

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: P266349

Luminaire Tested: **UTLD-AF24-40-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3480.4 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - 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



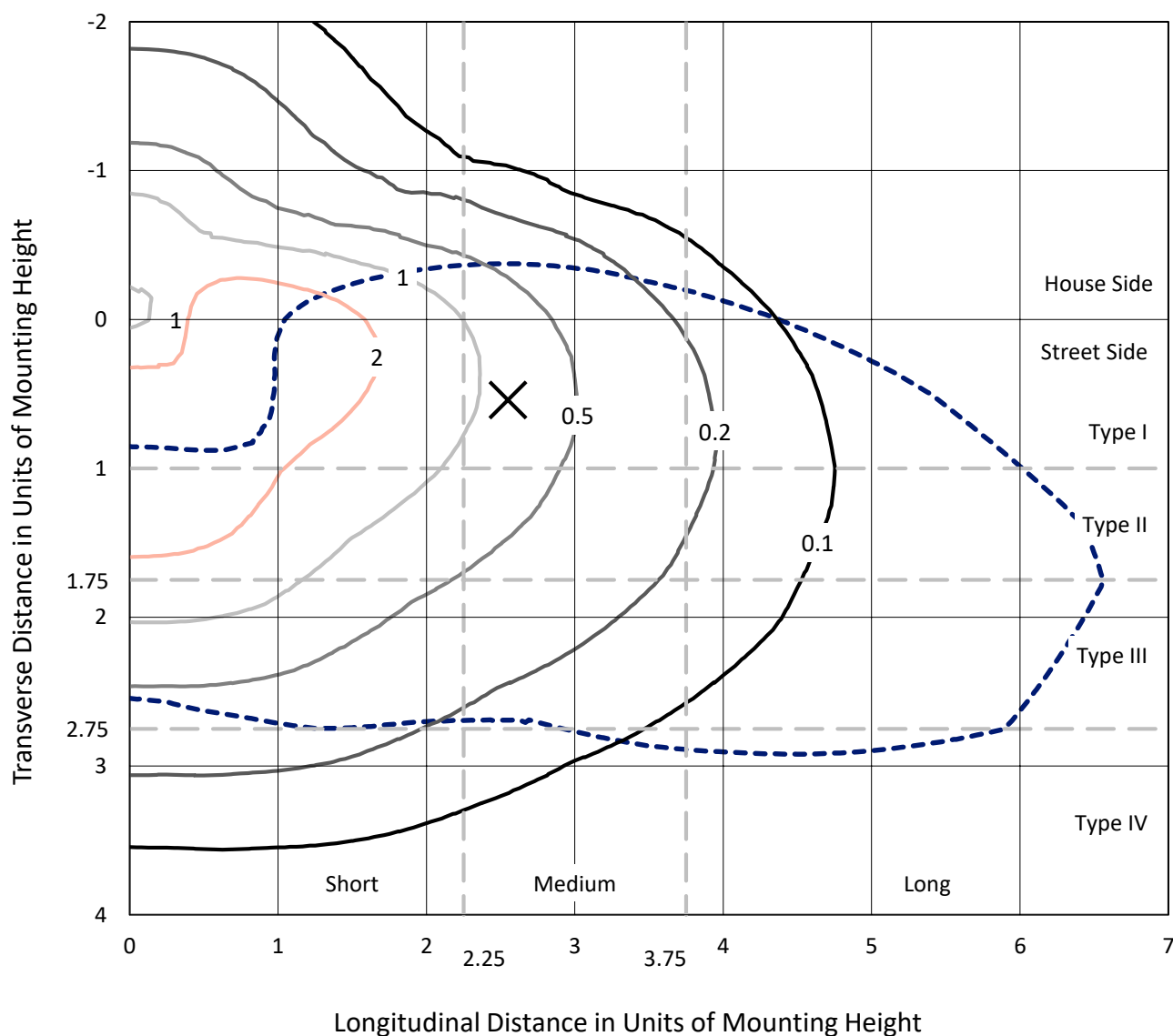
REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

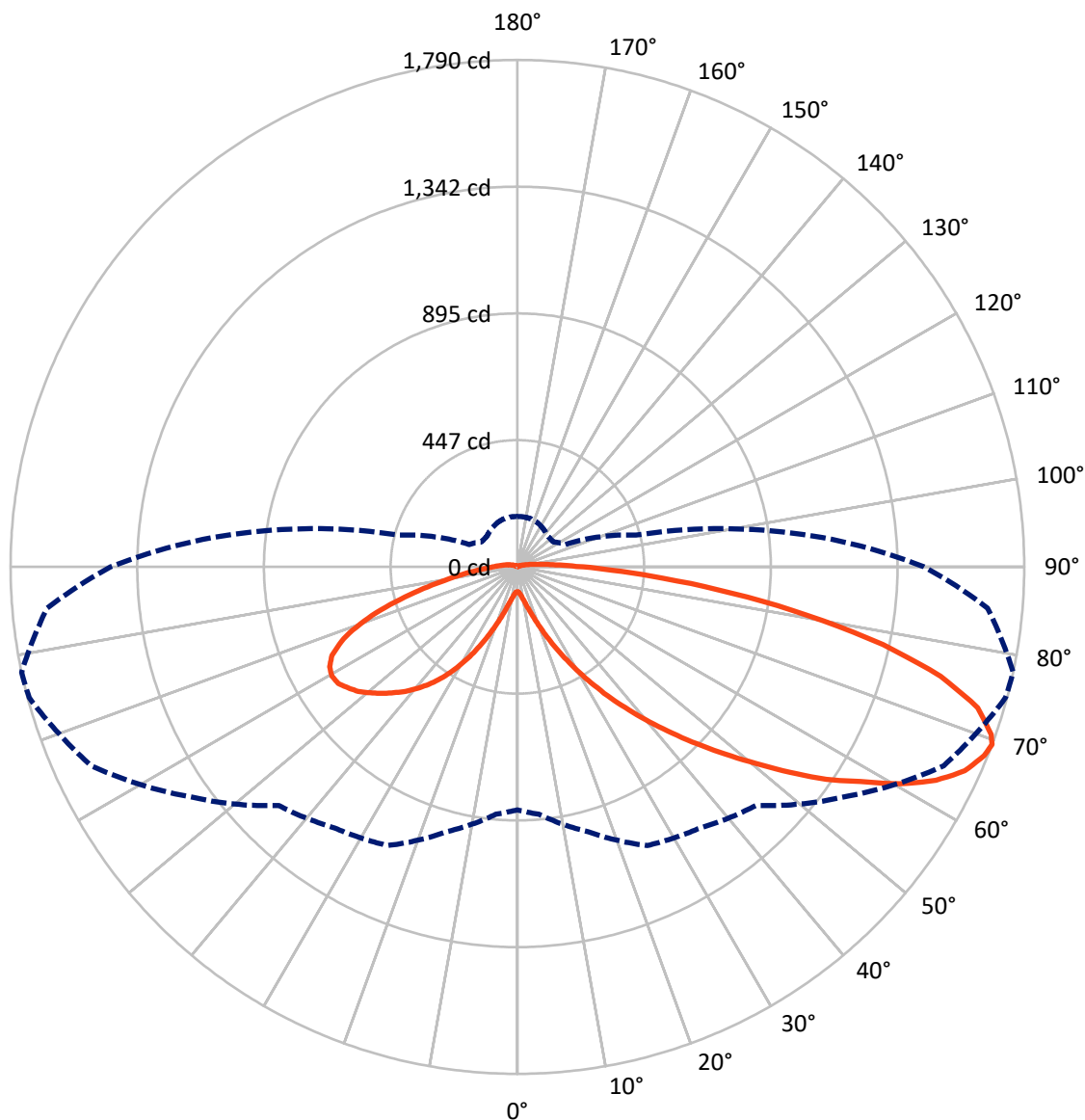


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

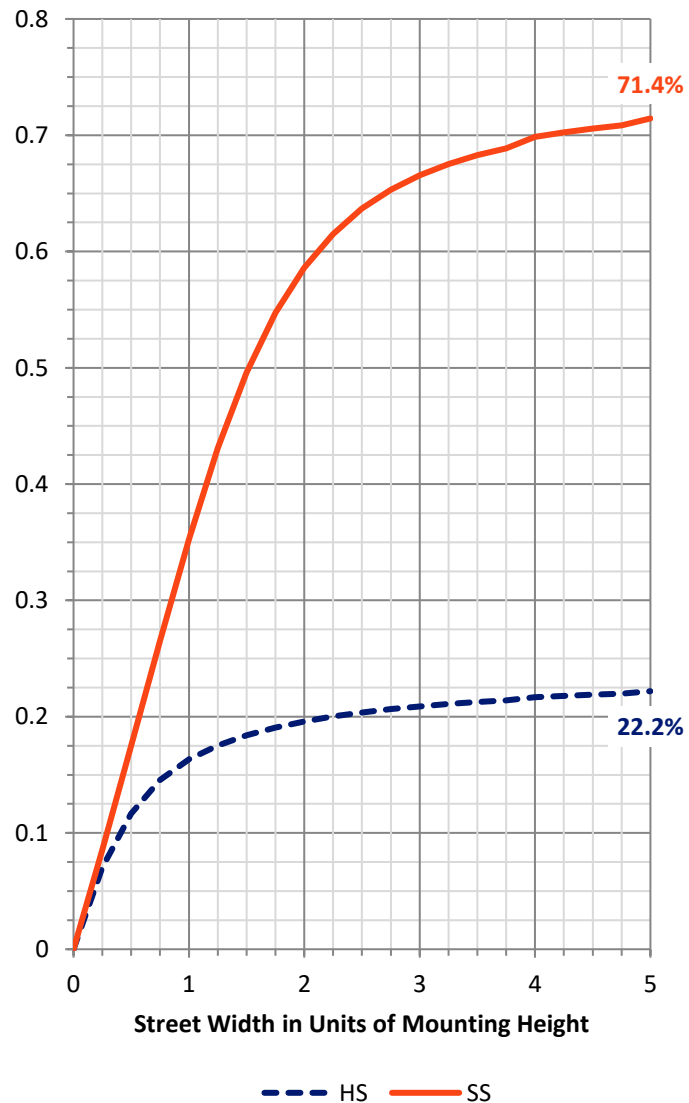
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.5	60.8	869.3
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	2544.4	66.8	2611.1
	% Fixture	73.1	1.9	75.0
Total	Lumens	3352.9	127.5	3480.4
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.3
10°-20°	44.7	1.3
20°-30°	127.5	3.7
30°-40°	271.0	7.8
40°-50°	469.8	13.5
50°-60°	703.4	20.2
60°-70°	837.2	24.1
70°-80°	638.6	18.3
80°-90°	250.9	7.2
90°-100°	73.6	2.1
100°-110°	29.8	0.9
110°-120°	13.5	0.4
120°-130°	6.5	0.2
130°-140°	3.1	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3352.9	96.3
0°-180°	3480.4	100.0

Coefficient of Utilization



REPORT NUMBER: P266349

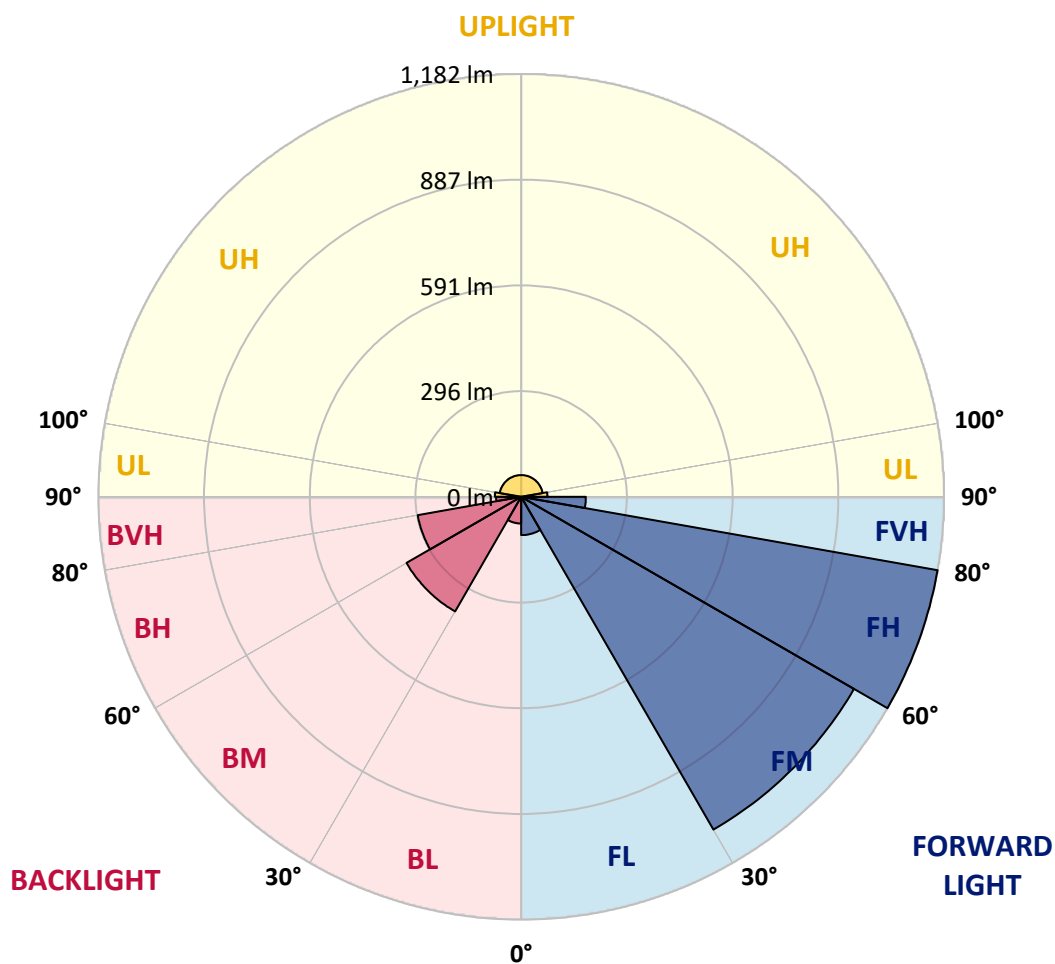
CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.1	3.1			
FM	(30°-60°)	1074.3	30.9			
FH	(60°-80°)	1182.2	34.0			G1/1800
FVH	(80°-90°)	180.8	5.2			G2/225
BL	(0°-30°)	74.8	2.1	B0/110		
BM	(30°-60°)	370.0	10.6	B1/1000		
BH	(60°-80°)	293.7	8.4	B1/500		G1/500
BVH	(80°-90°)	70.1	2.0			G1/100
UL	(90°-100°)	73.6	2.1		U3/500	
UH	(100°-180°)	60.8	1.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium



REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	94.5	94.5	94.1	94.1	93.7	92.7	91.4	90.5	90.1	90.1	89.2
5°	105.0	105.0	104.2	104.2	102.9	101.5	99.7	97.6	96.2	95.8	94.5
7.5°	119.0	118.7	118.1	116.9	115.5	112.9	110.8	108.5	105.9	105.5	103.8
10°	137.1	136.3	136.3	134.4	131.8	128.7	124.8	121.7	119.0	118.7	116.9
12.5°	160.7	160.0	158.6	155.0	151.2	146.3	142.8	139.7	137.1	136.3	133.9
15°	189.0	188.6	185.1	180.6	173.6	167.4	163.4	160.7	160.0	159.1	156.8
17.5°	224.0	221.9	218.4	209.6	200.3	191.6	188.0	188.6	189.0	189.0	187.1
20°	263.3	262.3	257.1	245.1	232.4	221.4	218.4	221.1	224.5	224.5	224.0
22.5°	314.5	312.0	302.3	285.7	267.5	256.6	252.2	258.0	267.5	268.1	269.9
25°	370.8	369.9	354.7	329.9	307.1	293.9	291.0	297.9	315.5	316.8	321.7
27.5°	433.3	431.0	417.0	382.3	352.3	333.0	331.7	347.1	366.0	372.5	379.7
30°	508.8	506.6	479.9	439.8	403.3	377.8	378.2	398.0	427.1	432.9	443.0
32.5°	587.0	584.8	557.2	507.1	458.8	427.1	428.0	457.3	490.8	497.8	508.8
35°	677.1	676.2	639.8	578.1	517.2	478.9	485.5	516.7	557.9	569.4	579.0
37.5°	774.7	764.9	729.3	657.7	581.4	539.5	544.5	586.1	634.9	640.2	649.8
40°	872.7	870.4	827.8	747.4	655.1	603.3	609.9	656.9	709.7	719.3	724.6
42.5°	975.9	975.0	925.0	837.0	731.6	673.5	679.7	733.3	792.2	801.5	804.1
45°	1085.7	1079.6	1029.9	931.5	820.0	748.3	759.2	814.7	884.0	891.5	892.8
47.5°	1180.3	1172.3	1134.9	1032.5	906.0	829.1	837.5	906.5	979.4	987.2	984.3
50°	1265.4	1261.8	1224.1	1133.7	1000.5	910.8	922.6	997.8	1080.0	1089.6	1086.6
52.5°	1321.2	1319.0	1303.7	1216.2	1083.5	994.3	1011.0	1092.8	1189.8	1203.9	1187.6
55°	1349.0	1349.0	1351.9	1288.7	1159.5	1073.5	1099.3	1198.2	1304.1	1323.9	1301.0
57.5°	1346.6	1344.0	1369.6	1338.4	1218.0	1137.2	1187.6	1310.3	1421.4	1429.4	1417.4
60°	1296.7	1305.0	1349.9	1355.5	1259.8	1193.8	1272.0	1413.9	1533.4	1554.5	1518.6
62.5°	1216.7	1232.5	1298.0	1335.7	1271.1	1234.2	1344.6	1504.9			



REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	9.6	9.6	12.8	17.5	21.5	24.2	23.7	20.2	16.7	15.8	16.3
112.5°	8.9	8.9	11.4	15.5	19.0	20.7	19.8	16.3	13.1	12.8	12.8
115°	8.4	8.4	10.2	13.7	16.3	17.5	16.7	13.1	10.5	10.2	10.5
117.5°	7.5	7.9	9.3	11.9	14.1	15.5	14.1	11.0	8.9	8.4	9.3
120°	7.0	7.5	8.4	10.2	12.2	13.1	11.4	9.3	7.5	7.5	7.9
122.5°	6.6	7.0	7.5	9.3	10.5	11.0	9.6	7.5	6.2	6.6	7.0
125°	6.6	6.6	7.0	7.9	9.3	9.3	7.9	6.2	5.7	5.7	6.2
127.5°	6.2	6.2	6.2	7.0	7.9	7.9	6.6	5.3	4.9	5.3	5.7
130°	5.7	5.7	5.7	6.2	6.6	6.6	5.7	4.4	4.4	4.4	4.9
132.5°	5.3	5.3	5.3	5.3	5.7	5.3	4.4	3.6	4.0	4.0	4.4
135°	4.9	4.9	4.9	4.9	4.4	4.0	3.1	3.1	3.6	3.6	4.0
137.5°	4.4	4.4	4.4	4.0	3.6	3.1	2.6	2.6	3.1	3.1	3.6
140°	4.0	4.0	4.0	3.1	2.6	2.2	1.7	1.7	2.6	2.6	2.6
142.5°	3.6	3.6	3.1	2.6	2.2	1.3	0.9	1.3	1.7	1.7	2.2
145°	2.6	2.6	2.6	2.2	1.3	0.9	0.4	0.9	1.3	1.3	1.7
147.5°	2.2	2.2	2.2	1.7	0.9	0.4	0.4	0.4	0.9	0.9	1.3
150°	1.7	1.7	1.3	1.3	0.4	0.0	0.0	0.4	0.4	0.9	0.9
152.5°	1.3	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	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: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	88.8	88.4	87.9	87.0	86.5	85.7	84.8	83.9	83.9	83.9	83.5
5°	94.1	93.2	91.8	90.1	88.8	87.5	86.1	84.8	84.4	83.9	83.9
7.5°	102.3	101.5	98.9	96.7	94.1	92.3	90.1	89.2	88.4	87.9	87.9
10°	115.2	113.4	109.9	106.3	103.2	99.7	97.6	96.2	95.0	94.5	95.0
12.5°	132.3	129.1	124.8	119.6	114.3	109.9	107.2	105.9	105.5	105.0	105.0
15°	155.9	153.8	144.9	135.7	128.3	122.2	118.7	117.3	120.0	120.8	120.8
17.5°	186.8	182.7	172.2	159.4	144.1	134.8	132.3	134.4	136.6	139.2	139.7
20°	224.9	218.4	204.8	184.2	163.4	150.2	148.1	150.7	155.9	159.4	160.0
22.5°	266.6	262.3	241.3	210.5	182.7	167.4	162.6	166.5	174.9	179.8	180.1
25°	320.3	313.2	281.7	239.5	202.9	181.5	175.8	181.5	191.6	199.1	199.5
27.5°	378.7	367.8	326.4	268.5	220.2	193.3	186.3	193.8	207.4	216.2	217.1
30°	439.5	424.0	370.8	295.7	235.5	201.2	193.8	202.9	218.4	228.4	229.7
32.5°	503.1	484.6	411.8	319.4	245.6	205.6	197.7	208.6	224.9	235.5	236.9
35°	568.1	544.8	450.0	336.5	250.4	206.5	198.2	210.5	226.4	237.2	238.6
37.5°	636.7	602.5	483.3	348.5	251.3	203.8	196.4	208.6	223.7	233.7	234.6
40°	703.1	658.6	511.5	353.8	248.2	200.0	192.0	204.8	217.5	224.9	225.8
42.5°	776.0	719.3	536.1	353.8	242.2	195.1	187.1	199.1	209.1	214.4	214.9
45°	850.2	779.9	555.4	349.4	234.2	189.0	182.4	192.9	200.9	202.9	202.9
47.5°	935.9	843.6	573.4	341.9	225.5	182.7	177.5	187.1	192.9	192.9	193.3
50°	1022.0	910.4	587.0	331.3	215.4	177.5	173.6	182.7	187.1	184.5	184.5
52.5°	1115.2	979.0	599.8	317.7	206.2	172.7	170.9	180.6	183.7	179.8	178.9
55°	1209.2	1043.6	602.5	300.6	195.6	168.7	169.6	178.9	181.8	177.5	177.1
57.5°	1309.8	1109.9	602.0	280.8	186.3	165.6	168.3	178.5	181.5	177.1	176.6
60°	1387.6	1162.1	587.9	260.1	178.0	162.6	167.9	178.0	181.5	178.0	178.0
62.5°	1457.9	1192.9	561.5	238.1	170.0	160.3	166.5	177.1	180.6	178.9	178.9
65°	1490.0	1201.8	521.0	216.6	163.4	157.7	165.6				



REPORT NUMBER: P266349

CATALOG NUMBER: UTLD-AF24-40-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	17.2	18.1	19.8	21.5	22.0	22.0	20.7	18.4	15.8	15.5	15.5
112.5°	14.1	14.6	16.7	18.1	18.4	18.4	17.2	15.5	12.8	12.2	12.2
115°	11.4	11.9	13.7	14.9	15.5	15.5	14.6	12.8	10.2	10.2	10.2
117.5°	9.6	10.2	11.4	12.8	13.1	13.1	11.9	10.2	8.4	8.4	8.4
120°	8.4	8.9	9.6	10.5	11.0	11.0	10.2	8.4	7.0	7.0	7.0
122.5°	7.5	7.9	8.4	9.3	9.6	9.6	8.4	6.6	6.2	6.2	6.2
125°	6.6	7.0	7.5	7.9	8.4	7.9	7.0	5.7	5.3	5.7	5.7
127.5°	5.7	6.2	6.6	6.6	7.0	6.6	5.7	4.9	4.4	4.9	4.9
130°	5.3	5.3	5.7	5.7	6.2	5.7	4.9	4.0	4.0	4.4	4.4
132.5°	4.9	4.9	4.9	4.9	5.3	4.9	4.0	3.1	3.6	4.0	4.0
135°	4.0	4.0	4.4	4.0	4.4	3.6	3.1	2.6	3.1	3.6	3.6
137.5°	3.6	3.6	3.6	3.6	3.1	3.1	2.2	2.2	2.6	3.1	2.6
140°	3.1	3.1	3.1	2.6	2.6	2.2	1.7	1.7	2.2	2.2	2.2
142.5°	2.2	2.2	2.2	2.2	1.7	1.3	0.9	1.3	1.3	1.7	1.7
145°	1.7	1.7	1.7	1.3	0.9	0.9	0.4	0.9	0.9	1.3	1.3
147.5°	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.4	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.4	0.4	0.4
152.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	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)