

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: P240527

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240527
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-AF24-60-D-U-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5575.5 lumens
Efficiency: N/A
Efficacy: 87.1 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): 64
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



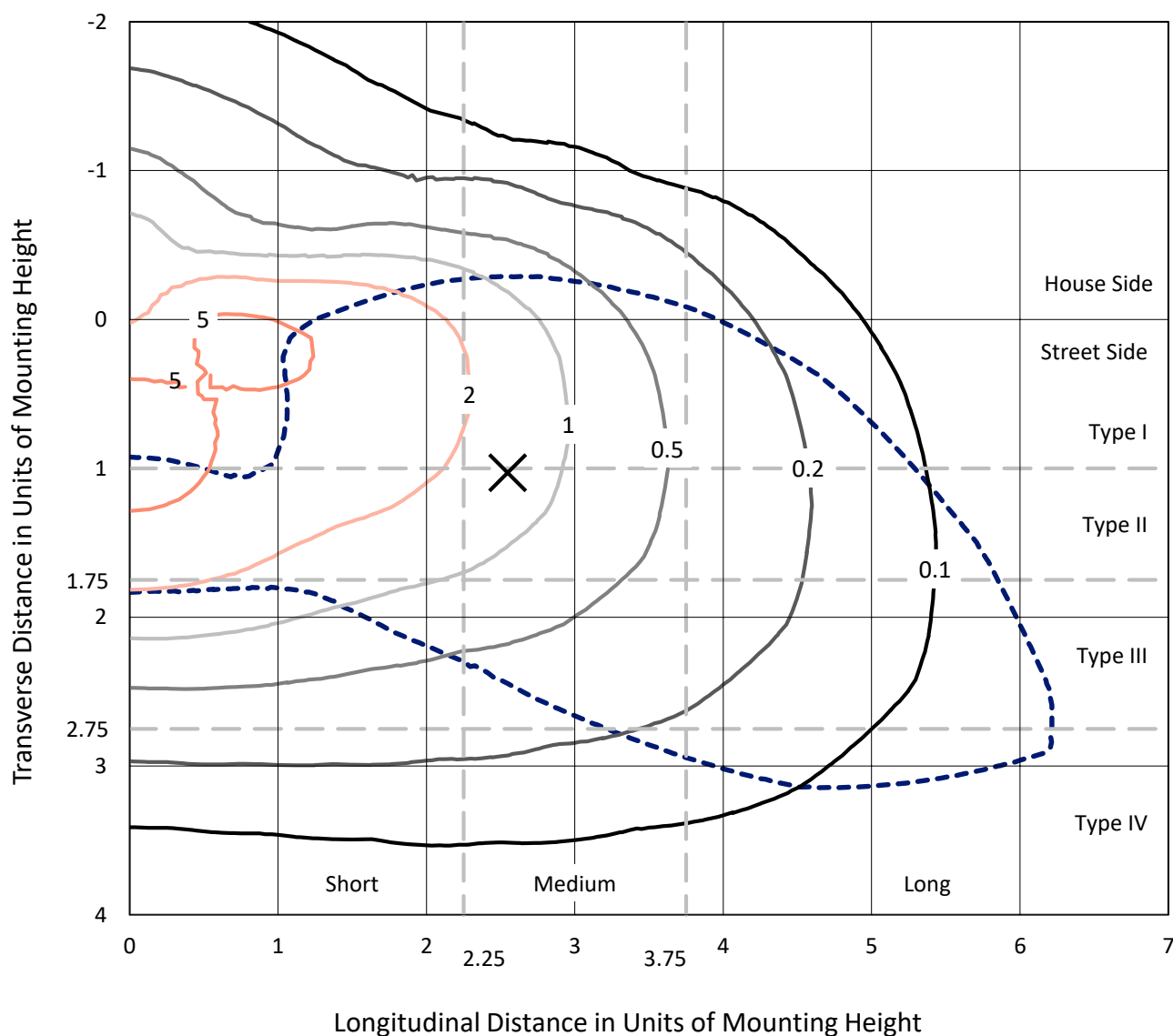
REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

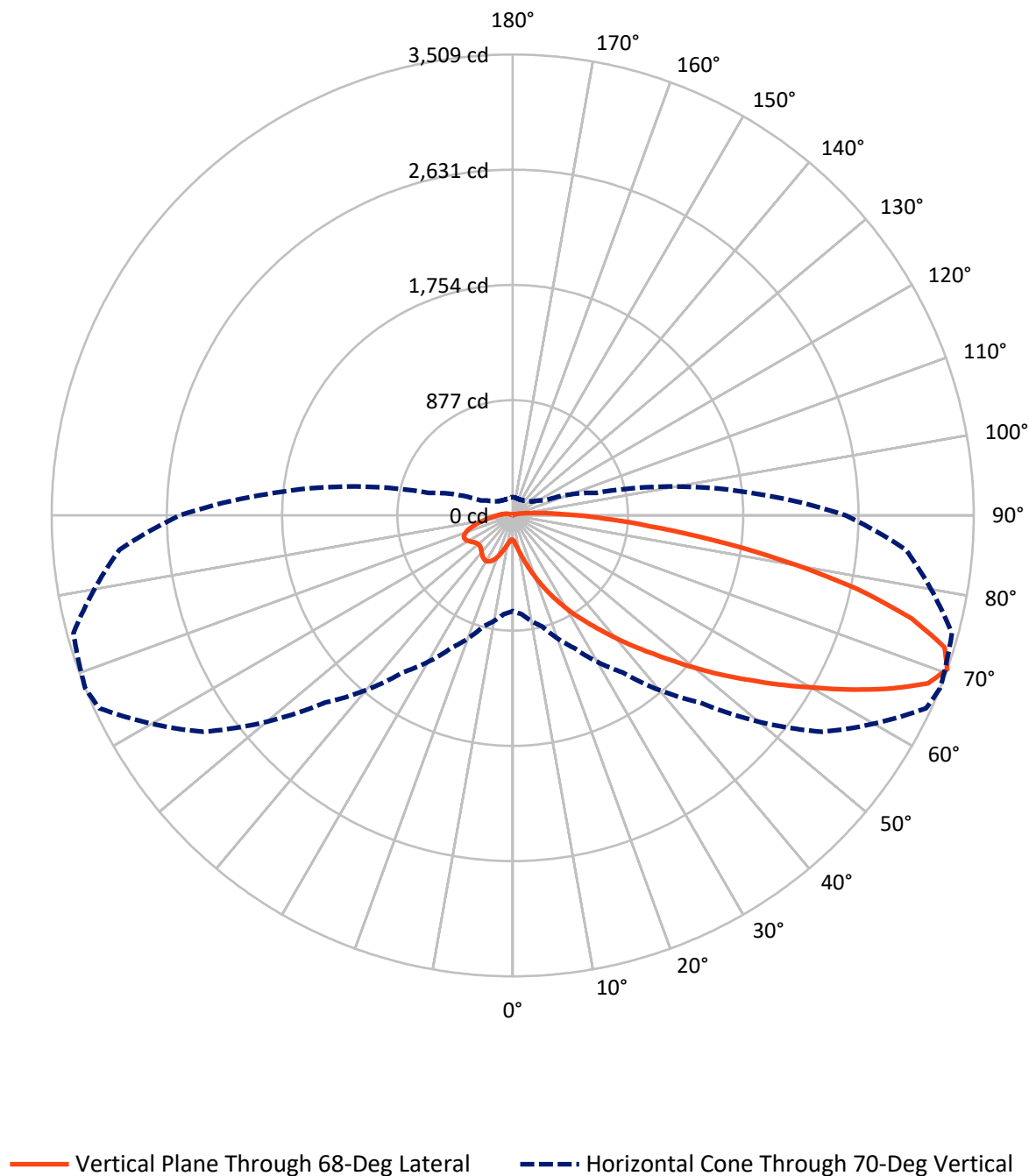


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

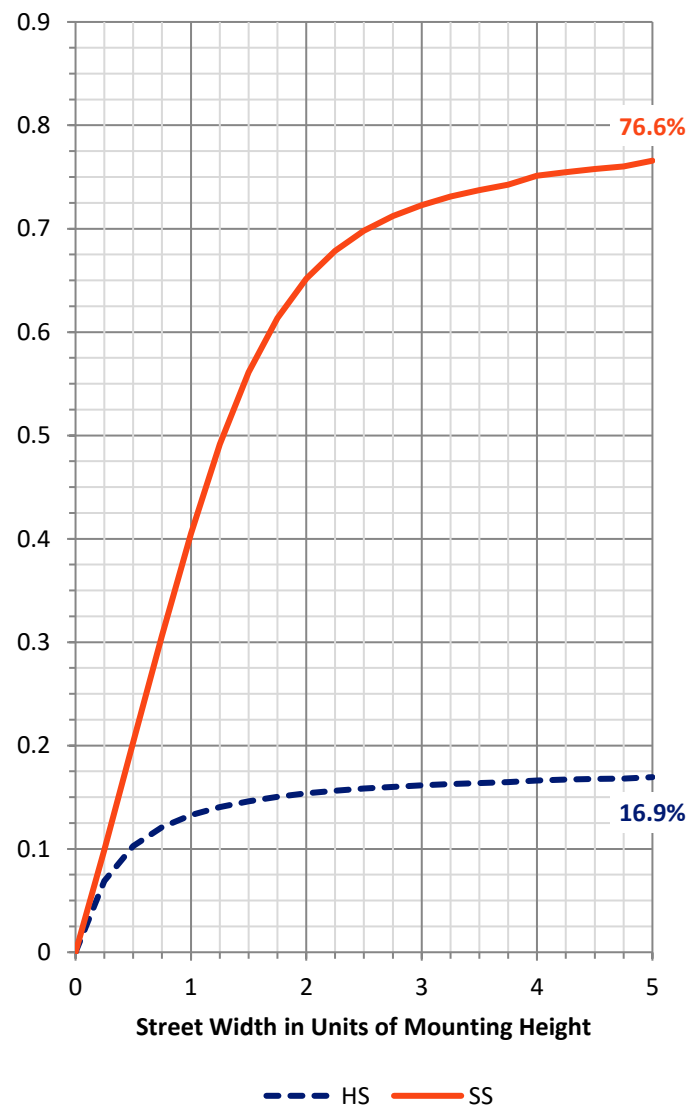
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.5	90.5	1076.0
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	4375.5	123.9	4499.4
	% Fixture	78.5	2.2	80.7
Total	Lumens	5361.0	214.4	5575.5
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	0.4
10°-20°	88.5	1.6
20°-30°	223.8	4.0
30°-40°	433.8	7.8
40°-50°	731.4	13.1
50°-60°	1093.5	19.6
60°-70°	1325.9	23.8
70°-80°	1034.5	18.6
80°-90°	409.3	7.3
90°-100°	125.4	2.2
100°-110°	49.3	0.9
110°-120°	21.8	0.4
120°-130°	10.7	0.2
130°-140°	5.3	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°	5361.0	96.2
0°-180°	5575.5	100.0

Coefficient of Utilization



REPORT NUMBER: P240527

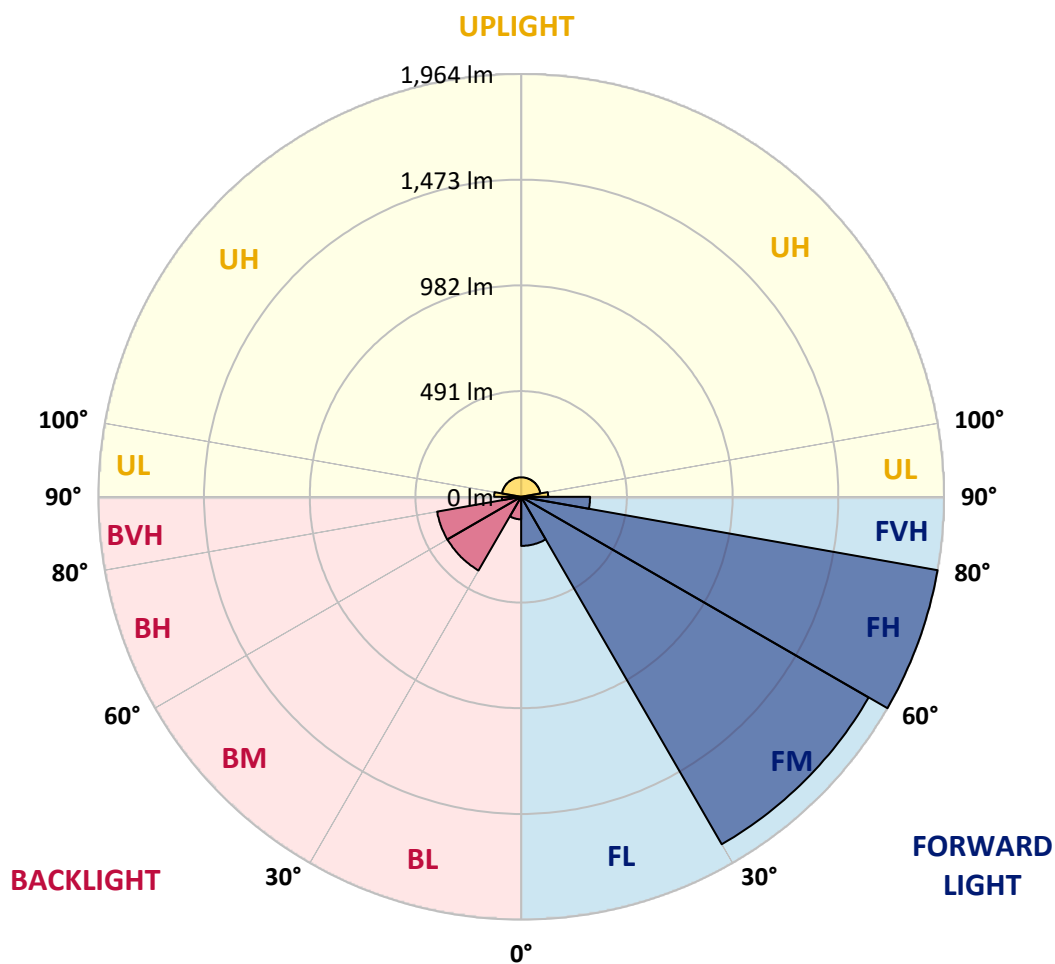
CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.0	4.1			
FM	(30°-60°)	1863.6	33.4			
FH	(60°-80°)	1964.0	35.2			G2/5000
FVH	(80°-90°)	319.9	5.7			G3/500
BL	(0°-30°)	104.7	1.9	B0/110		
BM	(30°-60°)	395.0	7.1	B1/1000		
BH	(60°-80°)	396.3	7.1	B1/500		G1/500
BVH	(80°-90°)	89.4	1.6			G1/100
UL	(90°-100°)	125.4	2.2		U3/500	
UH	(100°-180°)	90.5	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4
2.5°	208.4	209.2	209.2	207.0	206.3	204.1	200.5	199.0	197.5	196.1	193.2
5°	236.2	236.2	234.7	232.5	229.7	227.5	223.8	219.4	218.7	213.6	208.4
7.5°	267.5	268.2	269.0	265.3	260.9	257.3	252.9	247.2	245.7	240.6	231.1
10°	309.1	309.8	308.3	304.8	298.9	294.5	289.4	283.5	281.4	277.0	263.9
12.5°	359.4	358.6	354.2	349.2	342.6	337.5	330.9	326.5	325.1	320.7	306.9
15°	412.6	415.5	410.4	398.7	390.7	382.7	379.7	379.7	381.2	376.2	363.1
17.5°	481.1	483.3	474.5	458.5	445.3	436.6	433.8	439.6	441.7	443.9	432.2
20°	560.6	561.3	547.4	524.9	501.5	490.6	491.3	505.1	510.2	518.3	504.4
22.5°	657.5	651.6	631.9	597.0	563.4	546.0	552.6	580.2	584.6	601.4	594.1
25°	758.8	758.1	725.3	678.6	629.8	607.3	618.2	652.4	664.9	690.3	680.8
27.5°	875.5	872.6	830.3	772.7	706.4	672.8	682.4	731.2	745.7	788.8	778.5
30°	999.4	1000.2	950.5	870.4	788.0	741.4	747.2	815.0	833.8	883.5	880.5
32.5°	1147.3	1138.6	1083.2	978.2	877.0	813.6	821.5	900.3	926.5	985.5	976.8
35°	1296.1	1285.1	1211.4	1096.3	969.4	894.4	898.1	991.4	1019.1	1095.7	1078.8
37.5°	1433.2	1427.3	1353.6	1221.0	1073.0	984.1	988.5	1089.1	1124.1	1209.3	1189.0
40°	1580.3	1580.3	1505.3	1361.0	1188.2	1081.0	1087.5	1197.7	1240.0	1333.3	1299.0
42.5°	1736.3	1731.2	1651.8	1488.5	1302.6	1185.3	1198.3	1320.1	1367.5	1466.6	1431.7
45°	1890.1	1879.3	1796.9	1627.0	1417.1	1302.6	1322.2	1454.2	1503.9	1629.9	1581.1
47.5°	2022.8	2011.1	1930.3	1751.7	1537.4	1424.4	1452.0	1610.3	1662.7	1812.9	1738.6
50°	2117.6	2113.9	2035.2	1850.8	1644.5	1549.8	1608.1	1776.4	1839.2	1990.7	1920.8
52.5°	2172.9	2166.4	2103.8	1940.5	1751.7	1679.6	1768.5	1957.3	2023.6	2186.9	2105.2
55°	2160.6	2156.2	2111.8	1987.9	1835.4	1804.1	1946.2	2158.4	2220.3	2396.8	2299.8
57.5°	2063.0	2068.8	2055.6	1990.7	1897.4	1933.2	2128.5	2370.5	2436.2	2608.1	2504.7
60°	1888.6	1886.5	1923.7	1934.7	1922.2	2044.7	2348.6	2612.5	2662.8	2836.4	2704.3
62.5°	1631.4	1625.6	1706.4	1810.8	1904.0	2138.8	2547.0	2870.6	2920.8	3060.8	2888.9
65°	1315.7	1342.0	1443.4	1615.3	1813.6	2174.5	2739.3	3133.8	3175.3	3249.6	3033.9
67.5°	997.2	1022.6	1153.9	1371.9	1662.7	2132.8	2861.8	3369.9	3410.0	3429.6	3097.3
70°	728.2	753.1	877.0	1116.0	1457.8	2012.7	2871.4	3471.9	3508.5	3460.3	3004.0
72.5°	518.3	531.4	637.8	864.6	1224.6	1801.9	2751.8	3406.3	3436.2	3302.8	2757.6
75°	366.7	372.5	464.4	657.5	997.2	1563.6	2467.5	3112.6	3136.0	2968.2	2345.0
77.5°	249.9	263.1	336.1	501.5	799.7	1283.7	2091.3	2668.6	2668.6	2455.8	1855.1
80°	177.1	188.0	241.3	374.6	626.2	1028.5	1689.7	2120.5	2087.0	1845.7	1336.9
82.5°	127.7	136.3	178.6	285.7	486.2	812.8	1282.2	1570.2	1524.2	1288.0	883.5
85°	92.6	101.3	135.6	209.9	372.5	630.5	960.7	1090.5	1045.3	853.7	573.7
87.5°	67.7	73.6	101.3	158.2	282.1	477.5	704.9	740.6	700.6	551.8	368.1
90°	48.1	53.2	77.2	119.5	211.4	358.6	495.0	486.2	442.5	347.0	243.4
92.5°	35.0	38.7	57.6	91.1	157.5	263.1	340.5	314.2	289.4	223.1	169.2
95°	26.2	29.2	45.3	70.7	116.0	185.2	229.7	206.3	187.4	152.3	124.7
97.5°	21.1	23.3	37.1	56.9	89.7	134.8	158.9	136.3	127.7	110.1	96.2
100°	18.2	19.6	31.3	47.4	70.7	101.3	112.2	95.5	90.3	83.1	75.1
102.5°	16.7	17.5	27.8	40.9	57.6	75.8	81.0	71.4	67.7	63.4	59.0
105°	15.3	16.1	24.8	35.7	48.8	59.0	62.0	54.6	52.5	48.1	45.3
107.5°	14.5	14.5	21.9	31.3	41.5	48.8	48.8	43.0	40.9	36.5	35.0
110°	13.8	13.8	19.6	28.4	35.7	41.5	40.1	34.3	32.1	27.8	27.0



REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	13.1	13.1	18.2	24.8	31.3	35.0	33.6	27.8	25.5	21.1	21.1
115°	12.3	12.3	16.1	21.9	27.8	29.9	28.4	22.6	21.1	16.7	17.5
117.5°	12.3	12.3	15.3	19.6	24.0	26.2	24.0	18.2	16.7	13.8	15.3
120°	11.7	11.7	13.8	17.5	21.1	22.6	20.4	15.3	13.8	11.7	13.1
122.5°	11.7	11.7	13.1	15.3	18.9	19.6	17.5	13.1	11.7	10.2	11.7
125°	10.9	10.9	12.3	13.8	16.1	16.7	14.5	10.9	10.2	9.5	10.2
127.5°	10.9	10.9	11.7	12.3	14.5	14.5	12.3	8.7	8.7	7.9	9.5
130°	10.2	10.9	10.9	11.7	12.3	12.3	10.2	7.3	7.3	7.3	8.7
132.5°	10.2	10.2	10.2	10.2	10.9	10.2	7.9	6.5	6.5	6.5	7.9
135°	9.5	9.5	9.5	9.5	8.7	7.9	6.5	5.1	5.1	5.8	7.3
137.5°	9.5	9.5	8.7	7.9	7.9	6.5	5.1	4.4	4.4	5.8	6.5
140°	8.7	8.7	7.9	7.3	5.8	5.1	3.6	3.6	3.6	4.4	5.1
142.5°	7.3	7.3	7.3	5.8	4.4	2.9	2.1	2.1	2.9	3.6	4.4
145°	6.5	6.5	5.8	5.1	2.9	1.4	0.8	1.4	2.1	2.9	3.6
147.5°	5.1	5.1	4.4	3.6	1.4	0.8	0.0	0.8	1.4	1.4	2.1
150°	3.6	3.6	3.6	2.1	0.8	0.0	0.0	0.8	0.8	0.8	1.4
152.5°	2.9	2.9	2.1	1.4	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.4	1.4	1.4	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: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4	187.4
2.5°	190.9	190.2	186.7	183.7	180.1	177.1	174.3	172.1	171.3	169.9	170.6
5°	204.1	201.1	193.9	187.4	180.1	173.5	167.6	163.3	159.6	158.2	157.5
7.5°	226.7	222.4	209.2	197.5	185.8	174.3	164.8	157.5	153.1	150.1	150.1
10°	259.5	249.9	233.3	213.6	193.9	177.1	164.0	153.8	147.3	145.1	145.1
12.5°	299.6	289.4	263.1	233.3	205.5	182.3	164.8	153.8	147.3	144.3	143.5
15°	352.8	337.5	298.9	256.5	216.5	186.7	165.4	154.5	150.1	148.7	148.7
17.5°	415.5	396.5	340.5	282.1	228.9	188.8	167.6	158.9	156.7	156.7	156.7
20°	489.8	462.1	387.1	304.8	237.6	190.9	169.2	162.6	162.6	164.0	164.8
22.5°	569.4	534.3	432.2	325.8	240.6	192.4	168.4	164.0	167.6	171.3	172.1
25°	653.9	605.1	473.1	338.9	242.0	188.8	166.2	164.8	172.1	177.1	178.6
27.5°	743.5	677.2	508.0	344.0	237.6	182.3	162.6	163.3	174.3	181.5	183.0
30°	825.9	744.9	535.8	342.6	228.2	174.3	158.2	161.0	174.3	184.4	186.7
32.5°	911.2	812.1	552.6	336.1	216.5	165.4	153.1	158.9	173.5	185.2	187.4
35°	996.5	871.2	560.6	323.0	203.3	157.5	147.9	155.2	171.3	184.4	185.8
37.5°	1081.7	929.4	562.8	306.2	191.7	150.9	144.3	153.1	167.6	183.0	185.2
40°	1173.6	986.9	558.5	289.4	180.9	146.5	141.4	150.1	164.8	180.9	183.7
42.5°	1276.3	1048.3	553.3	272.6	173.5	143.5	139.2	147.3	160.4	178.6	182.3
45°	1390.9	1115.3	550.3	259.5	169.2	142.1	138.5	145.1	158.2	177.1	180.9
47.5°	1514.0	1199.8	553.3	250.7	166.9	142.9	138.5	143.5	155.2	174.3	178.6
50°	1664.1	1296.8	564.3	244.2	166.2	143.5	139.2	142.1	152.3	169.9	174.3
52.5°	1819.5	1395.9	581.7	242.8	166.9	145.1	140.0	141.4	147.9	164.0	167.6
55°	1980.6	1527.1	611.7	245.0	168.4	147.3	140.7	140.0	144.3	156.7	161.0
57.5°	2162.8	1663.5	648.8	249.9	170.6	148.7	141.4	138.5	140.0	150.1	153.8
60°	2343.6	1801.9	686.7	256.5	175.0	150.9	142.1	137.7	137.7	145.8	148.7
62.5°	2507.6	1923.7	718.1	265.3	178.6	152.3	142.1	136.3	135.6	142.1	145.1
65°	2619.8	1987.9	725.3	270.4	182.3	153.1	140.7	134.8	134.2	139.2	142.1
67.5°	2649.7	1977.6	710.7	272.6	184.4	153.1	140.7	133.4	134.2	138.5	140.7
70°	2533.0	1871.9	662.6	268.2	183.7	152.3	139.2	131.9	133.4	137.7	139.2
72.5°	2254.7	1653.2	588.3	257.3	180.1	149.4	136.3	129.8	131.9	137.0	138.5
75°	1892.4	1369.7	500.1	239.9	173.5	145.8	133.4	126.8	130.4	135.6	136.3
77.5°	1455.7	1049.7	408.9	217.2	164.8	140.7	129.0	122.5	127.7	133.4	132.6
80°	1033.6	765.4	323.0	193.9	153.1	133.4	123.3	117.4	123.3	129.0	127.7
82.5°	712.2	519.0	258.1	171.3	140.7	125.4	116.6	111.6	118.1	123.3	121.1
85°	466.5	350.6	203.3	150.1	129.0	117.4	109.4	104.3	110.8	115.2	112.2
87.5°	301.0	244.2	162.6	130.4	116.6	108.6	101.3	96.9	103.5	107.2	104.3
90°	209.2	177.9	134.2	113.0	105.0	99.1	93.3	88.9	94.7	97.7	96.2
92.5°	149.4	136.3	111.6	99.1	94.7	89.7	84.5	81.0	86.8	88.9	87.5
95°	116.6	108.6	94.7	87.5	85.3	81.6	76.6	72.8	77.2	78.7	78.0
97.5°	93.3	89.7	81.6	77.2	75.8	72.8	69.3	65.5	68.5	69.3	68.5
100°	75.1	73.6	69.9	67.7	67.0	64.9	61.1	58.4	59.8	59.0	59.0
102.5°	59.8	59.8	59.0	58.4	58.4	56.2	53.2	50.3	50.3	48.8	48.8
105°	47.4	48.8	48.8	49.6	50.3	48.8	45.9	42.3	41.5	39.4	39.4
107.5°	37.1	38.7	40.9	41.5	42.3	40.9	38.7	35.0	32.8	30.6	31.3
110°	29.2	30.6	33.6	35.0	35.7	35.0	32.1	29.2	25.5	24.0	24.8



REPORT NUMBER: P240527

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	22.6	24.8	27.8	29.2	29.9	29.2	26.2	23.3	19.6	18.9	18.9
115°	18.9	20.4	23.3	24.8	24.8	24.0	21.9	18.2	15.3	14.5	15.3
117.5°	16.1	17.5	19.6	21.1	21.1	20.4	18.2	14.5	12.3	12.3	12.3
120°	13.8	15.3	16.7	18.2	18.2	17.5	15.3	11.7	10.2	10.2	10.2
122.5°	12.3	13.1	14.5	15.3	15.3	14.5	12.3	9.5	7.9	8.7	8.7
125°	10.9	11.7	13.1	13.8	13.1	12.3	10.2	7.3	6.5	7.3	7.3
127.5°	10.2	10.9	11.7	11.7	11.7	10.2	8.7	5.8	5.8	6.5	6.5
130°	9.5	9.5	10.2	10.2	9.5	8.7	6.5	4.4	4.4	5.8	5.8
132.5°	8.7	8.7	9.5	8.7	8.7	7.3	5.1	3.6	4.4	5.1	5.1
135°	7.3	7.3	7.9	7.9	6.5	5.8	3.6	2.9	2.9	3.6	4.4
137.5°	6.5	7.3	7.3	6.5	5.8	4.4	2.9	2.1	2.9	2.9	3.6
140°	5.8	5.8	5.8	5.1	4.4	2.9	1.4	1.4	2.1	2.1	2.1
142.5°	4.4	5.1	5.1	4.4	2.9	1.4	0.8	0.8	1.4	1.4	1.4
145°	3.6	3.6	3.6	2.9	2.1	1.4	0.8	0.8	0.8	0.8	0.8
147.5°	2.1	2.9	2.9	2.1	1.4	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.4	1.4	2.1	1.4	1.4	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.4	1.4	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	1.4	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)