

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: P240371

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3288.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 31
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

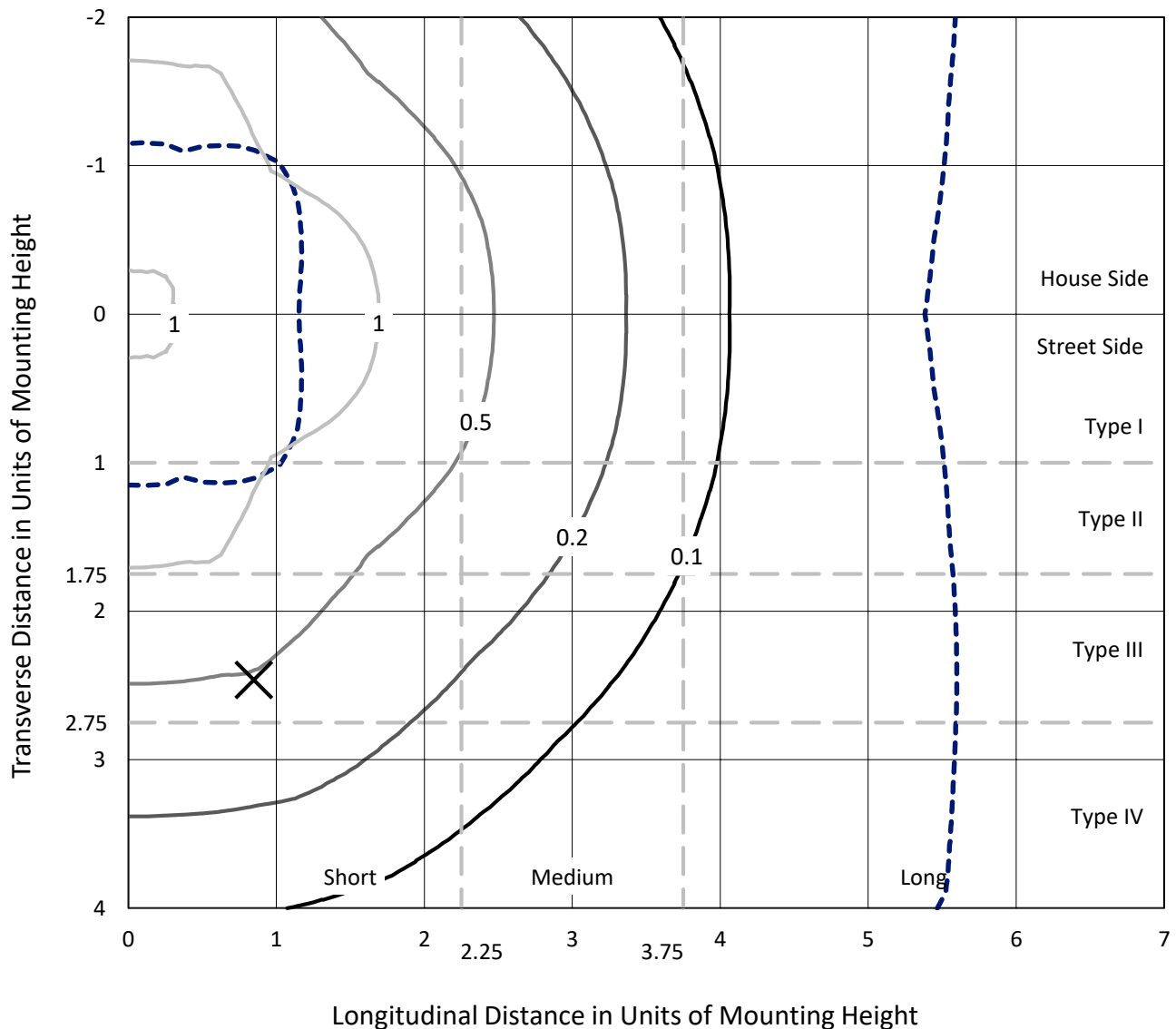


REPORT NUMBER: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

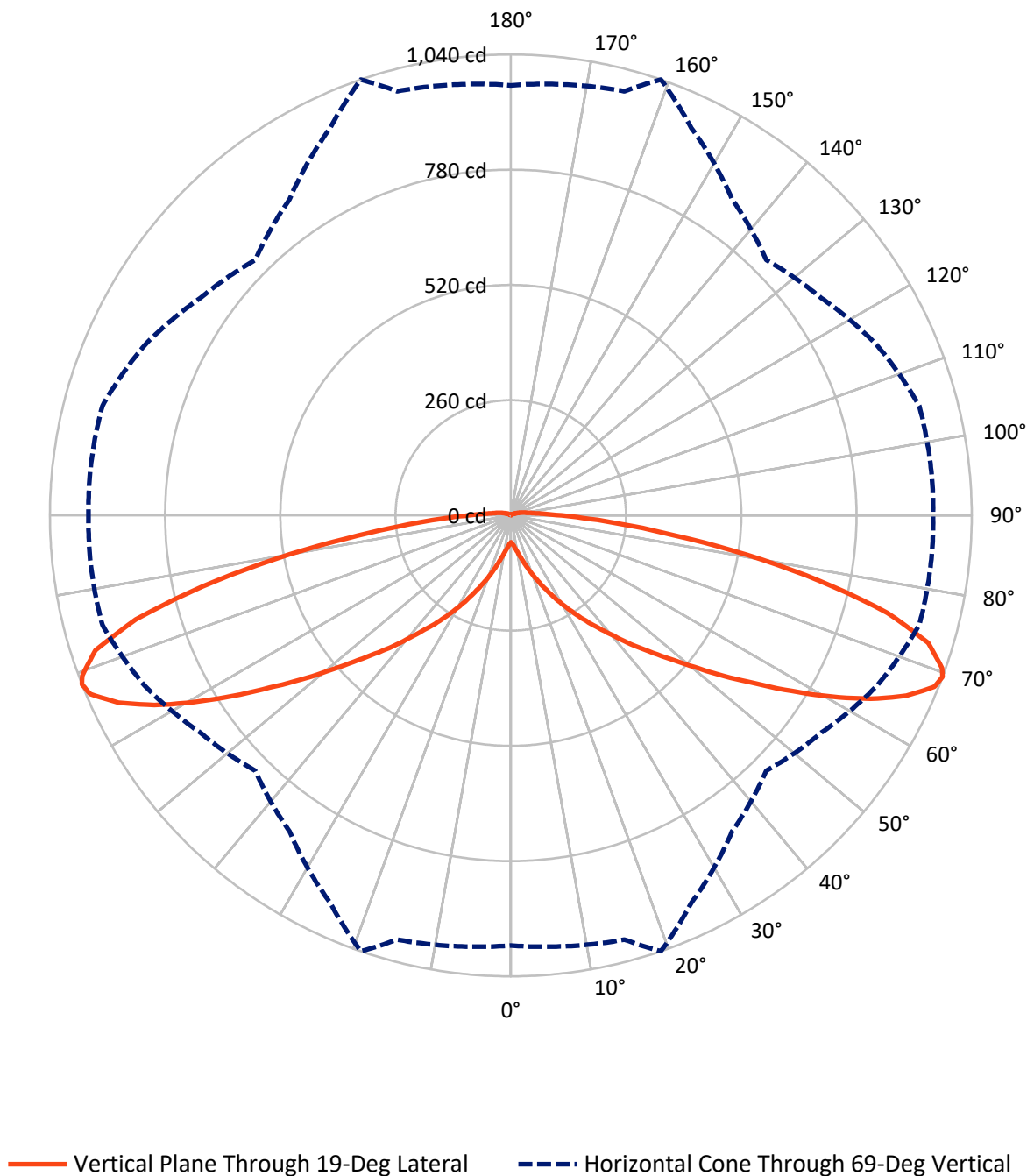


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

Luminous Intensity Polar Plot



REPORT NUMBER: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

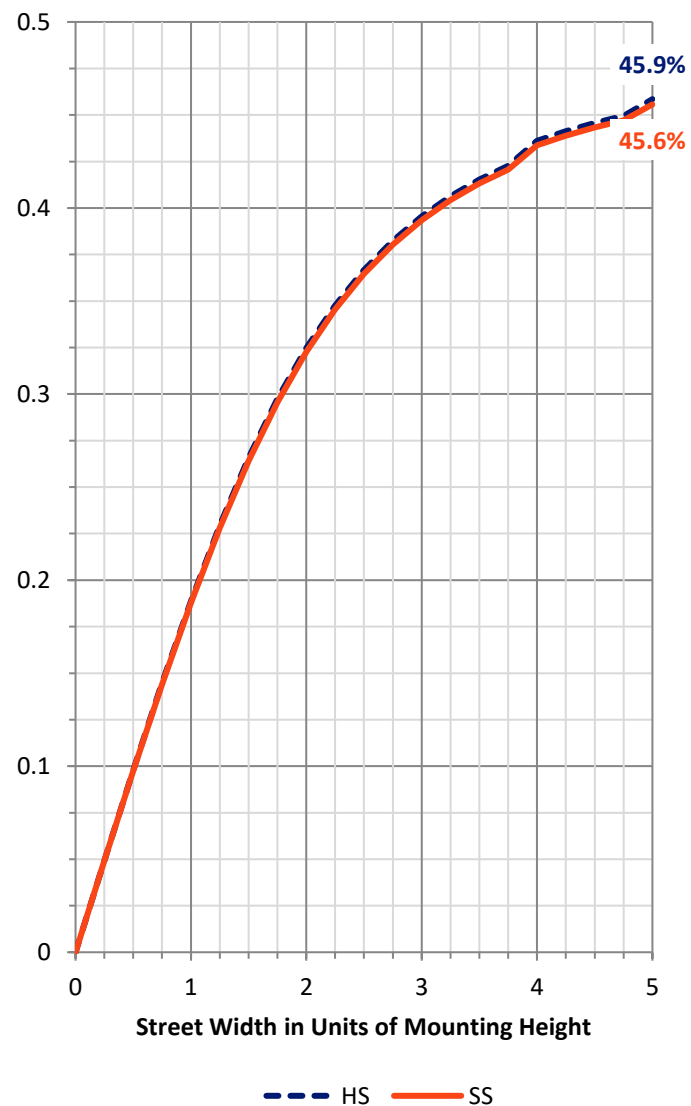
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1577.7	66.7	1644.4
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	1577.7	66.7	1644.4
	% Fixture	48.0	2.0	50.0
Total	Lumens	3155.4	133.4	3288.8
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.2
10°-20°	29.4	0.9
20°-30°	80.1	2.4
30°-40°	169.4	5.1
40°-50°	309.2	9.4
50°-60°	540.1	16.4
60°-70°	846.6	25.7
70°-80°	835.2	25.4
80°-90°	338.7	10.3
90°-100°	81.6	2.5
100°-110°	29.8	0.9
110°-120°	12.5	0.4
120°-130°	5.7	0.2
130°-140°	2.7	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3155.4	95.9
0°-180°	3288.8	100.0

Coefficient of Utilization



REPORT NUMBER: P240371

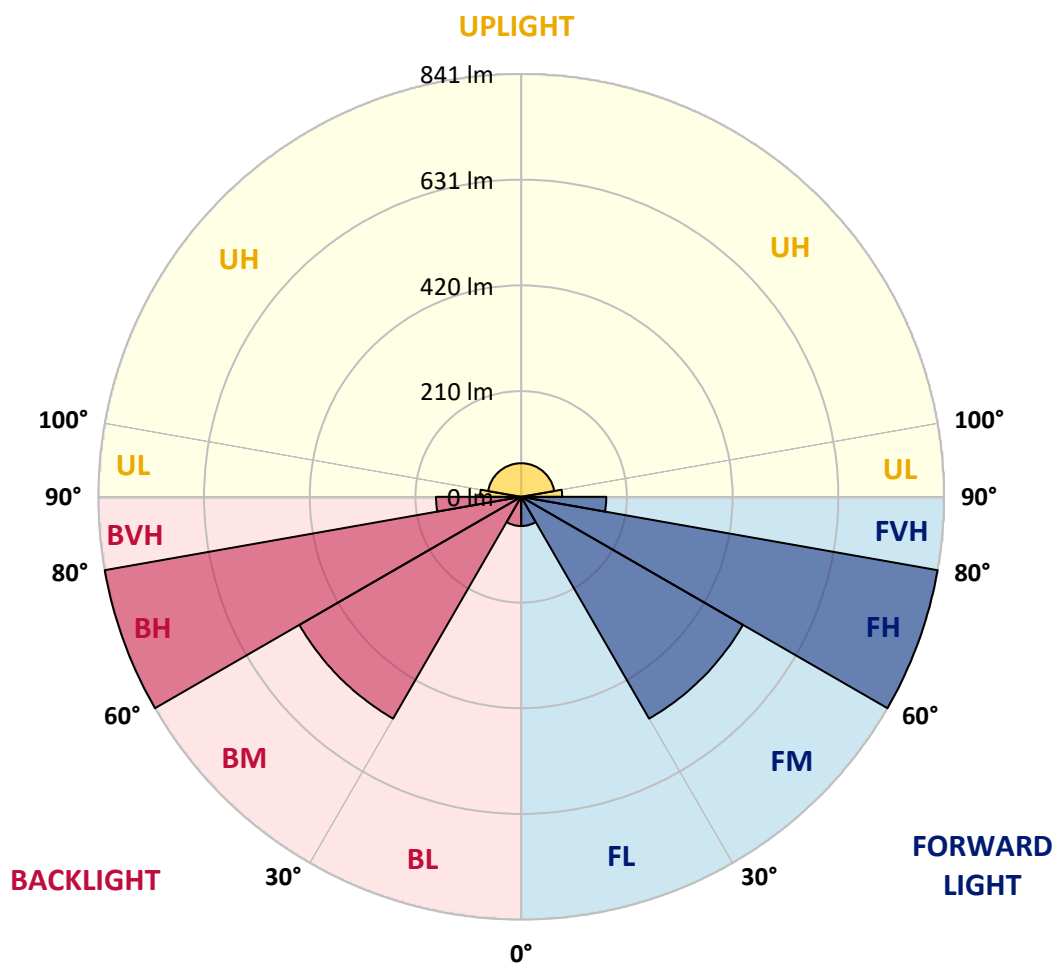
CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.1	1.8			
FM	(30°-60°)	509.3	15.5			
FH	(60°-80°)	840.9	25.6			G1/1800
FVH	(80°-90°)	169.3	5.1			G2/225
BL	(0°-30°)	58.1	1.8	B0/110		
BM	(30°-60°)	509.3	15.5	B1/1000		
BH	(60°-80°)	840.9	25.6	B2/1000		G1/1800
BVH	(80°-90°)	169.3	5.1			G2/225
UL	(90°-100°)	81.6	2.5		U3/500	
UH	(100°-180°)	66.7	2.0		U3/500	

BUG Rating: B2-U3-G2

Type V Short





REPORT NUMBER: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2.5°	62.1	62.1	62.1	63.6	62.1	62.1	62.1	62.1	62.1	62.1	61.7
5°	65.3	65.3	65.3	68.8	65.3	64.9	64.9	65.3	64.9	64.9	64.9
7.5°	71.2	70.8	70.8	75.6	70.8	70.4	70.1	70.1	70.1	69.7	69.7
10°	79.2	78.8	78.4	84.7	77.9	77.5	77.2	76.8	76.8	76.8	77.2
12.5°	89.5	89.5	88.7	95.9	87.6	86.3	85.5	85.1	85.5	85.9	86.3
15°	102.6	103.0	101.9	109.5	99.0	97.1	95.9	95.9	96.7	97.9	99.0
17.5°	120.2	119.8	117.3	126.5	114.2	110.2	107.4	107.8	110.6	113.8	115.8
20°	139.2	138.1	135.2	144.4	130.5	124.5	121.3	122.1	126.9	132.1	134.9
22.5°	160.3	159.2	155.2	164.3	148.0	140.5	137.3	138.5	144.4	152.0	157.5
25°	183.4	183.0	177.5	185.8	166.7	157.5	153.1	156.0	164.3	175.8	182.6
27.5°	208.9	208.1	200.9	210.1	187.8	176.7	171.4	174.3	185.5	200.5	211.2
30°	236.7	235.9	226.0	235.9	210.1	195.8	189.8	194.2	207.7	228.0	239.9
32.5°	266.6	265.8	253.5	263.0	234.8	216.5	208.5	214.4	232.0	254.2	270.2
35°	298.0	296.0	283.3	292.5	261.1	237.9	228.4	237.5	257.1	283.3	301.2
37.5°	331.8	329.4	314.8	322.6	288.5	262.2	251.4	259.8	284.5	312.3	334.2
40°	366.8	364.9	347.0	357.3	319.9	288.1	275.4	285.7	313.9	343.4	366.0
42.5°	403.9	401.8	384.7	397.8	353.7	316.3	301.6	314.8	345.3	378.0	402.6
45°	442.0	441.2	424.9	437.6	390.4	349.3	332.7	347.7	381.2	417.4	441.2
47.5°	488.6	483.9	471.5	483.9	434.0	389.9	369.2	385.1	422.2	461.6	485.4
50°	534.7	534.0	523.2	538.3	483.4	431.7	409.0	427.3	469.5	510.0	532.8
52.5°	589.6	591.3	579.7	602.4	540.7	484.6	457.6	478.2	525.2	564.6	586.9
55°	648.6	649.4	644.6	668.8	602.4	539.5	510.9	533.6	581.6	625.0	646.2
57.5°	717.0	716.2	714.6	748.0	674.8	605.2	569.8	597.2	647.3	691.1	708.6
60°	784.6	784.6	788.6	830.3	751.2	672.8	631.9	663.3	716.2	762.3	775.1
62.5°	857.8	859.0	862.6	911.6	824.4	741.6	694.7	729.0	788.6	831.1	841.5
65°	917.5	923.1	931.0	981.5	897.2	804.1	754.7	790.9	852.2	894.5	900.8
67.5°	960.9	963.6	978.8	1031.3	950.9	853.9	799.7	837.1	897.6	940.6	944.6
69°	970.8	977.2	991.1	1040.4	964.8	870.9	815.3	855.4	911.1	954.5	954.5
70°	966.5	974.4	991.1	1032.9	968.0	876.6	822.0	859.4	913.9	954.1	952.9
72.5°	918.3	923.8	952.5	985.5	943.8	865.4	818.9	851.1	889.3	917.1	909.9
75°	816.8	822.5	854.7	878.1	867.8	812.8	779.8	801.0	819.2	822.0	808.4
77.5°	660.1	668.4	713.0	714.6	745.6	724.1	706.7	714.2	702.7	689.9	660.5
80°	498.2	504.1	545.1	541.1	592.4	606.0	604.0	599.6	565.0	524.8	491.7
82.5°	345.3	350.2	391.1	372.8	440.1	472.7	484.3	469.1	416.5	371.2	341.8
85°	221.3	229.1	261.4	249.5	309.1	348.5	365.6	342.2	292.5	248.7	224.0
87.5°	143.2	146.4	169.9	160.0	205.3	245.9	264.2	245.1	200.9	164.3	143.6
90°	92.3	95.9	110.6	103.0	137.3	169.1	184.6	166.7	136.1	110.2	95.9
92.5°	64.4	67.2	75.6	71.2	92.3	116.6	130.5	116.6	94.3	77.9	67.6
95°	49.3	50.5	56.5	52.5	67.2	84.4	92.7	84.4	68.8	58.5	51.4
97.5°	39.0	39.8	44.2	41.0	50.5	62.9	69.3	63.2	52.9	45.7	40.2
100°	31.4	31.8	35.4	33.9	40.6	49.3	53.7	49.7	42.6	36.6	32.2
102.5°	25.5	25.5	29.1	28.2	33.5	39.8	43.0	41.0	35.0	29.9	25.5
105°	20.3	20.3	23.4	23.4	27.8	32.6	35.4	33.5	28.6	23.8	20.3
107.5°	16.0	16.3	18.7	18.7	23.1	27.0	29.1	27.4	23.4	18.7	16.0



REPORT NUMBER: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	12.7	13.1	15.1	15.5	19.1	22.7	24.2	22.7	19.1	14.7	12.4
112.5°	10.3	10.3	12.4	12.4	15.5	18.7	19.8	18.7	15.5	11.6	9.9
115°	8.8	8.8	9.9	9.9	12.7	15.5	16.7	15.5	12.4	9.5	8.4
117.5°	7.6	7.6	8.4	8.4	10.7	13.1	13.9	12.7	10.3	8.0	7.2
120°	6.8	6.8	7.2	7.2	8.8	10.7	11.6	10.7	8.4	6.8	6.3
122.5°	5.9	5.9	6.3	5.9	7.6	9.1	9.5	8.8	7.2	5.9	5.5
125°	5.5	5.5	5.5	5.2	6.3	7.6	8.0	7.2	5.9	5.2	5.2
127.5°	4.8	4.8	4.8	4.4	5.2	6.3	6.8	5.9	5.2	4.8	4.4
130°	4.4	4.4	4.4	4.0	4.8	5.2	5.5	5.2	4.4	4.4	4.4
132.5°	4.0	4.0	4.0	3.6	4.0	4.4	4.4	4.0	3.6	3.6	4.0
135°	3.6	3.6	3.6	3.2	3.2	3.2	3.6	3.2	3.2	3.2	3.6
137.5°	3.2	3.2	3.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.2
140°	2.8	2.8	2.8	1.9	2.4	1.9	1.9	1.9	2.4	2.4	2.8
142.5°	2.4	2.4	1.9	1.9	1.9	1.6	1.2	1.6	1.6	1.9	2.4
145°	1.9	1.9	1.6	1.6	1.6	1.2	0.8	0.8	1.6	1.6	1.6
147.5°	1.6	1.6	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	1.6
150°	1.2	1.2	0.8	0.8	0.8	0.4	0.4	0.4	0.8	0.8	1.2
152.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.0	0.4	0.4	0.8	0.8
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.0	0.0	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: P240371

CATALOG NUMBER: UTLD-AF24-30-D-U-5WQ-TL

CANDELA DISTRIBUTION (continued):

	90°
0°	60.9
2.5°	61.7
5°	64.9
7.5°	69.7
10°	76.8
12.5°	86.7
15°	99.0
17.5°	115.4
20°	135.6
22.5°	159.2
25°	184.6
27.5°	212.5
30°	241.5
32.5°	272.9
35°	304.7
37.5°	336.2
40°	370.0
42.5°	404.3
45°	442.4
47.5°	486.6
50°	537.2
52.5°	589.2
55°	644.6
57.5°	708.6
60°	776.2
62.5°	842.3
65°	899.2
67.5°	943.4
69°	953.3
70°	950.1
72.5°	901.6
75°	798.5
77.5°	653.7
80°	481.0
82.5°	329.4
85°	218.8
87.5°	140.0
90°	91.9
92.5°	65.7
95°	49.7
97.5°	39.4
100°	31.4
102.5°	25.5
105°	19.8
107.5°	15.5



REPORT NUMBER: P240371

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CANDELA DISTRIBUTION (continued):

	90°
110°	12.4
112.5°	9.9
115°	8.4
117.5°	7.2
120°	5.9
122.5°	5.5
125°	5.2
127.5°	4.4
130°	4.4
132.5°	4.0
135°	3.6
137.5°	3.2
140°	2.8
142.5°	2.4
145°	1.9
147.5°	1.2
150°	1.2
152.5°	0.8
155°	0.4
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)