

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: P240540

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240540
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-AF24-100-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 7824.5 lumens
Efficiency: N/A
Efficacy: 81.5 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: B2 - U3 - G3

Input Watts (W): 96
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



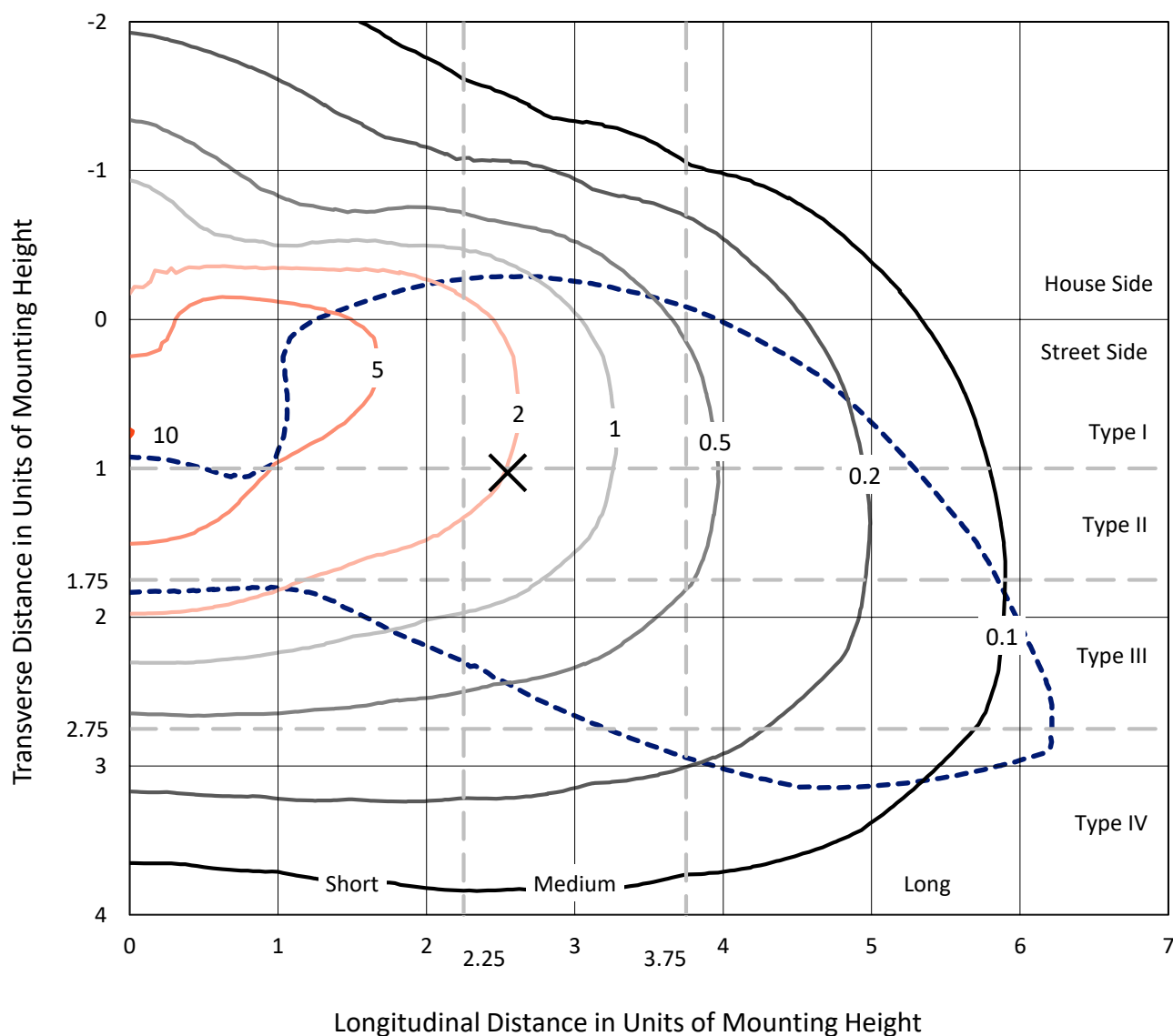
REPORT NUMBER: P240540

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

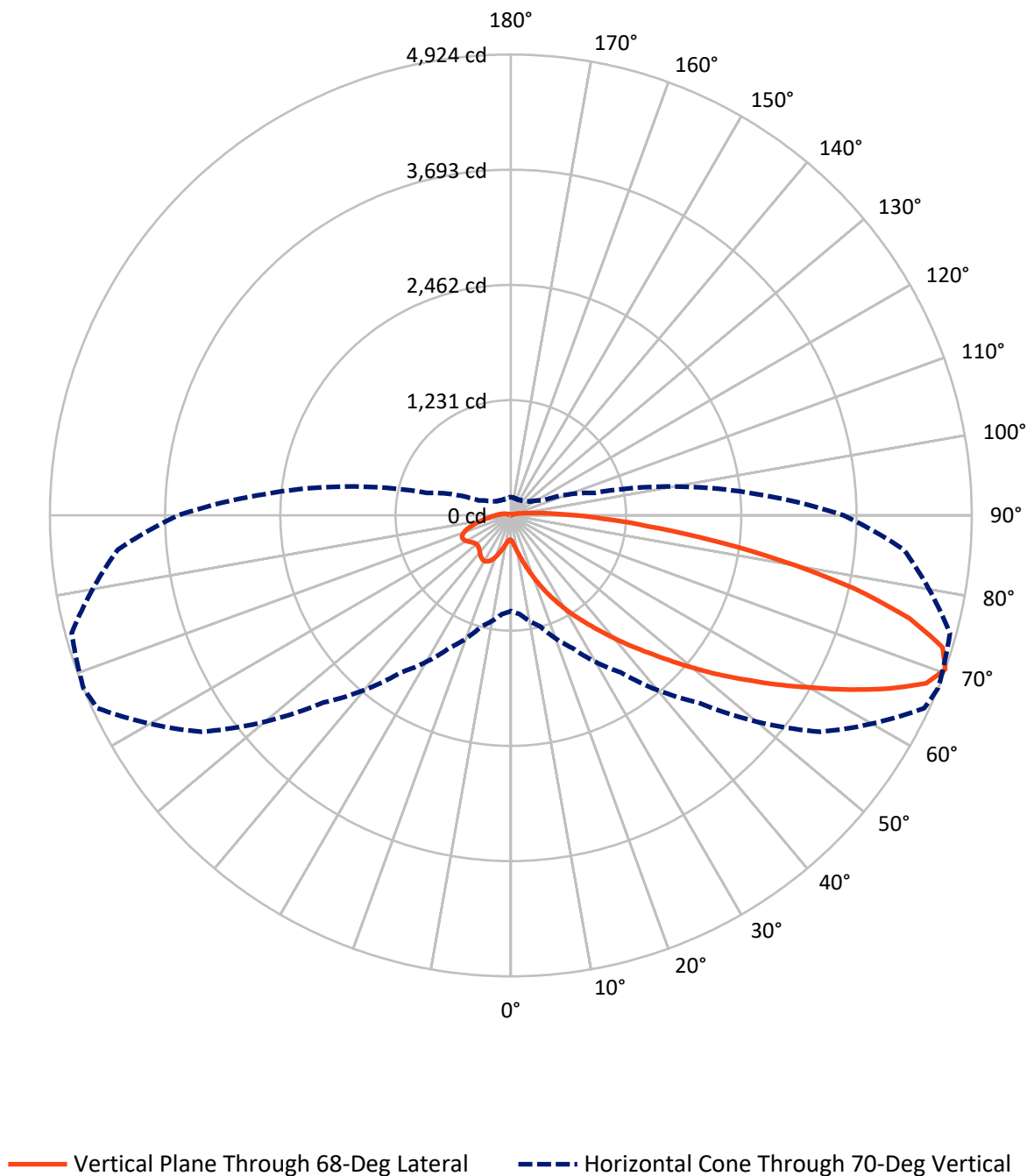


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P240540

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240540

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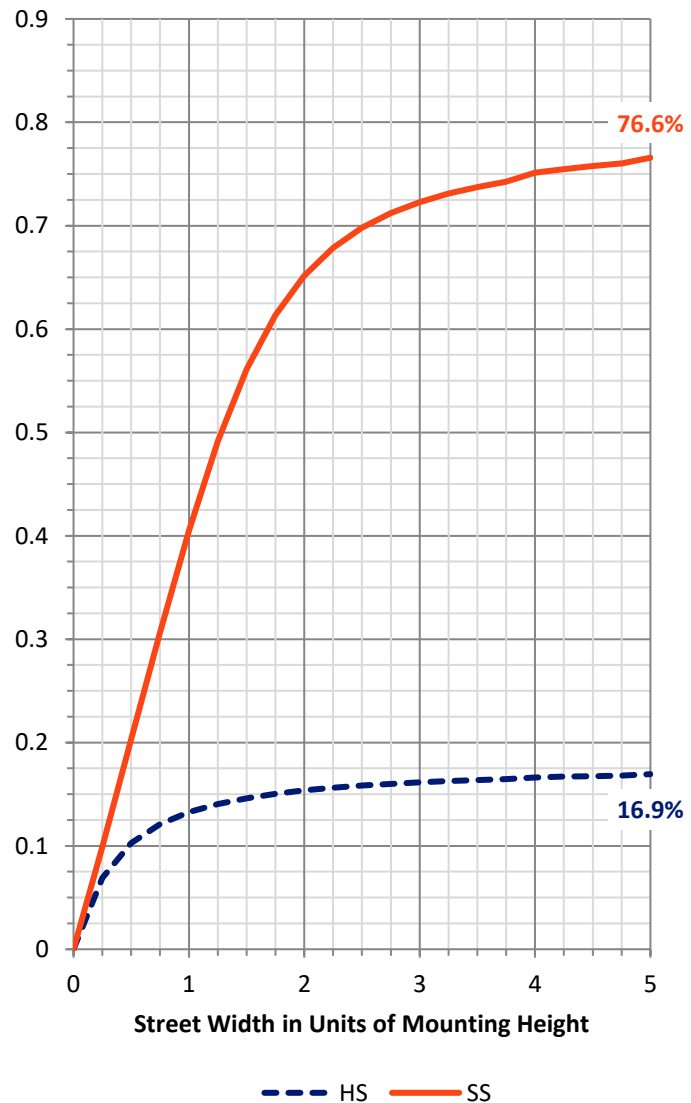
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.0	127.1	1510.1
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	6140.4	174.0	6314.4
	% Fixture	78.5	2.2	80.7
Total	Lumens	7523.5	301.0	7824.5
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.4
10°-20°	124.2	1.6
20°-30°	314.1	4.0
30°-40°	608.7	7.8
40°-50°	1026.4	13.1
50°-60°	1534.6	19.6
60°-70°	1860.7	23.8
70°-80°	1451.8	18.6
80°-90°	574.4	7.3
90°-100°	175.9	2.2
100°-110°	69.1	0.9
110°-120°	30.6	0.4
120°-130°	15.1	0.2
130°-140°	7.4	0.1
140°-150°	2.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7523.5	96.2
0°-180°	7824.5	100.0

Coefficient of Utilization



REPORT NUMBER: P240540

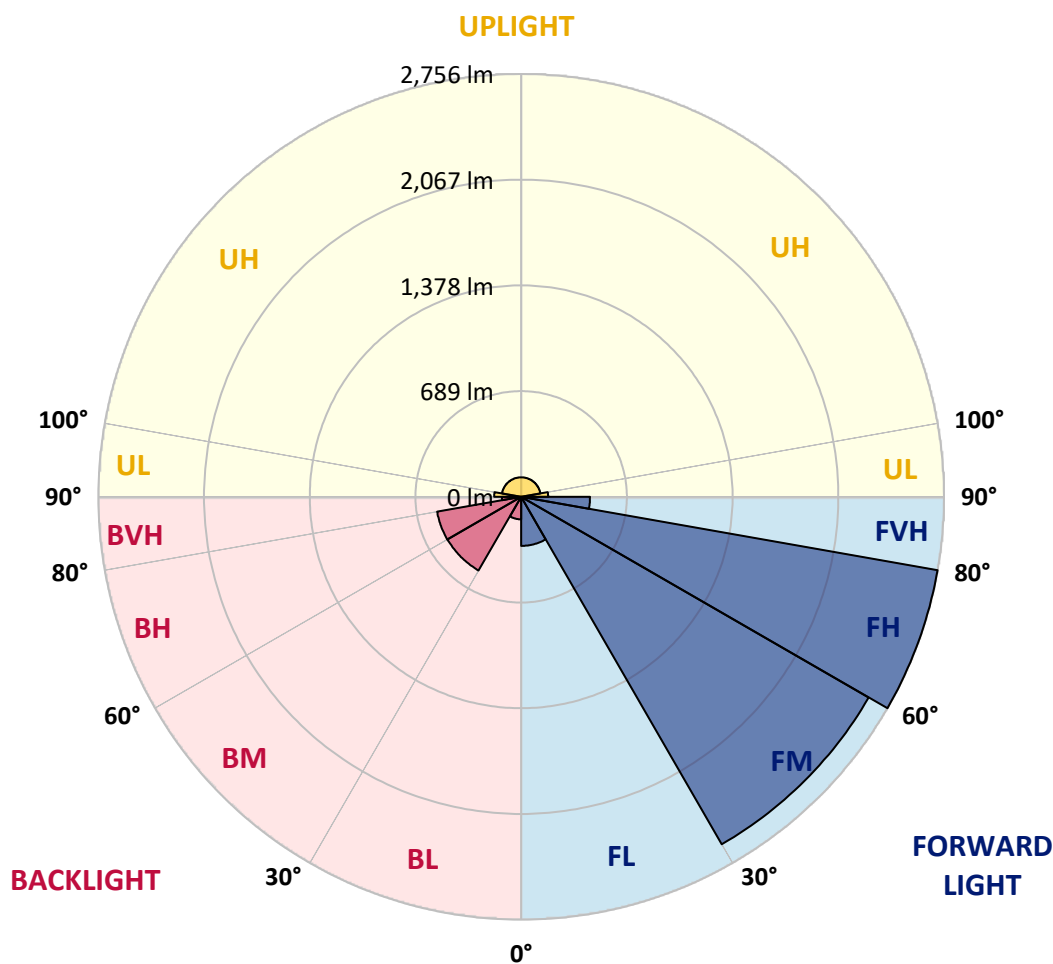
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.9	4.1			
FM	(30°-60°)	2615.3	33.4			
FH	(60°-80°)	2756.3	35.2			G2/5000
FVH	(80°-90°)	449.0	5.7			G3/500
BL	(0°-30°)	147.0	1.9	B1/500		
BM	(30°-60°)	554.4	7.1	B1/1000		
BH	(60°-80°)	556.2	7.1	B2/1000		G2/1000
BVH	(80°-90°)	125.4	1.6			G2/225
UL	(90°-100°)	175.9	2.2		U3/500	
UH	(100°-180°)	127.1	1.6		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





REPORT NUMBER: P240540

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9
2.5°	292.6	293.6	293.6	290.5	289.5	286.4	281.3	279.3	277.2	275.2	271.1
5°	331.4	331.4	329.4	326.3	322.2	319.2	314.0	307.9	306.9	299.7	292.6
7.5°	375.4	376.4	377.5	372.4	366.2	361.1	355.0	346.8	344.7	337.6	324.3
10°	433.7	434.8	432.7	427.6	419.4	413.3	406.1	397.9	394.9	388.7	370.3
12.5°	504.3	503.3	497.2	490.0	480.8	473.6	464.4	458.3	456.2	450.1	430.7
15°	579.0	583.1	575.9	559.6	548.3	537.0	533.0	533.0	535.0	527.8	509.4
17.5°	675.1	678.2	665.9	643.4	625.0	612.7	608.7	616.8	619.9	623.0	606.6
20°	786.6	787.7	768.2	736.5	703.8	688.4	689.5	708.9	716.1	727.3	707.9
22.5°	922.7	914.5	886.9	837.8	790.7	766.2	775.4	814.3	820.4	843.9	833.7
25°	1064.9	1063.9	1017.8	952.4	883.8	852.1	867.5	915.5	932.9	968.7	955.4
27.5°	1228.6	1224.5	1165.1	1084.3	991.2	944.2	957.5	1026.0	1046.5	1106.8	1092.5
30°	1402.5	1403.5	1333.9	1221.4	1105.8	1040.3	1048.5	1143.7	1170.3	1239.8	1235.7
32.5°	1610.2	1598.0	1520.2	1372.8	1230.6	1141.6	1152.9	1263.3	1300.2	1383.0	1370.8
35°	1818.9	1803.6	1700.2	1538.6	1360.5	1255.2	1260.3	1391.2	1430.2	1537.6	1514.1
37.5°	2011.2	2003.0	1899.7	1713.5	1505.9	1381.0	1387.1	1528.4	1577.5	1697.2	1668.5
40°	2217.9	2217.9	2112.5	1910.0	1667.5	1517.1	1526.3	1680.8	1740.1	1871.1	1823.0
42.5°	2436.8	2429.6	2318.1	2089.0	1828.1	1663.4	1681.8	1852.7	1919.2	2058.3	2009.2
45°	2652.6	2637.3	2521.7	2283.3	1988.7	1828.1	1855.7	2040.9	2110.4	2287.4	2218.9
47.5°	2838.8	2822.4	2708.9	2458.3	2157.5	1998.9	2037.8	2259.8	2333.5	2544.2	2439.8
50°	2971.8	2966.7	2856.2	2597.4	2307.9	2174.9	2256.7	2493.0	2581.0	2793.8	2695.6
52.5°	3049.5	3040.3	2952.3	2723.2	2458.3	2357.0	2481.8	2746.7	2839.8	3069.0	2954.4
55°	3032.1	3026.0	2963.6	2789.7	2575.9	2531.9	2731.4	3029.1	3116.0	3363.6	3227.5
57.5°	2895.1	2903.2	2884.8	2793.8	2662.8	2713.0	2987.1	3326.7	3418.8	3660.2	3515.0
60°	2650.6	2647.5	2699.7	2715.0	2697.6	2869.5	3296.0	3666.4	3736.9	3980.4	3795.2
62.5°	2289.5	2281.3	2394.8	2541.1	2672.0	3001.4	3574.3	4028.5	4099.1	4295.6	4054.1
65°	1846.5	1883.4	2025.5	2267.0	2545.2	3051.6	3844.4	4397.9	4456.2	4560.5	4257.6
67.5°	1399.4	1435.3	1619.4	1925.3	2333.5	2993.3	4016.2	4729.3	4785.6	4813.2	4346.7
70°	1021.9	1056.7	1230.6	1566.2	2046.0	2824.5	4029.5	4872.5	4923.7	4856.2	4215.7
72.5°	727.3	745.7	895.1	1213.2	1718.7	2528.8	3861.7	4780.5	4822.4	4635.2	3869.9
75°	514.5	522.7	651.6	922.7	1399.4	2194.3	3462.8	4368.2	4400.9	4165.6	3290.9
77.5°	350.9	369.3	471.6	703.8	1122.2	1801.5	2934.9	3745.1	3745.1	3446.4	2603.5
80°	248.6	263.9	338.6	525.8	878.7	1443.5	2371.3	2975.9	2928.8	2590.2	1876.2
82.5°	179.0	191.3	250.6	401.0	682.3	1140.6	1799.5	2203.5	2139.1	1807.7	1239.8
85°	129.9	142.2	190.3	294.6	522.7	884.9	1348.2	1530.4	1467.0	1197.9	805.1
87.5°	95.1	103.3	142.2	222.0	395.9	670.0	989.2	1039.3	983.1	774.4	516.6
90°	67.5	74.7	108.4	167.8	296.7	503.3	694.6	682.3	620.9	486.9	341.7
92.5°	49.1	54.2	80.8	127.9	221.0	369.3	477.7	440.9	406.1	313.0	237.3
95°	36.8	40.9	63.4	99.2	162.6	259.8	322.2	289.5	262.9	213.8	174.9
97.5°	29.7	32.7	52.2	79.8	125.8	189.2	223.0	191.3	179.0	154.5	135.0
100°	25.6	27.6	44.0	66.5	99.2	142.2	157.5	134.0	126.8	116.6	105.4
102.5°	23.5	24.6	38.9	57.3	80.8	106.4	113.5	100.2	95.1	89.0	82.9
105°	21.5	22.5	34.8	50.1	68.5	82.9	87.0	76.7	73.7	67.5	63.4
107.5°	20.5	20.5	30.7	44.0	58.3	68.5	68.5	60.4	57.3	51.1	49.1
110°	19.4	19.4	27.6	39.9	50.1	58.3	56.3	48.1	45.0	38.9	37.8



REPORT NUMBER: P240540

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	18.4	18.4	25.6	34.8	44.0	49.1	47.1	38.9	35.8	29.7	29.7
115°	17.4	17.4	22.5	30.7	38.9	41.9	39.9	31.7	29.7	23.5	24.6
117.5°	17.4	17.4	21.5	27.6	33.8	36.8	33.8	25.6	23.5	19.4	21.5
120°	16.4	16.4	19.4	24.6	29.7	31.7	28.6	21.5	19.4	16.4	18.4
122.5°	16.4	16.4	18.4	21.5	26.6	27.6	24.6	18.4	16.4	14.3	16.4
125°	15.3	15.3	17.4	19.4	22.5	23.5	20.5	15.3	14.3	13.3	14.3
127.5°	15.3	15.3	16.4	17.4	20.5	20.5	17.4	12.3	12.3	11.3	13.3
130°	14.3	15.3	15.3	16.4	17.4	17.4	14.3	10.2	10.2	10.2	12.3
132.5°	14.3	14.3	14.3	14.3	15.3	14.3	11.3	9.2	9.2	9.2	11.3
135°	13.3	13.3	13.3	13.3	12.3	11.3	9.2	7.2	7.2	8.2	10.2
137.5°	13.3	13.3	12.3	11.3	11.3	9.2	7.2	6.1	6.1	8.2	9.2
140°	12.3	12.3	11.3	10.2	8.2	7.2	5.1	5.1	5.1	6.1	7.2
142.5°	10.2	10.2	10.2	8.2	6.1	4.1	3.1	3.1	4.1	5.1	6.1
145°	9.2	9.2	8.2	7.2	4.1	2.0	1.0	2.0	3.1	4.1	5.1
147.5°	7.2	7.2	6.1	5.1	2.0	1.0	0.0	1.0	2.0	2.0	3.1
150°	5.1	5.1	5.1	3.1	1.0	0.0	0.0	1.0	1.0	1.0	2.0
152.5°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	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: P240540

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9	262.9
2.5°	268.0	267.0	261.9	257.8	252.7	248.6	244.5	241.4	240.4	238.3	239.4
5°	286.4	282.3	272.1	262.9	252.7	243.5	235.3	229.1	224.0	222.0	221.0
7.5°	318.1	312.0	293.6	277.2	260.9	244.5	231.2	221.0	214.8	210.7	210.7
10°	364.2	350.9	327.3	299.7	272.1	248.6	230.2	215.8	206.6	203.6	203.6
12.5°	420.4	406.1	369.3	327.3	288.5	255.7	231.2	215.8	206.6	202.5	201.5
15°	495.1	473.6	419.4	360.1	303.8	261.9	232.2	216.9	210.7	208.7	208.7
17.5°	583.1	556.5	477.7	395.9	321.2	264.9	235.3	223.0	219.9	219.9	219.9
20°	687.4	648.6	543.2	427.6	333.5	268.0	237.3	228.1	228.1	230.2	231.2
22.5°	798.9	749.8	606.6	457.3	337.6	270.1	236.3	230.2	235.3	240.4	241.4
25°	917.6	849.0	663.9	475.7	339.6	264.9	233.2	231.2	241.4	248.6	250.6
27.5°	1043.4	950.3	713.0	482.8	333.5	255.7	228.1	229.1	244.5	254.7	256.8
30°	1159.0	1045.5	751.9	480.8	320.2	244.5	222.0	226.1	244.5	258.8	261.9
32.5°	1278.7	1139.6	775.4	471.6	303.8	232.2	214.8	223.0	243.5	259.8	262.9
35°	1398.4	1222.4	786.6	453.2	285.4	221.0	207.7	217.9	240.4	258.8	260.9
37.5°	1518.2	1304.3	789.7	429.6	269.0	211.8	202.5	214.8	235.3	256.8	259.8
40°	1647.1	1385.1	783.6	406.1	253.7	205.6	198.5	210.7	231.2	253.7	257.8
42.5°	1791.3	1471.1	776.4	382.6	243.5	201.5	195.4	206.6	225.0	250.6	255.7
45°	1951.9	1565.2	772.3	364.2	237.3	199.5	194.4	203.6	222.0	248.6	253.7
47.5°	2124.8	1683.9	776.4	351.9	234.3	200.5	194.4	201.5	217.9	244.5	250.6
50°	2335.5	1819.9	791.8	342.7	233.2	201.5	195.4	199.5	213.8	238.3	244.5
52.5°	2553.4	1959.1	816.3	340.6	234.3	203.6	196.4	198.5	207.7	230.2	235.3
55°	2779.5	2143.2	858.3	343.7	236.3	206.6	197.4	196.4	202.5	219.9	226.1
57.5°	3035.2	2334.5	910.4	350.9	239.4	208.7	198.5	194.4	196.4	210.7	215.8
60°	3288.9	2528.8	963.6	360.1	245.5	211.8	199.5	193.3	193.3	204.6	208.7
62.5°	3519.1	2699.7	1007.6	372.4	250.6	213.8	199.5	191.3	190.3	199.5	203.6
65°	3676.6	2789.7	1017.8	379.5	255.7	214.8	197.4	189.2	188.2	195.4	199.5
67.5°	3718.5	2775.4	997.4	382.6	258.8	214.8	197.4	187.2	188.2	194.4	197.4
70°	3554.9	2627.0	929.9	376.4	257.8	213.8	195.4	185.2	187.2	193.3	195.4
72.5°	3164.1	2320.2	825.5	361.1	252.7	209.7	191.3	182.1	185.2	192.3	194.4
75°	2655.7	1922.2	701.7	336.6	243.5	204.6	187.2	178.0	183.1	190.3	191.3
77.5°	2042.9	1473.2	573.9	304.8	231.2	197.4	181.1	171.9	179.0	187.2	186.2
80°	1450.6	1074.1	453.2	272.1	214.8	187.2	172.9	164.7	172.9	181.1	179.0
82.5°	999.4	728.3	362.1	240.4	197.4	175.9	163.7	156.5	165.7	172.9	169.8
85°	654.7	492.0	285.4	210.7	181.1	164.7	153.4	146.3	155.5	161.6	157.5
87.5°	422.5	342.7	228.1	183.1	163.7	152.4	142.2	136.1	145.3	150.4	146.3
90°	293.6	249.6	188.2	158.6	147.3	139.1	130.9	124.8	133.0	137.1	135.0
92.5°	209.7	191.3	156.5	139.1	133.0	125.8	118.7	113.5	121.7	124.8	122.8
95°	163.7	152.4	133.0	122.8	119.7	114.6	107.4	102.3	108.4	110.5	109.5
97.5°	130.9	125.8	114.6	108.4	106.4	102.3	97.2	92.1	96.2	97.2	96.2
100°	105.4	103.3	98.2	95.1	94.1	91.0	85.9	81.8	83.9	82.9	82.9
102.5°	83.9	83.9	82.9	81.8	81.8	78.8	74.7	70.6	70.6	68.5	68.5
105°	66.5	68.5	68.5	69.6	70.6	68.5	64.4	59.3	58.3	55.2	55.2
107.5°	52.2	54.2	57.3	58.3	59.3	57.3	54.2	49.1	46.0	43.0	44.0
110°	40.9	43.0	47.1	49.1	50.1	49.1	45.0	40.9	35.8	33.8	34.8



REPORT NUMBER: P240540

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31.7	34.8	38.9	40.9	41.9	40.9	36.8	32.7	27.6	26.6	26.6
115°	26.6	28.6	32.7	34.8	34.8	33.8	30.7	25.6	21.5	20.5	21.5
117.5°	22.5	24.6	27.6	29.7	29.7	28.6	25.6	20.5	17.4	17.4	17.4
120°	19.4	21.5	23.5	25.6	25.6	24.6	21.5	16.4	14.3	14.3	14.3
122.5°	17.4	18.4	20.5	21.5	21.5	20.5	17.4	13.3	11.3	12.3	12.3
125°	15.3	16.4	18.4	19.4	18.4	17.4	14.3	10.2	9.2	10.2	10.2
127.5°	14.3	15.3	16.4	16.4	16.4	14.3	12.3	8.2	8.2	9.2	9.2
130°	13.3	13.3	14.3	14.3	13.3	12.3	9.2	6.1	6.1	8.2	8.2
132.5°	12.3	12.3	13.3	12.3	12.3	10.2	7.2	5.1	6.1	7.2	7.2
135°	10.2	10.2	11.3	11.3	9.2	8.2	5.1	4.1	4.1	5.1	6.1
137.5°	9.2	10.2	10.2	9.2	8.2	6.1	4.1	3.1	4.1	4.1	5.1
140°	8.2	8.2	8.2	7.2	6.1	4.1	2.0	2.0	3.1	3.1	3.1
142.5°	6.1	7.2	7.2	6.1	4.1	2.0	1.0	1.0	2.0	2.0	2.0
145°	5.1	5.1	5.1	4.1	3.1	2.0	1.0	1.0	1.0	1.0	1.0
147.5°	3.1	4.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	3.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	1.0	1.0	1.0	1.0	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)