

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: P266476

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511.2 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 83
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

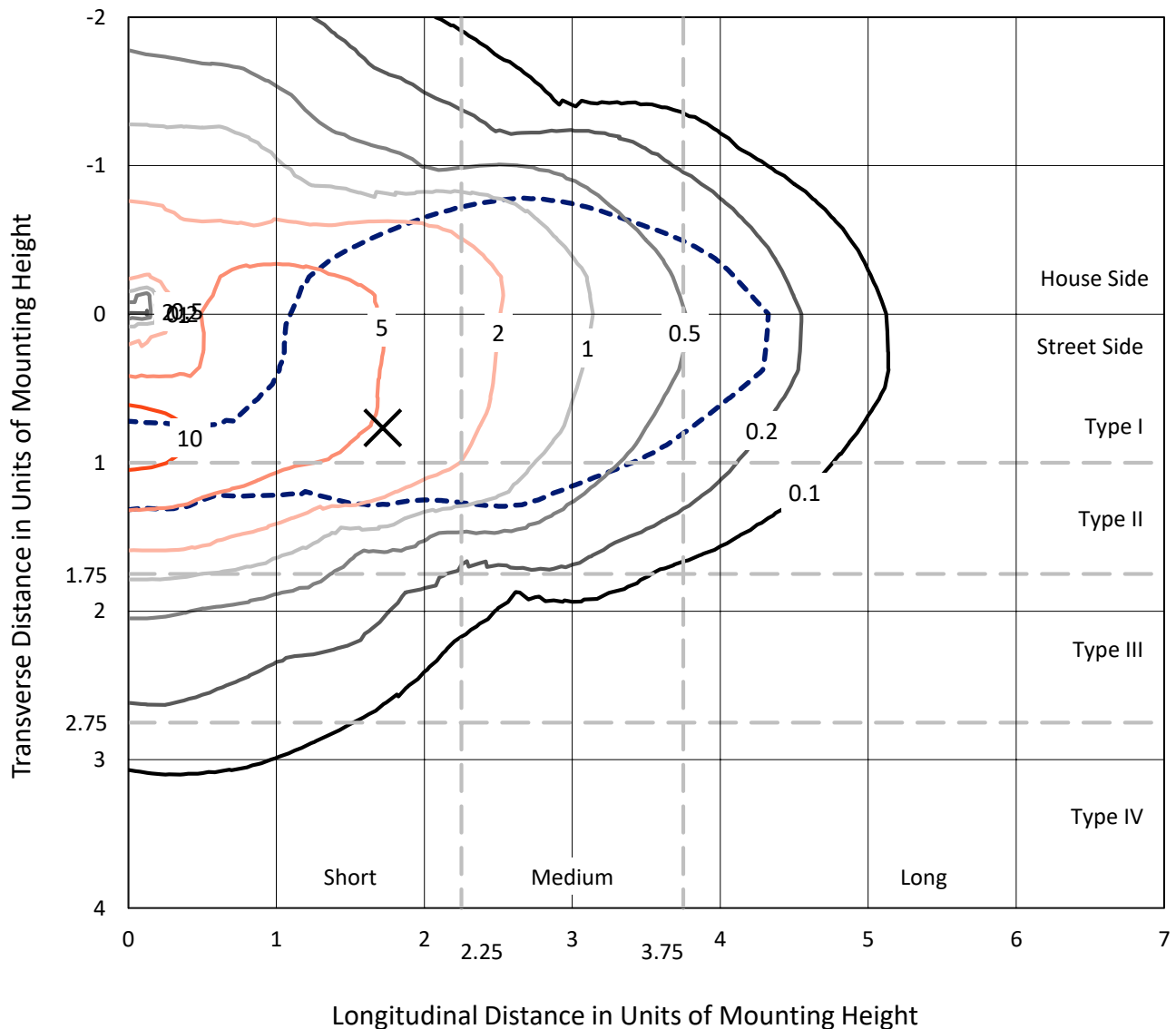


REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

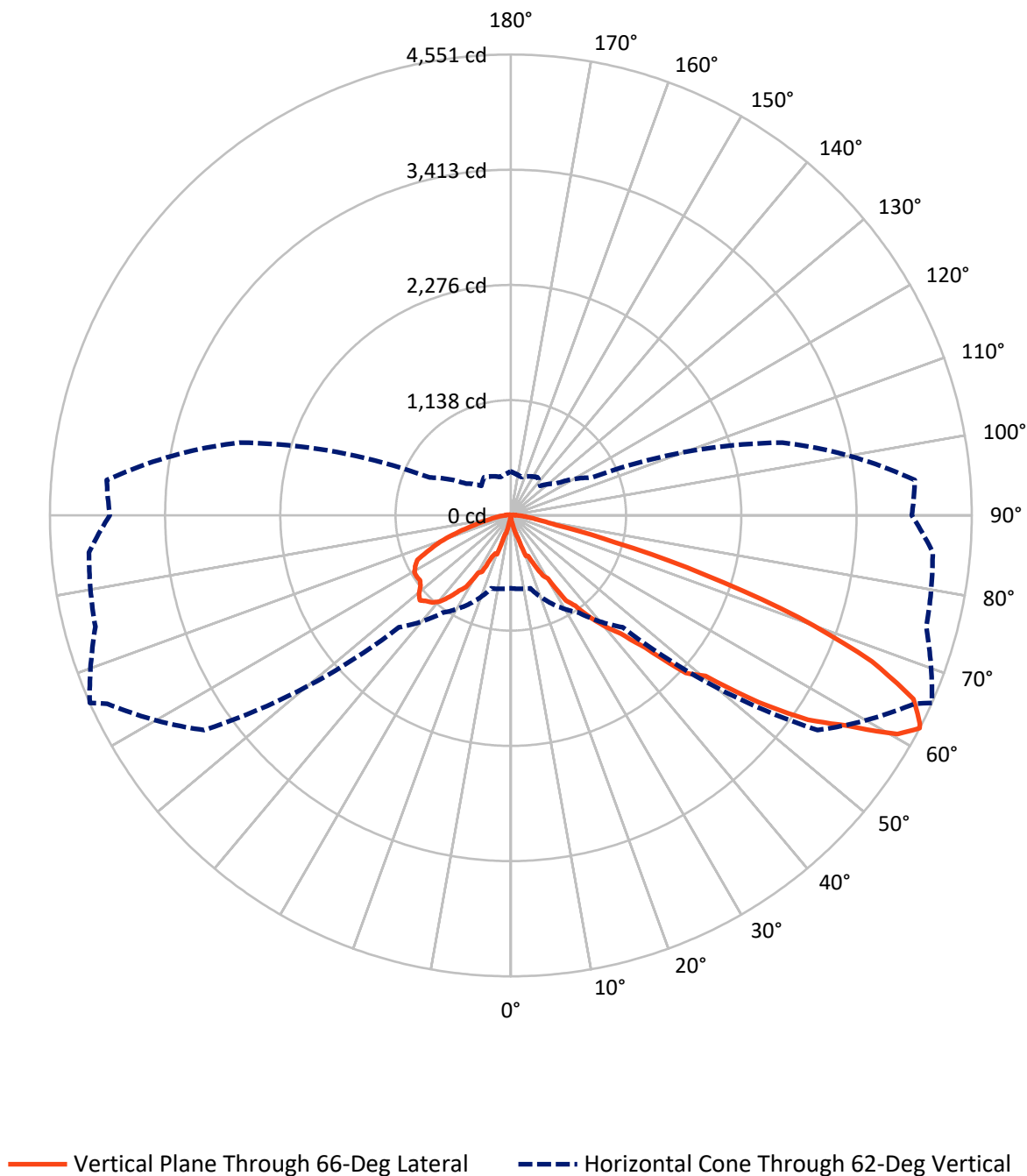


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

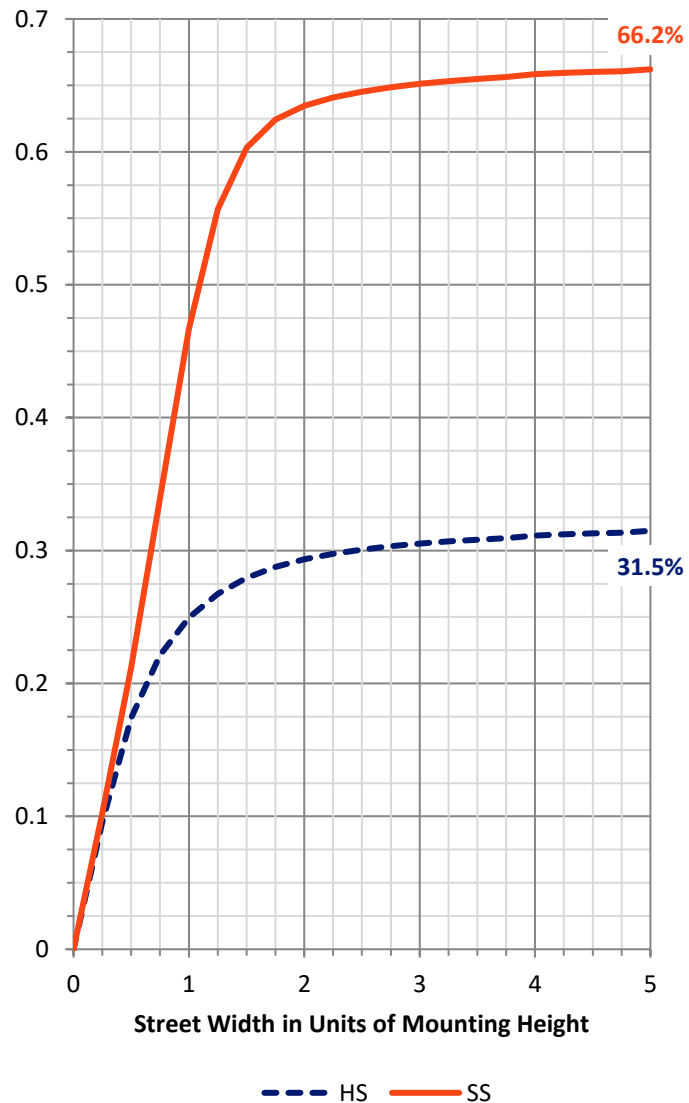
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2088.6	49.8	2138.4
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4336.1	36.6	4372.8
	% Fixture	66.6	0.6	67.2
Total	Lumens	6424.7	86.4	6511.2
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	66.1	1.0
20°-30°	261.7	4.0
30°-40°	652.2	10.0
40°-50°	1243.7	19.1
50°-60°	1696.1	26.0
60°-70°	1558.1	23.9
70°-80°	794.8	12.2
80°-90°	146.2	2.2
90°-100°	38.7	0.6
100°-110°	18.6	0.3
110°-120°	11.2	0.2
120°-130°	8.6	0.1
130°-140°	5.8	0.1
140°-150°	2.8	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6424.7	98.7
0°-180°	6511.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266476

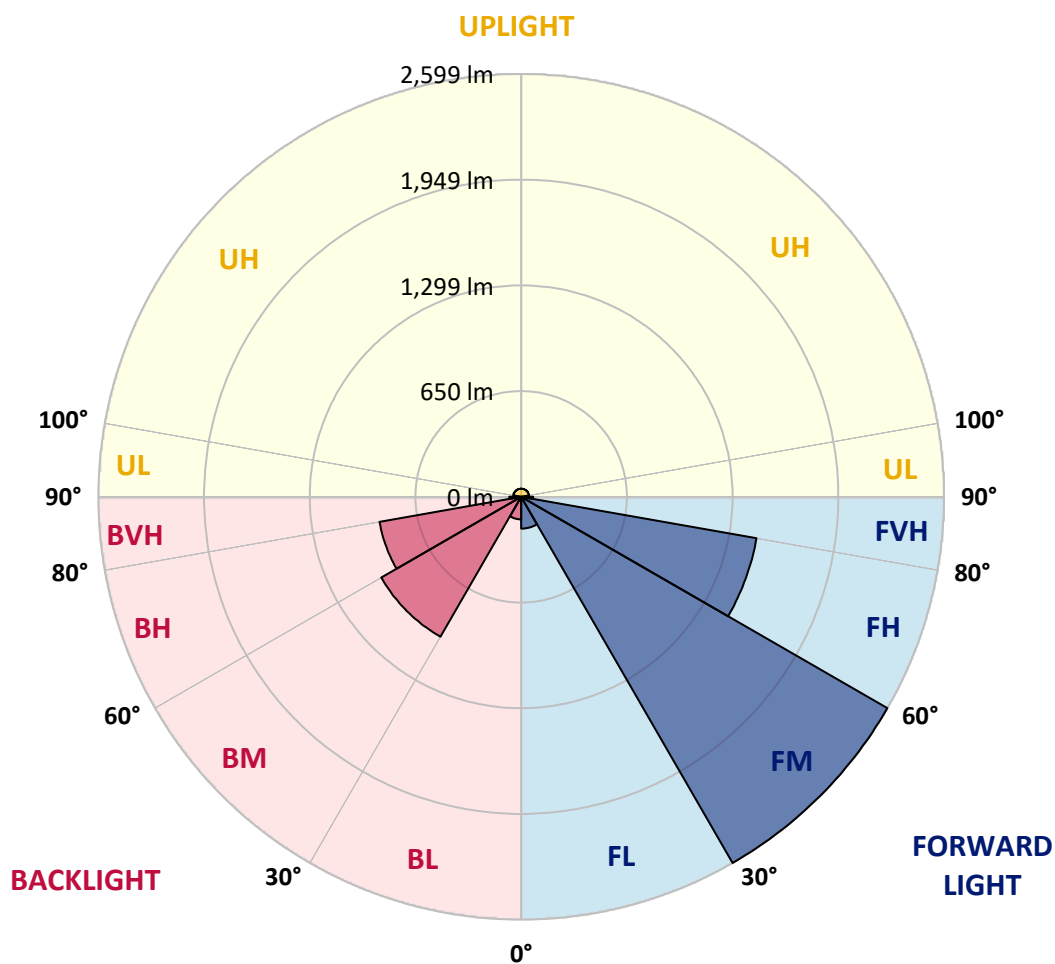
CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.1	3.0			
FM	(30°-60°)	2599.0	39.9			
FH	(60°-80°)	1468.7	22.6			G1/1800
FVH	(80°-90°)	73.3	1.1			G1/100
BL	(0°-30°)	138.4	2.1	B1/500		
BM	(30°-60°)	993.1	15.3	B1/1000		
BH	(60°-80°)	884.2	13.6	B2/1000		G2/1000
BVH	(80°-90°)	72.9	1.1			G1/100
UL	(90°-100°)	38.7	0.6		U2/50	
UH	(100°-180°)	49.8	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	80.9	77.0	57.8	50.6	42.5	34.5	26.5	22.5	21.6	20.0	18.4
5°	80.9	80.9	83.4	88.2	97.7	89.0	93.9	33.6	32.1	21.6	17.6
7.5°	154.7	150.7	189.3	133.8	84.3	78.5	119.5	72.9	72.9	33.6	20.0
10°	209.2	208.4	255.7	163.5	150.7	182.7	80.9	83.4	83.4	57.8	28.0
12.5°	205.3	203.6	206.8	225.2	189.3	160.3	162.8	106.5	133.0	210.1	215.7
15°	288.5	303.8	287.7	220.4	201.9	201.2	259.7	197.2	200.4	230.9	169.2
17.5°	384.7	386.5	420.9	357.5	281.3	297.3	275.1	275.8	243.7	255.7	286.2
20°	419.2	412.1	431.2	400.0	400.0	355.9	280.6	397.6	427.2	401.6	396.8
22.5°	719.9	716.7	626.8	438.6	453.7	416.1	424.9	463.3	435.3	408.9	401.6
25°	821.0	810.5	779.2	747.8	556.3	583.5	514.6	503.4	534.8	645.3	698.3
27.5°	1091.8	1103.8	942.7	841.7	750.4	627.6	588.4	723.0	670.9	706.2	698.3
30°	1374.0	1367.6	1310.6	1125.4	942.7	779.2	780.7	759.2	723.9	832.1	945.1
32.5°	1781.2	1802.1	1541.5	1347.5	1178.4	948.3	859.4	1009.2	1002.9	971.5	1014.0
35°	2220.6	2217.3	2004.1	1684.2	1274.7	1072.5	1026.9	1115.9	1094.2	1046.2	1124.7
37.5°	2499.5	2468.3	2323.1	2048.1	1558.4	1222.6	1238.6	1303.5	1281.8	1218.6	1363.5
40°	2903.5	2869.0	2696.0	2322.4	1943.2	1481.5	1572.0	1519.2	1448.5	1437.4	1455.9
42.5°	3051.8	3053.5	2884.3	2612.6	2277.5	1851.8	1899.0	1666.6	1595.3	1714.8	1674.6
45°	3098.3	3092.0	2974.1	2770.6	2494.8	2294.4	2143.5	1935.2	1863.1	1972.0	2015.3
47.5°	2996.6	2970.9	2990.2	2762.5	2724.0	2487.4	2456.2	2308.7	2324.8	2263.0	2364.9
50°	2723.2	2685.6	2736.0	2676.7	2841.0	2696.7	3060.6	2501.9	2493.2	2604.5	2731.1
52.5°	2299.1	2271.1	2434.5	2385.7	2815.4	2925.2	3180.9	3058.3	3066.3	3076.8	3007.7
55°	1883.8	1898.3	2023.3	1994.4	2444.2	2974.8	3582.5	3514.3	3560.9	3302.8	3303.5
57.5°	1345.1	1377.2	1602.4	1619.4	2036.9	2616.6	3904.8	3795.8	3915.3	3674.0	3727.6
60°	926.7	945.9	1067.7	1237.8	1528.7	2172.5	3733.3	4276.8	4384.9	4051.5	4049.1
62°	719.1	727.1	745.6	962.8	1173.6	1561.7	3695.5	4397.8	4551.0	4247.0	4181.4
62.5°	667.0	675.7	687.8	873.8	1082.2	1419.7	3554.6	4424.3	4533.2	4272.0	4203.8
65°	534.0	537.9	510.6	581.3	764.7	848.1	2554.1	4300.0	4369.7	4241.4	4138.9
67.5°	494.5	480.1	442.5	423.3	572.4	546.7	1390.0	3665.2	3845.5	4059.5	3952.9
70°	409.6	441.6	411.2	378.4	457.0	420.0	589.9	2966.1	3016.6	3716.4	3701.9
72.5°	313.5	336.7	360.7	356.7	352.0	338.3	392.0	1853.5	2001.8	3050.3	3427.8
75°	254.1	263.7	314.2	303.8	312.6	267.8	308.7	881.0	1066.2	2158.8	2981.4
77.5°	204.5	210.8	244.5	235.6	258.9	209.2	246.0	399.2	452.1	1241.0	2041.8
80°	135.5	138.7	178.0	176.3	189.3	185.2	185.9	279.8	283.0	580.3	1068.7
82.5°	101.0	99.4	122.7	123.4	122.7	133.8	127.5	191.6	199.7	284.7	355.1
85°	65.8	63.3	72.9	77.8	74.6	73.8	96.2	134.7	140.2	202.7	211.6
87.5°	36.1	38.4	48.1	48.1	50.6	49.6	78.5	89.8	93.9	135.5	113.8
90°	24.1	24.1	26.5	25.6	27.3	26.5	41.0	52.9	53.7	68.1	60.9
92.5°	21.6	23.3	26.5	26.5	28.8	24.9	36.9	44.8	45.8	55.3	46.5
95°	19.3	20.0	22.5	23.3	24.9	17.6	28.0	36.9	37.6	45.8	37.6
97.5°	16.0	17.6	19.3	20.0	22.5	16.0	23.3	29.6	30.5	35.3	28.8
100°	16.0	16.9	16.9	16.9	19.3	13.7	20.0	25.6	26.5	28.8	24.1
102.5°	15.2	16.0	15.2	14.5	16.0	12.0	17.6	21.6	21.6	20.8	20.0
105°	15.2	15.2	12.8	11.1	13.7	11.1	15.2	16.0	16.0	16.0	18.4
107.5°	14.5	14.5	12.0	10.4	11.1	9.6	12.8	13.7	13.7	14.5	17.6



REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	13.7	12.8	10.4	8.9	8.9	8.9	10.4	11.1	11.1	12.8	18.4
112.5°	12.0	12.0	8.9	8.1	8.1	8.1	9.6	10.4	10.4	12.0	17.6
115°	11.1	11.1	8.9	7.2	7.2	7.2	8.9	9.6	9.6	11.1	17.6
117.5°	12.0	11.1	8.1	7.2	6.4	6.4	7.2	8.9	8.9	11.1	17.6
120°	10.4	10.4	8.1	6.4	5.6	6.4	7.2	8.1	8.9	12.0	17.6
122.5°	11.1	10.4	8.1	5.6	5.6	5.6	6.4	8.1	8.1	11.1	16.0
125°	10.4	9.6	7.2	5.6	4.9	5.6	6.4	7.2	8.1	11.1	16.0
127.5°	10.4	9.6	7.2	5.6	4.9	4.9	6.4	7.2	7.2	10.4	15.2
130°	9.6	9.6	6.4	4.9	4.9	4.9	5.6	6.4	6.4	9.6	13.7
132.5°	8.9	8.1	6.4	4.9	4.0	4.9	5.6	5.6	5.6	8.9	12.8
135°	8.1	8.1	6.4	4.9	4.0	4.0	4.9	5.6	5.6	8.1	11.1
137.5°	7.2	7.2	6.4	4.9	4.0	4.0	4.0	4.9	4.9	7.2	9.6
140°	7.2	7.2	6.4	4.9	4.0	4.0	4.0	4.0	4.0	5.6	8.1
142.5°	7.2	7.2	6.4	4.9	4.0	3.2	3.2	3.2	3.2	4.9	6.4
145°	6.4	6.4	5.6	4.9	3.2	2.4	2.4	3.2	3.2	4.0	4.9
147.5°	6.4	6.4	5.6	4.0	2.4	1.5	1.5	2.4	2.4	3.2	4.0
150°	4.9	4.9	4.9	3.2	1.5	0.0	1.5	1.5	1.5	3.2	3.2
152.5°	3.2	3.2	2.4	1.5	0.8	0.8	0.8	1.5	1.5	1.5	2.4
155°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5
157.5°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
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: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	18.4	17.6	17.6	17.6	18.4	18.4	18.4	17.6	16.9	16.9	16.9
5°	16.9	16.0	16.0	16.0	16.9	16.9	16.9	16.9	16.9	16.9	16.9
7.5°	18.4	16.9	16.9	16.0	16.0	16.9	18.4	27.3	47.3	66.6	77.8
10°	25.6	25.6	22.5	20.8	20.8	30.5	113.0	122.7	122.7	116.2	112.2
12.5°	232.5	183.6	162.0	57.0	46.5	94.6	108.2	101.8	141.2	164.3	173.9
15°	168.3	184.4	198.9	178.8	241.3	101.0	163.5	198.9	267.8	271.0	273.4
17.5°	283.0	305.5	220.4	192.3	225.2	299.0	244.5	253.3	253.3	253.3	254.1
20°	398.4	405.7	423.3	404.9	226.1	315.0	313.5	254.8	287.0	357.5	377.6
22.5°	423.3	437.7	416.9	404.1	477.8	294.3	323.8	405.7	410.4	391.2	400.9
25°	718.3	697.4	612.5	431.2	477.0	411.2	418.5	380.0	390.5	379.2	386.5
27.5°	712.6	701.4	633.2	622.0	501.1	486.6	388.7	438.6	465.7	483.4	480.1
30°	995.6	929.9	733.5	642.1	591.7	465.7	427.2	415.2	412.1	433.0	434.5
32.5°	1000.4	990.8	844.9	830.6	608.4	471.4	403.2	379.2	433.0	461.8	457.0
35°	1160.8	1111.1	965.9	896.1	699.1	443.4	360.0	379.2	388.0	408.9	408.0
37.5°	1304.2	1289.1	1170.4	990.0	673.4	404.1	406.5	404.1	393.5	396.8	396.8
40°	1495.0	1410.9	1305.1	1077.3	630.2	433.0	438.6	381.6	371.2	365.5	365.5
42.5°	1722.0	1579.2	1481.5	1119.8	598.8	509.9	415.2	372.7	362.3	346.2	344.0
45°	1989.7	1812.5	1665.7	1133.5	502.6	528.4	431.2	424.1	389.7	375.1	369.6
47.5°	2224.6	2081.9	1878.3	1155.9	582.8	504.2	567.5	481.9	376.0	396.8	393.5
50°	2577.2	2393.8	2027.4	1099.0	622.9	489.8	589.9	421.7	387.2	415.2	413.7
52.5°	2889.0	2714.4	2183.7	1013.3	589.2	677.4	523.5	483.4	449.0	434.5	433.0
55°	3215.5	3040.7	2289.5	970.0	582.0	541.9	544.4	523.5	405.7	436.8	436.0
57.5°	3590.5	3494.3	2519.6	951.6	596.5	478.5	544.4	437.7	462.5	436.8	441.6
60°	3790.9	3790.9	2653.5	933.1	550.8	491.5	467.4	481.0	401.6	406.5	419.2
62°	3959.3	4004.3	2776.1	884.2	549.1	412.1	459.4	424.9	392.7	416.9	433.0
62.5°	4016.2	4050.6	2813.0	874.6	562.8	390.5	425.6	424.1	407.2	410.4	424.9
65°	4071.6	4231.0	2901.2	813.7	517.9	368.8	364.0	402.4	352.8	337.6	338.3
67.5°	4018.7	4238.4	2871.5	655.0	420.0	316.7	321.5	335.8	318.3	312.6	315.8
70°	3825.4	3914.5	2569.2	540.3	362.3	290.2	308.7	296.6	291.8	291.1	290.2
72.5°	3560.9	3391.8	2017.8	406.5	311.8	251.7	264.6	273.4	275.1	271.0	266.2
75°	3003.8	2663.8	1316.2	304.6	249.3	213.3	241.3	248.6	254.8	243.7	239.7
77.5°	2061.8	1679.4	681.5	242.2	215.7	178.8	211.6	222.9	229.2	212.4	214.9
80°	957.1	766.3	315.0	197.9	178.8	148.3	179.7	194.0	202.7	180.4	172.4
82.5°	323.1	295.1	190.0	153.2	146.8	113.0	145.0	162.0	164.3	149.8	127.5
85°	192.3	193.1	133.0	117.9	108.2	70.5	104.3	127.5	127.5	105.8	86.5
87.5°	110.6	124.2	101.8	89.8	80.9	48.1	77.8	87.3	85.8	67.4	48.1
90°	55.3	64.9	60.1	59.3	60.9	30.5	60.9	65.8	65.8	46.5	29.6
92.5°	41.0	49.6	53.7	50.6	51.4	23.3	48.9	49.6	48.9	36.1	23.3
95°	34.5	43.3	53.7	50.6	48.9	19.3	44.8	45.8	46.5	35.3	25.6
97.5°	27.3	32.9	41.7	41.0	44.0	16.0	41.0	41.0	39.3	28.8	21.6
100°	24.9	28.8	35.3	35.3	38.4	14.5	36.1	32.9	31.4	23.3	20.0
102.5°	20.8	23.3	27.3	26.5	28.8	13.7	26.5	25.6	24.1	20.0	19.3
105°	20.0	20.8	20.8	19.3	20.0	12.8	18.4	17.6	16.9	16.9	17.6
107.5°	19.3	19.3	17.6	16.0	16.0	12.0	13.7	12.8	13.7	17.6	18.4



REPORT NUMBER: P266476

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.3	19.3	16.0	14.5	12.8	11.1	12.0	10.4	12.0	17.6	19.3
112.5°	19.3	19.3	14.5	12.0	12.0	10.4	10.4	9.6	11.1	17.6	19.3
115°	18.4	18.4	13.7	11.1	10.4	9.6	9.6	8.9	11.1	17.6	19.3
117.5°	18.4	18.4	13.7	11.1	9.6	8.9	8.9	8.1	11.1	18.4	19.3
120°	18.4	18.4	13.7	10.4	9.6	8.9	8.1	8.1	11.1	17.6	19.3
122.5°	17.6	16.9	12.8	9.6	8.9	8.1	8.1	8.1	11.1	18.4	19.3
125°	16.9	16.0	12.8	9.6	8.1	8.1	7.2	7.2	11.1	17.6	18.4
127.5°	16.0	16.0	12.0	8.9	8.1	7.2	7.2	7.2	11.1	18.4	18.4
130°	15.2	14.5	11.1	8.1	7.2	6.4	6.4	7.2	12.0	16.9	17.6
132.5°	13.7	12.8	10.4	7.2	6.4	6.4	6.4	6.4	11.1	16.9	16.9
135°	11.1	11.1	8.9	6.4	5.6	5.6	5.6	6.4	10.4	14.5	15.2
137.5°	10.4	9.6	8.1	6.4	4.9	5.6	5.6	6.4	10.4	13.7	14.5
140°	8.9	8.1	6.4	4.9	4.9	4.9	4.9	5.6	8.9	12.0	12.8
142.5°	6.4	6.4	5.6	4.0	4.0	4.0	4.0	5.6	8.1	10.4	10.4
145°	5.6	5.6	4.9	4.0	3.2	2.4	2.4	4.0	6.4	8.9	8.9
147.5°	4.0	4.0	4.0	3.2	2.4	2.4	2.4	3.2	4.9	6.4	6.4
150°	3.2	3.2	3.2	2.4	2.4	1.5	1.5	2.4	4.0	4.9	4.9
152.5°	2.4	2.4	2.4	2.4	1.5	1.5	1.5	1.5	2.4	3.2	3.2
155°	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	1.5
157.5°	0.8	0.8	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0
160°	0.8	0.8	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	1.5	1.5	0.8	0.8	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)