

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: P266267

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.1 lumens
Efficiency: N/A
Efficacy: 88.0 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

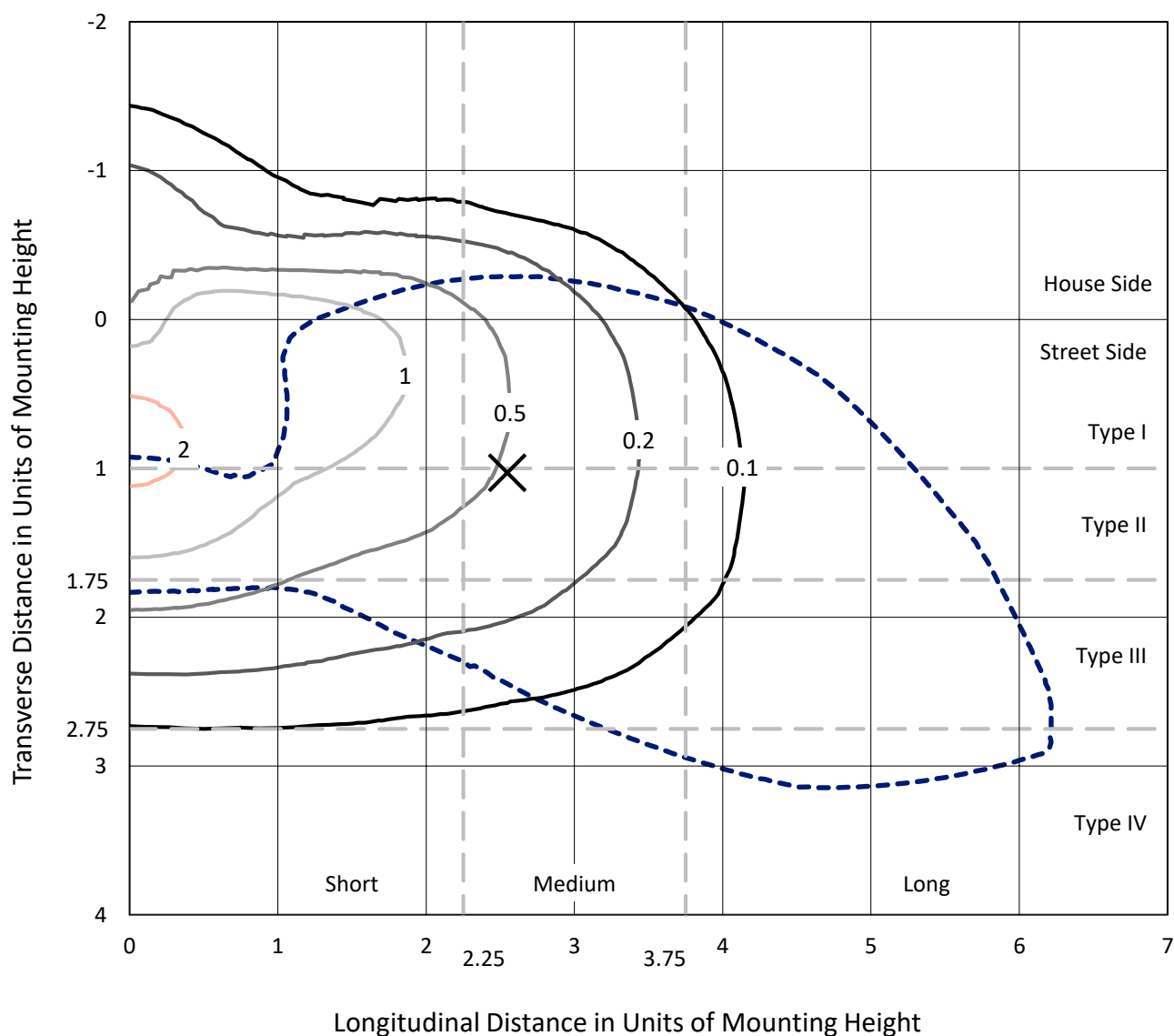


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

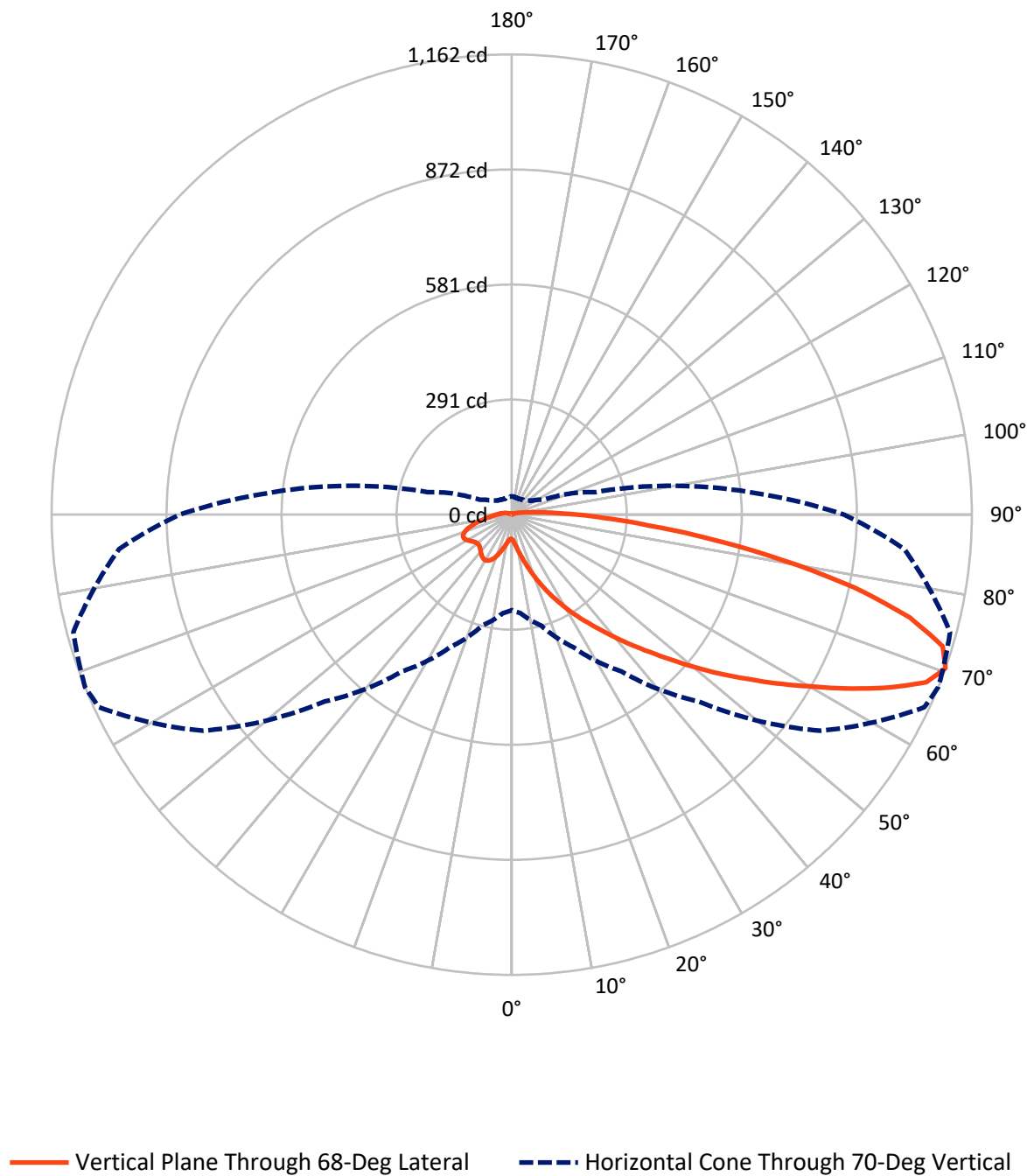


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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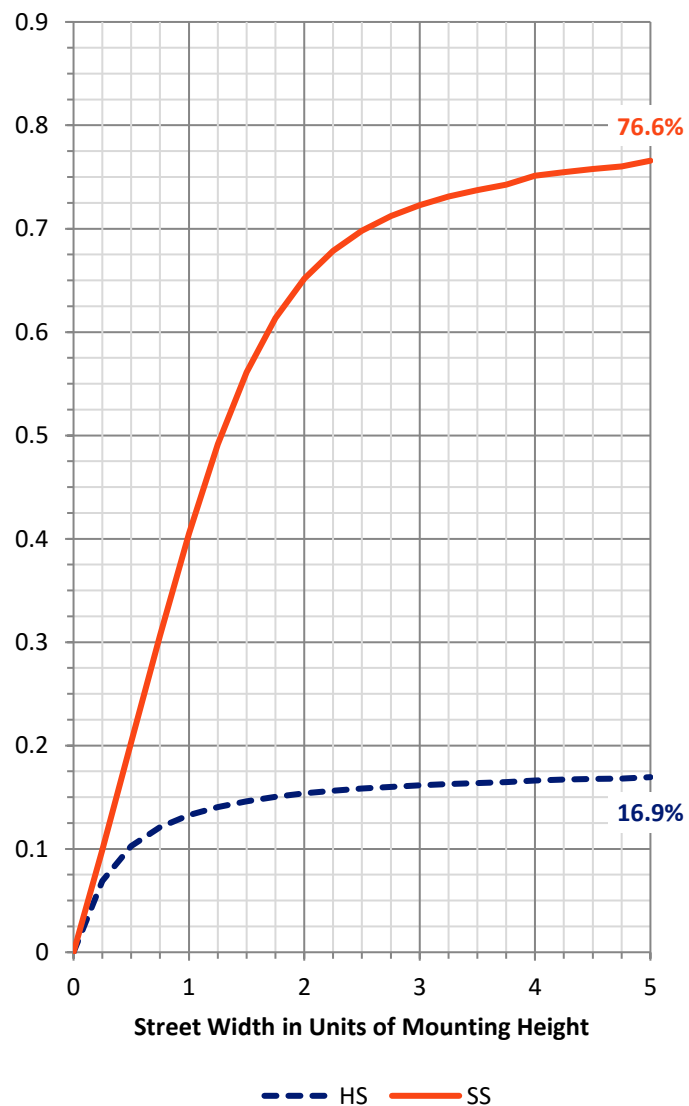
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	326.5	30.0	356.5
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	1449.6	41.1	1490.6
	% Fixture	78.5	2.2	80.7
Total	Lumens	1776.1	71.0	1847.1
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.4
10°-20°	29.3	1.6
20°-30°	74.2	4.0
30°-40°	143.7	7.8
40°-50°	242.3	13.1
50°-60°	362.3	19.6
60°-70°	439.3	23.8
70°-80°	342.7	18.6
80°-90°	135.6	7.3
90°-100°	41.5	2.2
100°-110°	16.3	0.9
110°-120°	7.2	0.4
120°-130°	3.6	0.2
130°-140°	1.7	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°	1776.1	96.2
0°-180°	1847.1	100.0

Coefficient of Utilization



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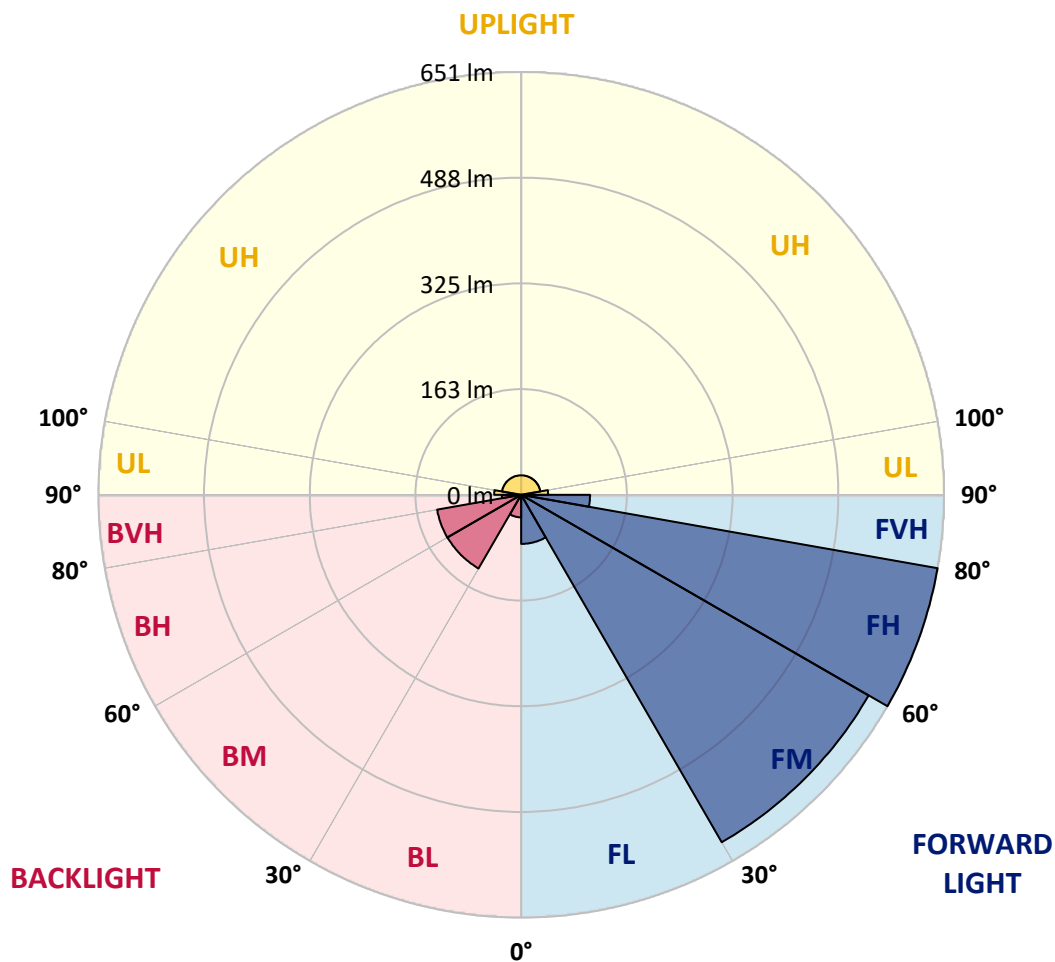
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.5	4.1			
FM	(30°-60°)	617.4	33.4			
FH	(60°-80°)	650.7	35.2			G0/660
FVH	(80°-90°)	106.0	5.7			G2/225
BL	(0°-30°)	34.7	1.9	B0/110		
BM	(30°-60°)	130.9	7.1	B0/220		
BH	(60°-80°)	131.3	7.1	B1/500		G1/500
BVH	(80°-90°)	29.6	1.6			G1/100
UL	(90°-100°)	41.5	2.2		U2/50	
UH	(100°-180°)	30.0	1.6		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°	68°	75°	85°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	69.1	69.3	69.3	68.6	68.4	67.6	66.5	65.9	65.4	64.9	64.0
5°	78.2	78.2	77.8	77.1	76.0	75.4	74.1	72.8	72.5	70.7	69.1
7.5°	88.7	88.8	89.1	87.9	86.4	85.2	83.8	81.8	81.3	79.7	76.5
10°	102.3	102.6	102.1	101.0	99.1	97.6	95.8	94.0	93.2	91.7	87.5
12.5°	119.0	118.8	117.4	115.7	113.5	111.7	109.7	108.2	107.6	106.3	101.7
15°	136.7	137.7	136.0	132.1	129.4	126.8	125.9	125.9	126.3	124.7	120.3
17.5°	159.4	160.1	157.3	152.0	147.5	144.6	143.6	145.6	146.3	147.1	143.2
20°	185.7	185.9	181.4	173.9	166.1	162.6	162.8	167.4	169.1	171.7	167.2
22.5°	217.7	216.0	209.3	197.7	186.7	180.9	183.1	192.2	193.7	199.2	196.8
25°	251.3	251.2	240.2	224.8	208.6	201.2	204.9	216.1	220.3	228.7	225.6
27.5°	290.1	289.1	275.2	255.9	234.0	222.9	226.1	242.3	247.0	261.2	258.0
30°	331.0	331.4	314.9	288.4	261.0	245.5	247.6	270.0	276.3	292.7	291.7
32.5°	380.2	377.2	358.9	324.1	290.5	269.5	272.1	298.2	307.0	326.5	323.6
35°	429.4	425.7	401.4	363.3	321.2	296.4	297.5	328.4	337.7	362.9	357.4
37.5°	474.8	472.9	448.4	404.4	355.5	326.1	327.4	360.8	372.3	400.6	393.8
40°	523.5	523.5	498.6	450.9	393.6	358.2	360.3	396.8	410.7	441.6	430.4
42.5°	575.3	573.6	547.2	493.1	431.5	392.6	397.1	437.4	453.0	486.0	474.3
45°	626.2	622.5	595.2	539.1	469.5	431.5	438.1	481.9	498.2	540.1	523.8
47.5°	670.1	666.4	639.6	580.3	509.2	471.9	481.0	533.5	550.8	600.5	576.0
50°	701.5	700.4	674.3	613.2	544.8	513.4	532.8	588.5	609.3	659.5	636.4
52.5°	719.9	717.7	696.9	642.8	580.3	556.4	585.9	648.4	670.3	724.6	697.4
55°	715.8	714.3	699.6	658.5	608.2	597.7	644.9	715.1	735.6	794.0	761.9
57.5°	683.4	685.3	681.0	659.5	628.6	640.4	705.2	785.4	807.0	864.1	829.8
60°	625.7	625.0	637.3	640.9	636.8	677.4	778.1	865.5	882.1	939.6	896.0
62.5°	540.5	538.5	565.4	599.9	630.8	708.6	843.8	951.0	967.7	1014.0	957.1
65°	435.9	444.7	478.2	535.2	600.8	720.4	907.6	1038.3	1051.9	1076.6	1005.2
67.5°	330.3	338.8	382.3	454.5	550.8	706.6	948.2	1116.5	1129.7	1136.3	1026.1
70°	241.3	249.5	290.5	369.7	483.0	666.8	951.2	1150.3	1162.3	1146.3	995.2
72.5°	171.7	176.1	211.3	286.4	405.8	597.0	911.7	1128.5	1138.4	1094.2	913.5
75°	121.5	123.3	153.8	217.7	330.3	518.1	817.5	1031.3	1038.9	983.4	776.9
77.5°	82.9	87.1	111.3	166.1	264.9	425.3	692.9	884.1	884.1	813.7	614.6
80°	58.7	62.3	79.9	124.1	207.5	340.7	559.9	702.6	691.4	611.4	443.0
82.5°	42.3	45.2	59.2	94.7	161.1	269.3	424.8	520.2	504.9	426.8	292.7
85°	30.6	33.5	44.9	69.6	123.3	208.9	318.3	361.3	346.2	282.7	190.0
87.5°	22.5	24.4	33.5	52.5	93.5	158.2	233.5	245.3	232.1	182.8	122.0
90°	15.9	17.6	25.6	39.6	70.1	118.8	164.0	161.1	146.7	115.0	80.7
92.5°	11.6	12.8	19.0	30.3	52.1	87.1	112.7	104.1	95.8	73.9	56.1
95°	8.8	9.6	15.0	23.4	38.4	61.4	76.0	68.4	62.1	50.5	41.3
97.5°	6.9	7.7	12.2	18.9	29.7	44.6	52.6	45.2	42.3	36.6	31.9
100°	6.1	6.5	10.4	15.7	23.4	33.5	37.2	31.6	30.0	27.6	24.9
102.5°	5.6	5.7	9.3	13.6	19.0	25.2	26.8	23.6	22.5	21.0	19.6
105°	5.1	5.3	8.3	11.9	16.2	19.6	20.5	18.1	17.3	15.9	15.0
107.5°	4.9	4.9	7.2	10.4	13.7	16.2	16.2	14.3	13.6	12.0	11.6
110°	4.6	4.6	6.5	9.4	11.9	13.7	13.2	11.4	10.6	9.3	9.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	4.3	4.3	6.1	8.3	10.4	11.6	11.0	9.3	8.4	6.9	6.9
115°	4.1	4.1	5.3	7.2	9.3	9.9	9.4	7.5	6.9	5.6	5.7
117.5°	4.1	4.1	5.1	6.5	7.9	8.8	7.9	6.1	5.6	4.6	5.1
120°	3.9	3.9	4.6	5.7	6.9	7.5	6.7	5.1	4.6	3.9	4.3
122.5°	3.9	3.9	4.3	5.1	6.3	6.5	5.7	4.3	3.9	3.4	3.9
125°	3.7	3.7	4.1	4.6	5.3	5.6	4.9	3.7	3.4	3.1	3.4
127.5°	3.7	3.7	3.9	4.1	4.9	4.9	4.1	3.0	3.0	2.6	3.1
130°	3.4	3.7	3.7	3.9	4.1	4.1	3.4	2.4	2.4	2.4	3.0
132.5°	3.4	3.4	3.4	3.4	3.7	3.4	2.6	2.2	2.2	2.2	2.6
135°	3.1	3.1	3.1	3.1	3.0	2.6	2.2	1.6	1.6	1.9	2.4
137.5°	3.1	3.1	3.0	2.6	2.6	2.2	1.6	1.4	1.4	1.9	2.2
140°	3.0	3.0	2.6	2.4	1.9	1.6	1.2	1.2	1.2	1.4	1.6
142.5°	2.4	2.4	2.4	1.9	1.4	1.0	0.7	0.7	1.0	1.2	1.4
145°	2.2	2.2	1.9	1.6	1.0	0.4	0.2	0.4	0.7	1.0	1.2
147.5°	1.6	1.6	1.4	1.2	0.4	0.2	0.0	0.2	0.4	0.4	0.7
150°	1.2	1.2	1.2	0.7	0.2	0.0	0.0	0.2	0.2	0.2	0.4
152.5°	1.0	1.0	0.7	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	0.0	0.2
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.2	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°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	63.3	63.1	61.9	60.8	59.6	58.7	57.8	57.0	56.8	56.2	56.6
5°	67.6	66.7	64.3	62.1	59.6	57.5	55.5	54.1	52.9	52.5	52.1
7.5°	75.1	73.7	69.3	65.4	61.5	57.8	54.5	52.1	50.8	49.8	49.8
10°	86.0	82.9	77.3	70.7	64.3	58.7	54.3	50.9	48.8	48.1	48.1
12.5°	99.3	95.8	87.1	77.3	68.1	60.4	54.5	50.9	48.8	47.8	47.6
15°	116.9	111.7	99.1	85.0	71.8	61.9	54.8	51.3	49.8	49.2	49.2
17.5°	137.7	131.4	112.7	93.5	75.8	62.5	55.5	52.6	51.9	51.9	51.9
20°	162.2	153.2	128.3	101.0	78.7	63.3	56.1	53.9	53.9	54.3	54.5
22.5°	188.6	177.1	143.2	107.9	79.7	63.8	55.8	54.3	55.5	56.8	57.0
25°	216.6	200.4	156.8	112.3	80.2	62.5	55.1	54.5	57.0	58.7	59.2
27.5°	246.3	224.3	168.3	113.9	78.7	60.4	53.9	54.1	57.8	60.1	60.6
30°	273.7	246.9	177.4	113.5	75.5	57.8	52.5	53.4	57.8	61.2	61.9
32.5°	301.9	269.0	183.1	111.3	71.8	54.8	50.8	52.6	57.5	61.4	62.1
35°	330.1	288.5	185.7	107.0	67.4	52.1	49.0	51.5	56.8	61.2	61.5
37.5°	358.3	307.8	186.5	101.4	63.5	49.9	47.8	50.8	55.5	60.6	61.4
40°	388.7	327.1	185.1	95.8	59.8	48.6	46.8	49.8	54.5	59.8	60.8
42.5°	422.8	347.3	183.3	90.3	57.5	47.6	46.2	48.8	53.1	59.2	60.4
45°	460.8	369.6	182.4	86.0	56.1	47.2	46.0	48.1	52.5	58.7	59.8
47.5°	501.7	397.5	183.3	83.1	55.2	47.3	46.0	47.6	51.5	57.8	59.2
50°	551.3	429.6	186.8	80.8	55.1	47.6	46.2	47.2	50.5	56.2	57.8
52.5°	602.9	462.4	192.7	80.4	55.2	48.1	46.4	46.8	49.0	54.3	55.5
55°	656.1	505.9	202.6	81.1	55.8	48.8	46.6	46.4	47.8	51.9	53.4
57.5°	716.5	551.1	215.0	82.9	56.6	49.2	46.8	46.0	46.4	49.8	50.9
60°	776.5	597.0	227.5	85.0	58.0	49.9	47.2	45.6	45.6	48.2	49.2
62.5°	830.8	637.3	238.0	87.9	59.2	50.5	47.2	45.2	44.9	47.2	48.1
65°	867.9	658.5	240.2	89.7	60.4	50.8	46.6	44.6	44.5	46.2	47.2
67.5°	877.9	655.1	235.4	90.3	61.2	50.8	46.6	44.1	44.5	46.0	46.6
70°	839.1	620.2	219.5	88.8	60.8	50.5	46.2	43.7	44.1	45.6	46.2
72.5°	746.9	547.7	194.9	85.2	59.6	49.4	45.2	42.9	43.7	45.5	46.0
75°	626.9	453.7	165.6	79.5	57.5	48.2	44.1	42.0	43.2	44.9	45.2
77.5°	482.3	347.7	135.5	72.0	54.5	46.6	42.8	40.6	42.3	44.1	43.9
80°	342.4	253.6	107.0	64.3	50.8	44.1	40.9	38.8	40.9	42.8	42.3
82.5°	236.0	171.9	85.5	56.8	46.6	41.5	38.6	36.9	39.2	40.9	40.1
85°	154.6	116.2	67.4	49.8	42.8	38.8	36.2	34.6	36.7	38.2	37.2
87.5°	99.7	80.8	53.9	43.2	38.6	36.0	33.5	32.1	34.2	35.6	34.6
90°	69.3	58.8	44.5	37.4	34.8	32.9	30.9	29.5	31.4	32.3	31.9
92.5°	49.4	45.2	36.9	32.9	31.4	29.7	27.9	26.8	28.7	29.5	28.9
95°	38.6	36.0	31.4	28.9	28.2	27.0	25.3	24.2	25.6	26.1	25.8
97.5°	30.9	29.7	27.0	25.6	25.2	24.2	22.9	21.6	22.6	22.9	22.6
100°	24.9	24.4	23.1	22.5	22.2	21.5	20.3	19.4	19.9	19.6	19.6
102.5°	19.9	19.9	19.6	19.4	19.4	18.5	17.6	16.7	16.7	16.2	16.2
105°	15.7	16.2	16.2	16.3	16.7	16.2	15.2	14.1	13.7	13.0	13.0
107.5°	12.2	12.8	13.6	13.7	14.1	13.6	12.8	11.6	10.9	10.2	10.4
110°	9.6	10.2	11.0	11.6	11.9	11.6	10.6	9.6	8.4	7.9	8.3



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CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	7.5	8.3	9.3	9.6	9.9	9.6	8.8	7.7	6.5	6.3	6.3
115°	6.3	6.7	7.7	8.3	8.3	7.9	7.2	6.1	5.1	4.9	5.1
117.5°	5.3	5.7	6.5	6.9	6.9	6.7	6.1	4.9	4.1	4.1	4.1
120°	4.6	5.1	5.6	6.1	6.1	5.7	5.1	3.9	3.4	3.4	3.4
122.5°	4.1	4.3	4.9	5.1	5.1	4.9	4.1	3.1	2.6	3.0	3.0
125°	3.7	3.9	4.3	4.6	4.3	4.1	3.4	2.4	2.2	2.4	2.4
127.5°	3.4	3.7	3.9	3.9	3.9	3.4	3.0	1.9	1.9	2.2	2.2
130°	3.1	3.1	3.4	3.4	3.1	3.0	2.2	1.4	1.4	1.9	1.9
132.5°	3.0	3.0	3.1	3.0	3.0	2.4	1.6	1.2	1.4	1.6	1.6
135°	2.4	2.4	2.6	2.6	2.2	1.9	1.2	1.0	1.0	1.2	1.4
137.5°	2.2	2.4	2.4	2.2	1.9	1.4	1.0	0.7	1.0	1.0	1.2
140°	1.9	1.9	1.9	1.6	1.4	1.0	0.4	0.4	0.7	0.7	0.7
142.5°	1.4	1.6	1.6	1.4	1.0	0.4	0.2	0.2	0.4	0.4	0.4
145°	1.2	1.2	1.2	1.0	0.7	0.4	0.2	0.2	0.2	0.2	0.2
147.5°	0.7	1.0	1.0	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0
150°	0.4	0.4	0.7	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
152.5°	0.2	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.2	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.2	0.2	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

(END OF REPORT)