

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: P240415

Luminaire Tested: **UTLD-AF24-20-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240415
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2129.4 lumens
Efficiency: N/A
Efficacy: 101.4 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 - G2

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



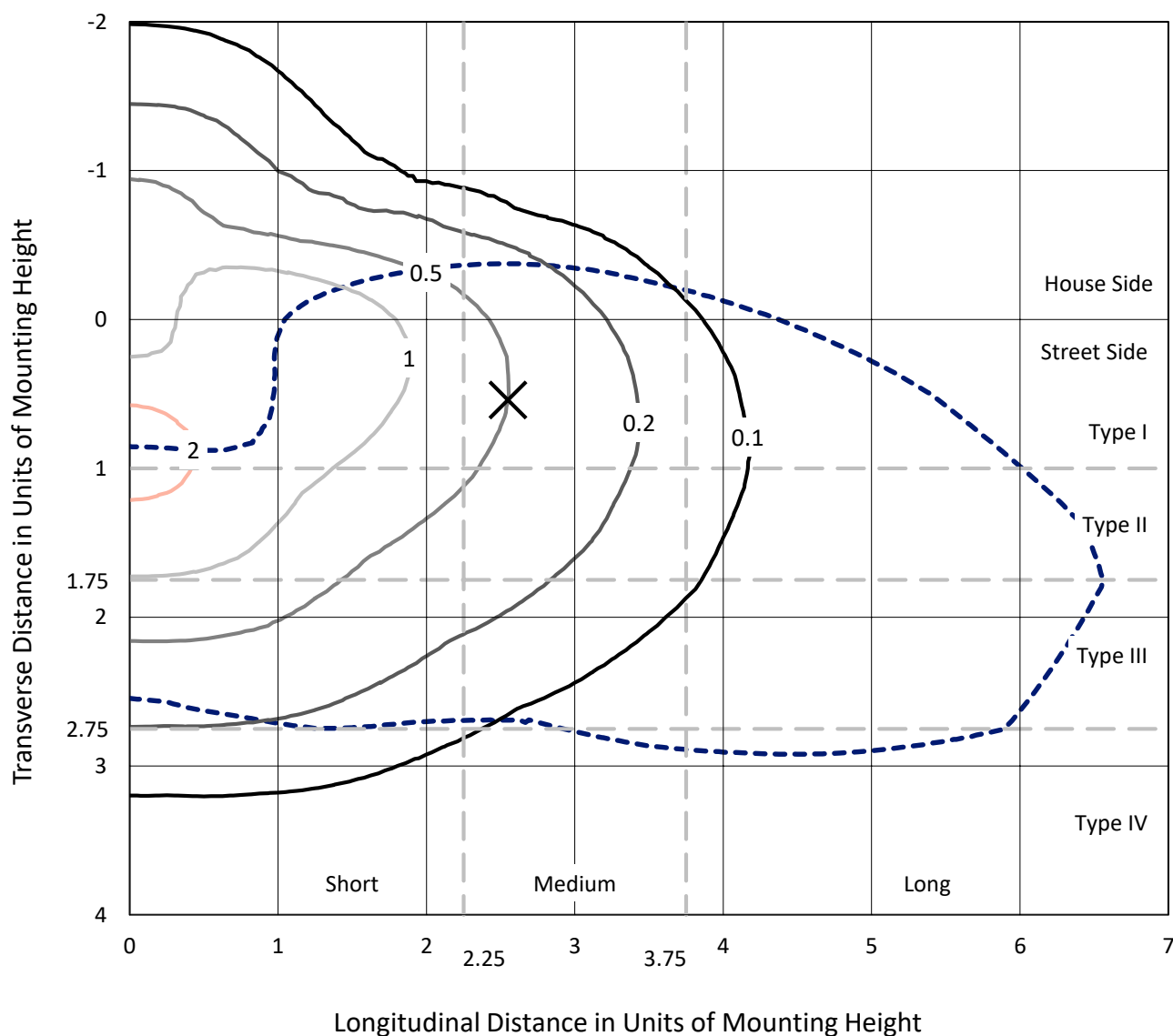
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

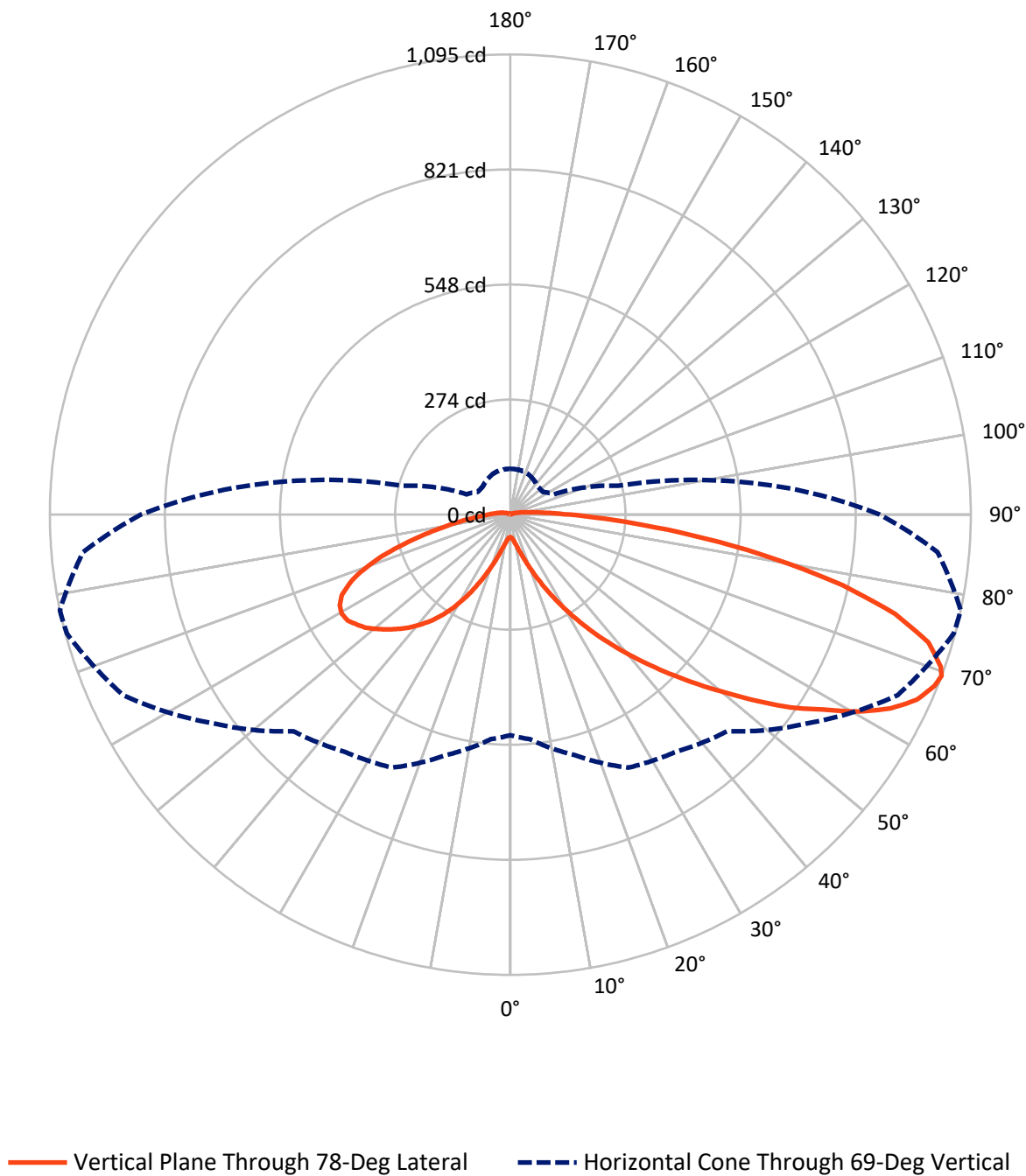


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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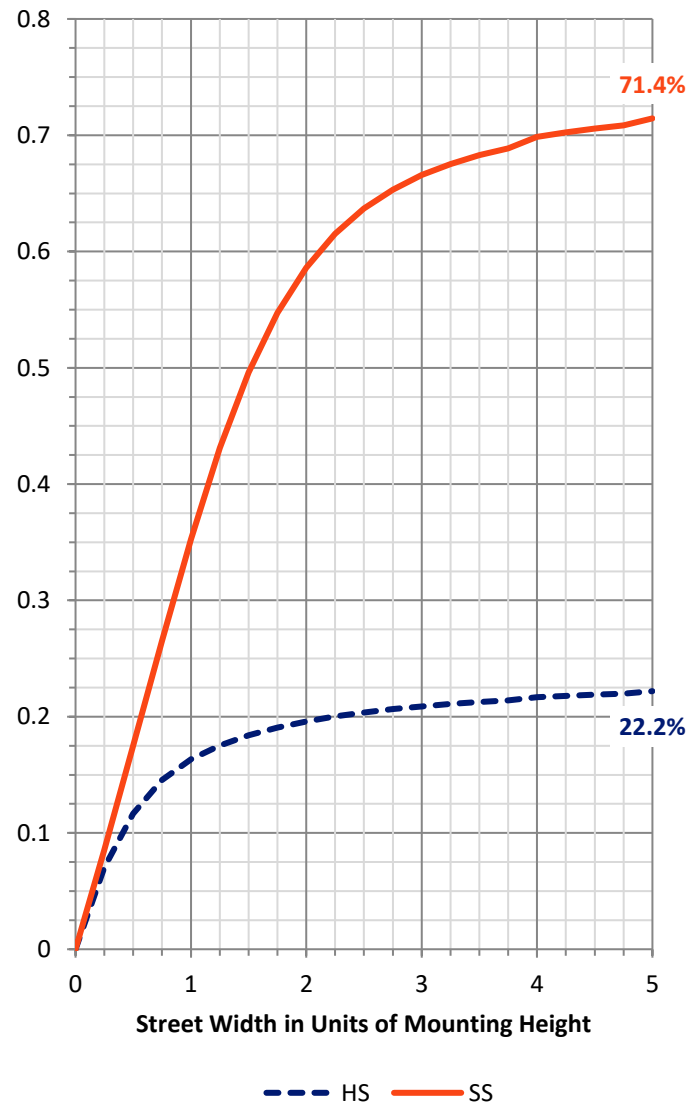
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.7	37.1	531.8
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	1556.8	40.8	1597.6
	% Fixture	73.1	1.9	75.0
Total	Lumens	2051.5	77.9	2129.4
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.3
10°-20°	27.3	1.3
20°-30°	78.0	3.7
30°-40°	165.8	7.8
40°-50°	287.5	13.5
50°-60°	430.4	20.2
60°-70°	512.3	24.1
70°-80°	390.7	18.4
80°-90°	153.5	7.2
90°-100°	45.1	2.1
100°-110°	18.2	0.9
110°-120°	8.2	0.4
120°-130°	4.0	0.2
130°-140°	1.8	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2051.5	96.3
0°-180°	2129.4	100.0

Coefficient of Utilization



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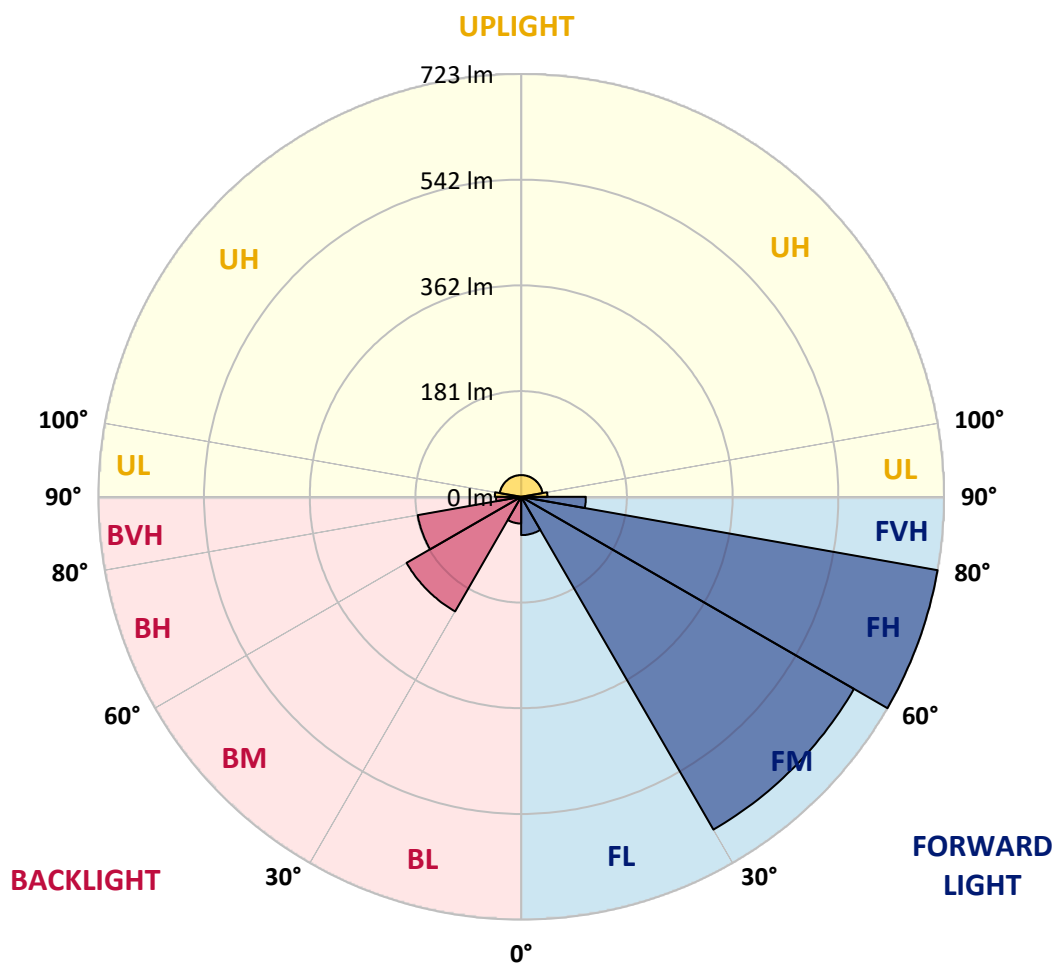
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	65.5	3.1			
FM	(30°-60°)	657.3	30.9			
FH	(60°-80°)	723.3	34.0			G1/1800
FVH	(80°-90°)	110.6	5.2			G2/225
BL	(0°-30°)	45.7	2.1	B0/110		
BM	(30°-60°)	226.3	10.6	B1/1000		
BH	(60°-80°)	179.7	8.4	B1/500		G1/500
BVH	(80°-90°)	42.9	2.0			G1/100
UL	(90°-100°)	45.1	2.1		U2/50	
UH	(100°-180°)	37.1	1.7		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	57.8	57.8	57.6	57.6	57.3	56.7	55.9	55.4	55.0	55.0	54.5
5°	64.3	64.3	63.7	63.7	63.0	62.1	61.0	59.6	58.9	58.6	57.8
7.5°	72.8	72.5	72.3	71.6	70.7	69.1	67.7	66.4	64.8	64.6	63.5
10°	83.9	83.4	83.4	82.3	80.7	78.7	76.4	74.6	72.8	72.5	71.6
12.5°	98.5	97.9	97.0	94.9	92.5	89.5	87.4	85.4	83.9	83.4	82.0
15°	115.6	115.4	113.2	110.5	106.2	102.3	100.0	98.5	97.9	97.4	95.9
17.5°	137.1	135.8	133.7	128.3	122.6	117.2	115.0	115.4	115.6	115.6	114.5
20°	161.0	160.5	157.3	150.0	142.2	135.5	133.7	135.3	137.3	137.3	137.1
22.5°	192.6	190.8	184.9	174.7	163.7	157.0	154.3	157.8	163.7	164.0	165.1
25°	226.9	226.3	217.0	201.9	187.9	179.8	178.0	182.3	193.1	193.8	196.7
27.5°	265.1	263.8	255.1	234.0	215.6	203.8	203.0	212.4	224.0	228.1	232.2
30°	311.3	310.0	293.6	269.1	246.8	231.2	231.5	243.5	261.3	264.9	271.0
32.5°	359.1	357.9	340.9	310.3	280.7	261.3	261.9	279.8	300.3	304.7	311.3
35°	414.3	413.8	391.4	353.8	316.5	293.1	297.0	316.2	341.4	348.4	354.3
37.5°	473.9	468.0	446.4	402.4	355.6	330.2	333.1	358.6	388.5	391.7	397.6
40°	533.9	532.5	506.5	457.2	400.9	369.1	373.1	402.0	434.2	440.1	443.3
42.5°	597.1	596.5	566.0	512.1	447.6	412.1	415.9	448.7	484.7	490.3	492.0
45°	664.3	660.6	630.2	569.9	501.6	457.8	464.6	498.4	541.0	545.5	546.3
47.5°	722.1	717.3	694.5	631.7	554.4	507.3	512.4	554.6	599.3	604.1	602.2
50°	774.2	772.1	749.0	693.6	612.2	557.3	564.6	610.5	660.8	666.7	664.9
52.5°	808.4	807.1	797.7	744.2	662.9	608.3	618.6	668.5	728.0	736.6	726.7
55°	825.4	825.4	827.2	788.6	709.4	656.7	672.6	733.1	797.9	810.0	796.1
57.5°	824.1	822.4	838.0	818.9	745.2	695.8	726.7	801.6	869.7	874.5	867.3
60°	793.3	798.4	825.9	829.4	770.8	730.4	778.3	865.2	938.2	951.2	929.1
62.5°	744.4	754.1	794.2	817.3	777.7	755.2	822.6	920.7	1002.0	1015.1	983.7
65°	677.0	686.9	736.1	780.7	763.8	763.5	853.0	971.7	1052.8	1062.2	1019.9
67.5°	592.3	595.5	652.2	716.4	724.3	750.8	867.5	1006.5	1089.7	1088.0	1032.9
69°	524.8	536.4	592.3	664.1	688.3	728.9	864.9	1016.2	1091.7	1095.0	1019.9
70°	490.7	492.8	547.9	620.7	662.9	709.0	855.7	1014.0	1088.2	1085.8	1005.1
72.5°	381.0	385.2	435.8	515.0	573.4	642.8	810.8	977.8	1046.0	1039.9	929.1
75°	271.8	279.0	325.6	400.0	469.2	556.4	728.0	899.9	959.2	945.0	819.7
77.5°	185.5	193.1	227.7	296.0	364.8	460.0	614.0	781.7	822.6	807.9	670.0
80°	119.1	124.2	151.7	205.6	271.3	353.2	489.1	626.4	662.6	636.3	512.1
82.5°	78.7	82.0	101.1	139.3	189.8	260.5	362.6	468.0	484.2	467.5	358.9
85°	53.2	55.4	69.1	94.6	133.1	183.3	256.8	325.6	338.7	315.6	239.3
87.5°	36.6	38.7	49.7	66.1	92.5	128.0	172.1	218.8	214.8	204.1	156.2
90°	26.1	28.0	35.7	47.1	65.3	88.9	114.8	138.4	137.8	127.4	99.8
92.5°	18.8	20.4	27.2	35.2	48.4	62.4	77.5	87.1	87.1	82.8	66.1
95°	14.2	15.3	20.6	26.9	36.3	46.2	54.1	59.1	58.0	54.8	47.8
97.5°	11.3	12.1	16.4	21.8	28.7	35.7	40.3	40.9	40.1	39.0	35.5
100°	9.4	10.0	13.6	18.2	23.9	29.1	31.1	30.4	29.3	29.1	27.2
102.5°	8.0	8.3	11.8	15.9	20.4	24.1	25.0	23.7	22.3	22.1	21.2
105°	7.2	7.2	10.3	13.6	17.5	20.2	20.6	19.1	17.2	16.7	16.4
107.5°	6.4	6.8	8.8	12.1	15.1	17.2	17.2	15.3	13.2	12.7	12.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	5.9	5.9	7.7	10.7	13.2	14.7	14.5	12.3	10.3	9.8	10.0
112.5°	5.4	5.4	7.0	9.4	11.6	12.7	12.1	10.0	8.0	7.7	7.7
115°	5.1	5.1	6.2	8.3	10.0	10.7	10.3	8.0	6.4	6.2	6.4
117.5°	4.6	4.8	5.7	7.2	8.6	9.4	8.6	6.8	5.4	5.1	5.7
120°	4.3	4.6	5.1	6.2	7.5	8.0	7.0	5.7	4.6	4.6	4.8
122.5°	4.1	4.3	4.6	5.7	6.4	6.8	5.9	4.6	3.8	4.1	4.3
125°	4.1	4.1	4.3	4.8	5.7	5.7	4.8	3.8	3.5	3.5	3.8
127.5°	3.8	3.8	3.8	4.3	4.8	4.8	4.1	3.3	2.9	3.3	3.5
130°	3.5	3.5	3.5	3.8	4.1	4.1	3.5	2.7	2.7	2.7	2.9
132.5°	3.3	3.3	3.3	3.3	3.5	3.3	2.7	2.1	2.4	2.4	2.7
135°	2.9	2.9	2.9	2.9	2.7	2.4	1.8	1.8	2.1	2.1	2.4
137.5°	2.7	2.7	2.7	2.4	2.1	1.8	1.6	1.6	1.8	1.8	2.1
140°	2.4	2.4	2.4	1.8	1.6	1.3	1.1	1.1	1.6	1.6	1.6
142.5°	2.1	2.1	1.8	1.6	1.3	0.8	0.5	0.8	1.1	1.1	1.3
145°	1.6	1.6	1.6	1.3	0.8	0.5	0.2	0.5	0.8	0.8	1.1
147.5°	1.3	1.3	1.3	1.1	0.5	0.2	0.2	0.2	0.5	0.5	0.8
150°	1.1	1.1	0.8	0.8	0.2	0.0	0.0	0.2	0.2	0.5	0.5
152.5°	0.8	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.2	0.2	0.2
155°	0.5	0.5	0.5	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°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	54.3	54.1	53.7	53.2	53.0	52.5	51.9	51.4	51.4	51.4	51.2
5°	57.6	57.1	56.2	55.0	54.3	53.5	52.7	51.9	51.6	51.4	51.4
7.5°	62.6	62.1	60.5	59.1	57.6	56.5	55.0	54.5	54.1	53.7	53.7
10°	70.5	69.4	67.2	65.0	63.2	61.0	59.6	58.9	58.0	57.8	58.0
12.5°	81.0	79.0	76.4	73.1	69.9	67.2	65.5	64.8	64.6	64.3	64.3
15°	95.5	94.1	88.7	83.0	78.4	74.8	72.5	71.8	73.4	74.0	74.0
17.5°	114.2	111.9	105.4	97.6	88.2	82.5	81.0	82.3	83.6	85.2	85.4
20°	137.6	133.7	125.3	112.6	100.0	92.0	90.5	92.3	95.5	97.6	97.9
22.5°	163.3	160.5	147.6	128.8	111.9	102.3	99.4	101.9	107.0	110.0	110.3
25°	196.0	191.6	172.3	146.5	124.2	111.0	107.5	111.0	117.2	121.9	122.1
27.5°	231.7	225.1	199.7	164.2	134.7	118.3	113.9	118.5	126.8	132.3	132.9
30°	268.9	259.4	226.9	181.0	144.1	123.1	118.5	124.2	133.7	139.9	140.6
32.5°	307.8	296.5	252.0	195.5	150.2	125.8	121.0	127.8	137.6	144.1	144.9
35°	347.7	333.3	275.4	206.0	153.3	126.3	121.3	128.8	138.4	145.2	146.0
37.5°	389.5	368.5	295.8	213.2	153.7	124.8	120.1	127.8	136.8	143.0	143.5
40°	430.2	402.9	312.9	216.5	151.9	122.4	117.5	125.3	133.1	137.6	138.2
42.5°	474.7	440.1	328.0	216.5	148.1	119.3	114.5	121.9	128.0	131.2	131.4
45°	520.2	477.3	339.8	213.7	143.2	115.6	111.6	118.0	122.8	124.2	124.2
47.5°	572.6	516.1	350.8	209.1	137.8	111.9	108.6	114.5	118.0	118.0	118.3
50°	625.3	557.0	359.1	202.6	131.7	108.6	106.2	111.9	114.5	112.9	112.9
52.5°	682.4	599.0	367.0	194.4	126.0	105.7	104.6	110.5	112.4	110.0	109.4
55°	739.9	638.5	368.5	183.9	119.6	103.2	103.8	109.4	111.3	108.6	108.3
57.5°	801.4	679.0	368.3	171.7	113.9	101.4	102.9	109.2	111.0	108.3	108.0
60°	849.1	711.1	359.7	159.2	108.9	99.4	102.7	108.9	111.0	108.9	108.9
62.5°	892.0	729.9	343.6	145.8	104.1	98.2	101.9	108.3	110.5	109.4	109.4
65°	911.7	735.4	318.8	132.5	100.0	96.4	101.4	107.5	110.0	109.7	110.0
67.5°	899.5	710.3	286.0	120.7	96.2	94.6	100.0	106.2	108.9	109.4	109.7
69°	878.6	682.4	265.6	114.5	94.1	93.3	98.9	104.9	108.0	108.9	108.9
70°	860.0	658.4	248.7	110.8	92.5	92.5	98.5	104.1	107.3	108.0	108.3
72.5°	770.3	580.3	210.3	100.8	88.9	89.8	95.7	101.4	104.9	105.7	105.7
75°	660.0	476.2	171.2	92.5	85.0	86.9	92.5	97.9	101.1	101.9	101.6
77.5°	525.5	369.1	139.0	85.2	80.5	82.3	88.2	93.3	96.4	97.0	95.9
80°	392.2	269.1	112.6	77.7	75.1	77.5	82.8	87.1	90.3	90.5	88.9
82.5°	271.8	194.4	91.7	70.5	69.1	71.0	75.8	79.5	82.5	81.7	81.0
85°	181.2	133.3	75.1	62.4	62.4	64.6	68.1	70.5	73.4	72.3	70.7
87.5°	119.3	92.0	61.5	54.5	55.0	57.1	59.6	60.5	63.2	62.4	60.5
90°	81.0	66.1	50.6	47.1	47.8	49.7	51.2	51.2	53.0	51.6	50.8
92.5°	57.6	50.6	42.2	40.7	41.4	43.0	43.2	42.2	43.8	43.0	41.9
95°	43.2	39.8	35.7	35.0	36.0	37.1	36.8	35.2	35.7	35.2	35.0
97.5°	33.7	32.6	30.4	29.8	30.9	31.6	31.1	29.3	29.6	29.1	28.5
100°	27.2	26.3	25.7	25.7	26.7	26.9	26.1	24.5	24.1	23.4	23.7
102.5°	21.6	21.6	21.8	22.3	22.8	22.8	21.8	20.4	19.8	19.1	19.1
105°	16.9	17.2	18.2	18.6	19.1	19.1	18.0	16.9	15.9	15.1	15.1
107.5°	13.2	13.6	14.7	15.7	16.2	15.9	15.1	13.9	12.7	11.8	11.8



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CATALOG NUMBER: UTLD-AF24-20-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.5	11.0	12.1	13.2	13.4	13.4	12.7	11.3	9.8	9.4	9.4
112.5°	8.6	8.8	10.3	11.0	11.3	11.3	10.5	9.4	7.7	7.5	7.5
115°	7.0	7.2	8.3	9.2	9.4	9.4	8.8	7.7	6.2	6.2	6.2
117.5°	5.9	6.2	7.0	7.7	8.0	8.0	7.2	6.2	5.1	5.1	5.1
120°	5.1	5.4	5.9	6.4	6.8	6.8	6.2	5.1	4.3	4.3	4.3
122.5°	4.6	4.8	5.1	5.7	5.9	5.9	5.1	4.1	3.8	3.8	3.8
125°	4.1	4.3	4.6	4.8	5.1	4.8	4.3	3.5	3.3	3.5	3.5
127.5°	3.5	3.8	4.1	4.1	4.3	4.1	3.5	2.9	2.7	2.9	2.9
130°	3.3	3.3	3.5	3.5	3.8	3.5	2.9	2.4	2.4	2.7	2.7
132.5°	2.9	2.9	2.9	2.9	3.3	2.9	2.4	1.8	2.1	2.4	2.4
135°	2.4	2.4	2.7	2.4	2.7	2.1	1.8	1.6	1.8	2.1	2.1
137.5°	2.1	2.1	2.1	2.1	1.8	1.8	1.3	1.3	1.6	1.8	1.6
140°	1.8	1.8	1.8	1.6	1.6	1.3	1.1	1.1	1.3	1.3	1.3
142.5°	1.3	1.3	1.3	1.3	1.1	0.8	0.5	0.8	0.8	1.1	1.1
145°	1.1	1.1	1.1	0.8	0.5	0.5	0.2	0.5	0.5	0.8	0.8
147.5°	0.8	0.8	0.8	0.5	0.5	0.2	0.2	0.2	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	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)