

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: P240583

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
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-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7125.9 lumens
Efficiency: N/A
Efficacy: 85.9 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: B2 - U3 - 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



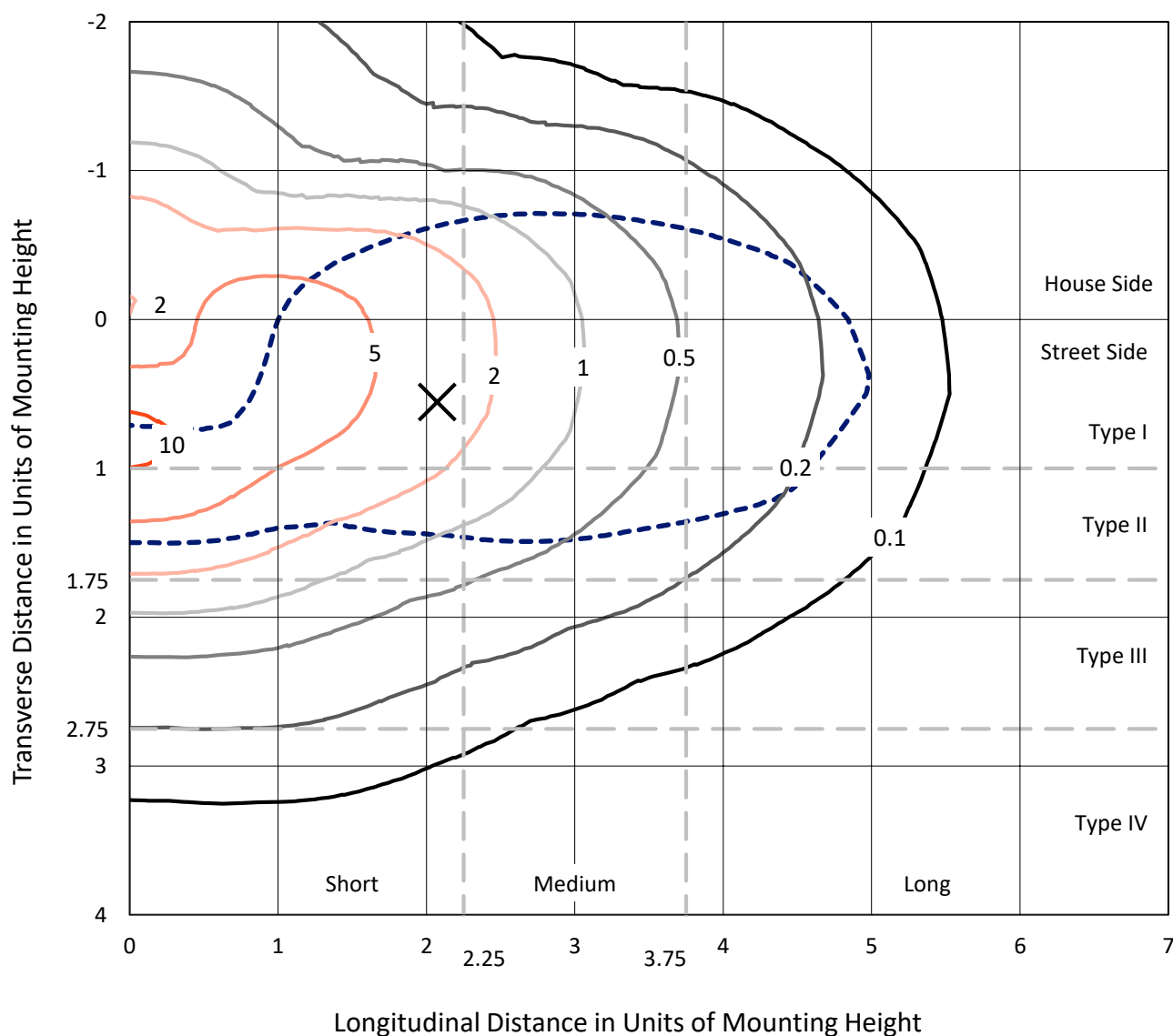
REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

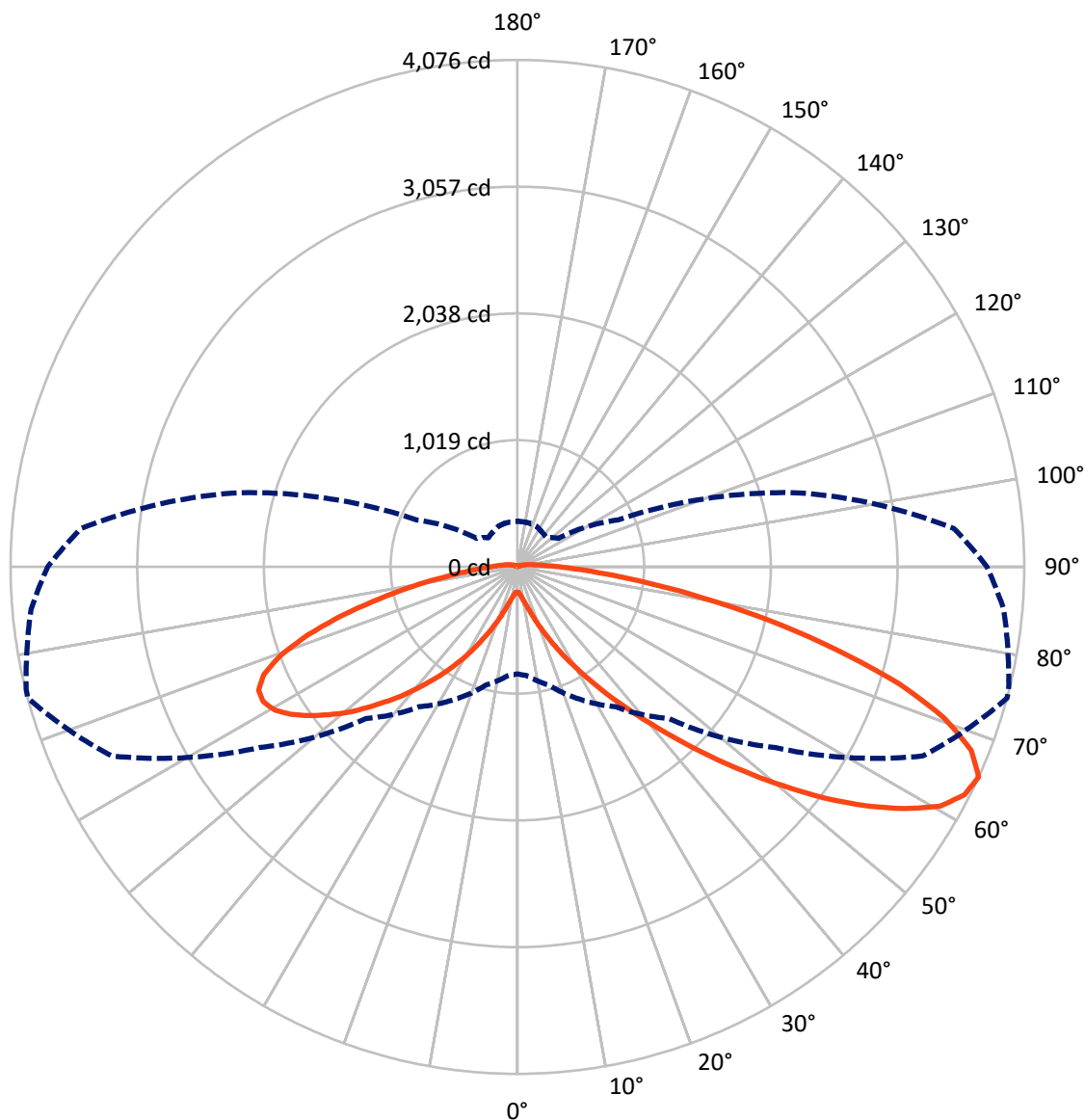


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

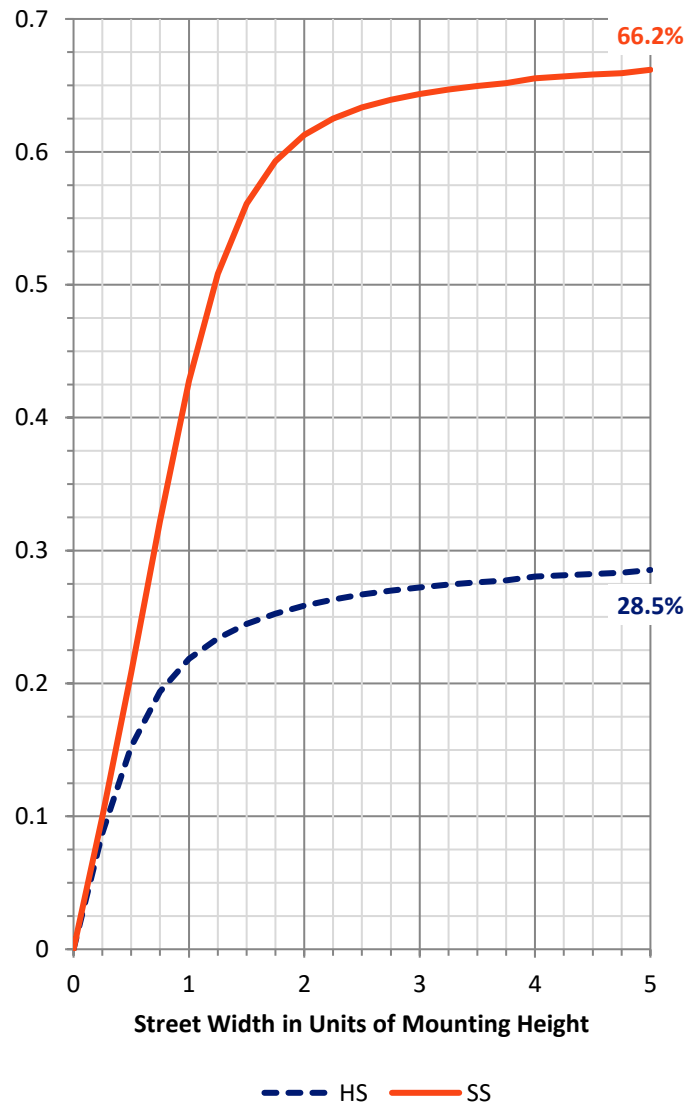
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.0	126.2	2230.2
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4782.2	113.5	4895.7
	% Fixture	67.1	1.6	68.7
Total	Lumens	6886.2	239.7	7125.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.3
10°-20°	103.1	1.4
20°-30°	300.5	4.2
30°-40°	674.0	9.5
40°-50°	1199.5	16.8
50°-60°	1630.0	22.9
60°-70°	1582.9	22.2
70°-80°	997.7	14.0
80°-90°	376.2	5.3
90°-100°	128.1	1.8
100°-110°	58.0	0.8
110°-120°	27.9	0.4
120°-130°	14.7	0.2
130°-140°	7.6	0.1
140°-150°	2.8	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6886.2	96.6
0°-180°	7125.9	100.0

Coefficient of Utilization



REPORT NUMBER: P240583

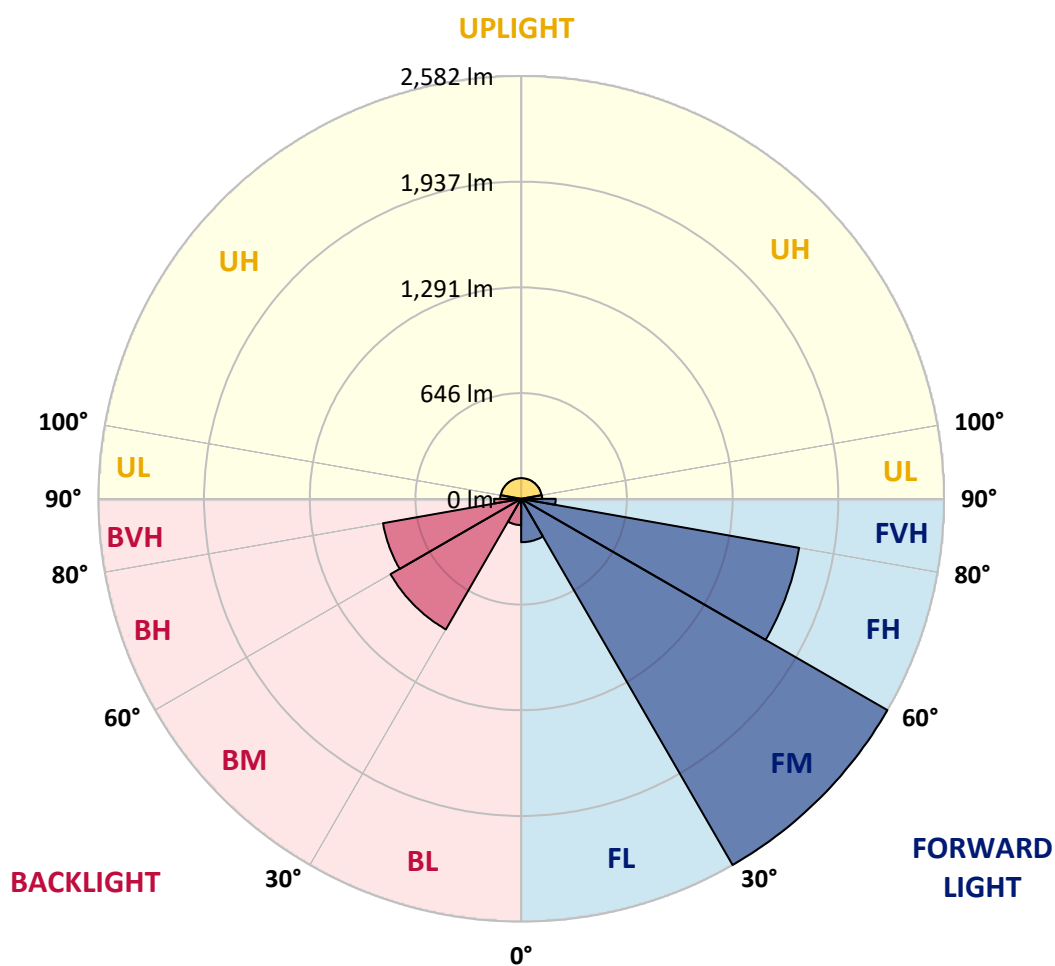
CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.4	3.7			
FM	(30°-60°)	2582.5	36.2			
FH	(60°-80°)	1723.8	24.2			G1/1800
FVH	(80°-90°)	210.6	3.0			G2/225
BL	(0°-30°)	160.5	2.3	B1/500		
BM	(30°-60°)	921.0	12.9	B1/1000		
BH	(60°-80°)	856.9	12.0	B2/1000		G2/1000
BVH	(80°-90°)	165.7	2.3			G2/225
UL	(90°-100°)	128.1	1.8		U3/500	
UH	(100°-180°)	126.2	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
2.5°	220.4	219.5	219.5	219.5	217.8	216.0	213.3	211.5	208.8	207.9	207.0
5°	243.6	243.6	242.8	241.9	240.1	235.6	231.2	227.6	223.1	222.3	218.6
7.5°	280.2	279.3	278.4	274.0	271.3	265.1	258.0	252.6	244.5	244.5	239.2
10°	328.5	326.6	324.0	319.5	309.6	301.7	293.6	283.7	275.8	274.9	266.8
12.5°	385.5	385.5	382.0	373.0	360.5	349.0	335.5	324.8	314.1	313.2	306.2
15°	464.1	465.0	453.3	440.0	422.2	404.3	387.4	377.5	365.0	367.6	357.9
17.5°	561.4	559.5	549.8	523.1	493.6	470.4	450.7	440.0	430.2	431.0	423.9
20°	683.6	681.8	664.9	629.3	580.9	546.2	523.1	515.8	510.5	507.8	500.6
22.5°	834.4	825.6	791.6	745.1	687.1	637.2	612.2	601.5	599.8	600.6	593.5
25°	1003.1	999.5	956.7	882.6	807.7	743.4	705.0	703.2	706.0	701.5	701.5
27.5°	1208.4	1198.6	1148.6	1045.9	938.9	862.0	817.5	813.0	825.6	821.9	816.6
30°	1448.4	1433.3	1365.4	1234.3	1096.9	994.1	942.5	942.5	955.8	955.8	954.1
32.5°	1699.2	1696.6	1591.3	1437.8	1275.3	1139.7	1095.0	1087.9	1101.3	1108.4	1099.4
35°	1981.2	1960.6	1839.4	1665.3	1455.6	1306.5	1251.2	1261.1	1271.8	1272.7	1258.3
37.5°	2268.5	2248.1	2108.8	1893.8	1649.3	1488.5	1431.6	1438.6	1455.6	1455.6	1436.9
40°	2514.9	2492.6	2356.0	2132.0	1863.4	1691.3	1630.4	1651.0	1662.6	1667.1	1636.7
42.5°	2709.4	2693.3	2571.1	2342.6	2069.6	1894.7	1855.4	1889.3	1900.9	1909.9	1866.1
45°	2818.4	2804.9	2720.1	2514.0	2242.8	2098.1	2105.3	2146.3	2168.7	2158.9	2111.6
47.5°	2835.3	2824.6	2777.3	2620.2	2401.5	2293.6	2361.4	2423.0	2456.9	2457.8	2377.5
50°	2730.0	2734.4	2735.3	2645.1	2490.8	2452.5	2600.6	2738.9	2764.8	2750.5	2655.9
52.5°	2525.6	2522.9	2574.7	2574.7	2506.9	2550.6	2801.4	3048.6	3084.3	3080.7	2949.6
55°	2222.3	2224.8	2321.2	2397.1	2422.1	2571.1	2965.7	3328.8	3387.7	3382.3	3237.8
57.5°	1844.8	1870.5	1989.3	2134.7	2248.1	2483.7	3041.4	3569.8	3666.2	3667.1	3492.2
60°	1477.8	1504.6	1643.0	1829.5	1993.8	2314.9	2990.5	3694.7	3906.2	3896.4	3710.8
62.5°	1128.9	1156.6	1289.6	1502.0	1693.0	2045.5	2817.5	3720.6	4033.9	4027.7	3867.9
65°	859.5	877.3	984.3	1170.9	1371.6	1723.3	2532.7	3597.5	4075.8	4071.3	3925.9
67.5°	642.6	650.6	752.4	903.1	1077.2	1394.0	2139.2	3301.2	3936.6	3941.1	3859.8
70°	494.4	499.8	573.8	705.0	834.4	1089.7	1733.2	2873.6	3643.9	3655.5	3652.7
72.5°	392.7	400.7	459.7	555.1	648.8	825.6	1340.5	2324.8	3210.1	3234.2	3306.5
75°	324.0	332.9	377.5	448.0	515.8	628.2	974.6	1783.9	2638.9	2689.9	2850.5
77.5°	267.6	276.7	314.1	369.6	411.5	480.0	714.0	1319.1	2073.2	2094.6	2307.0
80°	219.5	227.6	261.4	304.3	334.7	374.9	520.3	926.4	1511.8	1538.6	1745.6
82.5°	175.0	182.0	213.3	248.1	273.0	300.8	385.5	634.6	1053.0	1072.7	1209.3
85°	134.7	141.9	168.7	199.0	220.4	242.8	295.4	441.7	697.0	720.2	820.2
87.5°	100.8	107.1	129.4	155.2	177.5	196.3	227.6	305.3	465.0	484.6	531.9
90°	74.1	78.5	98.2	117.8	138.3	158.9	178.5	223.1	309.6	317.7	350.7
92.5°	55.2	58.0	74.1	91.0	110.7	128.5	141.1	164.2	217.8	218.6	241.9
95°	41.1	43.7	57.2	71.3	88.4	105.3	116.1	127.7	159.7	162.5	176.7
97.5°	33.0	33.9	45.6	58.0	72.3	86.6	95.5	101.7	122.3	125.0	134.7
100°	27.7	28.5	38.4	49.0	61.6	74.1	80.3	83.0	96.3	99.1	106.2
102.5°	24.1	24.1	33.0	42.8	53.5	62.5	66.9	68.8	77.7	77.7	83.0
105°	21.5	21.5	28.5	37.4	46.4	54.4	57.2	57.2	60.6	61.6	64.3
107.5°	19.6	19.6	25.9	33.9	41.1	47.3	49.0	47.3	48.2	48.2	49.9
110°	17.8	17.8	22.3	30.4	36.6	41.1	41.9	40.2	37.4	37.4	39.3



REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	16.1	16.9	20.5	26.8	32.1	36.6	36.6	33.9	29.5	29.5	31.2
115°	15.2	15.2	18.8	24.1	28.5	32.1	32.1	28.5	24.1	23.2	25.0
117.5°	14.3	14.3	16.1	21.5	25.9	28.5	28.5	24.1	19.6	19.6	21.5
120°	13.4	13.4	15.2	19.6	23.2	25.9	25.0	21.5	16.9	16.9	18.8
122.5°	13.4	13.4	14.3	17.8	20.5	22.3	21.5	17.8	14.3	14.3	16.1
125°	12.4	12.4	13.4	16.1	18.8	20.5	18.8	15.2	13.4	13.4	14.3
127.5°	12.4	12.4	12.4	14.3	16.9	17.8	16.9	13.4	11.6	11.6	13.4
130°	11.6	11.6	12.4	13.4	15.2	16.1	14.3	11.6	10.7	10.7	12.4
132.5°	11.6	11.6	11.6	11.6	12.4	13.4	11.6	9.0	9.9	9.9	10.7
135°	10.7	10.7	10.7	10.7	11.6	11.6	9.9	8.0	9.0	9.0	9.9
137.5°	9.9	9.9	9.9	9.9	9.9	9.0	8.0	7.1	8.0	8.0	9.0
140°	9.0	9.0	9.0	8.0	7.1	7.1	6.2	5.4	6.2	6.2	7.1
142.5°	8.0	8.0	8.0	7.1	6.2	5.4	4.5	4.5	5.4	5.4	6.2
145°	7.1	7.1	6.2	5.4	4.5	3.6	2.7	3.6	4.5	4.5	5.4
147.5°	5.4	5.4	5.4	4.5	2.7	1.7	1.7	2.7	3.6	3.6	3.6
150°	4.5	4.5	4.5	3.6	1.7	0.9	0.9	1.7	1.7	1.7	2.7
152.5°	2.7	2.7	2.7	2.7	0.9	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	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: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
2.5°	206.2	205.3	203.4	201.7	200.0	198.1	196.3	195.5	193.6	193.6	193.6
5°	216.9	214.1	210.7	207.0	203.4	200.8	198.1	195.5	193.6	192.8	191.9
7.5°	236.5	232.9	226.7	221.4	215.1	209.8	205.3	201.7	200.0	199.0	199.0
10°	263.4	258.8	250.7	240.1	232.9	224.8	217.8	213.3	209.8	208.8	207.9
12.5°	299.0	294.5	281.2	269.6	256.1	243.6	235.6	230.2	227.6	226.7	226.7
15°	349.8	344.5	323.1	303.4	282.0	266.8	256.1	251.7	252.6	255.2	252.6
17.5°	413.2	405.2	380.2	348.1	316.0	292.7	282.9	283.7	287.4	290.1	289.1
20°	491.7	480.0	445.3	399.8	356.0	324.8	315.0	316.0	320.3	328.5	327.6
22.5°	583.7	565.9	521.1	459.7	398.0	362.3	344.5	347.1	356.9	365.0	365.0
25°	684.5	668.4	605.1	523.1	446.3	393.6	371.3	374.9	389.1	398.0	400.7
27.5°	804.0	779.1	700.6	593.5	491.7	421.2	393.6	395.3	413.2	424.8	426.5
30°	931.8	902.3	804.0	664.0	531.9	442.6	407.0	410.5	430.2	443.6	446.3
32.5°	1075.4	1040.5	912.1	738.0	569.4	455.2	414.1	417.7	438.2	453.3	455.2
35°	1235.1	1184.3	1028.1	805.9	594.4	459.7	414.1	418.6	438.2	453.3	456.0
37.5°	1397.5	1340.5	1141.4	871.1	609.5	456.0	407.9	413.2	431.0	445.3	448.0
40°	1586.8	1513.6	1265.4	924.6	614.9	446.3	397.1	403.3	418.6	430.2	431.9
42.5°	1802.8	1699.2	1395.8	970.1	606.8	433.8	386.4	393.6	406.1	414.1	414.9
45°	2026.8	1901.7	1522.5	1005.7	595.3	418.6	375.8	383.7	394.4	396.3	398.0
47.5°	2268.5	2129.4	1660.8	1027.2	574.7	402.5	367.6	375.8	382.9	382.0	382.9
50°	2536.4	2365.0	1801.8	1036.1	551.5	389.1	361.4	370.4	375.8	371.3	371.3
52.5°	2797.8	2622.9	1930.4	1039.7	525.6	376.6	356.9	367.6	370.4	365.9	365.9
55°	3076.3	2861.2	2058.9	1029.9	499.8	366.8	355.2	366.8	368.5	362.3	362.3
57.5°	3333.3	3115.5	2175.0	1014.7	475.8	357.9	352.5	365.9	367.6	362.3	363.2
60°	3569.8	3331.6	2265.1	989.7	449.8	349.0	350.7	365.9	367.6	364.2	365.9
62.5°	3714.4	3474.3	2312.4	950.4	424.8	340.9	348.1	364.2	367.6	365.0	366.8
65°	3776.9	3525.1	2306.0	894.2	400.7	331.0	342.7	360.5	365.0	365.0	366.8
67.5°	3729.6	3478.7	2215.0	821.9	378.4	321.3	335.5	353.5	359.7	361.4	364.2
70°	3553.7	3286.8	2032.1	731.0	354.3	310.7	326.6	343.6	350.7	354.3	356.0
72.5°	3202.9	2964.8	1772.4	639.9	329.3	297.1	313.2	329.3	337.4	341.8	341.8
75°	2757.7	2519.4	1459.1	543.4	306.2	282.0	297.1	310.7	319.5	324.0	322.2
77.5°	2218.6	1996.3	1133.4	445.3	281.2	264.2	278.4	290.1	297.1	300.8	296.3
80°	1644.0	1502.0	851.3	367.6	256.1	243.6	255.2	265.1	273.0	272.2	268.7
82.5°	1165.6	1031.6	596.1	305.3	231.2	221.4	230.2	236.5	241.9	240.1	233.9
85°	776.4	689.0	421.2	249.0	205.3	197.2	202.5	206.2	208.8	204.5	200.0
87.5°	505.1	449.8	303.4	205.3	177.5	172.2	175.0	175.8	176.7	172.2	166.8
90°	330.2	307.0	225.8	169.6	152.6	149.0	149.0	145.5	146.4	141.1	135.7
92.5°	232.9	218.6	175.8	139.2	130.3	127.7	126.7	122.3	121.4	116.1	112.4
95°	174.0	167.8	141.9	117.8	110.7	109.8	107.9	103.6	100.0	94.6	92.8
97.5°	135.7	133.0	116.9	100.8	95.5	93.8	92.8	87.4	84.7	79.4	77.7
100°	107.9	107.9	98.2	86.6	82.1	81.2	80.3	75.0	72.3	66.9	66.0
102.5°	86.6	87.4	82.1	75.0	71.3	69.6	67.8	64.3	59.8	56.3	56.3
105°	67.8	69.6	67.8	63.4	61.6	59.8	58.0	54.4	49.9	46.4	46.4
107.5°	53.5	55.2	55.2	54.4	51.8	51.0	49.9	45.6	41.9	38.4	38.4
110°	41.1	43.7	45.6	45.6	45.6	43.7	41.9	39.3	34.9	32.1	32.1



REPORT NUMBER: P240583

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	33.0	34.9	37.4	38.4	38.4	38.4	36.6	32.1	28.5	26.8	27.7
115°	26.8	28.5	31.2	33.0	33.0	33.0	30.4	27.7	24.1	23.2	23.2
117.5°	22.3	24.1	25.9	28.5	28.5	28.5	26.8	23.2	19.6	19.6	19.6
120°	19.6	20.5	23.2	24.1	25.0	25.0	23.2	19.6	16.9	16.9	17.8
122.5°	16.9	17.8	19.6	21.5	22.3	21.5	19.6	16.1	14.3	15.2	15.2
125°	15.2	16.1	16.9	18.8	19.6	18.8	16.9	13.4	12.4	13.4	13.4
127.5°	14.3	14.3	15.2	16.1	16.9	16.1	14.3	11.6	10.7	12.4	12.4
130°	12.4	13.4	13.4	14.3	14.3	14.3	12.4	9.9	9.9	10.7	10.7
132.5°	11.6	11.6	11.6	12.4	12.4	11.6	9.9	8.0	9.0	9.9	9.9
135°	9.9	10.7	10.7	10.7	10.7	9.9	8.0	7.1	8.0	9.0	9.0
137.5°	9.0	9.0	9.0	9.0	9.0	8.0	7.1	6.2	7.1	7.1	7.1
140°	7.1	8.0	8.0	7.1	7.1	6.2	5.4	4.5	5.4	6.2	6.2
142.5°	6.2	6.2	6.2	6.2	5.4	4.5	3.6	3.6	4.5	4.5	4.5
145°	5.4	5.4	5.4	4.5	3.6	3.6	2.7	2.7	3.6	3.6	4.5
147.5°	3.6	3.6	3.6	3.6	2.7	2.7	1.7	1.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	2.7	1.7	1.7	1.7	0.9	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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)