

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: P266286

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266286
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 1962.9 lumens
Efficiency: N/A
Efficacy: 93.5 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



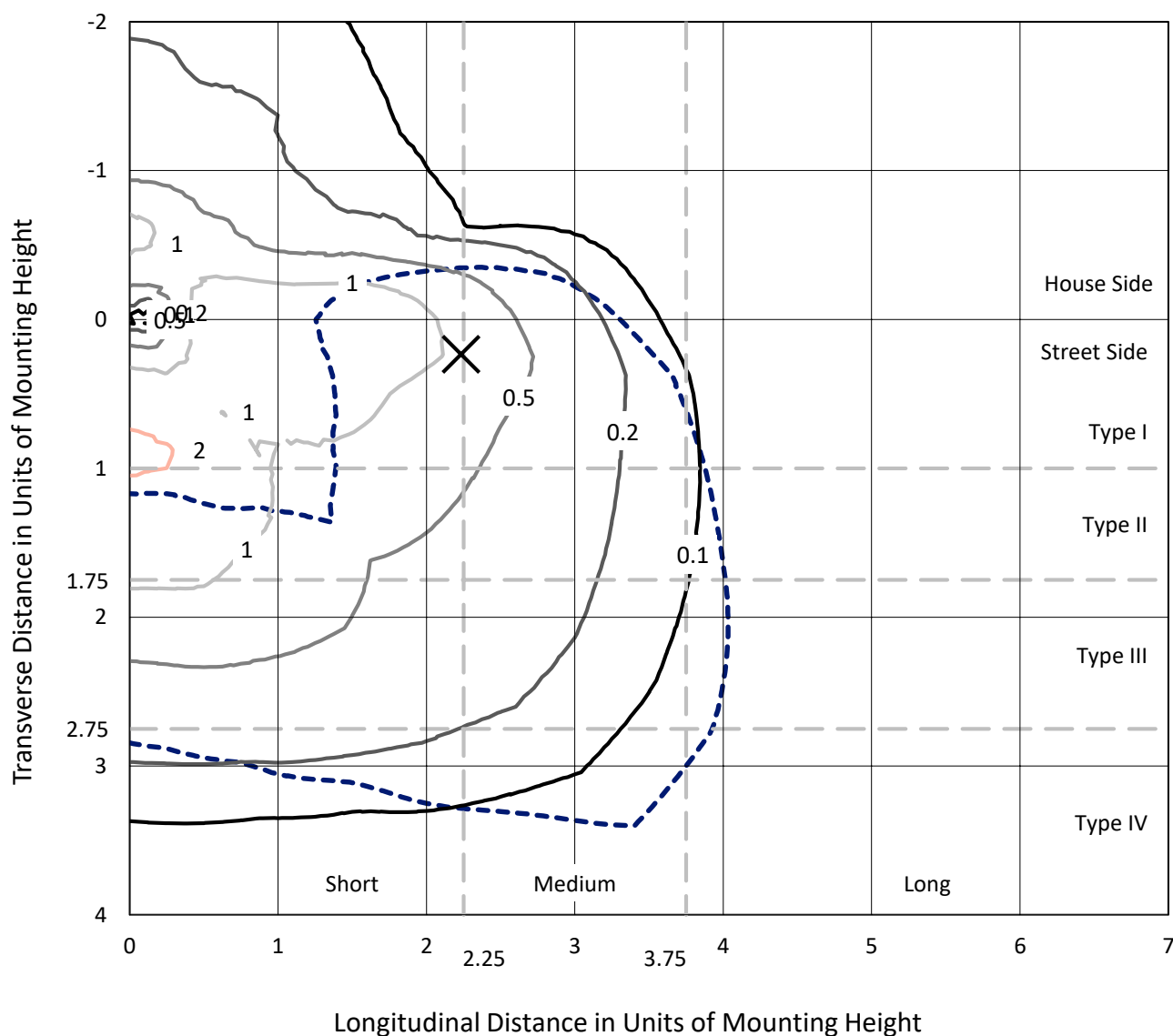
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

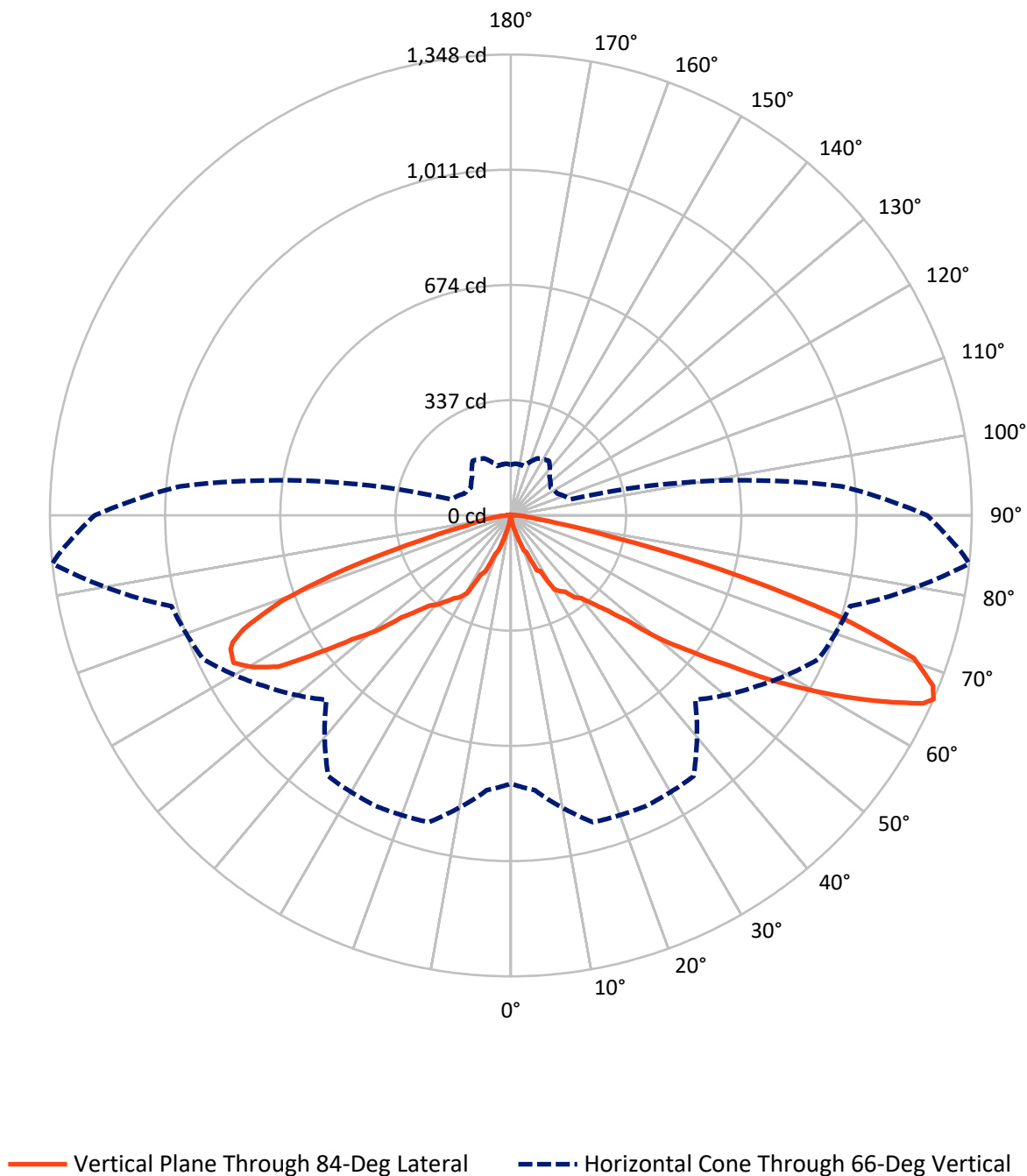


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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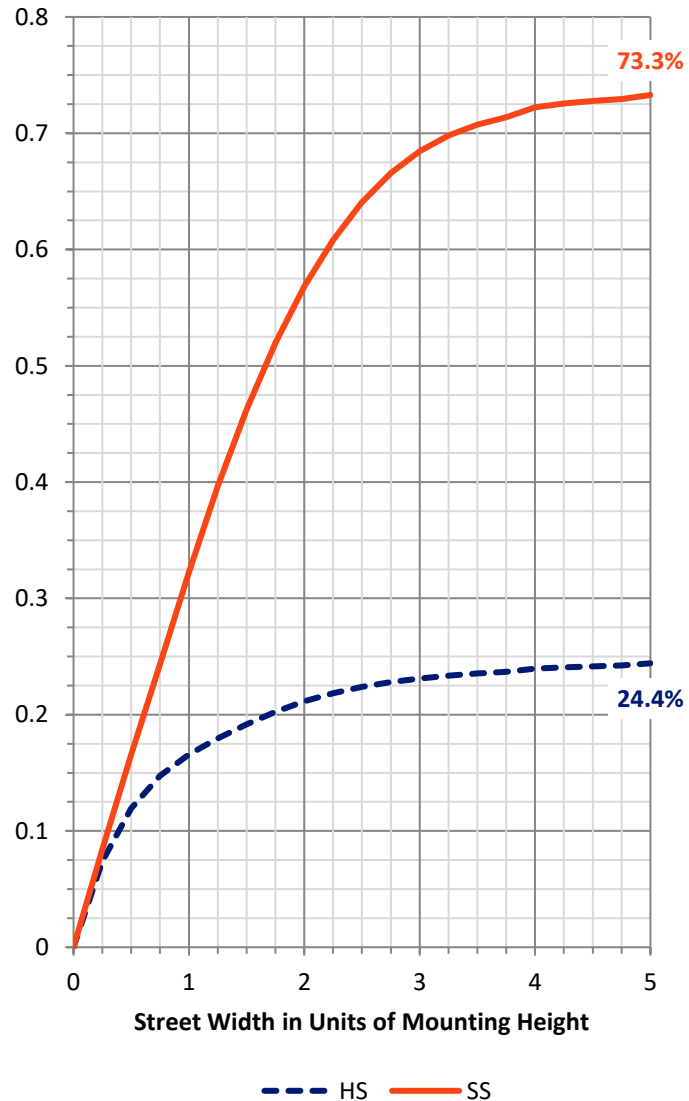
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	491.2	11.9	503.1
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	1448.6	11.2	1459.8
	% Fixture	73.8	0.6	74.4
Total	Lumens	1939.8	23.1	1962.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.1
10°-20°	18.2	0.9
20°-30°	67.3	3.4
30°-40°	138.5	7.1
40°-50°	229.7	11.7
50°-60°	400.5	20.4
60°-70°	590.0	30.1
70°-80°	430.6	21.9
80°-90°	63.5	3.2
90°-100°	11.8	0.6
100°-110°	5.4	0.3
110°-120°	2.5	0.1
120°-130°	1.8	0.1
130°-140°	1.0	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°	1939.8	98.8
0°-180°	1962.9	100.0

Coefficient of Utilization



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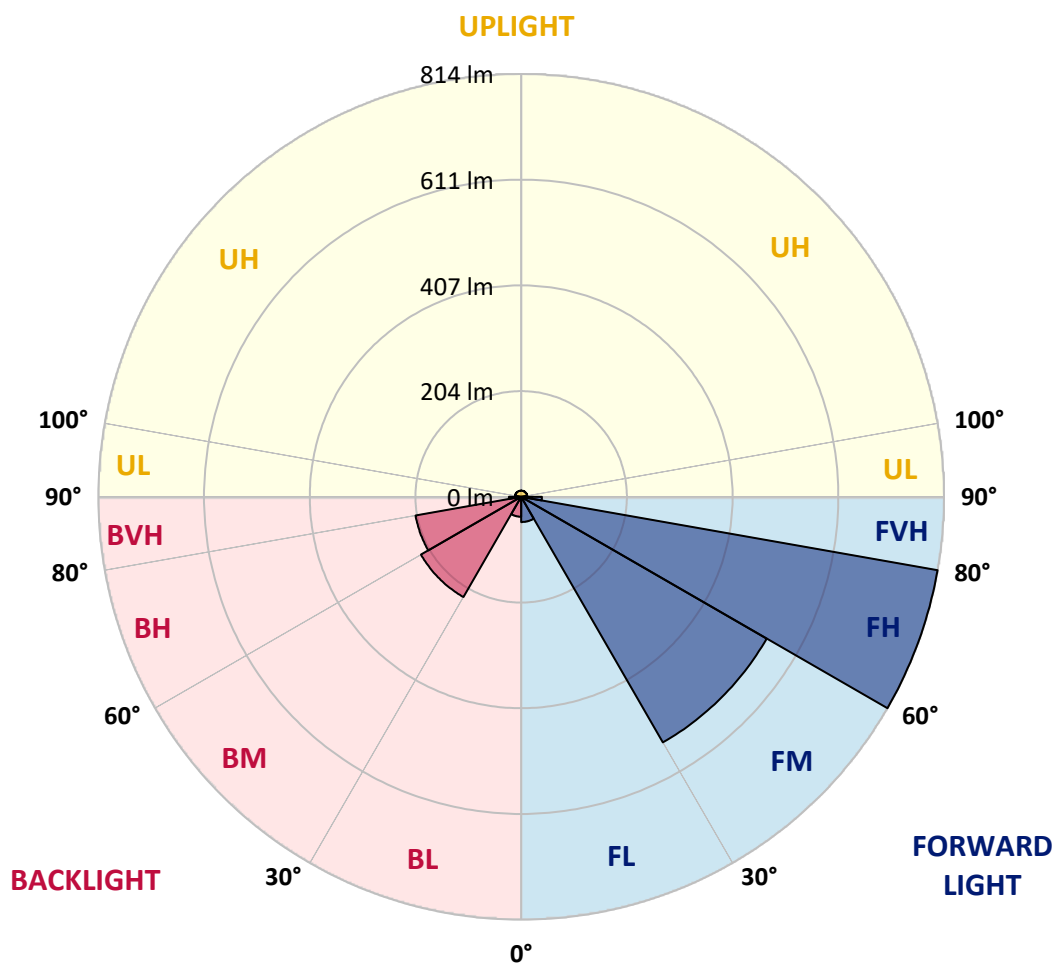
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.6	2.5			
FM	(30°-60°)	545.9	27.8			
FH	(60°-80°)	814.1	41.5			G1/1800
FVH	(80°-90°)	39.9	2.0			G1/100
BL	(0°-30°)	38.4	2.0	B0/110		
BM	(30°-60°)	222.7	11.3	B1/1000		
BH	(60°-80°)	206.5	10.5	B1/500		G1/500
BVH	(80°-90°)	23.6	1.2			G1/100
UL	(90°-100°)	11.8	0.6		U2/50	
UH	(100°-180°)	11.9	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	11.6	10.4	10.4	9.9	9.0	7.9	6.3	5.3	4.6	4.6	4.3
5°	22.2	23.4	27.0	24.9	20.5	26.8	12.0	7.9	5.1	4.3	4.3
7.5°	35.3	37.2	28.4	25.3	25.3	27.0	22.0	13.2	6.7	5.1	4.9
10°	73.9	69.8	48.6	49.2	41.9	29.3	20.0	17.6	10.4	8.3	7.5
12.5°	71.8	70.7	72.3	63.1	63.5	46.2	25.6	41.1	37.2	35.6	39.2
15°	92.4	91.4	73.4	74.9	67.8	70.4	59.4	59.2	57.2	48.1	46.2
17.5°	128.5	127.5	143.6	95.6	68.1	88.2	76.5	65.9	68.4	72.3	75.1
20°	128.2	126.8	133.6	114.8	116.2	91.1	81.7	120.1	109.7	110.1	103.8
22.5°	189.4	180.6	158.6	119.7	130.9	106.4	121.0	118.5	110.6	117.0	115.3
25°	183.8	187.1	179.7	177.2	133.3	152.6	133.0	136.9	169.1	177.8	178.0
27.5°	213.2	206.7	201.0	182.0	179.2	148.5	136.9	182.4	177.0	185.1	184.7
30°	254.3	252.2	250.6	202.4	193.9	163.8	184.5	186.2	215.0	251.2	258.6
32.5°	293.8	283.4	260.1	234.2	194.7	193.4	183.3	231.4	246.6	263.7	266.3
35°	356.6	356.4	316.8	250.4	217.7	205.5	237.3	249.2	249.0	274.8	290.5
37.5°	410.3	413.0	371.4	302.3	225.2	207.7	247.8	268.8	269.8	304.7	298.6
40°	491.9	484.8	447.6	360.9	257.5	221.4	271.6	274.8	294.6	318.0	326.8
42.5°	549.9	547.2	535.1	429.6	294.6	246.8	299.9	286.4	312.0	354.6	363.6
45°	586.1	572.9	584.8	479.9	354.2	301.1	306.2	324.3	351.5	396.5	422.4
47.5°	622.5	632.4	604.6	517.8	407.8	326.3	336.9	394.0	420.3	460.7	477.2
50°	685.8	675.2	665.6	574.6	490.5	366.2	421.3	413.6	487.5	569.9	572.8
52.5°	724.5	724.5	708.8	624.4	547.3	425.4	449.6	477.2	587.2	662.0	688.9
55°	779.2	790.6	787.6	683.2	614.5	505.8	523.5	581.5	678.5	774.3	841.4
57.5°	818.0	833.7	867.9	746.0	679.7	538.8	631.5	695.9	801.2	917.9	998.7
60°	875.8	876.0	911.2	801.5	762.1	601.2	673.2	802.1	868.7	1055.7	1098.4
62.5°	881.6	891.5	964.9	887.9	844.1	666.5	809.9	857.1	944.4	1194.3	1231.8
65°	811.6	838.2	961.0	928.5	919.2	726.5	849.9	965.4	1006.0	1325.7	1315.1
66°	784.8	807.2	929.1	937.4	931.6	762.7	873.4	993.6	1027.5	1348.4	1329.9
67.5°	775.3	791.8	890.9	947.1	973.4	827.8	930.6	1007.4	1066.8	1331.9	1324.6
70°	709.9	730.4	823.7	1010.9	1062.4	947.4	1004.2	1040.7	1094.6	1250.6	1218.2
72.5°	541.4	562.3	631.1	834.0	1070.1	1124.0	1118.5	1082.7	1004.2	993.6	941.8
75°	268.6	291.1	339.5	486.2	832.5	1104.2	1112.0	976.3	811.6	640.9	601.1
77.5°	138.9	156.5	131.2	186.2	428.1	783.3	786.9	643.7	470.4	299.4	279.6
80°	94.6	98.5	89.3	91.7	176.2	400.4	373.3	342.7	189.4	137.4	143.4
82.5°	69.6	64.1	61.5	67.0	95.1	125.0	134.2	148.3	101.1	69.8	73.7
85°	32.9	36.2	35.6	40.9	57.9	42.7	65.7	89.1	67.4	44.9	44.1
87.5°	20.5	20.3	21.6	25.2	35.0	28.2	36.0	44.1	40.6	27.9	27.5
90°	13.6	12.0	11.4	13.6	19.6	14.1	19.4	25.2	22.9	15.2	14.3
92.5°	9.2	9.2	9.9	11.4	16.9	15.0	13.7	14.3	14.3	11.9	11.4
95°	6.7	7.2	8.3	8.4	10.2	8.8	11.0	12.2	12.5	9.6	9.4
97.5°	5.7	6.3	6.7	6.9	8.4	6.9	9.2	10.9	10.6	7.7	7.9
100°	5.3	5.7	5.7	6.1	6.7	5.3	7.5	10.2	9.6	6.7	6.5
102.5°	5.1	5.1	4.9	4.9	5.3	4.1	6.3	9.0	7.2	5.6	5.1
105°	4.9	4.9	4.1	3.9	4.1	3.4	5.1	6.7	5.1	4.6	4.6
107.5°	4.6	4.3	3.7	3.1	3.4	2.6	4.1	4.3	3.7	4.1	4.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	4.1	4.1	3.1	2.6	2.6	2.2	3.0	3.1	3.1	4.1	4.3
112.5°	3.9	3.7	2.6	2.2	2.2	1.9	2.2	2.4	2.6	3.9	4.1
115°	3.7	3.4	2.4	1.9	1.6	1.4	1.6	1.9	2.4	3.9	3.9
117.5°	3.4	3.1	2.2	1.6	1.4	1.2	1.4	1.6	2.4	3.9	3.9
120°	3.4	3.1	2.2	1.4	1.2	1.2	1.2	1.4	2.6	3.9	4.1
122.5°	3.1	3.1	2.2	1.4	1.2	1.0	1.0	1.4	2.4	3.7	3.7
125°	3.1	3.1	1.9	1.2	1.0	1.0	1.0	1.2	2.4	3.4	3.7
127.5°	3.0	3.0	1.9	1.2	1.0	0.7	0.7	1.2	2.2	3.4	3.4
130°	3.0	3.0	1.9	1.0	0.7	0.7	0.7	1.0	2.2	3.1	3.1
132.5°	2.4	2.4	1.6	1.0	0.7	0.4	0.7	1.0	1.9	2.6	3.0
135°	2.4	2.4	1.6	1.0	0.7	0.4	0.4	1.0	1.6	2.4	2.4
137.5°	2.2	2.2	1.4	1.0	0.7	0.4	0.4	0.7	1.4	2.2	2.2
140°	1.9	1.9	1.6	1.0	0.7	0.4	0.4	0.4	1.2	1.6	1.6
142.5°	1.9	1.9	1.4	1.0	0.4	0.2	0.2	0.4	1.0	1.2	1.2
145°	1.6	1.6	1.4	1.0	0.4	0.2	0.2	0.4	0.7	1.0	1.0
147.5°	1.6	1.6	1.4	0.7	0.2	0.2	0.2	0.4	0.7	1.0	1.0
150°	1.4	1.4	1.0	0.4	0.0	0.0	0.2	0.2	0.4	0.7	0.7
152.5°	1.0	1.0	0.7	0.2	0.0	0.0	0.0	0.2	0.4	0.4	0.4
155°	0.4	0.4	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.1	4.1	4.1	4.1	4.1
5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.3	4.6	4.6	4.6
7.5°	4.6	4.6	4.3	4.1	4.3	4.9	7.2	16.7	24.3	30.0	29.7
10°	7.5	7.5	6.9	6.1	7.5	16.3	32.3	32.6	27.0	24.9	25.8
12.5°	39.5	35.3	30.0	24.7	24.2	29.3	27.5	38.4	42.9	46.2	45.6
15°	45.5	48.1	43.9	49.2	50.5	30.0	46.8	62.8	67.6	69.6	71.8
17.5°	74.9	82.9	59.2	56.1	56.2	59.8	63.3	66.5	67.8	67.2	67.4
20°	112.7	107.4	115.4	98.5	75.4	80.2	73.4	72.5	95.6	116.2	113.5
22.5°	115.3	124.3	113.7	104.1	115.3	81.7	101.1	107.4	110.6	113.2	116.6
25°	186.4	182.0	159.4	119.6	113.7	109.0	109.9	112.3	118.3	127.5	133.0
27.5°	197.9	197.1	176.2	161.1	121.2	136.3	112.7	135.7	146.6	156.2	158.1
30°	266.3	269.0	202.8	154.8	140.6	116.6	130.9	139.9	148.3	161.8	162.1
32.5°	283.0	288.5	224.3	171.1	147.3	120.7	131.6	138.3	170.5	183.1	183.6
35°	287.4	301.7	231.4	165.2	142.2	120.3	121.5	144.6	160.5	186.2	195.3
37.5°	333.0	322.6	245.9	167.4	133.0	115.6	131.2	138.9	164.0	180.4	183.6
40°	352.3	346.6	255.3	171.7	131.3	128.6	121.5	129.4	141.3	153.2	153.2
42.5°	388.2	365.6	260.6	168.5	127.6	138.1	110.9	119.7	130.9	123.8	126.8
45°	436.0	405.7	278.7	152.0	121.0	117.4	106.4	120.3	113.2	113.2	111.7
47.5°	497.9	456.3	272.6	146.1	136.3	111.1	140.6	112.9	104.4	108.2	108.4
50°	595.8	546.4	291.2	142.2	129.1	109.0	120.3	109.1	109.1	111.7	110.9
52.5°	718.4	621.3	299.1	142.0	122.2	126.8	119.3	130.7	112.9	122.3	121.2
55°	851.2	734.0	307.4	140.0	121.0	114.4	145.9	125.0	117.4	134.4	134.9
57.5°	1019.4	864.7	341.1	136.3	121.5	114.8	137.6	140.0	142.9	154.2	155.9
60°	1124.3	937.1	311.3	143.4	120.3	130.9	160.1	156.5	147.5	189.5	195.8
62.5°	1204.2	992.0	256.5	149.5	142.2	131.8	165.4	182.5	174.4	191.2	196.1
65°	1218.7	987.1	196.1	149.5	140.2	153.6	198.4	182.0	155.2	156.9	155.0
66°	1217.7	972.4	180.6	150.6	142.2	160.1	194.8	184.2	150.1	152.0	148.3
67.5°	1177.9	925.9	156.9	148.9	155.8	164.4	191.5	171.9	144.4	144.8	141.3
70°	1024.5	780.9	133.6	153.2	161.5	164.8	209.3	160.1	132.6	129.1	128.5
72.5°	753.7	554.0	125.0	152.4	164.0	159.9	176.4	131.6	114.4	107.6	107.0
75°	423.8	283.0	124.7	146.1	145.2	137.1	133.6	101.4	94.6	86.6	85.2
77.5°	195.3	136.5	105.6	117.6	109.7	108.4	99.5	84.5	80.7	75.4	73.1
80°	112.9	96.4	75.1	78.1	78.7	76.5	80.4	76.0	72.0	68.1	64.5
82.5°	65.9	61.1	54.7	51.5	51.5	55.1	66.1	63.3	60.1	56.8	48.8
85°	41.3	39.5	37.4	36.0	36.0	33.1	47.6	52.9	49.9	42.7	38.2
87.5°	27.0	28.2	25.2	25.3	24.7	22.0	32.1	35.6	30.5	24.3	20.3
90°	12.2	13.6	14.7	14.6	15.7	12.0	17.6	18.1	16.2	11.0	7.9
92.5°	9.4	11.0	12.2	12.2	13.6	8.3	12.8	14.3	13.2	10.4	7.5
95°	7.9	9.9	11.9	11.6	11.6	6.5	11.9	13.2	12.5	9.0	6.5
97.5°	6.5	7.9	9.6	9.6	10.6	5.6	10.9	12.8	12.0	9.0	6.3
100°	6.1	7.2	8.4	8.8	9.6	4.3	9.9	12.0	10.9	7.5	6.1
102.5°	5.6	6.1	6.9	6.9	7.2	3.9	7.9	9.9	8.8	5.7	5.7
105°	5.1	5.1	5.1	4.6	4.6	3.1	4.9	6.7	5.3	4.6	5.1
107.5°	4.9	4.6	3.9	3.7	3.4	2.6	3.4	4.1	3.1	4.1	4.6



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CATALOG NUMBER: UTLD-AF24-20-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	4.6	4.6	3.7	3.1	3.0	2.4	3.0	2.6	2.6	4.1	4.3
112.5°	4.6	4.3	3.1	2.6	2.4	2.2	2.4	1.9	2.4	4.1	4.3
115°	4.3	4.3	3.0	2.4	2.4	1.9	1.9	1.6	2.2	3.9	4.3
117.5°	4.3	4.3	3.0	2.2	1.9	1.6	1.6	1.6	2.2	3.9	4.3
120°	4.3	4.1	3.0	2.2	1.6	1.4	1.4	1.4	2.2	3.9	4.1
122.5°	4.1	3.9	2.6	1.9	1.6	1.4	1.2	1.4	2.2	3.7	3.9
125°	3.9	3.9	2.6	1.6	1.4	1.2	1.0	1.2	2.2	3.7	3.9
127.5°	3.9	3.7	2.4	1.4	1.2	1.2	1.0	1.2	2.2	3.4	3.7
130°	3.4	3.4	2.2	1.4	1.0	1.0	0.7	1.0	2.2	3.4	3.4
132.5°	3.1	3.0	1.9	1.2	1.0	0.7	0.7	0.7	1.9	3.0	3.1
135°	2.6	2.4	1.6	1.0	0.7	0.7	0.4	0.7	1.6	2.6	2.6
137.5°	2.2	2.2	1.6	1.0	0.7	0.4	0.4	0.7	1.6	2.4	2.6
140°	1.9	1.6	1.2	0.7	0.4	0.4	0.4	0.7	1.4	1.9	2.2
142.5°	1.4	1.4	1.0	0.7	0.4	0.4	0.2	0.4	1.2	1.6	1.6
145°	1.2	1.2	1.0	0.4	0.4	0.2	0.2	0.2	1.0	1.2	1.4
147.5°	1.0	1.0	0.7	0.4	0.2	0.2	0.0	0.2	0.7	1.0	1.0
150°	0.7	0.7	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.4	0.4
152.5°	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	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)