

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: P240577

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
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-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2146.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - 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



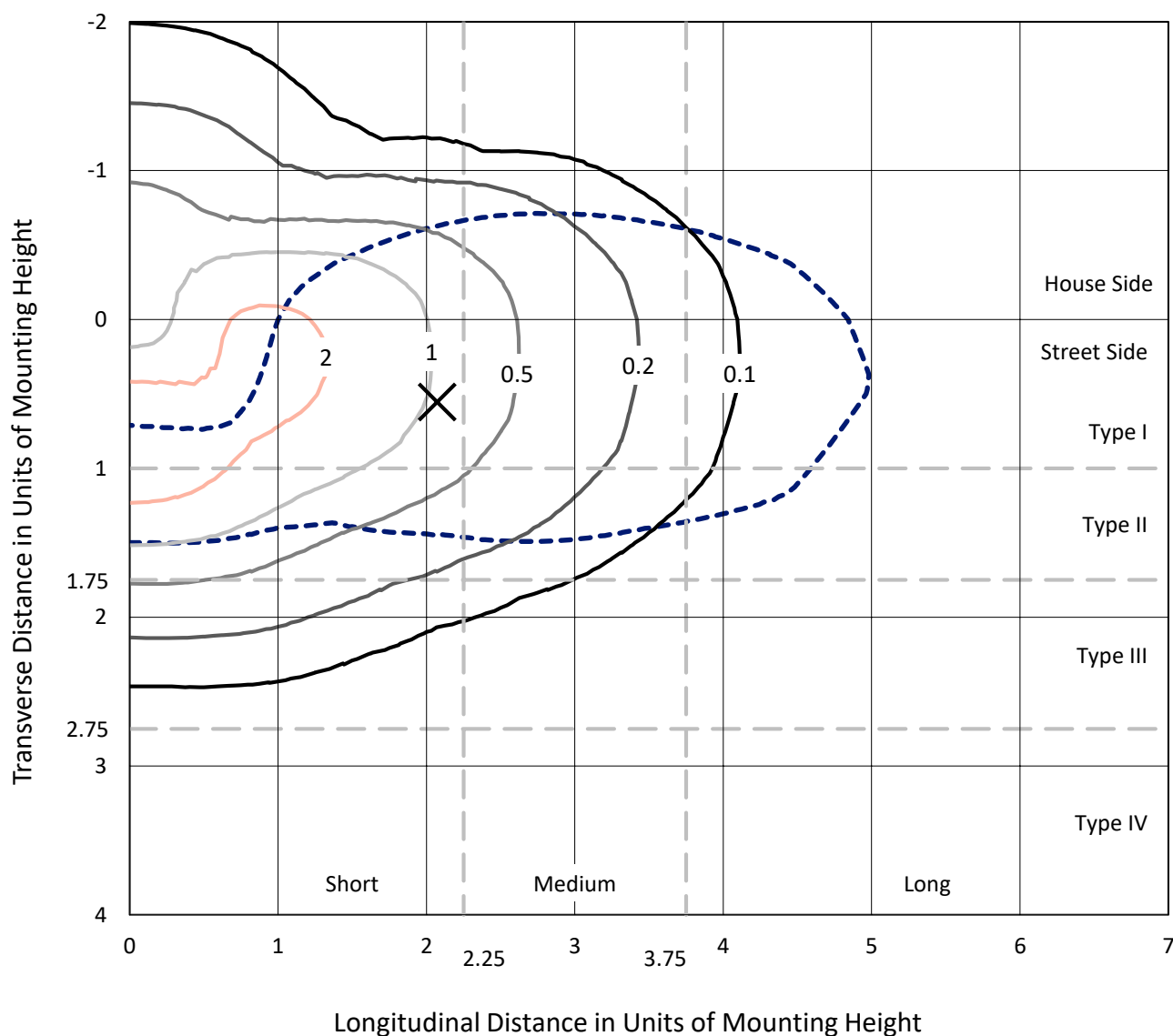
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

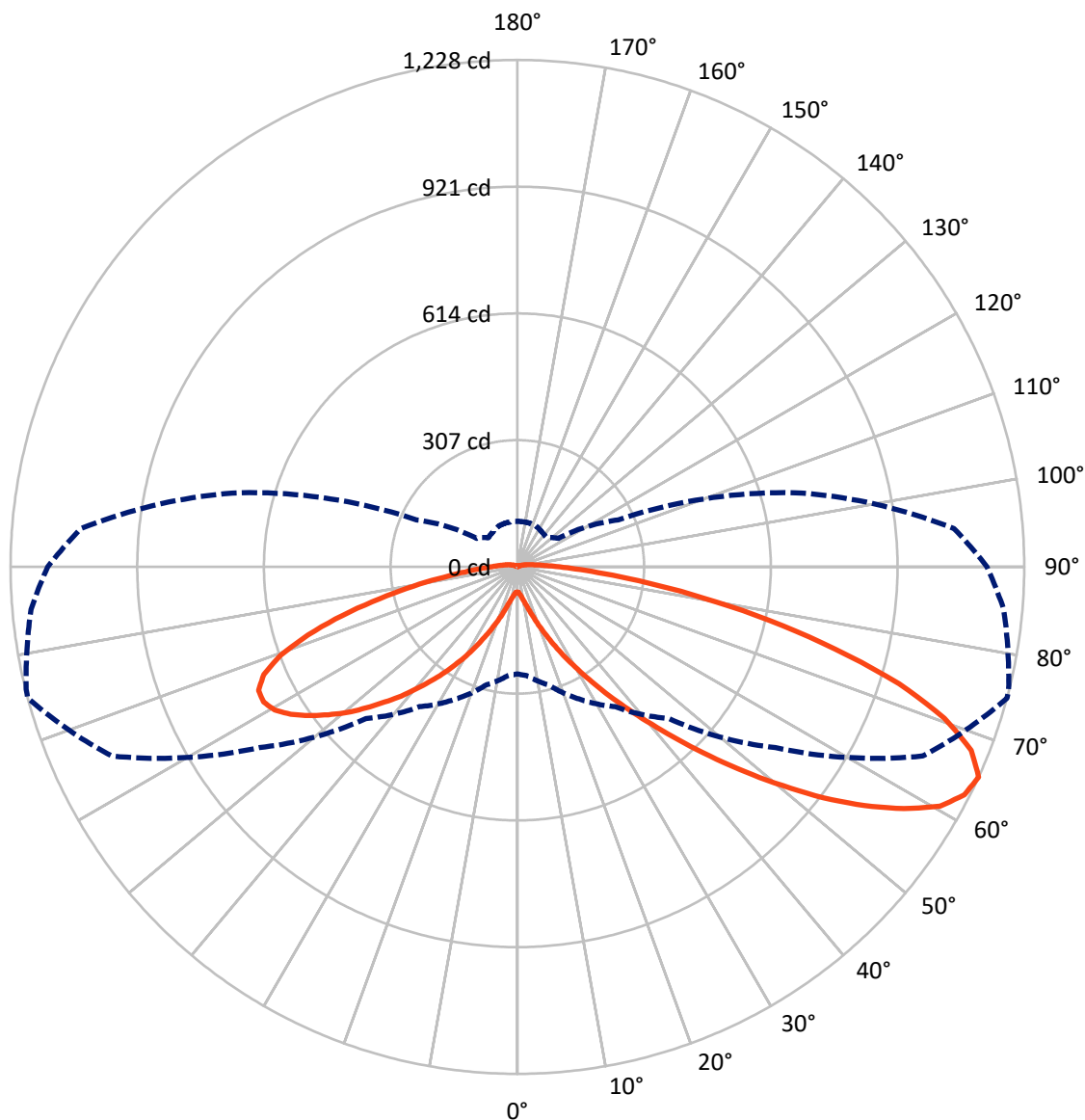


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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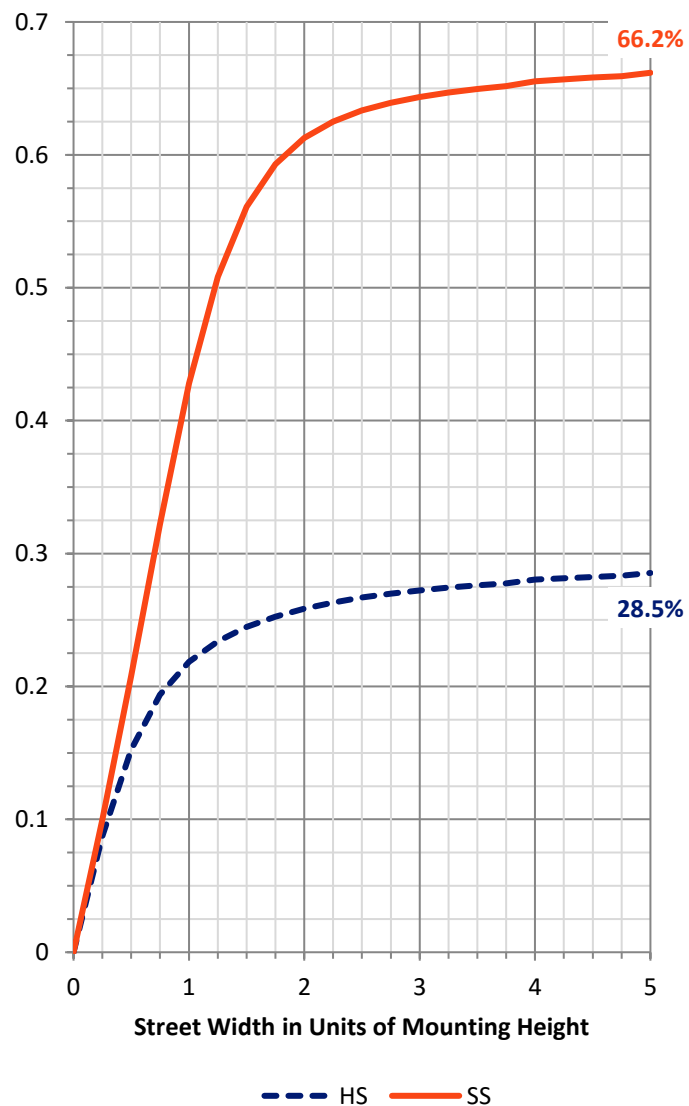
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.9	38.0	671.9
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	1440.8	34.2	1475.0
	% Fixture	67.1	1.6	68.7
Total	Lumens	2074.7	72.2	2146.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.3
10°-20°	31.1	1.4
20°-30°	90.5	4.2
30°-40°	203.1	9.5
40°-50°	361.4	16.8
50°-60°	491.1	22.9
60°-70°	476.9	22.2
70°-80°	300.6	14.0
80°-90°	113.4	5.3
90°-100°	38.6	1.8
100°-110°	17.5	0.8
110°-120°	8.4	0.4
120°-130°	4.4	0.2
130°-140°	2.3	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2074.7	96.6
0°-180°	2146.9	100.0

Coefficient of Utilization



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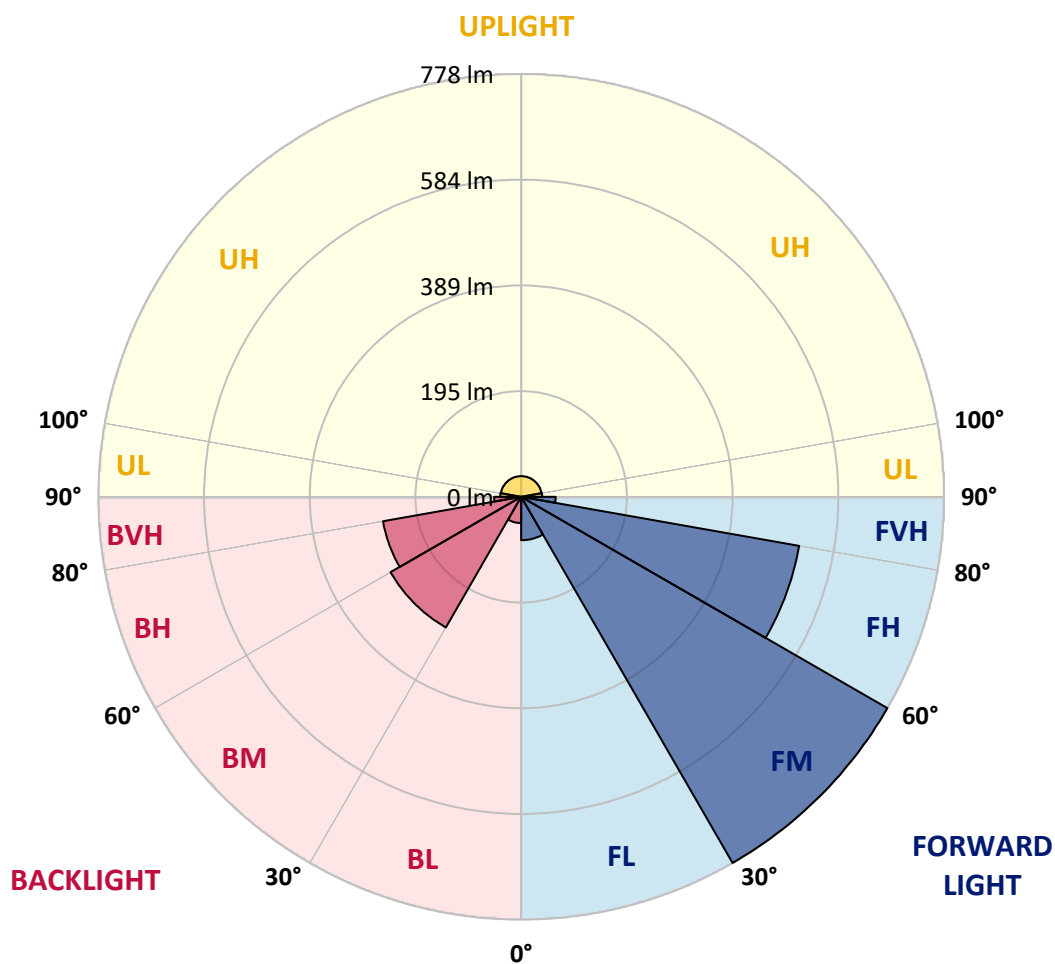
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.0	3.7			
FM	(30°-60°)	778.1	36.2			
FH	(60°-80°)	519.3	24.2			G0/660
FVH	(80°-90°)	63.4	3.0			G1/100
BL	(0°-30°)	48.3	2.3	B0/110		
BM	(30°-60°)	277.5	12.9	B1/1000		
BH	(60°-80°)	258.2	12.0	B1/500		G1/500
BVH	(80°-90°)	49.9	2.3			G1/100
UL	(90°-100°)	38.6	1.8		U2/50	
UH	(100°-180°)	38.0	1.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	66.4	66.1	66.1	66.1	65.5	65.1	64.3	63.7	63.0	62.6	62.4
5°	73.4	73.4	73.1	72.8	72.3	71.0	69.6	68.7	67.2	66.9	65.9
7.5°	84.4	84.1	83.9	82.6	81.7	79.9	77.7	76.1	73.6	73.6	72.1
10°	99.0	98.5	97.6	96.2	93.3	90.9	88.5	85.5	83.0	82.8	80.5
12.5°	116.2	116.2	115.0	112.4	108.6	105.1	101.1	97.9	94.6	94.4	92.3
15°	139.9	140.1	136.6	132.5	127.2	121.9	116.7	113.7	110.1	110.8	107.8
17.5°	169.2	168.6	165.6	157.6	148.7	141.7	135.8	132.5	129.6	129.9	127.8
20°	206.0	205.4	200.3	189.6	175.1	164.6	157.6	155.3	153.8	153.0	150.9
22.5°	251.4	248.7	238.5	224.5	207.0	192.0	184.4	181.3	180.8	181.0	178.8
25°	302.2	301.1	288.2	265.9	243.3	224.0	212.4	211.9	212.7	211.3	211.3
27.5°	364.1	361.1	346.1	315.1	282.9	259.7	246.3	245.0	248.7	247.7	246.1
30°	436.4	431.8	411.4	371.9	330.5	299.6	284.0	284.0	288.0	288.0	287.5
32.5°	512.0	511.2	479.4	433.2	384.3	343.4	330.0	327.8	331.8	334.0	331.3
35°	596.9	590.8	554.2	501.7	438.5	393.7	377.0	379.9	383.2	383.4	379.1
37.5°	683.5	677.3	635.4	570.6	496.9	448.5	431.2	433.4	438.5	438.5	432.8
40°	757.7	750.9	709.8	642.3	561.4	509.5	491.2	497.4	501.0	502.3	493.1
42.5°	816.2	811.5	774.6	705.9	623.6	570.9	559.0	569.2	572.7	575.4	562.2
45°	849.2	845.1	819.6	757.5	675.7	632.2	634.2	646.7	653.4	650.4	636.2
47.5°	854.2	851.0	836.8	789.4	723.6	691.1	711.5	730.1	740.2	740.4	716.3
50°	822.5	823.9	824.2	796.9	750.5	738.9	783.5	825.2	833.0	828.7	800.3
52.5°	761.0	760.1	775.7	775.7	755.3	768.4	844.0	918.6	929.2	928.1	888.6
55°	669.5	670.3	699.4	722.2	729.8	774.6	893.5	1002.9	1020.7	1019.1	975.4
57.5°	555.8	563.6	599.3	643.2	677.3	748.3	916.3	1075.5	1104.6	1104.8	1052.1
60°	445.2	453.3	495.1	551.2	600.7	697.5	901.1	1113.2	1176.9	1174.0	1118.0
62.5°	340.2	348.4	388.5	452.6	510.0	616.3	848.8	1121.0	1215.4	1213.5	1165.4
65°	259.0	264.3	296.5	352.8	413.2	519.2	763.0	1083.9	1228.0	1226.7	1182.8
67.5°	193.6	196.0	226.7	272.0	324.5	420.0	644.5	994.6	1186.0	1187.4	1162.9
70°	148.9	150.6	172.8	212.4	251.4	328.4	522.1	865.8	1097.8	1101.4	1100.6
72.5°	118.3	120.7	138.4	167.2	195.5	248.7	403.8	700.5	967.2	974.5	996.2
75°	97.6	100.3	113.7	134.9	155.3	189.3	293.6	537.4	795.1	810.3	858.8
77.5°	80.7	83.4	94.6	111.3	124.0	144.7	215.1	397.3	624.6	631.1	695.1
80°	66.1	68.7	78.7	91.7	100.8	113.0	156.8	279.0	455.5	463.6	526.0
82.5°	52.7	54.8	64.3	74.8	82.3	90.5	116.2	191.2	317.3	323.2	364.4
85°	40.7	42.7	50.8	60.0	66.4	73.1	89.0	133.1	210.0	217.0	247.2
87.5°	30.4	32.2	39.0	46.8	53.5	59.1	68.7	92.0	140.1	146.0	160.3
90°	22.3	23.7	29.6	35.5	41.6	47.8	53.7	67.2	93.3	95.7	105.7
92.5°	16.7	17.5	22.3	27.5	33.4	38.7	42.5	49.5	65.5	65.9	72.8
95°	12.3	13.2	17.3	21.6	26.7	31.6	35.0	38.5	48.2	48.9	53.2
97.5°	10.0	10.3	13.7	17.5	21.8	26.1	28.7	30.7	36.8	37.7	40.7
100°	8.3	8.6	11.6	14.7	18.6	22.3	24.1	25.0	29.1	29.8	32.0
102.5°	7.2	7.2	10.0	12.9	16.2	18.8	20.2	20.6	23.4	23.4	25.0
105°	6.4	6.4	8.6	11.3	13.9	16.4	17.3	17.3	18.2	18.6	19.3
107.5°	5.9	5.9	7.7	10.3	12.3	14.2	14.7	14.2	14.5	14.5	15.1
110°	5.4	5.4	6.8	9.2	11.0	12.3	12.7	12.1	11.3	11.3	11.8



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CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	4.8	5.1	6.2	8.0	9.8	11.0	11.0	10.3	8.8	8.8	9.4
115°	4.6	4.6	5.7	7.2	8.6	9.8	9.8	8.6	7.2	7.0	7.5
117.5°	4.3	4.3	4.8	6.4	7.7	8.6	8.6	7.2	5.9	5.9	6.4
120°	4.1	4.1	4.6	5.9	7.0	7.7	7.5	6.4	5.1	5.1	5.7
122.5°	4.1	4.1	4.3	5.4	6.2	6.8	6.4	5.4	4.3	4.3	4.8
125°	3.8	3.8	4.1	4.8	5.7	6.2	5.7	4.6	4.1	4.1	4.3
127.5°	3.8	3.8	3.8	4.3	5.1	5.4	5.1	4.1	3.5	3.5	4.1
130°	3.5	3.5	3.8	4.1	4.6	4.8	4.3	3.5	3.3	3.3	3.8
132.5°	3.5	3.5	3.5	3.5	3.8	4.1	3.5	2.7	2.9	2.9	3.3
135°	3.3	3.3	3.3	3.3	3.5	3.5	2.9	2.4	2.7	2.7	2.9
137.5°	2.9	2.9	2.9	2.9	2.9	2.7	2.4	2.1	2.4	2.4	2.7
140°	2.7	2.7	2.7	2.4	2.1	2.1	1.8	1.6	1.8	1.8	2.1
142.5°	2.4	2.4	2.4	2.1	1.8	1.6	1.3	1.3	1.6	1.6	1.8
145°	2.1	2.1	1.8	1.6	1.3	1.1	0.8	1.1	1.3	1.3	1.6
147.5°	1.6	1.6	1.6	1.3	0.8	0.5	0.5	0.8	1.1	1.1	1.1
150°	1.3	1.3	1.3	1.1	0.5	0.2	0.2	0.5	0.5	0.5	0.8
152.5°	0.8	0.8	0.8	0.8	0.2	0.0	0.0	0.2	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.2
160°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0
162.5°	0.0	0.0	0.0	0.2	0.2	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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	62.1	61.8	61.3	60.7	60.2	59.6	59.1	58.9	58.4	58.4	58.4
5°	65.3	64.6	63.5	62.4	61.3	60.5	59.6	58.9	58.4	58.1	57.8
7.5°	71.2	70.2	68.3	66.6	64.8	63.2	61.8	60.7	60.2	60.0	60.0
10°	79.3	78.0	75.6	72.3	70.2	67.7	65.5	64.3	63.2	63.0	62.6
12.5°	90.0	88.7	84.6	81.2	77.1	73.4	71.0	69.4	68.7	68.3	68.3
15°	105.4	103.8	97.4	91.4	85.0	80.5	77.1	75.8	76.1	76.9	76.1
17.5°	124.4	122.1	114.5	104.9	95.2	88.2	85.2	85.5	86.6	87.4	87.1
20°	148.1	144.7	134.2	120.5	107.3	97.9	94.9	95.2	96.4	99.0	98.7
22.5°	175.8	170.5	157.0	138.4	119.9	109.2	103.8	104.6	107.5	110.1	110.1
25°	206.3	201.4	182.4	157.6	134.4	118.5	111.9	113.0	117.2	119.9	120.7
27.5°	242.2	234.7	211.1	178.8	148.1	127.0	118.5	119.1	124.4	128.0	128.5
30°	280.7	271.8	242.2	200.1	160.3	133.4	122.6	123.7	129.6	133.7	134.4
32.5°	324.0	313.5	274.8	222.4	171.5	137.1	124.8	125.8	131.9	136.6	137.1
35°	372.1	356.8	309.8	242.8	179.0	138.4	124.8	126.0	131.9	136.6	137.4
37.5°	421.0	403.8	343.9	262.4	183.7	137.4	122.9	124.4	129.9	134.2	134.9
40°	478.1	456.0	381.4	278.6	185.3	134.4	119.6	121.5	126.0	129.6	130.1
42.5°	543.1	512.0	420.5	292.3	182.8	130.7	116.5	118.5	122.4	124.8	125.0
45°	610.6	572.9	458.7	303.0	179.3	126.0	113.2	115.6	118.9	119.4	119.9
47.5°	683.5	641.6	500.4	309.5	173.1	121.3	110.8	113.2	115.4	115.0	115.4
50°	764.2	712.6	542.9	312.2	166.2	117.2	108.9	111.6	113.2	111.9	111.9
52.5°	842.9	790.3	581.6	313.2	158.4	113.5	107.5	110.8	111.6	110.3	110.3
55°	926.8	862.0	620.3	310.3	150.6	110.5	107.0	110.5	111.0	109.2	109.2
57.5°	1004.3	938.6	655.2	305.7	143.3	107.8	106.2	110.3	110.8	109.2	109.5
60°	1075.5	1003.8	682.5	298.2	135.5	105.1	105.7	110.3	110.8	109.7	110.3
62.5°	1119.2	1046.8	696.6	286.4	128.0	102.7	104.9	109.7	110.8	110.1	110.5
65°	1137.9	1062.1	694.8	269.5	120.7	99.8	103.2	108.6	110.1	110.1	110.5
67.5°	1123.6	1048.2	667.3	247.7	113.9	96.8	101.1	106.5	108.3	108.9	109.7
70°	1070.7	990.3	612.3	220.2	106.7	93.5	98.5	103.5	105.7	106.7	107.3
72.5°	965.0	893.2	533.9	192.9	99.2	89.6	94.4	99.2	101.6	103.0	103.0
75°	830.8	759.1	439.7	163.8	92.3	85.0	89.6	93.5	96.2	97.6	97.0
77.5°	668.4	601.5	341.4	134.2	84.6	79.5	83.9	87.4	89.6	90.5	89.3
80°	495.3	452.6	256.5	110.8	77.1	73.4	76.9	79.9	82.3	82.1	81.0
82.5°	351.2	310.9	179.6	92.0	69.6	66.6	69.4	71.2	72.8	72.3	70.5
85°	234.0	207.6	127.0	75.1	61.8	59.4	61.0	62.1	63.0	61.6	60.2
87.5°	152.2	135.5	91.4	61.8	53.5	51.9	52.7	53.0	53.2	51.9	50.3
90°	99.5	92.6	68.1	51.2	46.0	44.9	44.9	43.8	44.1	42.5	40.9
92.5°	70.2	65.9	53.0	41.9	39.3	38.5	38.1	36.8	36.6	35.0	33.9
95°	52.5	50.6	42.7	35.5	33.4	33.1	32.6	31.1	30.1	28.5	28.0
97.5°	40.9	40.1	35.2	30.4	28.7	28.2	28.0	26.3	25.5	23.9	23.4
100°	32.6	32.6	29.6	26.1	24.7	24.5	24.1	22.6	21.8	20.2	19.8
102.5°	26.1	26.3	24.7	22.6	21.6	21.0	20.4	19.3	18.0	16.9	16.9
105°	20.4	21.0	20.4	19.1	18.6	18.0	17.5	16.4	15.1	13.9	13.9
107.5°	16.2	16.7	16.7	16.4	15.7	15.3	15.1	13.7	12.7	11.6	11.6
110°	12.3	13.2	13.7	13.7	13.7	13.2	12.7	11.8	10.5	9.8	9.8



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CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	10.0	10.5	11.3	11.6	11.6	11.6	11.0	9.8	8.6	8.0	8.3
115°	8.0	8.6	9.4	10.0	10.0	10.0	9.2	8.3	7.2	7.0	7.0
117.5°	6.8	7.2	7.7	8.6	8.6	8.6	8.0	7.0	5.9	5.9	5.9
120°	5.9	6.2	7.0	7.2	7.5	7.5	7.0	5.9	5.1	5.1	5.4
122.5°	5.1	5.4	5.9	6.4	6.8	6.4	5.9	4.8	4.3	4.6	4.6
125°	4.6	4.8	5.1	5.7	5.9	5.7	5.1	4.1	3.8	4.1	4.1
127.5°	4.3	4.3	4.6	4.8	5.1	4.8	4.3	3.5	3.3	3.8	3.8
130°	3.8	4.1	4.1	4.3	4.3	4.3	3.8	2.9	2.9	3.3	3.3
132.5°	3.5	3.5	3.5	3.8	3.8	3.5	2.9	2.4	2.7	2.9	2.9
135°	2.9	3.3	3.3	3.3	3.3	2.9	2.4	2.1	2.4	2.7	2.7
137.5°	2.7	2.7	2.7	2.7	2.7	2.4	2.1	1.8	2.1	2.1	2.1
140°	2.1	2.4	2.4	2.1	2.1	1.8	1.6	1.3	1.6	1.8	1.8
142.5°	1.8	1.8	1.8	1.8	1.6	1.3	1.1	1.1	1.3	1.3	1.3
145°	1.6	1.6	1.6	1.3	1.1	1.1	0.8	0.8	1.1	1.1	1.3
147.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.5	0.5	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.2	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
162.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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)