.2	48.2	32.5	26.4	24.2	22.4	21.5	19.8	21.1	21.1
120°	78.6	69.9	49.1	33.0	25.5	22.4	21.1	18.9	18.1	18.9	19.4
122.5°	72.6	64.6	46.2	30.7	24.2	21.5	19.8	16.3	15.8	17.2	17.2
125°	61.5	55.3	40.0	27.7	22.8	21.1	19.4	14.6	14.9	15.8	16.3
127.5°	54.1	48.8	36.6	26.8	22.8	21.5	18.1	12.8	14.1	15.5	15.8
130°	50.6	46.5	36.6	27.7	23.7	22.0	14.9	11.9	13.1	14.6	14.6
132.5°	49.1	46.2	37.3	29.5	24.7	21.1	12.2	11.0	12.2	13.1	13.1
135°	45.3	42.6	35.7	28.6	22.4	16.7	9.6	9.6	11.4	12.2	12.2
137.5°	40.0	37.8	32.1	26.4	19.8	12.8	7.0	8.4	9.6	10.5	10.5
140°	32.1	30.7	26.4	20.7	14.1	7.0	5.3	6.6	7.9	8.9	8.9
142.5°	22.8	22.0	18.4	13.1	8.4	3.1	3.6	4.9	6.2	7.0	7.0
145°	14.9	14.1	11.4	8.4	3.6	0.9	2.2	3.6	4.9	5.3	5.3
147.5°	9.3	8.9	7.0	4.0	1.3	0.9	0.9	2.6	3.6	4.0	4.0
150°	4.9	4.4	3.1	1.3	0.4	0.4	0.4	0.9	2.2	2.6	3.1
152.5°	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.4	0.0	0.4	0.4	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)