

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: P266449

Luminaire Tested: **UTLD-AF24-70-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5980.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

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

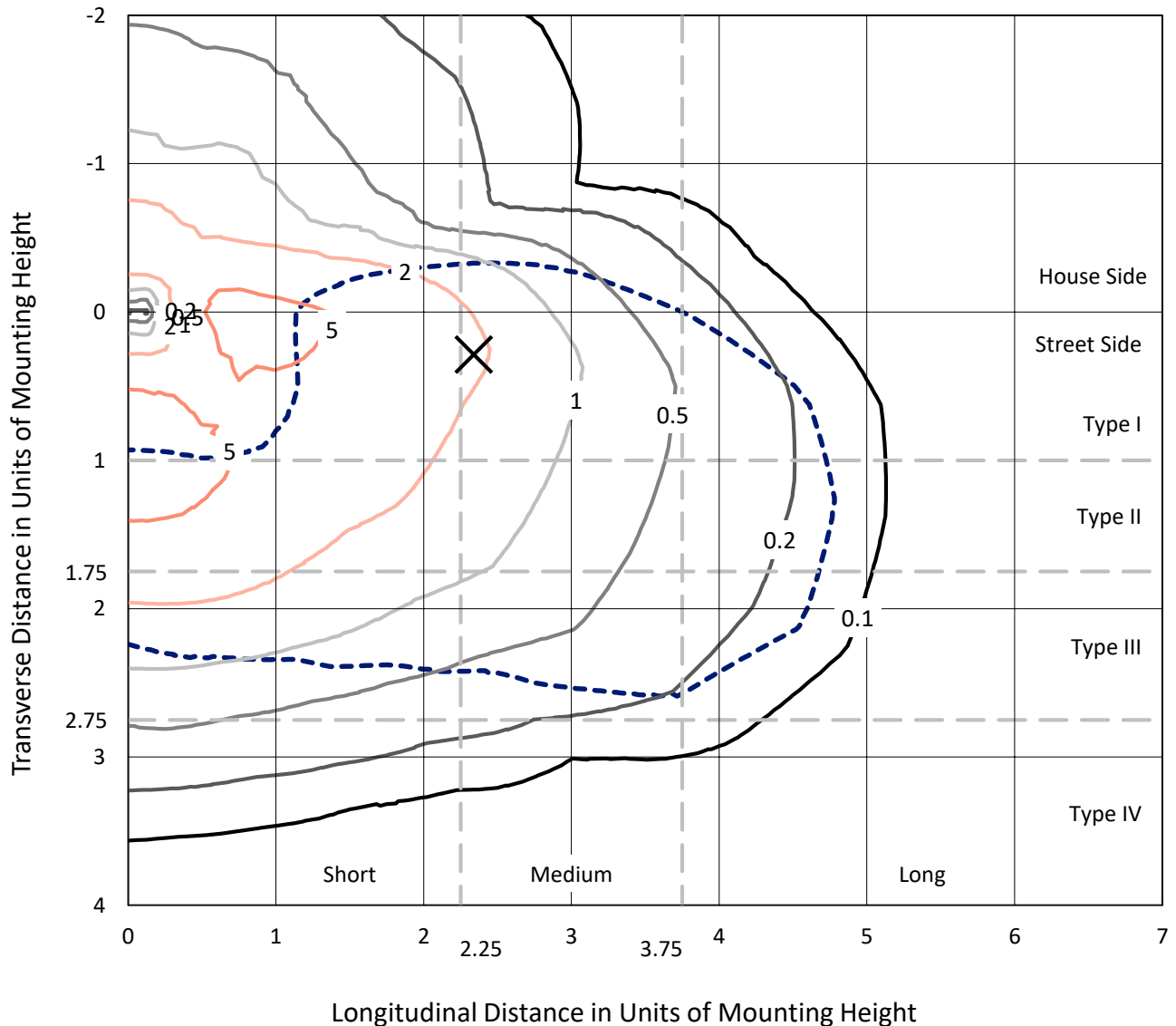


REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

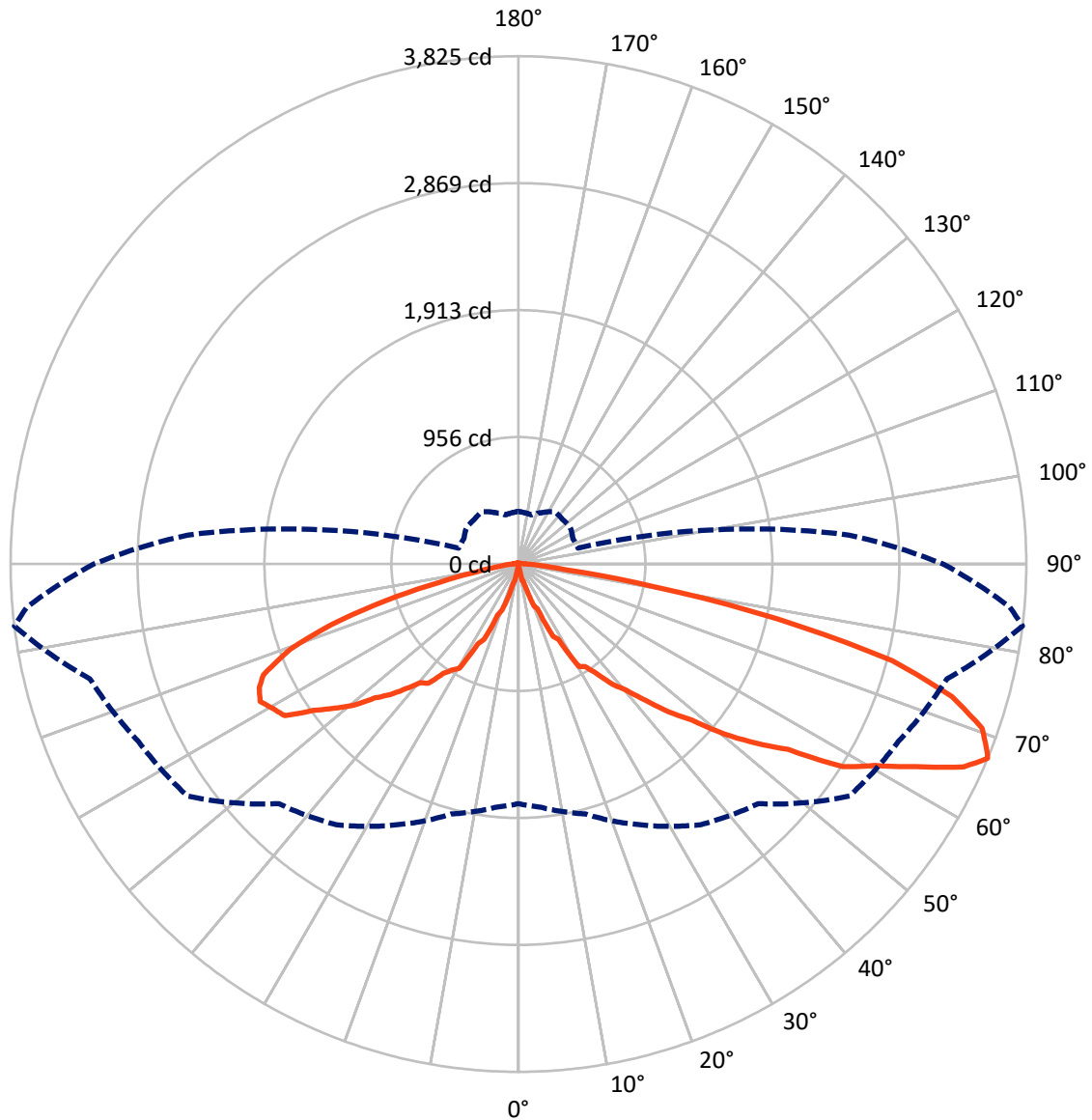


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

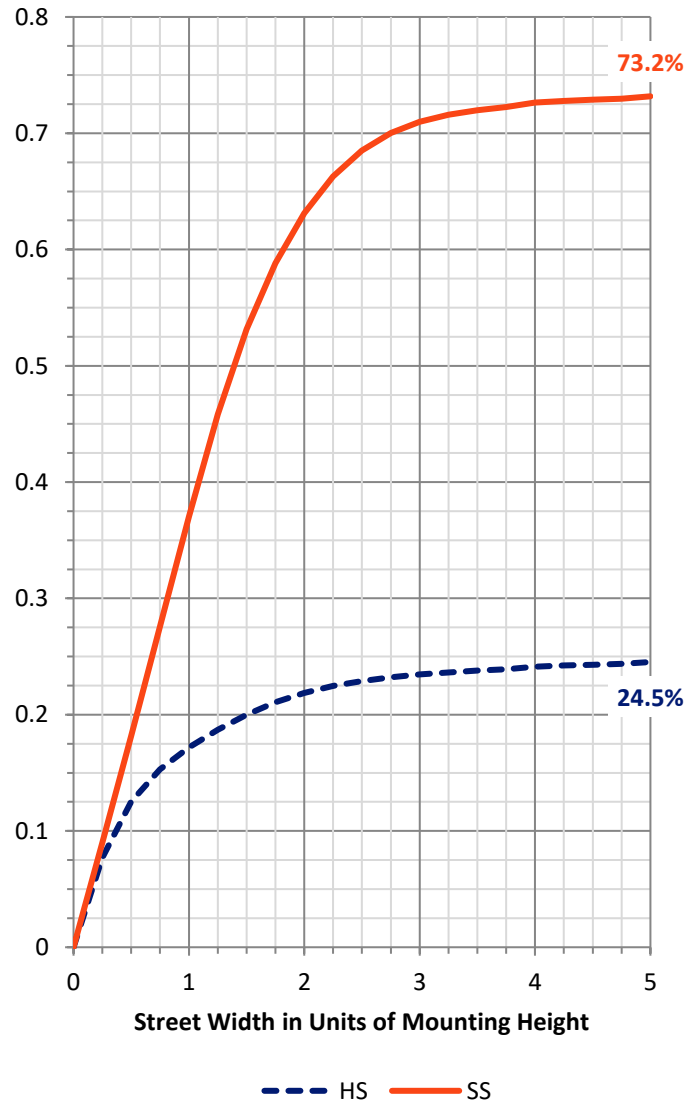
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.5	39.7	1540.2
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	4406.5	33.4	4439.9
	% Fixture	73.7	0.6	74.2
Total	Lumens	5907.1	73.1	5980.2
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	54.1	0.9
20°-30°	217.3	3.6
30°-40°	480.0	8.0
40°-50°	855.4	14.3
50°-60°	1372.7	23.0
60°-70°	1670.3	27.9
70°-80°	1076.3	18.0
80°-90°	176.8	3.0
90°-100°	36.4	0.6
100°-110°	16.6	0.3
110°-120°	8.4	0.1
120°-130°	6.0	0.1
130°-140°	3.7	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5907.1	98.8
0°-180°	5980.2	100.0



REPORT NUMBER: P266449

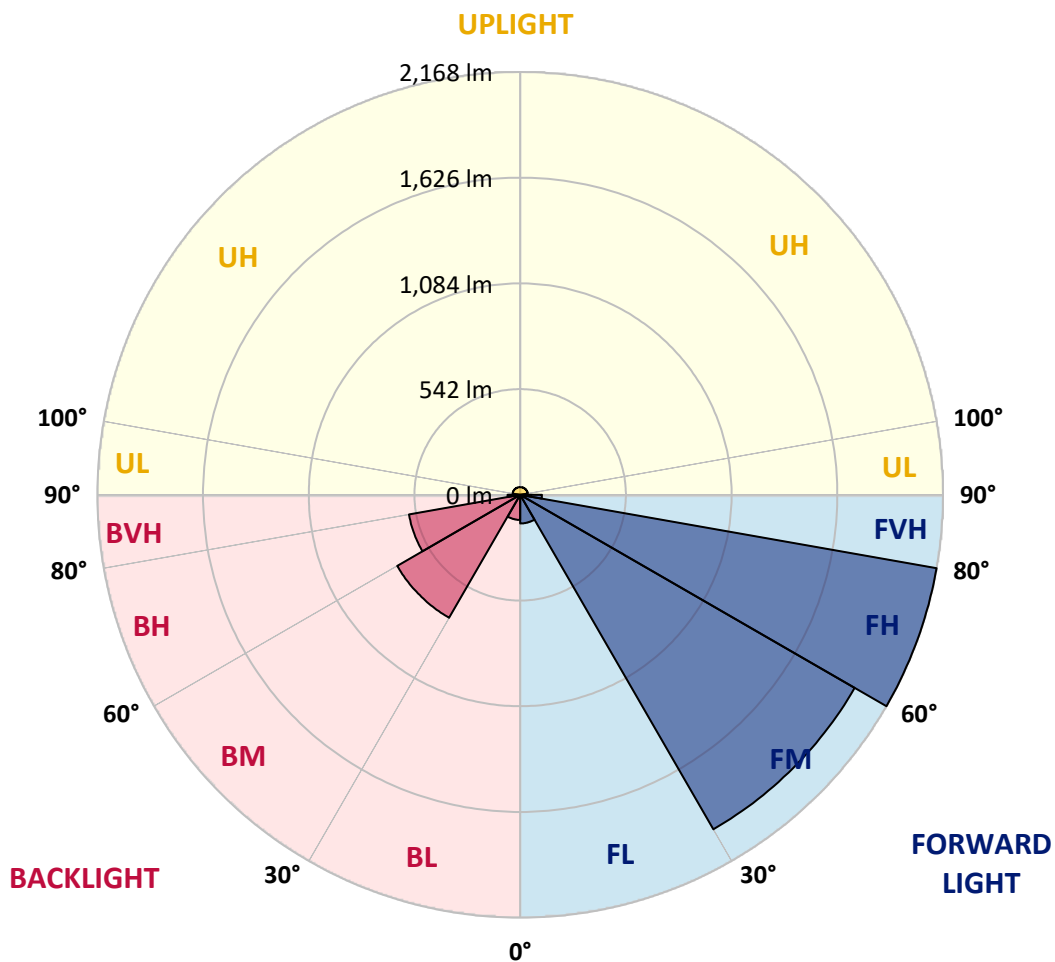
CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.9	2.5			
FM	(30°-60°)	1980.1	33.1			
FH	(60°-80°)	2167.8	36.2			G2/5000
FVH	(80°-90°)	111.8	1.9			G2/225
BL	(0°-30°)	128.7	2.2	B1/500		
BM	(30°-60°)	728.0	12.2	B1/1000		
BH	(60°-80°)	578.8	9.7	B2/1000		G2/1000
BVH	(80°-90°)	65.0	1.1			G1/100
UL	(90°-100°)	36.4	0.6		U2/50	
UH	(100°-180°)	39.7	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	30.1	30.1	30.1	27.0	23.4	19.0	16.9	14.6	14.0	14.0	14.0
5°	66.7	69.6	66.7	65.9	59.4	72.6	29.4	19.9	14.6	13.1	13.1
7.5°	94.5	95.9	77.7	71.9	57.9	79.1	63.7	35.9	18.3	14.6	14.0
10°	164.1	141.5	120.2	118.7	111.4	83.5	57.1	51.4	28.6	22.0	22.6
12.5°	159.0	163.4	160.4	155.3	142.9	119.5	76.1	98.2	107.6	126.8	119.5
15°	194.9	192.0	170.0	171.4	162.7	173.0	154.6	163.4	153.9	134.0	140.0
17.5°	301.9	291.6	305.6	234.5	171.4	210.3	213.9	191.2	204.5	211.0	234.5
20°	345.0	330.4	348.1	298.1	284.3	238.9	227.9	346.6	323.1	339.2	342.2
22.5°	477.0	468.9	418.4	341.4	363.5	304.7	325.2	359.7	367.0	363.5	375.1
25°	601.5	600.7	594.9	525.2	387.6	432.3	375.9	410.3	529.7	603.0	609.6
27.5°	712.1	706.2	664.6	644.8	542.9	488.0	448.4	568.5	606.6	641.7	649.8
30°	900.6	938.5	848.4	733.3	657.2	562.0	603.0	600.1	730.5	896.1	904.9
32.5°	1057.2	1036.0	942.2	845.6	767.8	694.6	635.2	838.2	874.1	919.5	940.0
35°	1288.8	1296.9	1197.9	943.0	879.3	778.1	830.8	910.1	934.9	1010.4	1016.3
37.5°	1346.6	1410.3	1352.5	1130.5	934.9	850.7	893.9	995.7	1077.7	1147.3	1103.4
40°	1601.7	1569.3	1445.6	1266.8	1049.8	952.6	1093.1	1153.2	1165.7	1246.9	1257.3
42.5°	1851.4	1865.4	1712.3	1485.2	1199.3	1107.2	1230.1	1214.1	1332.7	1403.2	1441.2
45°	2094.8	2101.3	1980.5	1693.2	1438.9	1365.0	1304.9	1373.8	1571.6	1588.5	1597.9
47.5°	2259.5	2260.3	2209.0	1920.3	1641.3	1474.2	1455.2	1529.2	1725.5	1755.5	1764.4
50°	2516.7	2510.1	2392.1	2072.0	1908.5	1690.3	1764.4	1736.5	1906.5	2014.9	2038.3
52.5°	2617.9	2585.0	2521.9	2292.6	2148.9	1932.9	1899.0	1949.6	2143.8	2242.0	2319.7
55°	2551.9	2609.0	2597.4	2432.5	2220.0	2146.1	2058.0	2247.9	2313.9	2464.7	2602.5
57.5°	2415.0	2513.1	2559.2	2497.6	2381.9	2214.1	2371.6	2343.0	2595.9	2881.7	2974.0
60°	2321.1	2381.9	2475.6	2550.5	2466.1	2404.7	2557.7	2707.2	2804.0	3082.4	3205.4
62.5°	2152.6	2210.5	2360.7	2469.1	2421.6	2442.0	2764.4	2842.7	3127.8	3360.1	3527.9
65°	1952.6	2006.9	2182.6	2296.2	2409.8	2490.5	2895.5	3047.2	3249.3	3684.7	3708.1
67°	1805.4	1836.9	1949.0	2167.3	2395.9	2552.7	3045.1	3159.2	3341.1	3825.3	3714.8
67.5°	1756.2	1787.0	1878.5	2105.0	2387.9	2562.1	3087.6	3192.2	3354.2	3810.7	3713.2
70°	1351.8	1461.0	1463.2	1679.3	2132.0	2491.9	3163.0	3305.9	3434.1	3705.1	3585.0
72.5°	809.6	809.6	847.0	1059.5	1511.5	2228.9	3163.0	3266.2	3376.9	3413.6	3211.4
75°	392.0	373.6	424.2	508.5	761.3	1503.5	2850.9	2993.7	3007.6	2908.1	2604.6
77.5°	323.1	280.6	266.6	260.9	408.1	562.7	1904.9	2337.2	2338.0	1995.0	1745.9
80°	202.2	204.5	210.3	181.0	233.6	291.0	759.7	1423.6	1293.9	1036.7	873.3
82.5°	142.9	148.0	150.1	134.0	163.4	136.3	252.8	600.7	523.2	361.2	306.2
85°	100.4	97.5	109.1	90.9	98.2	80.6	139.1	258.6	294.6	178.8	169.2
87.5°	60.0	60.0	73.3	61.5	67.5	57.9	84.3	126.8	146.6	101.1	94.5
90°	35.9	33.0	34.5	35.2	38.1	33.0	45.5	60.8	63.7	51.4	46.9
92.5°	27.0	27.0	29.4	27.8	34.5	30.1	39.5	47.6	57.9	43.9	41.1
95°	17.5	19.9	22.0	22.6	26.4	22.6	33.0	38.8	43.2	33.6	32.2
97.5°	16.1	17.5	19.0	19.0	22.0	18.3	27.0	34.5	34.5	26.4	24.2
100°	15.5	16.1	16.9	16.9	18.3	14.6	21.2	30.1	30.1	22.0	20.5
102.5°	14.0	14.6	14.0	13.1	15.5	11.7	17.5	26.4	21.2	16.9	17.5
105°	14.0	14.0	12.4	11.0	12.4	9.5	15.5	19.0	14.6	14.0	14.6
107.5°	13.1	13.1	10.3	9.5	10.3	8.1	12.4	13.1	11.7	13.1	14.0



REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	12.4	11.7	9.5	8.1	8.1	7.4	9.5	9.5	9.5	12.4	14.0
112.5°	11.0	10.3	8.1	6.6	6.6	5.8	6.6	7.4	8.9	11.7	13.1
115°	10.3	9.5	7.4	5.8	5.1	5.1	5.8	5.8	8.1	11.7	13.1
117.5°	10.3	9.5	6.6	5.8	4.4	4.4	5.1	5.8	8.1	11.7	13.1
120°	9.5	9.5	6.6	5.1	4.4	3.7	4.4	5.1	8.1	12.4	13.1
122.5°	9.5	8.9	6.6	5.1	3.7	3.7	3.7	4.4	7.4	11.7	12.4
125°	8.9	8.9	5.8	4.4	3.7	3.0	3.7	4.4	8.1	11.7	12.4
127.5°	8.9	8.1	5.8	4.4	3.0	3.0	3.7	3.7	7.4	11.0	11.7
130°	8.9	8.1	5.8	3.7	3.0	3.0	3.0	3.7	7.4	10.3	11.0
132.5°	7.4	7.4	5.1	3.7	3.0	2.2	3.0	3.0	5.8	8.9	9.5
135°	7.4	6.6	5.1	3.7	3.0	2.2	2.2	3.0	5.8	8.1	8.1
137.5°	6.6	5.8	5.1	3.7	2.2	2.2	1.4	2.2	5.1	6.6	7.4
140°	5.8	5.8	4.4	3.7	2.2	1.4	1.4	2.2	3.7	5.1	5.8
142.5°	5.8	5.8	5.1	3.7	2.2	1.4	1.4	1.4	3.0	4.4	4.4
145°	5.1	5.1	4.4	3.0	1.4	0.7	0.7	1.4	2.2	3.0	3.7
147.5°	5.1	5.1	4.4	3.0	1.4	0.7	0.7	1.4	2.2	3.0	3.0
150°	4.4	4.4	3.7	2.2	0.7	0.0	0.0	0.7	1.4	2.2	2.2
152.5°	3.0	3.0	2.2	1.4	0.0	0.0	0.0	0.7	1.4	1.4	1.4
155°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	14.0	14.0	14.0	14.0	14.0	14.0	13.1	13.1	13.1	13.1	13.1
5°	12.4	12.4	13.1	13.1	13.1	13.1	13.1	14.0	14.6	14.6	15.5
7.5°	14.0	14.0	13.1	13.1	14.0	15.5	25.0	52.7	99.6	92.3	91.5
10°	22.0	22.0	19.9	18.3	19.9	71.9	112.8	107.0	90.1	87.9	85.0
12.5°	139.1	129.6	104.7	65.9	95.9	90.9	105.6	123.8	161.2	169.2	163.4
15°	140.0	145.9	157.6	170.7	216.1	95.9	186.0	227.9	243.3	243.3	248.4
17.5°	243.3	262.2	201.5	181.6	215.5	263.7	208.0	231.6	229.3	230.1	223.5
20°	395.7	357.5	394.1	353.9	241.7	295.3	259.4	248.4	334.9	398.6	398.6
22.5°	392.0	415.5	410.3	406.7	425.6	262.2	331.1	359.7	372.9	356.1	381.7
25°	654.2	629.4	594.9	405.9	408.1	364.9	357.5	335.5	364.9	393.5	387.6
27.5°	684.2	690.2	625.0	604.5	428.0	410.3	337.0	390.6	425.6	428.0	424.2
30°	934.1	945.8	737.8	556.8	480.7	374.5	394.1	376.6	393.5	413.2	424.2
32.5°	988.3	970.8	814.8	627.1	471.2	396.4	362.6	376.6	440.3	440.3	436.7
35°	1052.9	1039.7	839.6	595.7	513.7	370.7	335.5	375.1	393.5	425.6	428.0
37.5°	1182.6	1175.3	921.8	594.1	457.1	350.2	369.3	378.7	384.7	392.0	385.5
40°	1268.2	1211.9	946.6	620.5	442.5	405.9	384.7	356.7	361.9	343.6	335.5
42.5°	1429.5	1334.9	970.8	603.0	431.5	447.6	357.5	352.4	340.0	321.0	321.0
45°	1593.6	1472.7	1003.0	567.1	416.2	434.5	368.6	360.5	349.5	346.6	340.0
47.5°	1760.6	1597.9	997.8	589.7	466.7	406.7	461.5	387.6	333.5	361.9	359.7
50°	2035.4	1801.6	1002.2	545.1	465.2	399.2	462.3	367.0	356.7	378.7	381.1
52.5°	2259.5	1940.1	1063.1	519.5	450.6	462.3	437.5	444.8	420.5	413.9	422.1
55°	2527.7	2117.5	1023.6	488.7	438.9	435.9	515.1	447.6	425.6	446.9	449.2
57.5°	2864.1	2364.3	1032.3	438.9	442.5	419.8	504.0	501.2	488.0	477.7	474.0
60°	3058.9	2443.5	950.2	468.1	428.6	463.0	534.9	519.5	450.0	522.5	534.1
62.5°	3212.1	2566.5	748.7	463.0	476.2	441.7	491.0	507.1	474.0	529.0	535.6
65°	3249.3	2560.0	573.7	475.6	471.2	491.0	581.1	498.2	413.9	422.1	425.6
67°	3198.1	2502.0	465.2	452.7	477.7	472.6	480.7	428.0	382.5	390.6	396.4
67.5°	3168.9	2455.2	441.1	451.3	493.8	471.8	471.2	411.8	373.6	383.9	386.1
70°	2896.2	2199.5	369.3	445.5	489.4	428.6	440.3	362.6	329.7	333.5	334.9
72.5°	2480.1	1765.0	352.4	443.3	480.7	357.5	338.5	296.7	280.6	275.5	268.1
75°	1903.5	1216.2	348.1	400.0	395.0	270.4	271.1	246.9	248.4	237.4	233.0
77.5°	1146.6	681.4	296.0	338.5	296.0	206.6	224.1	219.0	224.9	213.2	205.9
80°	549.6	332.6	233.6	249.1	208.9	162.0	191.2	199.2	200.7	184.0	175.9
82.5°	235.1	172.1	158.2	156.0	148.7	125.4	154.6	162.7	164.1	153.9	123.1
85°	138.5	117.1	109.1	104.7	103.3	77.7	110.6	131.2	131.2	108.4	93.9
87.5°	86.4	85.7	77.0	77.0	80.6	54.9	76.1	90.1	85.0	64.5	51.4
90°	41.1	43.9	46.2	46.9	54.9	30.8	49.0	52.0	49.0	35.2	25.0
92.5°	33.0	37.4	40.3	41.9	49.9	26.4	43.9	46.9	44.6	35.2	25.0
95°	27.0	33.6	40.3	39.5	41.9	20.5	38.8	42.5	41.1	30.8	21.2
97.5°	22.0	27.0	33.0	33.0	38.1	17.5	35.9	40.3	39.5	27.8	20.5
100°	19.9	24.2	29.4	28.6	33.6	14.0	32.2	35.2	34.5	22.6	18.3
102.5°	17.5	19.9	22.6	22.6	25.0	11.7	24.2	27.0	25.6	19.0	18.3
105°	16.1	16.9	16.1	15.5	16.1	10.3	15.5	17.5	15.5	14.6	14.6
107.5°	15.5	15.5	13.1	12.4	11.7	8.9	11.0	11.7	10.3	13.1	14.6



REPORT NUMBER: P266449

CATALOG NUMBER: UTLD-AF24-70-D-U-T3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.5	14.6	11.7	11.0	9.5	8.1	8.9	8.9	8.9	13.1	14.0
112.5°	14.6	14.6	11.0	9.5	8.9	7.4	7.4	6.6	8.1	13.1	14.6
115°	14.6	14.0	10.3	8.9	7.4	6.6	5.8	5.8	7.4	13.1	14.6
117.5°	14.6	14.0	10.3	8.1	7.4	5.8	5.1	5.1	7.4	13.1	14.6
120°	14.6	14.6	10.3	7.4	6.6	5.8	5.1	5.1	7.4	12.4	14.0
122.5°	14.0	14.0	9.5	7.4	5.8	5.1	4.4	4.4	7.4	12.4	13.1
125°	13.1	13.1	9.5	6.6	5.1	4.4	4.4	4.4	7.4	11.7	13.1
127.5°	12.4	12.4	8.9	5.8	4.4	4.4	3.7	3.7	7.4	11.7	12.4
130°	11.7	11.7	8.1	5.1	4.4	3.7	3.0	3.7	7.4	11.0	11.7
132.5°	10.3	10.3	7.4	4.4	3.7	3.0	3.0	3.0	6.6	10.3	11.0
135°	8.9	8.9	6.6	4.4	3.7	3.0	2.2	3.0	5.8	8.9	9.5
137.5°	8.1	8.1	5.8	3.7	3.0	2.2	2.2	3.0	5.8	8.1	8.9
140°	5.8	5.8	4.4	3.0	2.2	2.2	1.4	2.2	5.1	6.6	7.4
142.5°	4.4	4.4	3.7	3.0	2.2	1.4	1.4	2.2	4.4	5.8	5.8
145°	3.7	3.7	3.0	2.2	2.2	1.4	0.7	1.4	3.7	5.1	5.1
147.5°	3.0	3.0	3.0	2.2	1.4	0.7	0.7	0.7	2.2	3.7	3.7
150°	2.2	2.2	2.2	2.2	1.4	0.0	0.0	0.0	1.4	2.2	2.2
152.5°	1.4	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7
155°	0.7	1.4	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	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

(END OF REPORT)