

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: P266530

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)
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-5WQ-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7508.3 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U2 - G2

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

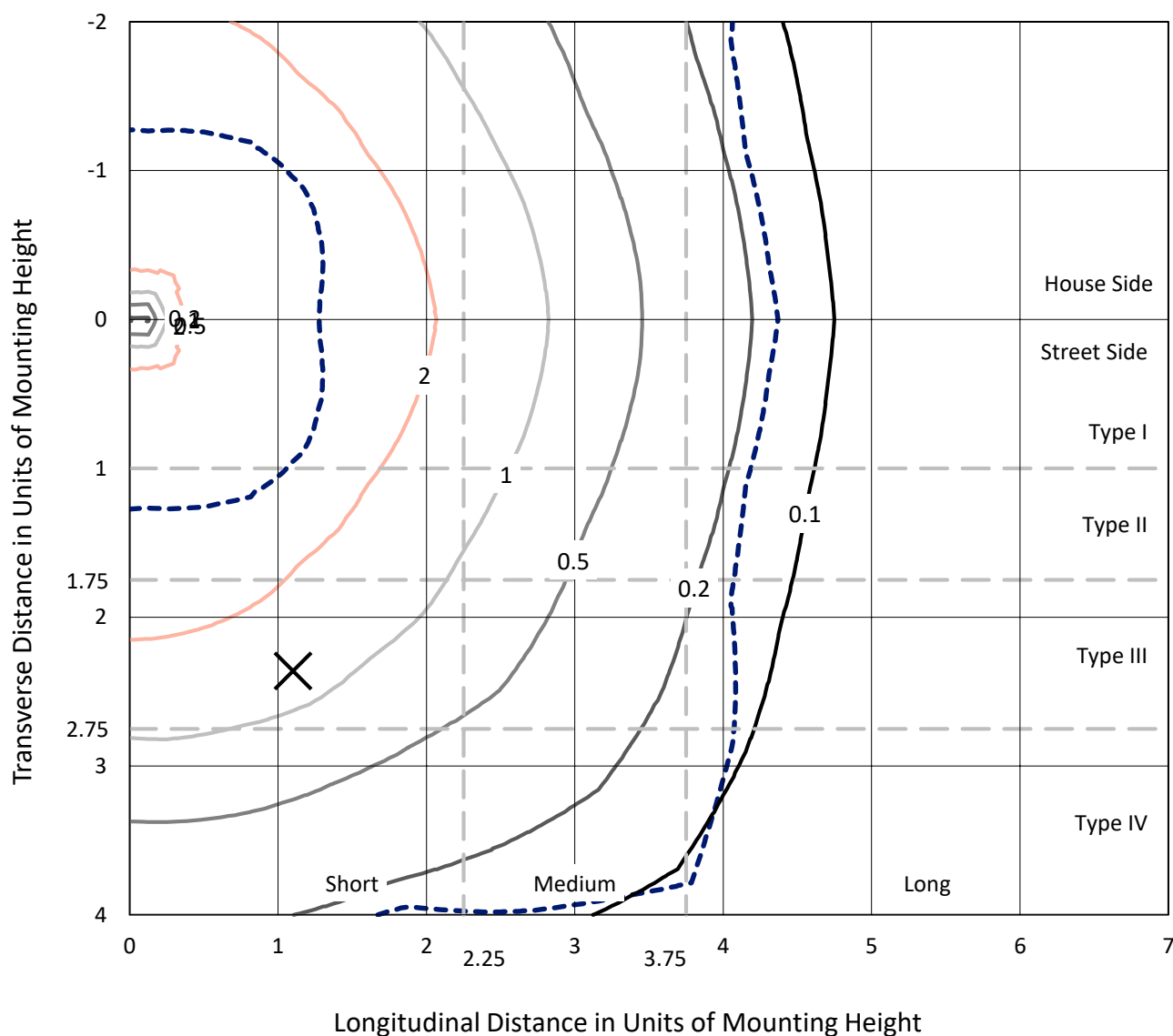


REPORT NUMBER: P266530

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

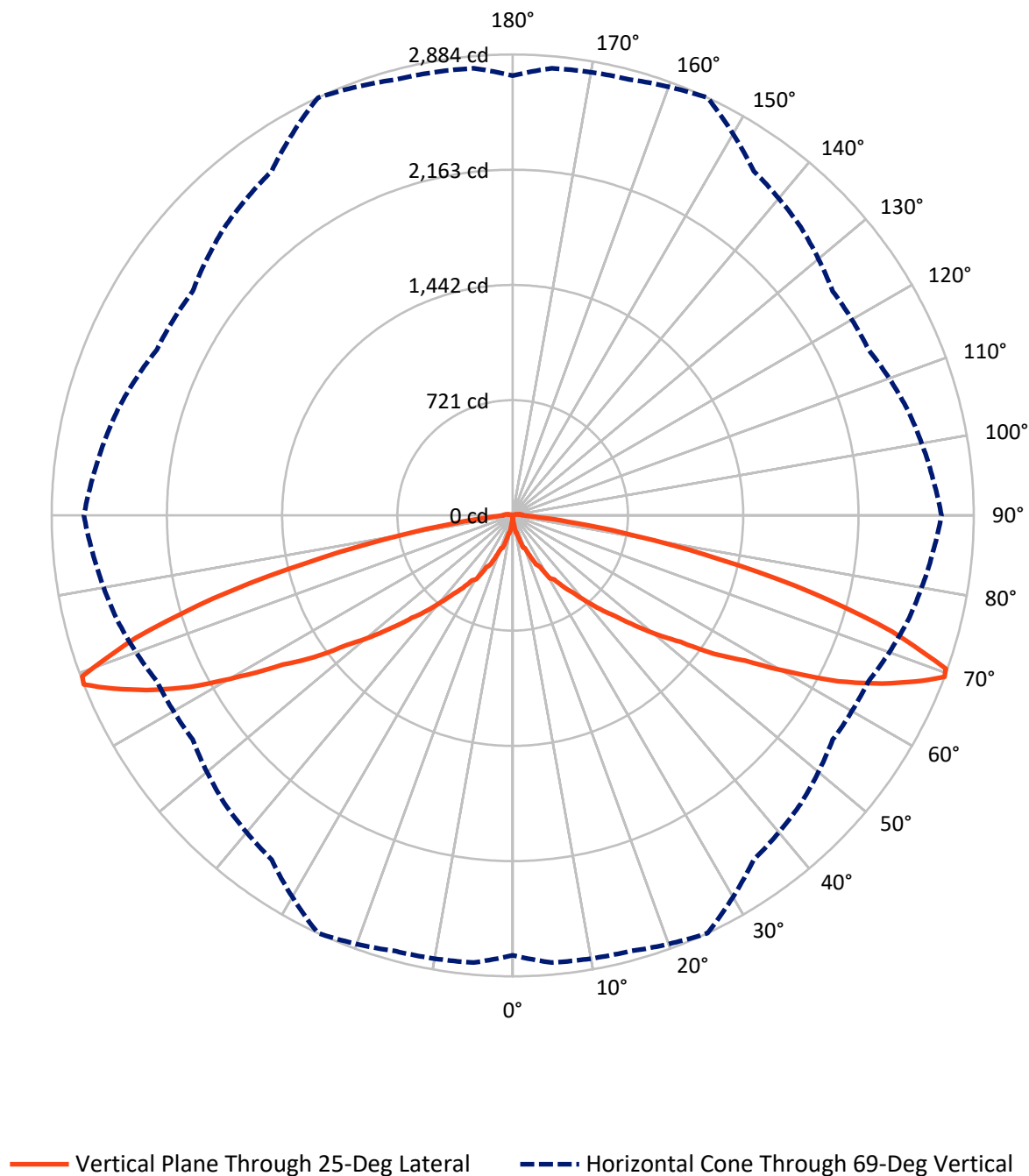


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P266530

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266530

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

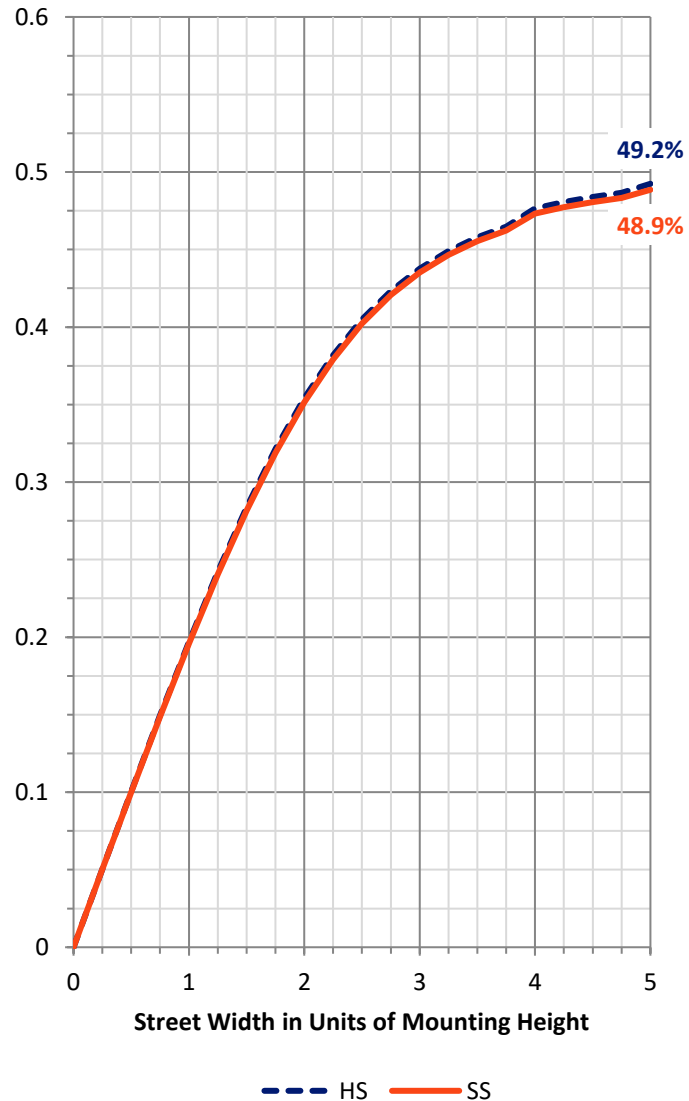
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3707.4	46.7	3754.2
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	3707.4	46.7	3754.2
	% Fixture	49.4	0.6	50.0
Total	Lumens	7414.9	93.4	7508.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	44.3	0.6
20°-30°	165.0	2.2
30°-40°	374.6	5.0
40°-50°	718.2	9.6
50°-60°	1385.4	18.5
60°-70°	2383.3	31.7
70°-80°	2034.4	27.1
80°-90°	305.5	4.1
90°-100°	50.0	0.7
100°-110°	22.6	0.3
110°-120°	9.0	0.1
120°-130°	5.9	0.1
130°-140°	3.6	0.0
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°	7414.9	98.8
0°-180°	7508.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266530

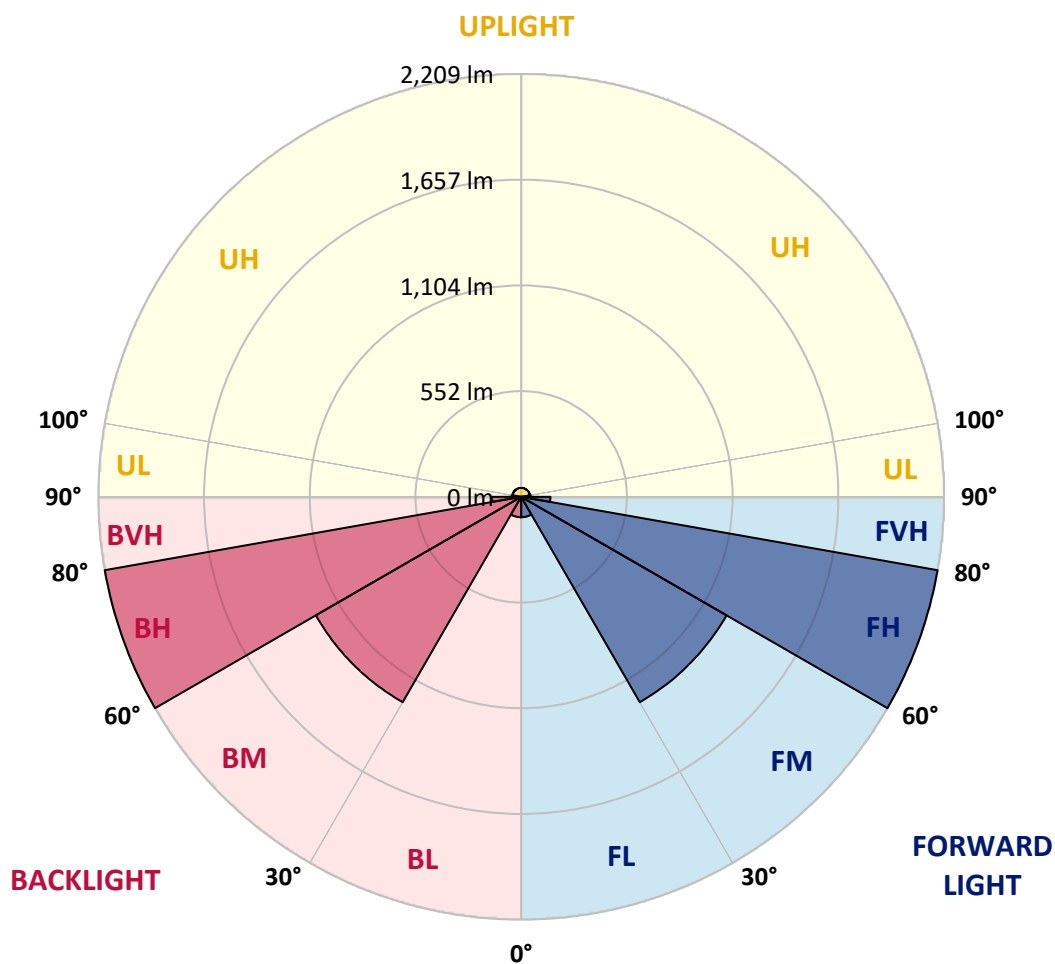
CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.7	1.4			
FM	(30°-60°)	1239.1	16.5			
FH	(60°-80°)	2208.8	29.4			G2/5000
FVH	(80°-90°)	152.8	2.0			G2/225
BL	(0°-30°)	106.7	1.4	B0/110		
BM	(30°-60°)	1239.1	16.5	B2/2500		
BH	(60°-80°)	2208.8	29.4	B3/2500		G2/5000
BVH	(80°-90°)	152.8	2.0			G2/225
UL	(90°-100°)	50.0	0.7		U2/50	
UH	(100°-180°)	46.7	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short





REPORT NUMBER: P266530

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	33.9	33.9	33.9	32.2	32.2	35.7	24.3	19.1	18.2	15.6	15.6
5°	38.2	39.0	36.6	34.8	33.9	35.7	36.6	33.9	20.8	16.4	14.7
7.5°	64.3	69.4	63.4	56.5	53.9	37.4	33.0	36.6	27.8	17.3	16.4
10°	112.9	112.1	114.7	106.9	77.3	59.9	49.5	33.9	40.9	31.4	29.6
12.5°	114.7	112.9	113.8	113.8	110.3	99.1	72.1	79.1	85.1	91.2	87.8
15°	199.9	196.3	178.9	154.7	110.3	134.7	136.5	140.8	126.8	121.6	119.0
17.5°	225.8	223.3	219.7	211.1	192.0	168.5	165.9	165.9	186.8	211.1	197.2
20°	250.2	245.0	221.5	218.1	235.4	212.0	204.2	247.7	267.5	288.4	280.6
22.5°	351.0	361.4	353.7	272.7	254.6	254.6	284.1	295.5	297.1	306.7	299.8
25°	359.7	364.9	356.2	338.8	321.5	297.1	317.1	330.1	383.1	402.3	397.9
27.5°	457.9	461.3	415.2	364.1	367.4	355.3	357.0	406.7	455.3	458.8	477.8
30°	493.4	497.8	475.3	456.1	404.9	404.0	424.0	457.9	515.2	556.9	590.7
32.5°	604.6	585.5	523.9	479.5	457.0	450.1	465.7	530.0	592.5	627.2	669.0
35°	667.3	676.0	662.9	549.9	498.6	524.7	528.3	554.3	611.7	672.4	696.7
37.5°	767.2	769.8	683.7	615.1	548.1	592.5	611.7	612.5	686.3	758.4	778.4
40°	831.4	855.7	800.1	702.8	610.8	638.5	642.0	715.9	784.5	831.4	862.7
42.5°	927.1	926.2	867.0	801.8	682.8	708.9	724.6	752.4	864.3	920.9	952.2
45°	1032.2	1030.4	977.4	898.3	794.0	769.8	793.3	872.3	992.2	1039.1	1023.3
47.5°	1164.2	1172.0	1119.0	1029.5	892.2	935.7	905.2	1012.1	1055.6	1115.5	1154.6
50°	1300.6	1308.4	1243.3	1171.1	1024.2	1027.8	1042.6	1125.9	1194.6	1289.2	1331.0
52.5°	1482.2	1489.1	1424.8	1315.3	1199.7	1211.0	1204.9	1248.5	1375.2	1473.4	1458.7
55°	1681.1	1678.5	1600.3	1529.1	1428.2	1390.0	1366.6	1480.3	1556.0	1631.5	1647.2
57.5°	1974.7	1944.3	1850.5	1714.1	1602.8	1625.6	1606.3	1639.3	1760.9	1872.2	1901.7
60°	2190.2	2209.3	2141.5	1987.8	1820.1	1812.3	1828.0	1890.5	1977.3	2046.9	2087.8
62.5°	2519.4	2501.2	2418.6	2285.7	2134.6	2143.3	2076.4	2125.0	2176.4	2274.5	2270.9
65°	2667.2	2662.8	2608.9	2538.6	2403.1	2351.9	2286.6	2311.0	2361.4	2414.4	2493.3
67.5°	2761.0	2814.7	2783.6	2762.6	2569.8	2529.8	2388.2	2426.5	2489.9	2558.6	2614.2
69°	2752.2	2808.8	2823.6	2884.4	2629.8	2549.8	2444.7	2456.1	2557.7	2639.3	2682.8
70°	2701.9	2774.0	2774.9	2874.8	2627.3	2615.1	2469.1	2451.7	2575.0	2653.2	2706.2
72.5°	2386.5	2433.5	2467.4	2480.4	2481.2	2616.8	2449.9	2313.6	2421.3	2578.6	2576.8
75°	1845.3	1897.4	1966.8	1943.5	2136.3	2375.3	2215.4	1980.0	1993.0	2079.8	2100.6
77.5°	1161.6	1166.8	1257.1	1329.2	1646.4	1893.1	1731.5	1410.0	1262.4	1265.0	1314.5
80°	663.8	665.5	715.9	790.6	1013.0	1298.8	1066.8	794.0	621.2	612.5	607.3
82.5°	317.1	310.2	329.3	390.0	525.6	655.9	533.5	303.2	242.5	266.6	270.2
85°	113.8	134.7	152.9	174.6	241.6	252.9	187.7	155.4	159.9	150.2	154.7
87.5°	71.2	73.0	86.9	93.9	100.8	105.1	117.3	105.1	106.9	88.7	83.5
90°	50.3	51.3	62.5	64.3	69.4	70.3	67.7	67.7	65.1	51.3	53.0
92.5°	39.0	38.2	48.7	54.7	59.9	56.5	59.1	51.3	49.5	37.4	36.6
95°	48.7	48.7	53.0	55.7	49.5	41.7	47.8	46.1	44.2	33.0	32.2
97.5°	27.8	29.6	40.0	42.6	41.7	33.9	40.9	41.7	40.0	28.7	24.3
100°	24.3	26.9	35.7	38.2	36.6	28.7	36.6	38.2	35.7	25.2	22.5
102.5°	21.6	23.4	29.6	33.0	29.6	21.6	29.6	32.2	29.6	20.8	19.1
105°	18.2	19.1	20.8	24.3	20.8	16.4	21.6	23.4	19.1	16.4	15.6
107.5°	15.6	15.6	14.7	16.4	14.7	13.0	15.6	16.4	14.0	14.0	14.0



REPORT NUMBER: P266530

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	14.7	14.0	11.3	11.3	11.3	10.4	11.3	12.1	11.3	13.0	13.0
112.5°	13.0	12.1	9.5	8.8	8.8	8.8	9.5	9.5	9.5	12.1	12.1
115°	12.1	11.3	8.8	6.9	7.8	7.8	7.8	7.8	8.8	11.3	12.1
117.5°	12.1	11.3	7.8	6.9	6.1	6.1	6.9	6.9	8.8	11.3	11.3
120°	11.3	10.4	7.8	6.1	5.2	5.2	6.1	6.9	8.8	11.3	11.3
122.5°	10.4	10.4	6.9	5.2	5.2	5.2	5.2	6.1	7.8	10.4	10.4
125°	9.5	9.5	6.9	5.2	4.3	4.3	5.2	6.1	7.8	10.4	10.4
127.5°	9.5	8.8	6.9	4.3	4.3	4.3	4.3	5.2	6.9	9.5	10.4
130°	8.8	8.8	6.1	4.3	3.5	3.5	4.3	5.2	6.9	8.8	9.5
132.5°	8.8	7.8	6.1	3.5	3.5	3.5	3.5	4.3	6.1	7.8	8.8
135°	6.9	6.9	5.2	3.5	2.6	2.6	3.5	4.3	5.2	6.9	7.8
137.5°	6.9	6.1	5.2	3.5	2.6	2.6	2.6	3.5	5.2	6.1	6.9
140°	6.1	6.1	4.3	3.5	2.6	2.6	2.6	3.5	4.3	5.2	6.1
142.5°	5.2	5.2	4.3	3.5	2.6	1.7	2.6	2.6	3.5	4.3	4.3
145°	5.2	5.2	4.3	2.6	1.7	1.7	1.7	2.6	3.5	3.5	4.3
147.5°	4.3	4.3	3.5	2.6	1.7	0.9	1.7	2.6	2.6	3.5	3.5
150°	3.5	3.5	2.6	1.7	0.9	0.0	0.9	1.7	2.6	2.6	2.6
152.5°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.6
155°	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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

(END OF REPORT)