

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: P241009

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U2 - G1

Input Watts (W): 21
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

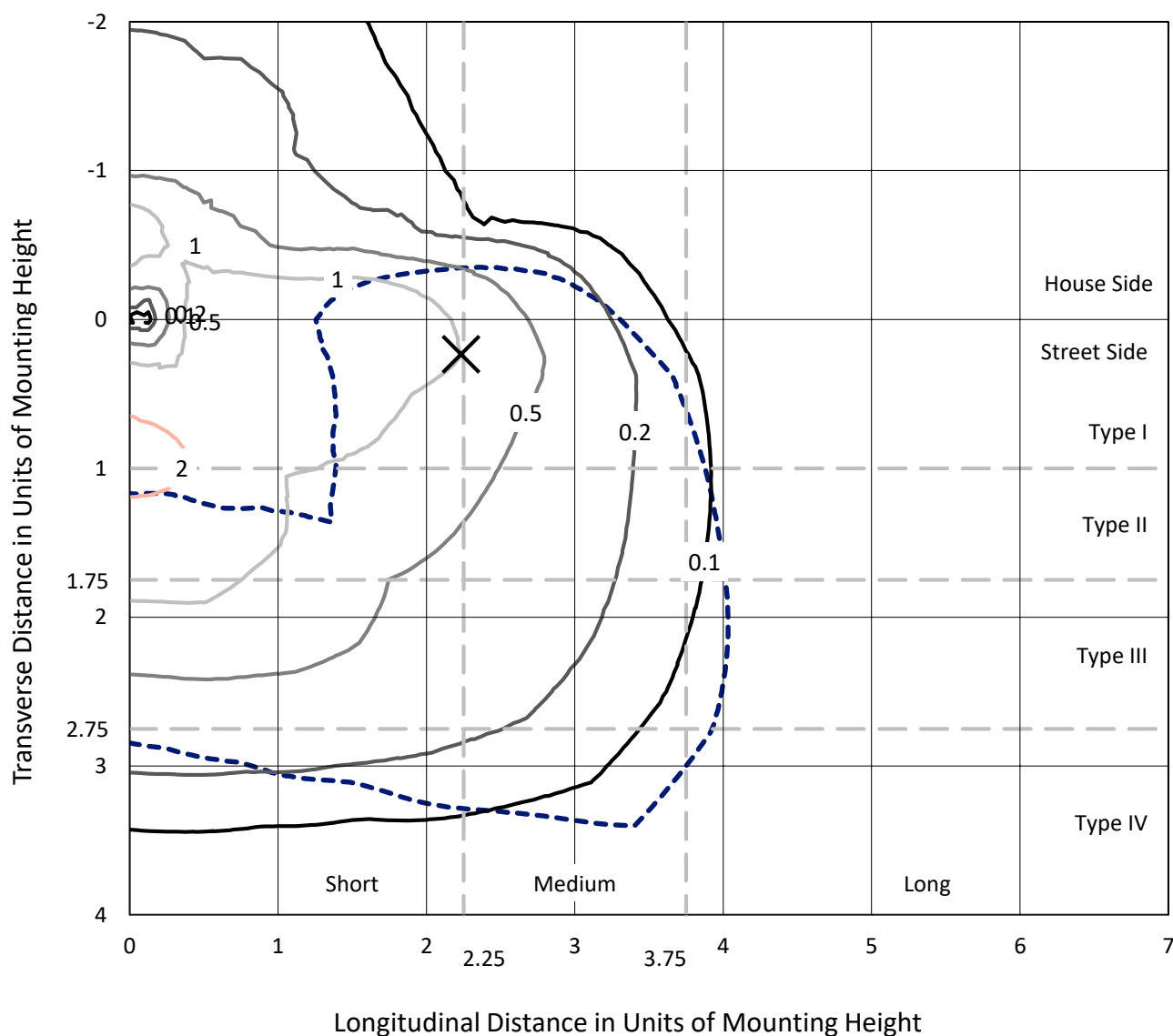


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

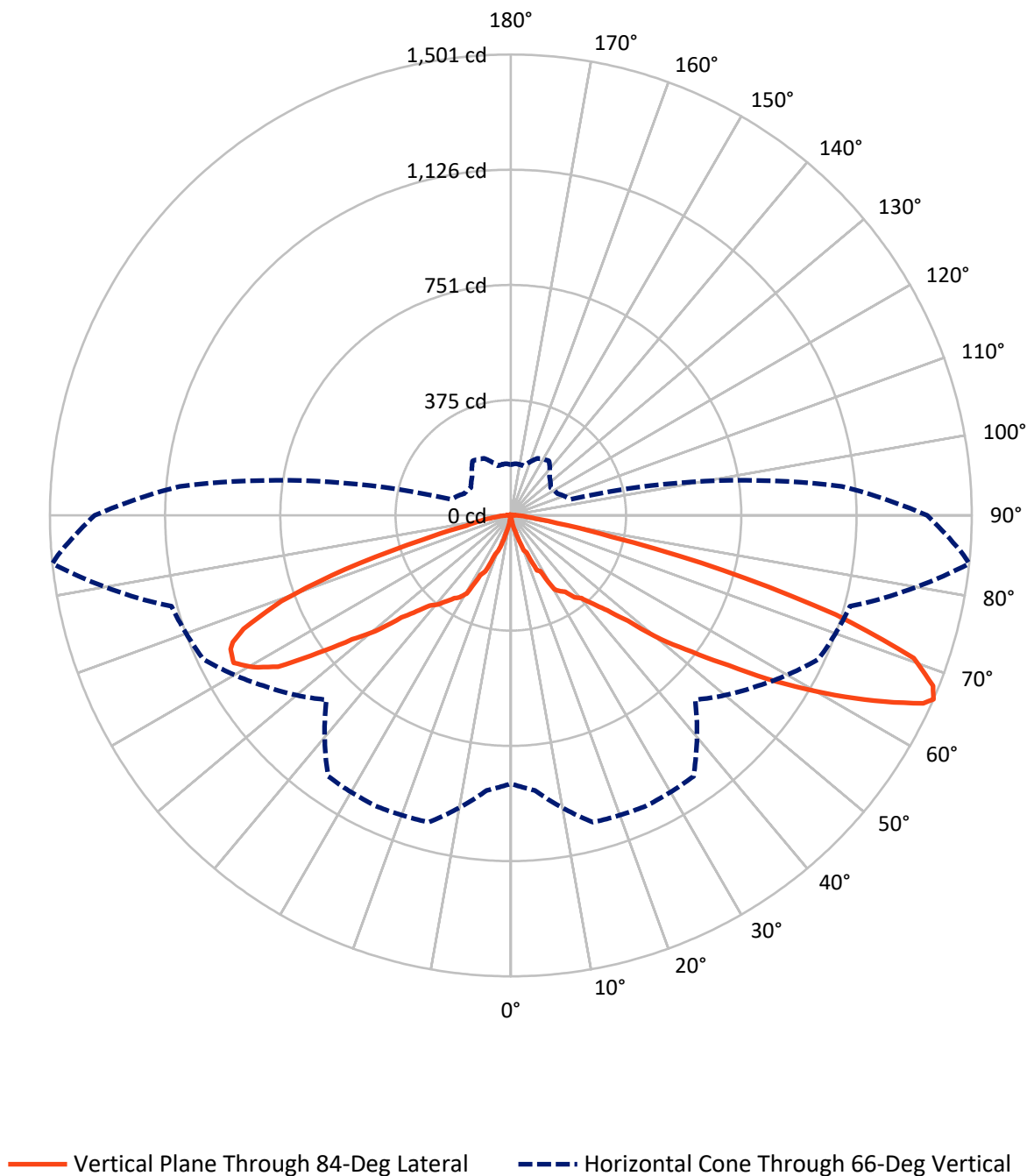


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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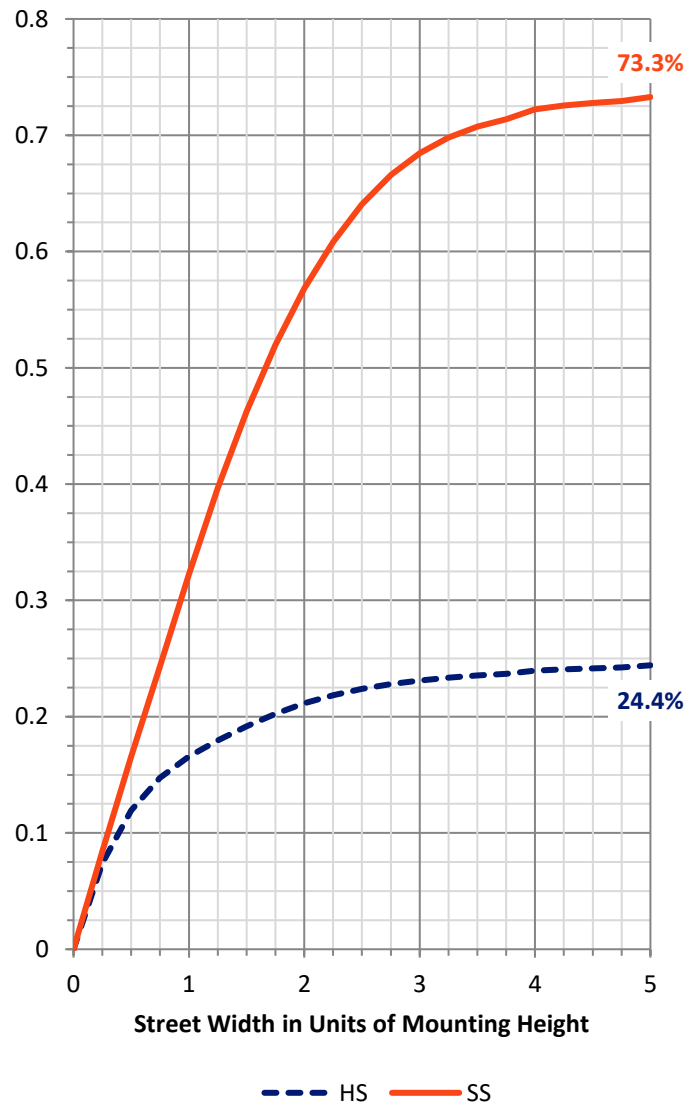
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.8	13.3	560.1
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	1612.6	12.5	1625.0
	% Fixture	73.8	0.6	74.4
Total	Lumens	2159.4	25.7	2185.1
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	20.3	0.9
20°-30°	75.0	3.4
30°-40°	154.1	7.1
40°-50°	255.7	11.7
50°-60°	445.9	20.4
60°-70°	656.8	30.1
70°-80°	479.3	21.9
80°-90°	70.7	3.2
90°-100°	13.2	0.6
100°-110°	6.0	0.3
110°-120°	2.8	0.1
120°-130°	2.0	0.1
130°-140°	1.2	0.1
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2159.4	98.8
0°-180°	2185.1	100.0

Coefficient of Utilization



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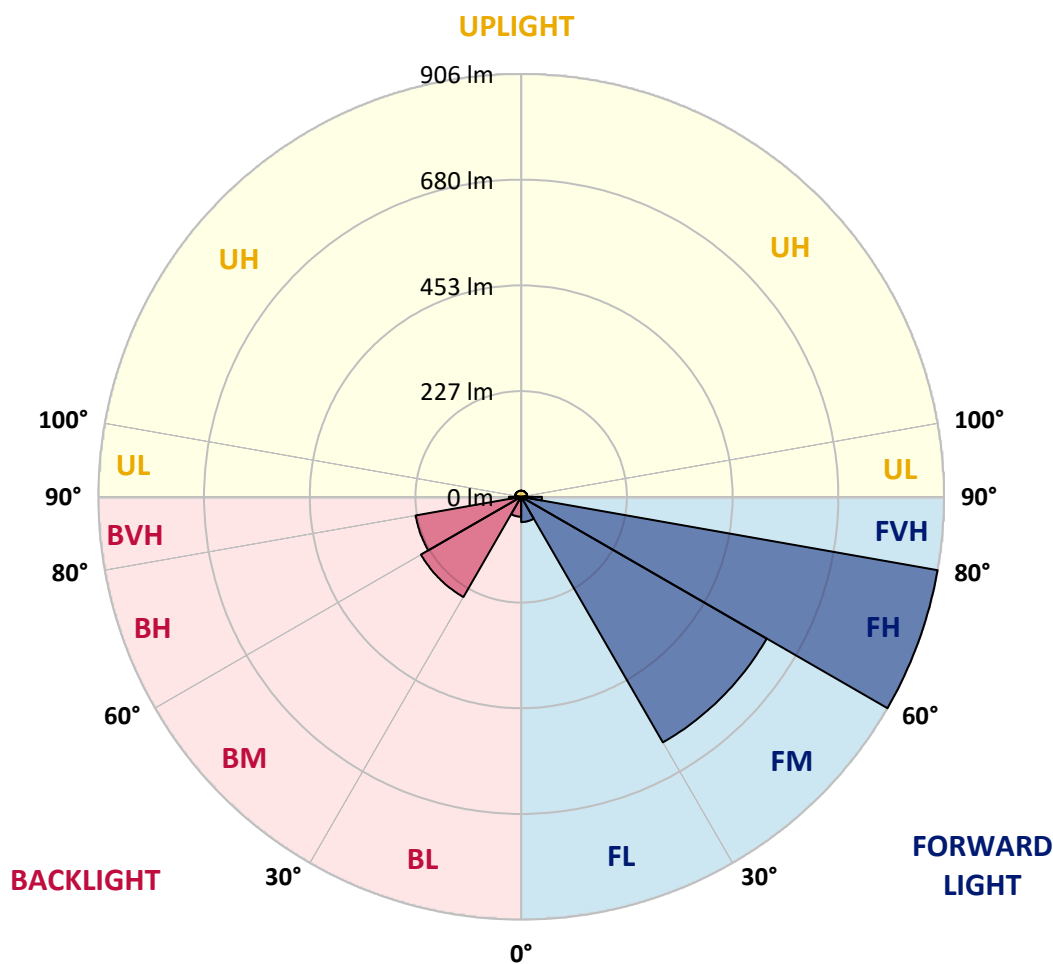
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.1	2.5			
FM	(30°-60°)	607.7	27.8			
FH	(60°-80°)	906.3	41.5			G1/1800
FVH	(80°-90°)	44.5	2.0			G1/100
BL	(0°-30°)	42.8	2.0	B0/110		
BM	(30°-60°)	247.9	11.3	B1/1000		
BH	(60°-80°)	229.8	10.5	B1/500		G1/500
BVH	(80°-90°)	26.2	1.2			G1/100
UL	(90°-100°)	13.2	0.6		U2/50	
UH	(100°-180°)	13.3	0.6		U2/50	

BUG Rating: B1-U2-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	12.9	11.6	11.6	11.0	10.0	8.8	7.0	5.9	5.1	5.1	4.8
5°	24.7	26.1	30.1	27.7	22.8	29.8	13.4	8.8	5.7	4.8	4.8
7.5°	39.3	41.4	31.6	28.2	28.2	30.1	24.5	14.7	7.5	5.7	5.4
10°	82.3	77.7	54.1	54.8	46.6	32.6	22.3	19.6	11.6	9.2	8.3
12.5°	79.9	78.7	80.5	70.2	70.7	51.4	28.5	45.7	41.4	39.6	43.6
15°	102.9	101.8	81.7	83.4	75.5	78.4	66.1	65.9	63.7	53.5	51.4
17.5°	143.0	141.9	159.9	106.4	75.8	98.2	85.2	73.4	76.1	80.5	83.6
20°	142.7	141.2	148.7	127.8	129.3	101.4	90.9	133.7	122.1	122.6	115.6
22.5°	210.8	201.0	176.6	133.3	145.7	118.5	134.7	131.9	123.1	130.3	128.3
25°	204.6	208.3	200.0	197.3	148.4	169.9	148.1	152.4	188.2	197.9	198.1
27.5°	237.3	230.1	223.7	202.6	199.5	165.3	152.4	203.0	197.0	206.0	205.6
30°	283.1	280.7	279.0	225.3	215.9	182.3	205.4	207.3	239.3	279.6	287.9
32.5°	327.1	315.5	289.5	260.7	216.7	215.3	204.0	257.6	274.5	293.6	296.5
35°	397.0	396.7	352.7	278.7	242.4	228.8	264.2	277.4	277.2	305.9	323.4
37.5°	456.7	459.7	413.4	336.5	250.7	231.2	275.8	299.2	300.3	339.2	332.4
40°	547.6	539.7	498.3	401.8	286.6	246.5	302.4	305.9	328.0	354.0	363.8
42.5°	612.1	609.1	595.7	478.2	328.0	274.7	333.9	318.8	347.3	394.7	404.8
45°	652.4	637.8	651.0	534.2	394.3	335.2	340.9	361.0	391.3	441.4	470.2
47.5°	693.0	704.0	673.1	576.4	454.0	363.2	375.0	438.6	467.9	512.9	531.2
50°	763.4	751.6	740.9	639.7	546.0	407.7	469.0	460.4	542.7	634.4	637.6
52.5°	806.5	806.5	789.0	695.1	609.3	473.6	500.5	531.2	653.7	736.9	766.9
55°	867.4	880.1	876.8	760.5	684.1	563.1	582.8	647.3	755.3	862.0	936.6
57.5°	910.6	928.1	966.1	830.4	756.7	599.8	703.0	774.7	891.9	1021.8	1111.8
60°	974.9	975.2	1014.3	892.2	848.4	669.3	749.4	892.9	967.0	1175.2	1222.8
62.5°	981.4	992.4	1074.1	988.4	939.7	741.9	901.6	954.1	1051.3	1329.5	1371.2
65°	903.5	933.1	1069.8	1033.6	1023.3	808.8	946.1	1074.7	1119.9	1475.8	1464.0
66°	873.6	898.6	1034.3	1043.5	1037.1	849.0	972.3	1106.1	1143.8	1501.0	1480.4
67.5°	863.1	881.4	991.8	1054.3	1083.6	921.5	1036.0	1121.4	1187.6	1482.7	1474.5
70°	790.3	813.1	916.9	1125.3	1182.7	1054.6	1117.9	1158.5	1218.5	1392.2	1356.1
72.5°	602.7	626.0	702.6	928.4	1191.2	1251.3	1245.1	1205.3	1117.9	1106.1	1048.4
75°	299.0	324.0	377.9	541.2	926.8	1229.2	1237.9	1086.8	903.5	713.5	669.1
77.5°	154.6	174.2	146.0	207.3	476.6	872.0	876.0	716.6	523.7	333.3	311.3
80°	105.3	109.7	99.4	102.1	196.2	445.7	415.6	381.5	210.8	153.0	159.6
82.5°	77.5	71.4	68.5	74.6	105.9	139.2	149.4	165.1	112.6	77.7	82.0
85°	36.6	40.3	39.6	45.5	64.5	47.5	73.1	99.2	75.0	50.0	49.1
87.5°	22.8	22.6	24.1	28.0	39.0	31.4	40.1	49.1	45.2	31.1	30.6
90°	15.1	13.4	12.7	15.1	21.8	15.7	21.6	28.0	25.5	16.9	15.9
92.5°	10.2	10.2	11.0	12.7	18.8	16.7	15.3	15.9	15.9	13.2	12.7
95°	7.5	8.0	9.2	9.4	11.3	9.8	12.3	13.6	13.9	10.7	10.5
97.5°	6.4	7.0	7.5	7.7	9.4	7.7	10.2	12.1	11.8	8.6	8.8
100°	5.9	6.4	6.4	6.8	7.5	5.9	8.3	11.3	10.7	7.5	7.2
102.5°	5.7	5.7	5.4	5.4	5.9	4.6	7.0	10.0	8.0	6.2	5.7
105°	5.4	5.4	4.6	4.3	4.6	3.8	5.7	7.5	5.7	5.1	5.1
107.5°	5.1	4.8	4.1	3.5	3.8	2.9	4.6	4.8	4.1	4.6	4.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	4.6	4.6	3.5	2.9	2.9	2.4	3.3	3.5	3.5	4.6	4.8
112.5°	4.3	4.1	2.9	2.4	2.4	2.1	2.4	2.7	2.9	4.3	4.6
115°	4.1	3.8	2.7	2.1	1.8	1.6	1.8	2.1	2.7	4.3	4.3
117.5°	3.8	3.5	2.4	1.8	1.6	1.3	1.6	1.8	2.7	4.3	4.3
120°	3.8	3.5	2.4	1.6	1.3	1.3	1.3	1.6	2.9	4.3	4.6
122.5°	3.5	3.5	2.4	1.6	1.3	1.1	1.1	1.6	2.7	4.1	4.1
125°	3.5	3.5	2.1	1.3	1.1	1.1	1.1	1.3	2.7	3.8	4.1
127.5°	3.3	3.3	2.1	1.3	1.1	0.8	0.8	1.3	2.4	3.8	3.8
130°	3.3	3.3	2.1	1.1	0.8	0.8	0.8	1.1	2.4	3.5	3.5
132.5°	2.7	2.7	1.8	1.1	0.8	0.5	0.8	1.1	2.1	2.9	3.3
135°	2.7	2.7	1.8	1.1	0.8	0.5	0.5	1.1	1.8	2.7	2.7
137.5°	2.4	2.4	1.6	1.1	0.8	0.5	0.5	0.8	1.6	2.4	2.4
140°	2.1	2.1	1.8	1.1	0.8	0.5	0.5	0.5	1.3	1.8	1.8
142.5°	2.1	2.1	1.6	1.1	0.5	0.2	0.2	0.5	1.1	1.3	1.3
145°	1.8	1.8	1.6	1.1	0.5	0.2	0.2	0.5	0.8	1.1	1.1
147.5°	1.8	1.8	1.6	0.8	0.2	0.2	0.2	0.5	0.8	1.1	1.1
150°	1.6	1.6	1.1	0.5	0.0	0.0	0.2	0.2	0.5	0.8	0.8
152.5°	1.1	1.1	0.8	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.5
155°	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.6	4.6	4.6	4.6
5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.8	5.1	5.1	5.1
7.5°	5.1	5.1	4.8	4.6	4.8	5.4	8.0	18.6	27.1	33.4	33.1
10°	8.3	8.3	7.7	6.8	8.3	18.2	36.0	36.3	30.1	27.7	28.7
12.5°	44.0	39.3	33.4	27.5	26.9	32.6	30.6	42.7	47.8	51.4	50.8
15°	50.6	53.5	48.9	54.8	56.2	33.4	52.1	69.9	75.3	77.5	79.9
17.5°	83.4	92.3	65.9	62.4	62.6	66.6	70.5	74.0	75.5	74.8	75.0
20°	125.5	119.6	128.5	109.7	83.9	89.3	81.7	80.7	106.4	129.3	126.3
22.5°	128.3	138.4	126.6	115.9	128.3	90.9	112.6	119.6	123.1	126.0	129.8
25°	207.5	202.6	177.4	133.1	126.6	121.3	122.3	125.0	131.7	141.9	148.1
27.5°	220.3	219.4	196.2	179.3	134.9	151.7	125.5	151.1	163.2	173.9	176.0
30°	296.5	299.5	225.8	172.3	156.5	129.8	145.7	155.7	165.1	180.1	180.4
32.5°	315.0	321.2	249.7	190.5	164.0	134.4	146.5	154.0	189.8	203.8	204.4
35°	319.9	335.8	257.6	183.9	158.3	133.9	135.3	161.0	178.7	207.3	217.4
37.5°	370.7	359.1	273.7	186.3	148.1	128.7	146.0	154.6	182.6	200.8	204.4
40°	392.2	385.8	284.2	191.1	146.2	143.2	135.3	144.1	157.3	170.5	170.5
42.5°	432.2	407.0	290.1	187.6	142.1	153.7	123.4	133.3	145.7	137.8	141.2
45°	485.4	451.6	310.2	169.2	134.7	130.7	118.5	133.9	126.0	126.0	124.4
47.5°	554.3	508.0	303.5	162.6	151.7	123.7	156.5	125.7	116.2	120.4	120.7
50°	663.2	608.3	324.2	158.3	143.7	121.3	133.9	121.5	121.5	124.4	123.4
52.5°	799.7	691.6	333.0	158.1	136.0	141.2	132.8	145.5	125.7	136.2	134.9
55°	947.6	817.1	342.2	155.9	134.7	127.4	162.4	139.2	130.7	149.6	150.2
57.5°	1134.8	962.6	379.7	151.7	135.3	127.8	153.2	155.9	159.1	171.7	173.6
60°	1251.6	1043.2	346.5	159.6	133.9	145.7	178.2	174.2	164.2	211.0	218.0
62.5°	1340.5	1104.3	285.5	166.4	158.3	146.7	184.1	203.2	194.1	212.9	218.3
65°	1356.7	1098.9	218.3	166.4	156.1	171.0	220.9	202.6	172.8	174.7	172.6
66°	1355.6	1082.5	201.0	167.7	158.3	178.2	216.9	205.1	167.1	169.2	165.1
67.5°	1311.2	1030.7	174.7	165.8	173.4	183.0	213.2	191.4	160.7	161.2	157.3
70°	1140.5	869.3	148.7	170.5	179.8	183.5	233.0	178.2	147.6	143.7	143.0
72.5°	839.0	616.7	139.2	169.6	182.6	178.0	196.4	146.5	127.4	119.8	119.1
75°	471.8	315.0	138.8	162.6	161.6	152.6	148.7	112.9	105.3	96.4	94.8
77.5°	217.4	151.9	117.5	130.9	122.1	120.7	110.8	94.1	89.8	83.9	81.4
80°	125.7	107.3	83.6	86.9	87.6	85.2	89.5	84.6	80.1	75.8	71.8
82.5°	73.4	68.0	60.9	57.3	57.3	61.3	73.6	70.5	66.9	63.2	54.3
85°	46.0	44.0	41.6	40.1	40.1	36.8	53.0	58.9	55.6	47.5	42.5
87.5°	30.1	31.4	28.0	28.2	27.5	24.5	35.7	39.6	33.9	27.1	22.6
90°	13.6	15.1	16.4	16.2	17.5	13.4	19.6	20.2	18.0	12.3	8.8
92.5°	10.5	12.3	13.6	13.6	15.1	9.2	14.2	15.9	14.7	11.6	8.3
95°	8.8	11.0	13.2	12.9	12.9	7.2	13.2	14.7	13.9	10.0	7.2
97.5°	7.2	8.8	10.7	10.7	11.8	6.2	12.1	14.2	13.4	10.0	7.0
100°	6.8	8.0	9.4	9.8	10.7	4.8	11.0	13.4	12.1	8.3	6.8
102.5°	6.2	6.8	7.7	7.7	8.0	4.3	8.8	11.0	9.8	6.4	6.4
105°	5.7	5.7	5.7	5.1	5.1	3.5	5.4	7.5	5.9	5.1	5.7
107.5°	5.4	5.1	4.3	4.1	3.8	2.9	3.8	4.6	3.5	4.6	5.1



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CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.1	5.1	4.1	3.5	3.3	2.7	3.3	2.9	2.9	4.6	4.8
112.5°	5.1	4.8	3.5	2.9	2.7	2.4	2.7	2.1	2.7	4.6	4.8
115°	4.8	4.8	3.3	2.7	2.7	2.1	2.1	1.8	2.4	4.3	4.8
117.5°	4.8	4.8	3.3	2.4	2.1	1.8	1.8	1.8	2.4	4.3	4.8
120°	4.8	4.6	3.3	2.4	1.8	1.6	1.6	1.6	2.4	4.3	4.6
122.5°	4.6	4.3	2.9	2.1	1.8	1.6	1.3	1.6	2.4	4.1	4.3
125°	4.3	4.3	2.9	1.8	1.6	1.3	1.1	1.3	2.4	4.1	4.3
127.5°	4.3	4.1	2.7	1.6	1.3	1.3	1.1	1.3	2.4	3.8	4.1
130°	3.8	3.8	2.4	1.6	1.1	1.1	0.8	1.1	2.4	3.8	3.8
132.5°	3.5	3.3	2.1	1.3	1.1	0.8	0.8	0.8	2.1	3.3	3.5
135°	2.9	2.7	1.8	1.1	0.8	0.8	0.5	0.8	1.8	2.9	2.9
137.5°	2.4	2.4	1.8	1.1	0.8	0.5	0.5	0.8	1.8	2.7	2.9
140°	2.1	1.8	1.3	0.8	0.5	0.5	0.5	0.8	1.6	2.1	2.4
142.5°	1.6	1.6	1.1	0.8	0.5	0.5	0.2	0.5	1.3	1.8	1.8
145°	1.3	1.3	1.1	0.5	0.5	0.2	0.2	0.2	1.1	1.3	1.6
147.5°	1.1	1.1	0.8	0.5	0.2	0.2	0.0	0.2	0.8	1.1	1.1
150°	0.8	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.2	0.5	0.5
152.5°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	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)