

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: P240528

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6238.7 lumens
Efficiency: N/A
Efficacy: 84.3 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 - G3

Input Watts (W): 74
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

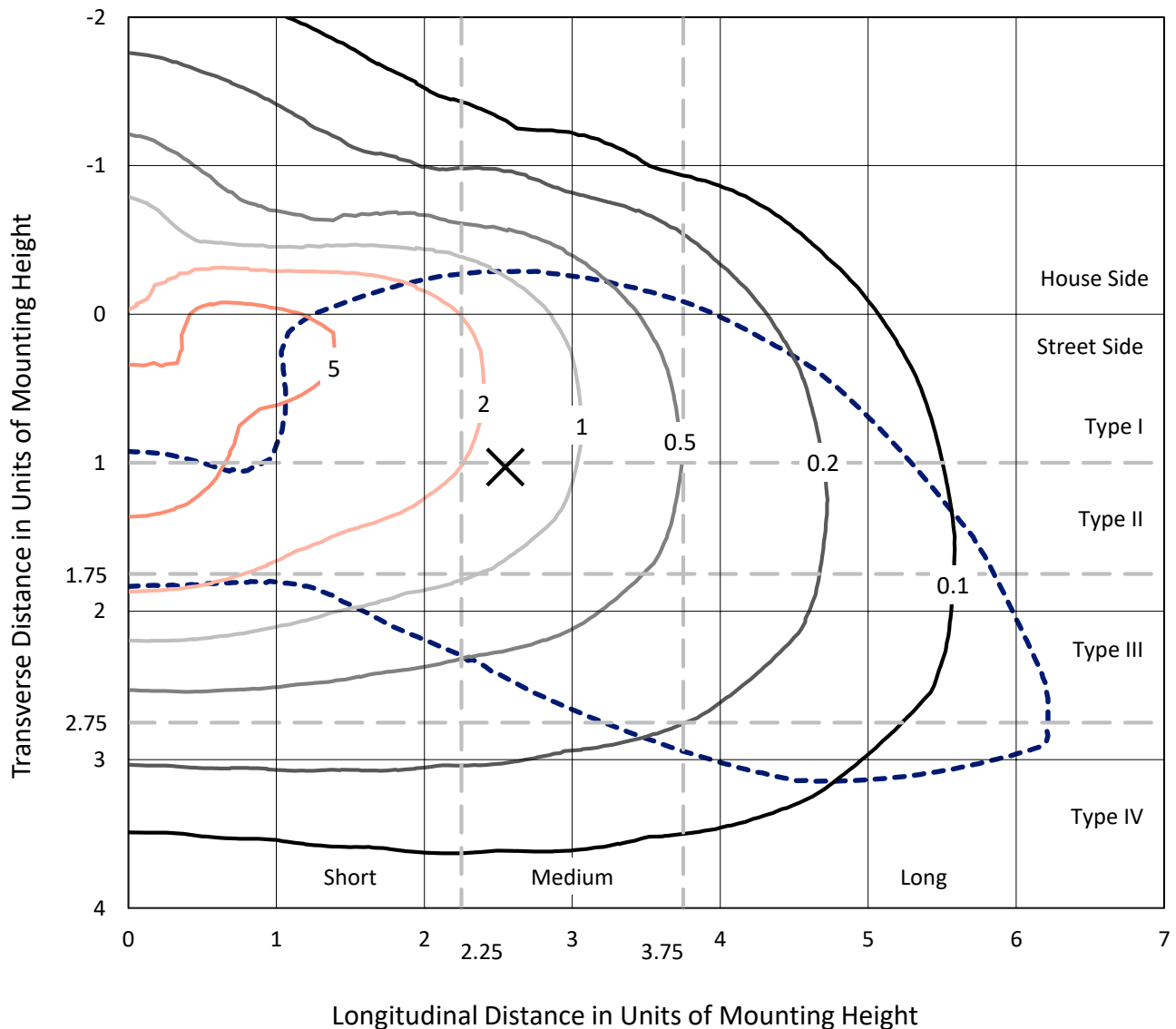


REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

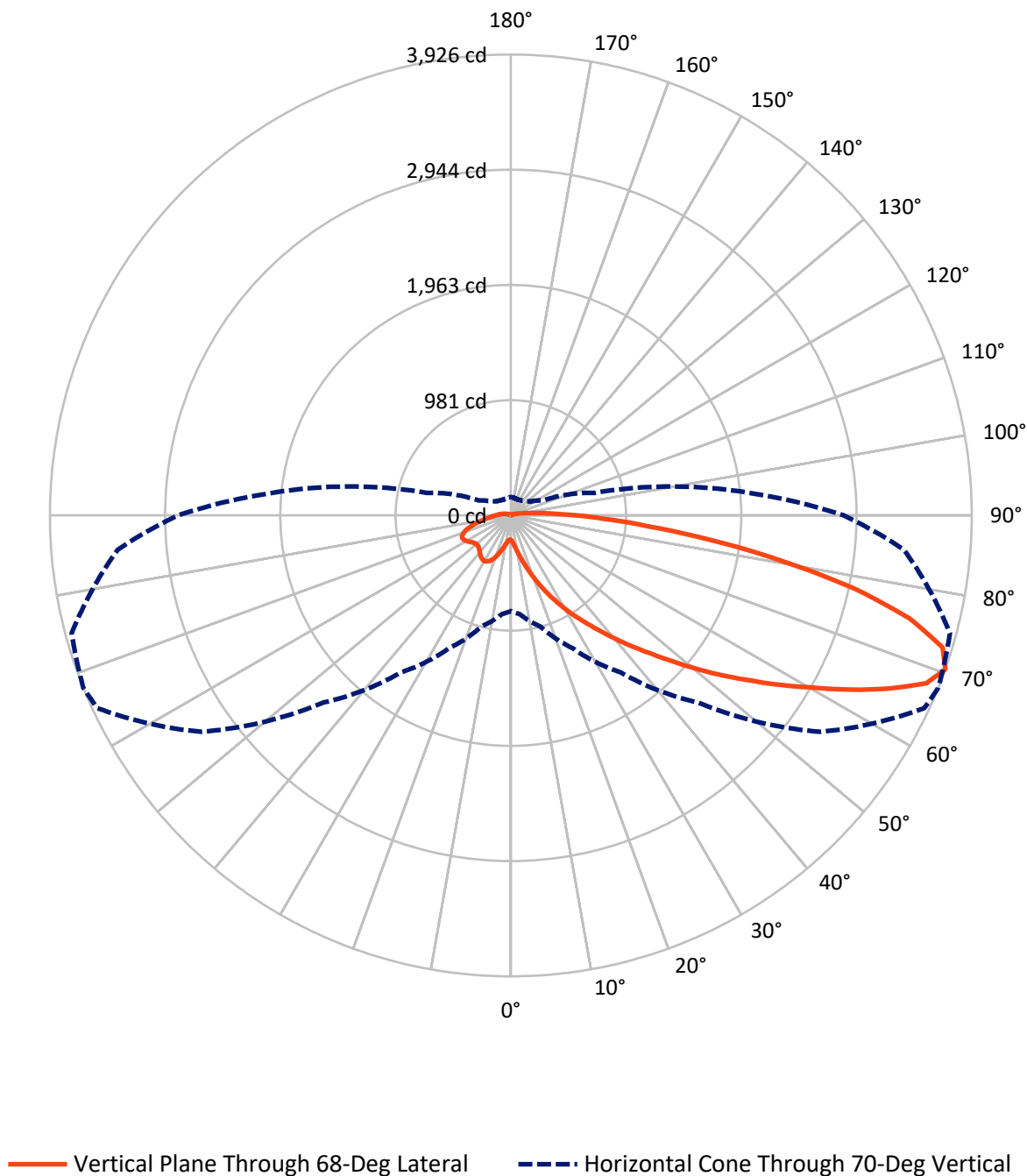


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

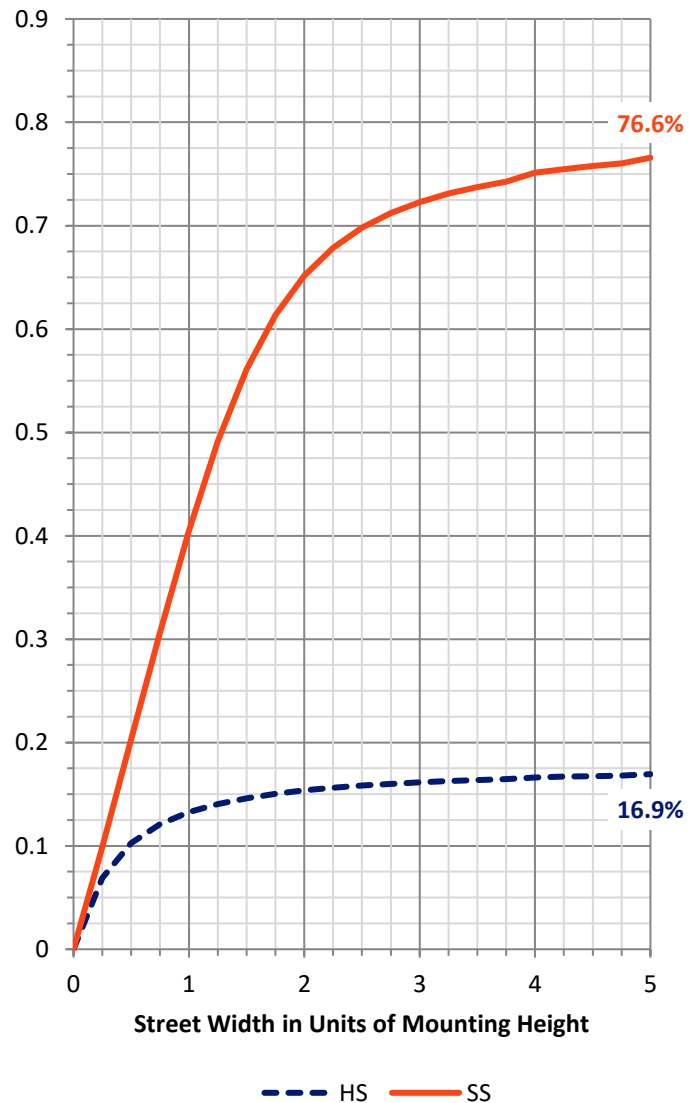
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.7	101.3	1204.1
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	4895.9	138.7	5034.7
	% Fixture	78.5	2.2	80.7
Total	Lumens	5998.7	240.0	6238.7
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.4
10°-20°	99.0	1.6
20°-30°	250.4	4.0
30°-40°	485.4	7.8
40°-50°	818.3	13.1
50°-60°	1223.5	19.6
60°-70°	1483.6	23.8
70°-80°	1157.5	18.6
80°-90°	458.0	7.3
90°-100°	140.3	2.2
100°-110°	55.1	0.9
110°-120°	24.4	0.4
120°-130°	12.0	0.2
130°-140°	5.9	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5998.7	96.2
0°-180°	6238.7	100.0

Coefficient of Utilization



REPORT NUMBER: P240528

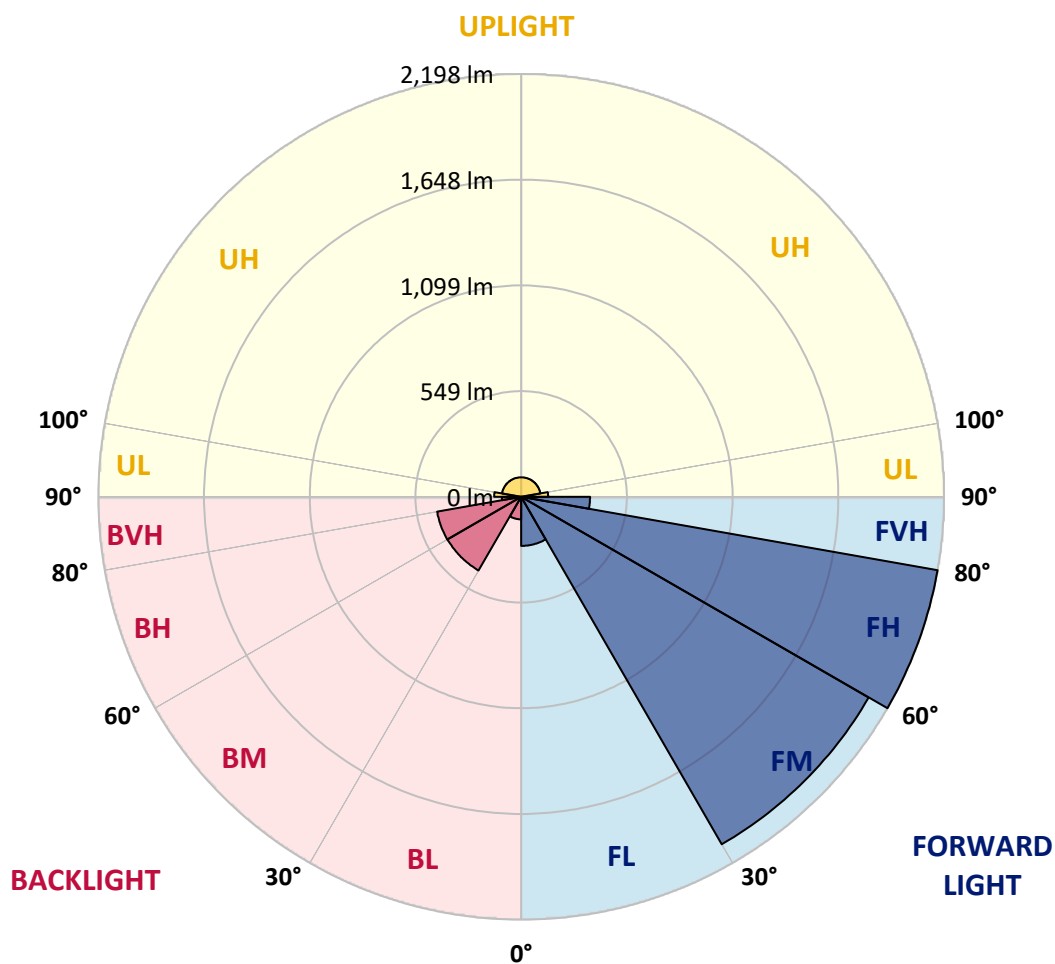
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.1	4.1			
FM	(30°-60°)	2085.2	33.4			
FH	(60°-80°)	2197.6	35.2			G2/5000
FVH	(80°-90°)	358.0	5.7			G3/500
BL	(0°-30°)	117.2	1.9	B1/500		
BM	(30°-60°)	442.0	7.1	B1/1000		
BH	(60°-80°)	443.5	7.1	B1/500		G1/500
BVH	(80°-90°)	100.0	1.6			G2/225
UL	(90°-100°)	140.3	2.2		U3/500	
UH	(100°-180°)	101.3	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7
2.5°	233.3	234.2	234.2	231.6	230.9	228.4	224.3	222.7	221.0	219.4	216.2
5°	264.3	264.3	262.7	260.1	257.0	254.5	250.4	245.5	244.7	239.0	233.3
7.5°	299.4	300.1	301.0	296.8	292.0	287.9	283.0	276.5	274.9	269.3	258.5
10°	345.8	346.7	345.0	340.9	334.5	329.5	323.9	317.3	314.8	310.0	295.2
12.5°	402.1	401.3	396.4	390.7	383.4	377.6	370.3	365.4	363.9	358.9	343.4
15°	461.6	464.9	459.2	446.3	437.1	428.2	424.9	424.9	426.5	420.8	406.2
17.5°	538.3	540.8	531.0	513.1	498.3	488.6	485.3	491.8	494.3	496.7	483.7
20°	627.2	628.0	612.5	587.3	561.1	548.9	549.8	565.2	571.0	579.9	564.5
22.5°	735.8	729.2	707.1	668.0	630.5	611.0	618.3	649.2	654.1	672.9	664.8
25°	849.1	848.3	811.6	759.4	704.7	679.5	691.7	730.0	743.8	772.5	761.9
27.5°	979.6	976.3	929.0	864.6	790.4	752.8	763.5	818.2	834.4	882.5	871.2
30°	1118.3	1119.1	1063.6	973.9	881.7	829.5	836.1	911.9	933.1	988.6	985.3
32.5°	1283.8	1274.1	1212.0	1094.6	981.2	910.2	919.2	1007.4	1036.7	1102.8	1092.9
35°	1450.2	1438.0	1355.6	1226.8	1084.8	1000.9	1004.8	1109.3	1140.2	1225.9	1207.2
37.5°	1603.6	1597.1	1514.7	1366.2	1200.6	1101.2	1106.0	1218.6	1257.7	1353.1	1330.3
40°	1768.4	1768.4	1684.3	1522.8	1329.4	1209.6	1216.9	1340.1	1387.4	1491.8	1453.4
42.5°	1942.8	1937.1	1848.2	1665.5	1457.5	1326.3	1340.9	1477.1	1530.1	1641.1	1602.0
45°	2115.0	2102.8	2010.6	1820.6	1585.7	1457.5	1479.6	1627.2	1682.7	1823.7	1769.1
47.5°	2263.5	2250.4	2159.8	1960.0	1720.2	1593.8	1624.8	1801.8	1860.4	2028.5	1945.4
50°	2369.5	2365.4	2277.3	2070.9	1840.2	1734.1	1799.3	1987.8	2057.9	2227.6	2149.2
52.5°	2431.4	2424.1	2354.0	2171.3	1960.0	1879.3	1978.8	2190.0	2264.3	2447.0	2355.6
55°	2417.6	2412.7	2363.0	2224.3	2053.8	2018.8	2177.7	2415.1	2484.4	2681.9	2573.4
57.5°	2308.3	2314.8	2300.1	2227.6	2123.1	2163.2	2381.8	2652.5	2725.9	2918.5	2802.6
60°	2113.4	2110.9	2152.5	2164.8	2150.9	2287.9	2628.0	2923.3	2979.6	3173.7	3026.1
62.5°	1825.4	1818.9	1909.5	2026.1	2130.4	2393.1	2849.9	3212.0	3268.3	3425.0	3232.4
65°	1472.3	1501.7	1615.0	1807.4	2029.4	2433.1	3065.3	3506.4	3553.0	3636.1	3394.8
67.5°	1115.9	1144.4	1291.2	1535.1	1860.4	2386.5	3202.3	3770.7	3815.7	3837.6	3465.7
70°	814.8	842.6	981.2	1248.8	1631.4	2252.1	3212.9	3884.9	3925.6	3871.9	3361.3
72.5°	579.9	594.6	713.7	967.4	1370.3	2016.3	3079.0	3811.5	3845.0	3695.7	3085.6
75°	410.3	416.9	519.5	735.8	1115.9	1749.6	2761.0	3482.8	3509.0	3321.4	2624.0
77.5°	279.8	294.5	376.1	561.1	894.8	1436.3	2340.2	2986.0	2986.0	2748.0	2075.8
80°	198.2	210.5	270.0	419.2	700.7	1150.9	1890.7	2372.8	2335.2	2065.2	1495.9
82.5°	142.7	152.5	199.8	319.7	544.0	909.5	1434.7	1756.9	1705.5	1441.2	988.6
85°	103.6	113.4	151.8	234.9	416.9	705.5	1075.0	1220.2	1169.6	955.2	641.9
87.5°	75.8	82.4	113.4	177.0	315.6	534.3	788.8	828.7	783.8	617.5	411.9
90°	53.9	59.5	86.5	133.8	236.5	401.3	553.8	544.0	495.1	388.2	272.4
92.5°	39.2	43.2	64.5	101.9	176.2	294.5	380.9	351.6	323.9	249.5	189.2
95°	29.4	32.7	50.6	79.1	129.7	207.1	257.0	230.9	209.7	170.5	139.6
97.5°	23.6	26.1	41.6	63.6	100.3	150.9	177.8	152.5	142.7	123.1	107.6
100°	20.4	22.1	35.1	53.0	79.1	113.4	125.6	106.8	101.2	93.0	84.0
102.5°	18.8	19.5	31.0	45.7	64.5	84.7	90.5	80.0	75.8	70.9	66.1
105°	17.2	17.9	27.8	40.0	54.6	66.1	69.4	61.1	58.8	53.9	50.6
107.5°	16.3	16.3	24.5	35.1	46.6	54.6	54.6	48.1	45.7	40.8	39.2
110°	15.6	15.6	22.1	31.8	40.0	46.6	44.9	38.4	35.8	31.0	30.1



REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	14.6	14.6	20.4	27.8	35.1	39.2	37.4	31.0	28.5	23.6	23.6
115°	13.8	13.8	17.9	24.5	31.0	33.5	31.8	25.2	23.6	18.8	19.5
117.5°	13.8	13.8	17.2	22.1	26.9	29.4	26.9	20.4	18.8	15.6	17.2
120°	13.0	13.0	15.6	19.5	23.6	25.2	22.8	17.2	15.6	13.0	14.6
122.5°	13.0	13.0	14.6	17.2	21.2	22.1	19.5	14.6	13.0	11.5	13.0
125°	12.2	12.2	13.8	15.6	17.9	18.8	16.3	12.2	11.5	10.6	11.5
127.5°	12.2	12.2	13.0	13.8	16.3	16.3	13.8	9.9	9.9	9.0	10.6
130°	11.5	12.2	12.2	13.0	13.8	13.8	11.5	8.2	8.2	8.2	9.9
132.5°	11.5	11.5	11.5	11.5	12.2	11.5	9.0	7.3	7.3	7.3	9.0
135°	10.6	10.6	10.6	10.6	9.9	9.0	7.3	5.7	5.7	6.5	8.2
137.5°	10.6	10.6	9.9	9.0	9.0	7.3	5.7	4.9	4.9	6.5	7.3
140°	9.9	9.9	9.0	8.2	6.5	5.7	4.1	4.1	4.1	4.9	5.7
142.5°	8.2	8.2	8.2	6.5	4.9	3.3	2.4	2.4	3.3	4.1	4.9
145°	7.3	7.3	6.5	5.7	3.3	1.6	0.8	1.6	2.4	3.3	4.1
147.5°	5.7	5.7	4.9	4.1	1.6	0.8	0.0	0.8	1.6	1.6	2.4
150°	4.1	4.1	4.1	2.4	0.8	0.0	0.0	0.8	0.8	0.8	1.6
152.5°	3.3	3.3	2.4	1.6	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	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: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7
2.5°	213.7	212.8	208.8	205.5	201.5	198.2	194.9	192.6	191.6	190.0	190.8
5°	228.4	225.1	217.0	209.7	201.5	194.2	187.6	182.7	178.6	177.0	176.2
7.5°	253.7	248.8	234.2	221.0	208.0	194.9	184.3	176.2	171.3	168.0	168.0
10°	290.4	279.8	261.0	239.0	217.0	198.2	183.5	172.1	164.8	162.4	162.4
12.5°	335.2	323.9	294.5	261.0	230.0	203.9	184.3	172.1	164.8	161.4	160.7
15°	394.8	377.6	334.5	287.2	242.2	208.8	185.2	172.9	168.0	166.4	166.4
17.5°	464.9	443.7	380.9	315.6	256.1	211.3	187.6	177.8	175.4	175.4	175.4
20°	548.2	517.2	433.1	340.9	265.9	213.7	189.2	181.9	181.9	183.5	184.3
22.5°	637.0	597.8	483.7	364.6	269.3	215.3	188.4	183.5	187.6	191.6	192.6
25°	731.6	677.0	529.4	379.2	270.8	211.3	186.0	184.3	192.6	198.2	199.8
27.5°	832.0	757.7	568.4	385.0	265.9	203.9	181.9	182.7	194.9	203.1	204.8
30°	924.2	833.6	599.5	383.4	255.3	194.9	177.0	180.3	194.9	206.4	208.8
32.5°	1019.6	908.6	618.3	376.1	242.2	185.2	171.3	177.8	194.2	207.1	209.7
35°	1115.0	974.7	627.2	361.3	227.6	176.2	165.5	173.7	191.6	206.4	208.0
37.5°	1210.4	1039.9	629.7	342.5	214.4	168.8	161.4	171.3	187.6	204.8	207.1
40°	1313.2	1104.4	624.8	323.9	202.2	164.0	158.2	168.0	184.3	202.2	205.5
42.5°	1428.2	1172.9	619.1	305.1	194.2	160.7	155.8	164.8	179.4	199.8	203.9
45°	1556.3	1248.0	615.7	290.4	189.2	159.1	154.9	162.4	177.0	198.2	202.2
47.5°	1694.1	1342.6	619.1	280.6	186.9	159.8	154.9	160.7	173.7	194.9	199.8
50°	1862.1	1451.1	631.3	273.2	186.0	160.7	155.8	159.1	170.5	190.0	194.9
52.5°	2035.8	1562.0	650.8	271.6	186.9	162.4	156.6	158.2	165.5	183.5	187.6
55°	2216.1	1708.9	684.3	274.0	188.4	164.8	157.5	156.6	161.4	175.4	180.3
57.5°	2420.1	1861.3	725.9	279.8	190.8	166.4	158.2	154.9	156.6	168.0	172.1
60°	2622.3	2016.3	768.3	287.2	195.8	168.8	159.1	154.2	154.2	163.2	166.4
62.5°	2805.9	2152.5	803.4	296.8	199.8	170.5	159.1	152.5	151.8	159.1	162.4
65°	2931.4	2224.3	811.6	302.6	203.9	171.3	157.5	150.9	150.1	155.8	159.1
67.5°	2964.9	2212.8	795.3	305.1	206.4	171.3	157.5	149.2	150.1	154.9	157.5
70°	2834.4	2094.6	741.5	300.1	205.5	170.5	155.8	147.6	149.2	154.2	155.8
72.5°	2522.8	1849.9	658.2	287.9	201.5	167.1	152.5	145.2	147.6	153.3	154.9
75°	2117.5	1532.6	559.5	268.3	194.2	163.2	149.2	141.9	146.0	151.8	152.5
77.5°	1628.8	1174.5	457.6	243.1	184.3	157.5	144.3	137.0	142.7	149.2	148.5
80°	1156.6	856.5	361.3	217.0	171.3	149.2	137.8	131.3	137.8	144.3	142.7
82.5°	796.9	580.7	288.8	191.6	157.5	140.3	130.4	124.8	132.1	137.8	135.4
85°	522.0	392.3	227.6	168.0	144.3	131.3	122.4	116.7	124.0	128.9	125.6
87.5°	336.8	273.2	181.9	146.0	130.4	121.5	113.4	108.5	115.9	119.8	116.7
90°	234.2	199.1	150.1	126.4	117.5	110.9	104.5	99.5	106.0	109.3	107.6
92.5°	167.1	152.5	124.8	110.9	106.0	100.3	94.6	90.5	97.0	99.5	97.9
95°	130.4	121.5	106.0	97.9	95.4	91.3	85.7	81.6	86.5	88.1	87.3
97.5°	104.5	100.3	91.3	86.5	84.7	81.6	77.5	73.4	76.7	77.5	76.7
100°	84.0	82.4	78.3	75.8	75.1	72.5	68.5	65.2	66.8	66.1	66.1
102.5°	66.8	66.8	66.1	65.2	65.2	62.9	59.5	56.3	56.3	54.6	54.6
105°	53.0	54.6	54.6	55.5	56.3	54.6	51.4	47.3	46.6	44.0	44.0
107.5°	41.6	43.2	45.7	46.6	47.3	45.7	43.2	39.2	36.7	34.3	35.1
110°	32.7	34.3	37.4	39.2	40.0	39.2	35.8	32.7	28.5	26.9	27.8



REPORT NUMBER: P240528

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	25.2	27.8	31.0	32.7	33.5	32.7	29.4	26.1	22.1	21.2	21.2
115°	21.2	22.8	26.1	27.8	27.8	26.9	24.5	20.4	17.2	16.3	17.2
117.5°	17.9	19.5	22.1	23.6	23.6	22.8	20.4	16.3	13.8	13.8	13.8
120°	15.6	17.2	18.8	20.4	20.4	19.5	17.2	13.0	11.5	11.5	11.5
122.5°	13.8	14.6	16.3	17.2	17.2	16.3	13.8	10.6	9.0	9.9	9.9
125°	12.2	13.0	14.6	15.6	14.6	13.8	11.5	8.2	7.3	8.2	8.2
127.5°	11.5	12.2	13.0	13.0	13.0	11.5	9.9	6.5	6.5	7.3	7.3
130°	10.6	10.6	11.5	11.5	10.6	9.9	7.3	4.9	4.9	6.5	6.5
132.5°	9.9	9.9	10.6	9.9	9.9	8.2	5.7	4.1	4.9	5.7	5.7
135°	8.2	8.2	9.0	9.0	7.3	6.5	4.1	3.3	3.3	4.1	4.9
137.5°	7.3	8.2	8.2	7.3	6.5	4.9	3.3	2.4	3.3	3.3	4.1
140°	6.5	6.5	6.5	5.7	4.9	3.3	1.6	1.6	2.4	2.4	2.4
142.5°	4.9	5.7	5.7	4.9	3.3	1.6	0.8	0.8	1.6	1.6	1.6
145°	4.1	4.1	4.1	3.3	2.4	1.6	0.8	0.8	0.8	0.8	0.8
147.5°	2.4	3.3	3.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.8	0.8	0.8	0.8	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)