

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: P266281

Luminaire Tested: **UTLD-AF24-20-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.9 lumens
Efficiency: N/A
Efficacy: 91.1 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 - U2 - G1

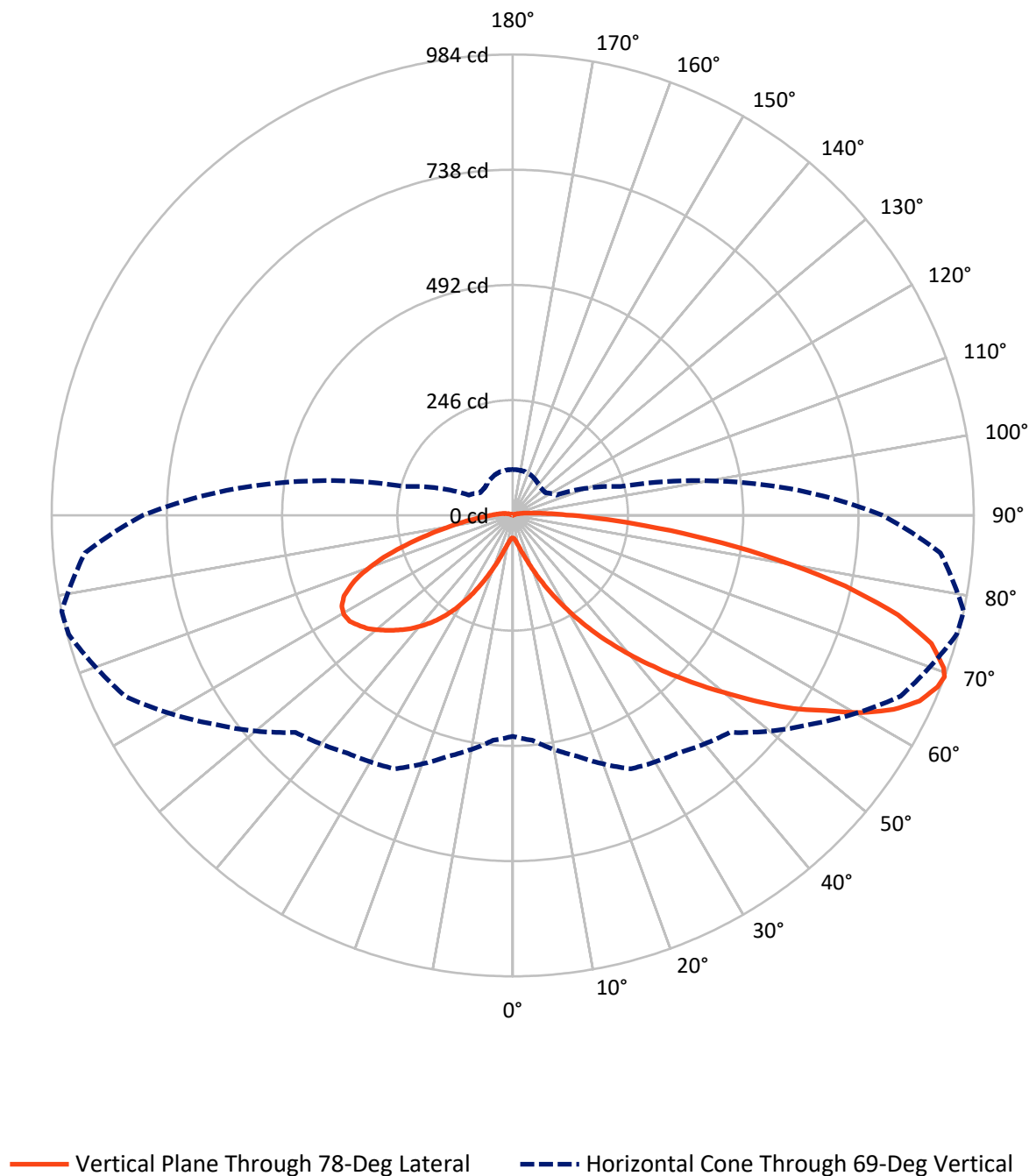
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



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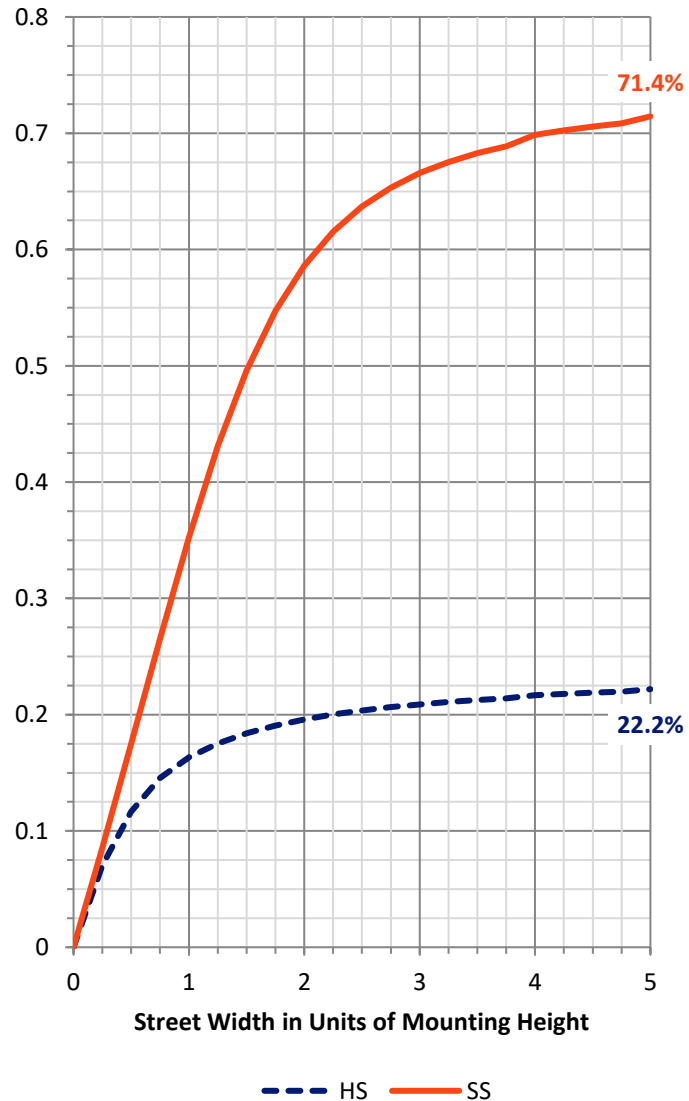
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.4	33.4	477.7
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	1398.5	36.7	1435.1
	% Fixture	73.1	1.9	75.0
Total	Lumens	1842.8	70.0	1912.9
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.3
10°-20°	24.6	1.3
20°-30°	70.1	3.7
30°-40°	149.0	7.8
40°-50°	258.2	13.5
50°-60°	386.6	20.2
60°-70°	460.2	24.1
70°-80°	351.0	18.4
80°-90°	137.9	7.2
90°-100°	40.5	2.1
100°-110°	16.4	0.9
110°-120°	7.4	0.4
120°-130°	3.6	0.2
130°-140°	1.7	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°	1842.8	96.3
0°-180°	1912.9	100.0

Coefficient of Utilization



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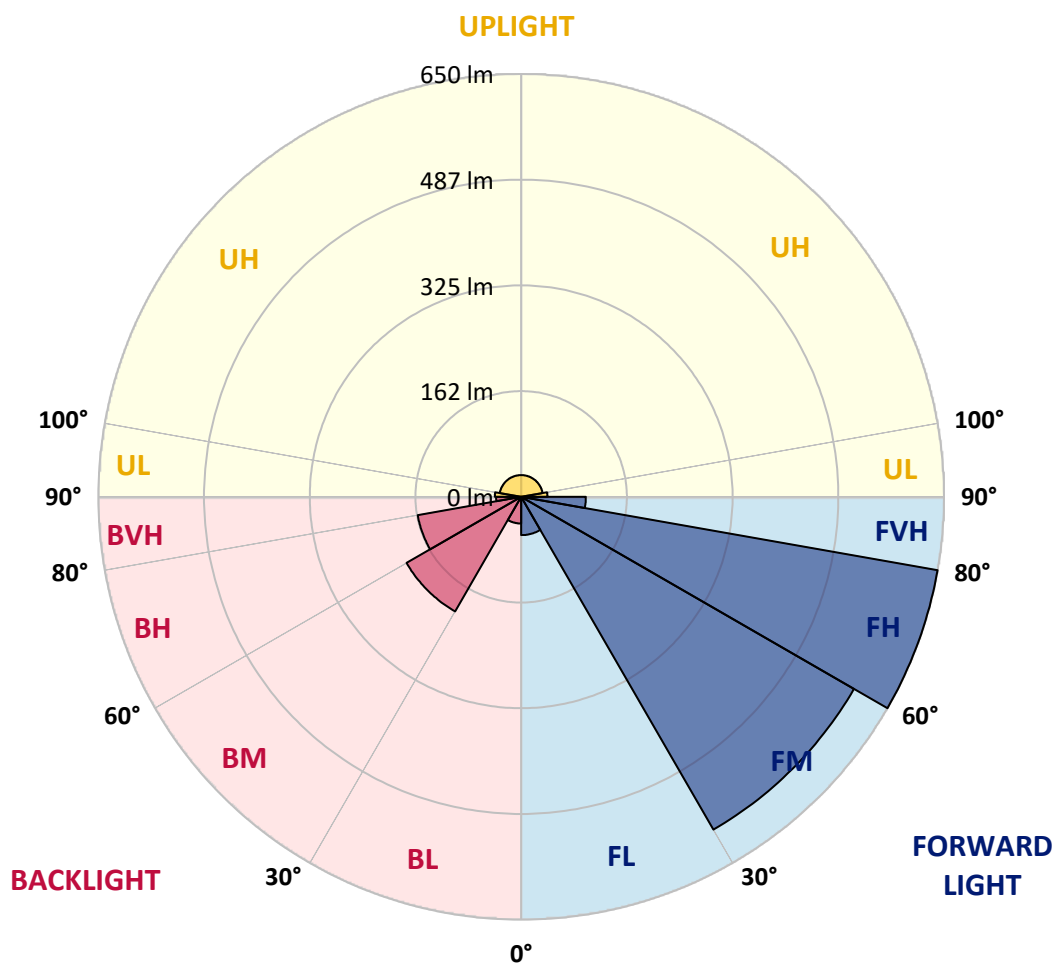
CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.9	3.1			
FM	(30°-60°)	590.5	30.9			
FH	(60°-80°)	649.8	34.0			G0/660
FVH	(80°-90°)	99.4	5.2			G1/100
BL	(0°-30°)	41.1	2.1	B0/110		
BM	(30°-60°)	203.3	10.6	B0/220		
BH	(60°-80°)	161.4	8.4	B1/500		G1/500
BVH	(80°-90°)	38.5	2.0			G1/100
UL	(90°-100°)	40.5	2.1		U2/50	
UH	(100°-180°)	33.4	1.7		U2/50	

BUG Rating: B1-U2-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	51.9	51.9	51.7	51.7	51.5	50.9	50.2	49.8	49.4	49.4	49.0
5°	57.8	57.8	57.2	57.2	56.6	55.8	54.8	53.5	52.9	52.6	51.9
7.5°	65.4	65.1	64.9	64.3	63.5	62.1	60.8	59.6	58.2	58.0	57.0
10°	75.4	74.9	74.9	73.9	72.5	70.7	68.6	67.0	65.4	65.1	64.3
12.5°	88.5	87.9	87.1	85.2	83.1	80.4	78.5	76.7	75.4	74.9	73.7
15°	103.8	103.7	101.7	99.3	95.4	91.9	89.8	88.5	87.9	87.5	86.1
17.5°	123.2	122.0	120.1	115.3	110.1	105.3	103.3	103.7	103.8	103.8	102.9
20°	144.6	144.2	141.3	134.7	127.7	121.7	120.1	121.5	123.3	123.3	123.2
22.5°	173.0	171.4	166.1	156.9	147.1	141.0	138.6	141.8	147.1	147.3	148.3
25°	203.8	203.3	194.9	181.4	168.8	161.5	159.9	163.8	173.5	174.1	176.7
27.5°	238.1	237.0	229.2	210.2	193.7	183.1	182.4	190.8	201.2	204.9	208.6
30°	279.6	278.5	263.7	241.7	221.7	207.7	208.0	218.7	234.7	238.0	243.4
32.5°	322.6	321.5	306.2	278.7	252.2	234.7	235.3	251.3	269.8	273.7	279.6
35°	372.2	371.7	351.6	317.8	284.3	263.3	266.8	284.0	306.7	313.0	318.3
37.5°	425.7	420.4	401.0	361.5	319.4	296.6	299.2	322.1	349.0	351.9	357.2
40°	479.6	478.3	455.0	410.7	360.1	331.6	335.2	361.1	390.0	395.3	398.2
42.5°	536.4	535.8	508.4	460.0	402.1	370.2	373.6	403.1	435.4	440.4	442.0
45°	596.7	593.4	566.1	511.9	450.6	411.2	417.4	447.7	486.0	490.0	490.7
47.5°	648.7	644.4	623.9	567.5	498.0	455.7	460.3	498.2	538.4	542.7	541.0
50°	695.5	693.6	672.8	623.1	549.9	500.6	507.2	548.4	593.6	598.9	597.3
52.5°	726.2	725.0	716.6	668.5	595.5	546.4	555.7	600.5	654.0	661.7	652.8
55°	741.5	741.5	743.1	708.4	637.3	589.9	604.2	658.5	716.8	727.6	715.1
57.5°	740.3	738.8	752.8	735.6	669.4	625.0	652.8	720.1	781.3	785.6	779.1
60°	712.6	717.2	741.9	745.1	692.4	656.1	699.2	777.2	842.8	854.5	834.6
62.5°	668.7	677.4	713.4	734.2	698.6	678.4	738.9	827.1	900.1	911.9	883.7
65°	608.2	617.0	661.2	701.3	686.1	685.9	766.3	872.9	945.7	954.2	916.2
67.5°	532.1	534.9	585.9	643.5	650.6	674.4	779.3	904.1	978.9	977.4	927.9
69°	471.4	481.9	532.1	596.6	618.3	654.8	776.9	912.9	980.7	983.6	916.2
70°	440.8	442.7	492.2	557.6	595.5	636.9	768.7	910.9	977.5	975.4	902.9
72.5°	342.3	346.0	391.5	462.6	515.1	577.4	728.3	878.4	939.6	934.1	834.6
75°	244.2	250.6	292.5	359.3	421.5	499.8	654.0	808.4	861.7	848.9	736.3
77.5°	166.6	173.5	204.5	265.9	327.7	413.2	551.6	702.2	738.9	725.7	601.9
80°	107.0	111.6	136.3	184.7	243.7	317.3	439.4	562.7	595.2	571.6	460.0
82.5°	70.7	73.7	90.8	125.1	170.5	234.0	325.7	420.4	435.0	420.0	322.4
85°	47.8	49.8	62.1	85.0	119.6	164.7	230.7	292.5	304.3	283.5	215.0
87.5°	32.9	34.8	44.6	59.4	83.1	115.0	154.6	196.5	193.0	183.3	140.3
90°	23.4	25.2	32.1	42.3	58.7	79.9	103.1	124.3	123.8	114.4	89.7
92.5°	16.9	18.3	24.4	31.6	43.5	56.1	69.6	78.2	78.2	74.4	59.4
95°	12.8	13.7	18.5	24.2	32.6	41.5	48.6	53.1	52.1	49.2	42.9
97.5°	10.2	10.9	14.7	19.6	25.8	32.1	36.2	36.7	36.0	35.0	31.9
100°	8.4	9.0	12.2	16.3	21.5	26.1	27.9	27.3	26.3	26.1	24.4
102.5°	7.2	7.5	10.6	14.3	18.3	21.6	22.5	21.3	20.0	19.9	19.0
105°	6.5	6.5	9.3	12.2	15.7	18.1	18.5	17.2	15.5	15.0	14.7
107.5°	5.7	6.1	7.9	10.9	13.6	15.5	15.5	13.7	11.9	11.4	11.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	5.3	5.3	6.9	9.6	11.9	13.2	13.0	11.0	9.3	8.8	9.0
112.5°	4.9	4.9	6.3	8.4	10.4	11.4	10.9	9.0	7.2	6.9	6.9
115°	4.6	4.6	5.6	7.5	9.0	9.6	9.3	7.2	5.7	5.6	5.7
117.5°	4.1	4.3	5.1	6.5	7.7	8.4	7.7	6.1	4.9	4.6	5.1
120°	3.9	4.1	4.6	5.6	6.7	7.2	6.3	5.1	4.1	4.1	4.3
122.5°	3.7	3.9	4.1	5.1	5.7	6.1	5.3	4.1	3.4	3.7	3.9
125°	3.7	3.7	3.9	4.3	5.1	5.1	4.3	3.4	3.1	3.1	3.4
127.5°	3.4	3.4	3.4	3.9	4.3	4.3	3.7	3.0	2.6	3.0	3.1
130°	3.1	3.1	3.1	3.4	3.7	3.7	3.1	2.4	2.4	2.4	2.6
132.5°	3.0	3.0	3.0	3.0	3.1	3.0	2.4	1.9	2.2	2.2	2.4
135°	2.6	2.6	2.6	2.6	2.4	2.2	1.6	1.6	1.9	1.9	2.2
137.5°	2.4	2.4	2.4	2.2	1.9	1.6	1.4	1.4	1.6	1.6	1.9
140°	2.2	2.2	2.2	1.6	1.4	1.2	1.0	1.0	1.4	1.4	1.4
142.5°	1.9	1.9	1.6	1.4	1.2	0.7	0.4	0.7	1.0	1.0	1.2
145°	1.4	1.4	1.4	1.2	0.7	0.4	0.2	0.4	0.7	0.7	1.0
147.5°	1.2	1.2	1.2	1.0	0.4	0.2	0.2	0.2	0.4	0.4	0.7
150°	1.0	1.0	0.7	0.7	0.2	0.0	0.0	0.2	0.2	0.4	0.4
152.5°	0.7	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.2	0.2	0.2
155°	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.2	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°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	48.8	48.6	48.2	47.8	47.6	47.2	46.6	46.2	46.2	46.2	46.0
5°	51.7	51.3	50.5	49.4	48.8	48.1	47.3	46.6	46.4	46.2	46.2
7.5°	56.2	55.8	54.3	53.1	51.7	50.8	49.4	49.0	48.6	48.2	48.2
10°	63.3	62.3	60.4	58.4	56.8	54.8	53.5	52.9	52.1	51.9	52.1
12.5°	72.8	71.0	68.6	65.7	62.8	60.4	58.8	58.2	58.0	57.8	57.8
15°	85.8	84.5	79.7	74.6	70.4	67.2	65.1	64.5	65.9	66.5	66.5
17.5°	102.6	100.5	94.7	87.7	79.2	74.1	72.8	73.9	75.1	76.5	76.7
20°	123.6	120.1	112.6	101.1	89.8	82.6	81.3	82.9	85.8	87.7	87.9
22.5°	146.7	144.2	132.6	115.7	100.5	91.9	89.3	91.5	96.1	98.8	99.1
25°	176.1	172.1	154.8	131.6	111.6	99.7	96.6	99.7	105.3	109.5	109.7
27.5°	208.1	202.2	179.4	147.5	121.0	106.3	102.3	106.4	113.9	118.8	119.4
30°	241.6	233.0	203.8	162.6	129.4	110.6	106.4	111.6	120.1	125.7	126.3
32.5°	276.5	266.3	226.4	175.6	134.9	113.0	108.7	114.8	123.6	129.4	130.2
35°	312.3	299.4	247.4	185.1	137.7	113.5	109.0	115.7	124.3	130.4	131.2
37.5°	349.9	331.0	265.7	191.5	138.1	112.1	107.9	114.8	122.9	128.5	128.9
40°	386.5	361.9	281.1	194.5	136.5	110.0	105.6	112.6	119.6	123.6	124.1
42.5°	426.4	395.3	294.6	194.5	133.0	107.2	102.9	109.5	115.0	117.9	118.0
45°	467.3	428.8	305.2	192.0	128.6	103.8	100.3	106.0	110.3	111.6	111.6
47.5°	514.4	463.6	315.1	187.8	123.8	100.5	97.6	102.9	106.0	106.0	106.3
50°	561.7	500.4	322.6	182.0	118.3	97.6	95.4	100.5	102.9	101.4	101.4
52.5°	613.0	538.1	329.7	174.6	113.2	95.0	94.0	99.3	101.0	98.8	98.3
55°	664.7	573.6	331.0	165.2	107.4	92.7	93.2	98.3	100.0	97.6	97.3
57.5°	719.9	609.9	330.8	154.2	102.3	91.1	92.4	98.1	99.7	97.3	97.0
60°	762.8	638.8	323.1	143.0	97.8	89.3	92.3	97.8	99.7	97.8	97.8
62.5°	801.3	655.7	308.7	131.0	93.5	88.2	91.5	97.3	99.3	98.3	98.3
65°	819.0	660.6	286.4	119.0	89.8	86.6	91.1	96.6	98.8	98.5	98.8
67.5°	808.0	638.1	256.9	108.4	86.4	85.0	89.8	95.4	97.8	98.3	98.5
69°	789.3	613.0	238.6	102.9	84.5	83.8	88.8	94.2	97.0	97.8	97.8
70°	772.5	591.4	223.4	99.5	83.1	83.1	88.5	93.5	96.4	97.0	97.3
72.5°	692.0	521.3	188.9	90.5	79.9	80.7	86.0	91.1	94.2	95.0	95.0
75°	592.9	427.8	153.8	83.1	76.4	78.1	83.1	87.9	90.8	91.5	91.3
77.5°	472.1	331.6	124.9	76.5	72.3	73.9	79.2	83.8	86.6	87.1	86.1
80°	352.3	241.7	101.1	69.8	67.5	69.6	74.4	78.2	81.1	81.3	79.9
82.5°	244.2	174.6	82.4	63.3	62.1	63.8	68.1	71.4	74.1	73.4	72.8
85°	162.8	119.7	67.5	56.1	56.1	58.0	61.2	63.3	65.9	64.9	63.5
87.5°	107.2	82.6	55.2	49.0	49.4	51.3	53.5	54.3	56.8	56.1	54.3
90°	72.8	59.4	45.5	42.3	42.9	44.6	46.0	46.0	47.6	46.4	45.6
92.5°	51.7	45.5	37.9	36.6	37.2	38.6	38.8	37.9	39.3	38.6	37.6
95°	38.8	35.8	32.1	31.4	32.3	33.3	33.1	31.6	32.1	31.6	31.4
97.5°	30.3	29.3	27.3	26.8	27.8	28.4	27.9	26.3	26.6	26.1	25.6
100°	24.4	23.6	23.1	23.1	24.0	24.2	23.4	22.0	21.6	21.0	21.3
102.5°	19.4	19.4	19.6	20.0	20.5	20.5	19.6	18.3	17.8	17.2	17.2
105°	15.2	15.5	16.3	16.7	17.2	17.2	16.2	15.2	14.3	13.6	13.6
107.5°	11.9	12.2	13.2	14.1	14.6	14.3	13.6	12.5	11.4	10.6	10.6



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CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.4	9.9	10.9	11.9	12.0	12.0	11.4	10.2	8.8	8.4	8.4
112.5°	7.7	7.9	9.3	9.9	10.2	10.2	9.4	8.4	6.9	6.7	6.7
115°	6.3	6.5	7.5	8.3	8.4	8.4	7.9	6.9	5.6	5.6	5.6
117.5°	5.3	5.6	6.3	6.9	7.2	7.2	6.5	5.6	4.6	4.6	4.6
120°	4.6	4.9	5.3	5.7	6.1	6.1	5.6	4.6	3.9	3.9	3.9
122.5°	4.1	4.3	4.6	5.1	5.3	5.3	4.6	3.7	3.4	3.4	3.4
125°	3.7	3.9	4.1	4.3	4.6	4.3	3.9	3.1	3.0	3.1	3.1
127.5°	3.1	3.4	3.7	3.7	3.9	3.7	3.1	2.6	2.4	2.6	2.6
130°	3.0	3.0	3.1	3.1	3.4	3.1	2.6	2.2	2.2	2.4	2.4
132.5°	2.6	2.6	2.6	2.6	3.0	2.6	2.2	1.6	1.9	2.2	2.2
135°	2.2	2.2	2.4	2.2	2.4	1.9	1.6	1.4	1.6	1.9	1.9
137.5°	1.9	1.9	1.9	1.9	1.6	1.6	1.2	1.2	1.4	1.6	1.4
140°	1.6	1.6	1.6	1.4	1.4	1.2	1.0	1.0	1.2	1.2	1.2
142.5°	1.2	1.2	1.2	1.2	1.0	0.7	0.4	0.7	0.7	1.0	1.0
145°	1.0	1.0	1.0	0.7	0.4	0.4	0.2	0.4	0.4	0.7	0.7
147.5°	0.7	0.7	0.7	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.4
150°	0.4	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.2	0.2	0.2
152.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.2	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)