

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: P266287

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1764.7 lumens
Efficiency: N/A
Efficacy: 84.0 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 - U3 - 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



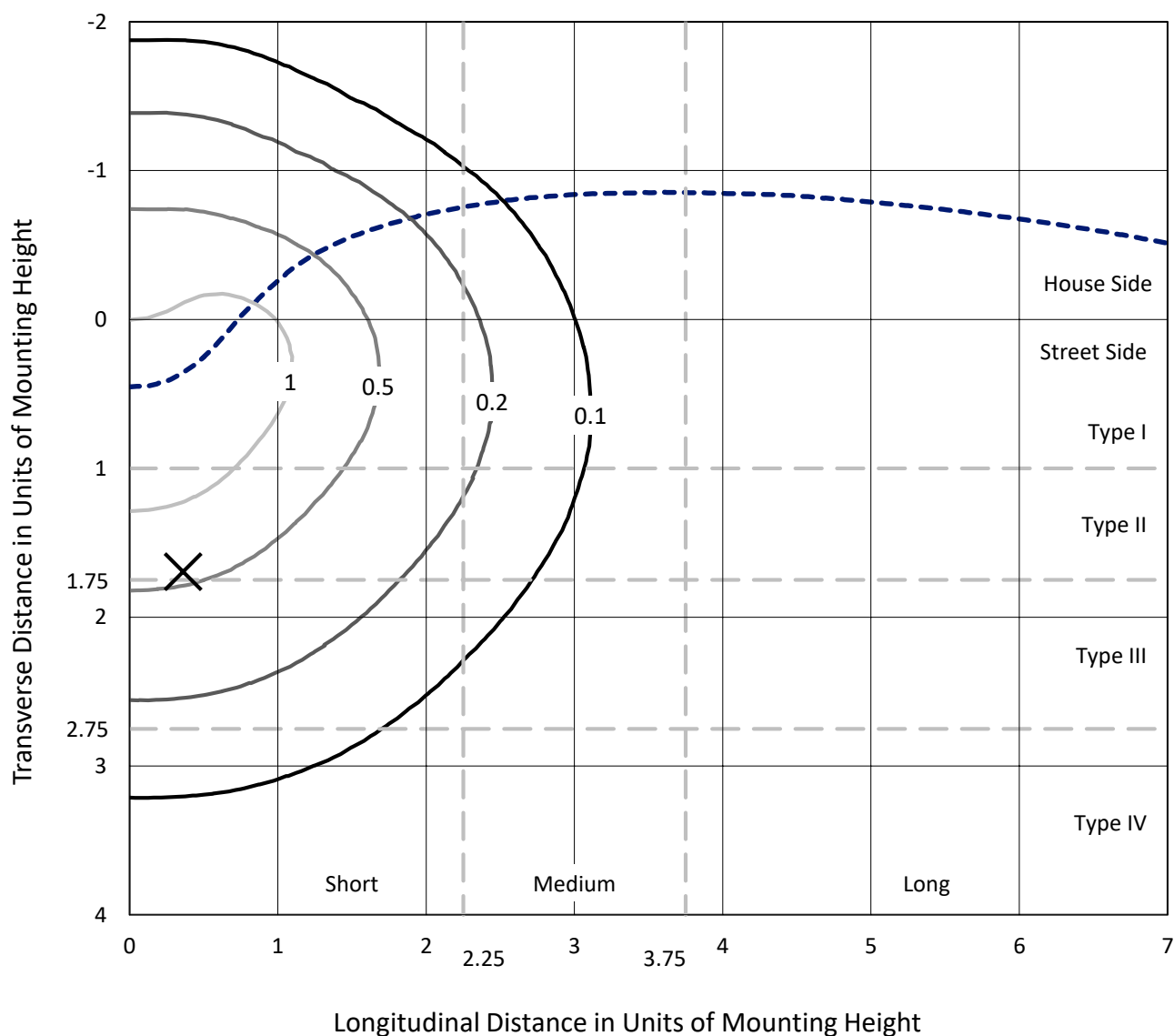
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

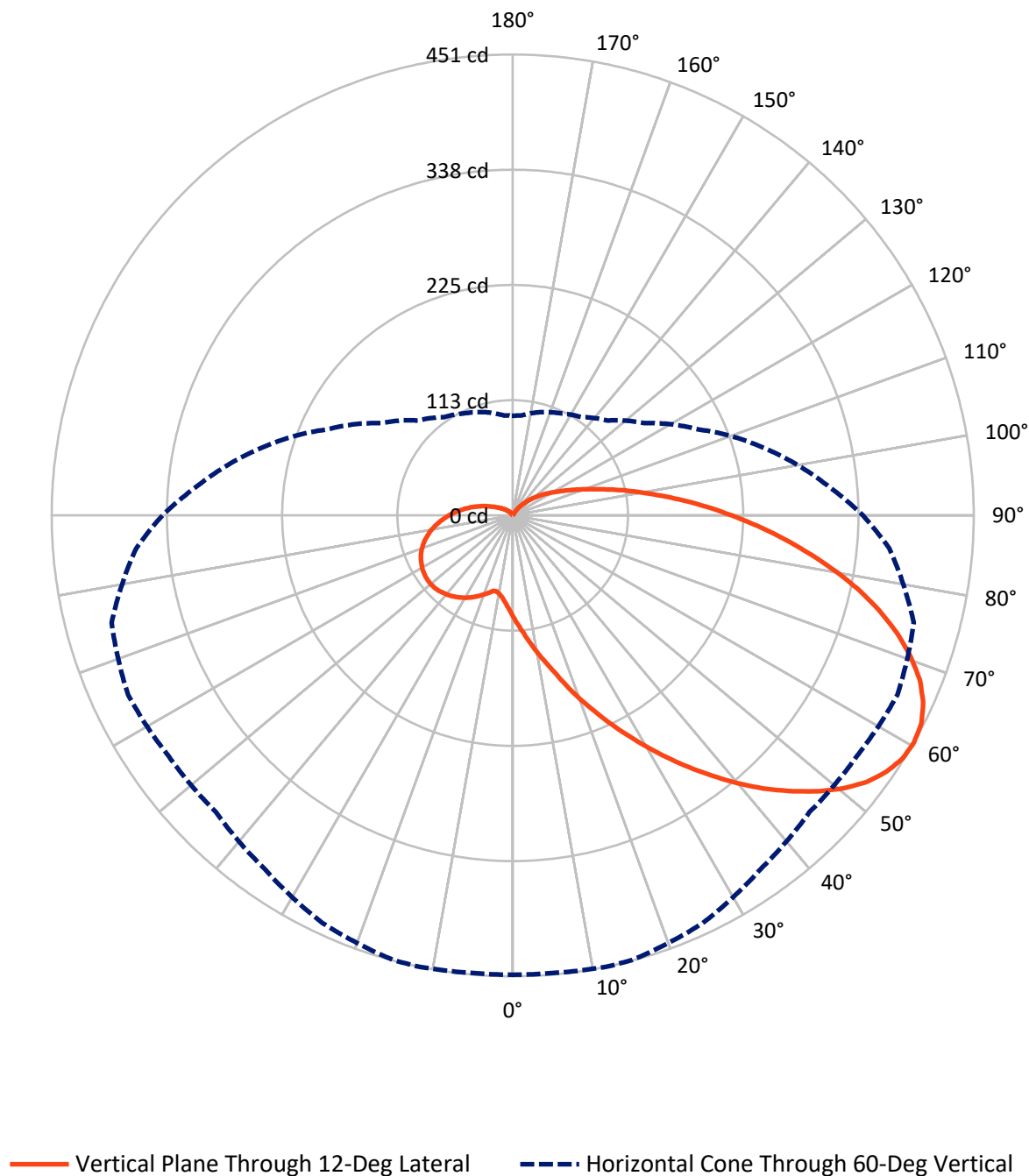


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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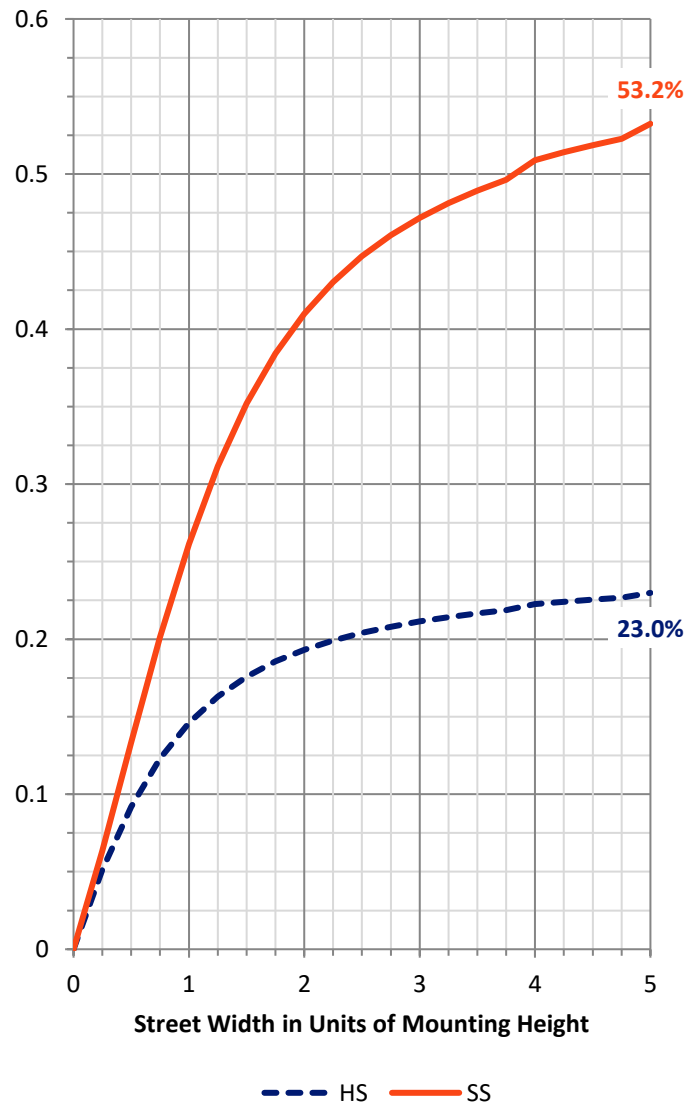
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.9	99.9	533.8
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	1023.9	207.0	1230.9
	% Fixture	58.0	11.7	69.8
Total	Lumens	1457.7	306.9	1764.7
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.6
10°-20°	34.6	2.0
20°-30°	74.2	4.2
30°-40°	129.9	7.4
40°-50°	195.7	11.1
50°-60°	255.5	14.5
60°-70°	284.5	16.1
70°-80°	265.6	15.1
80°-90°	207.8	11.8
90°-100°	140.4	8.0
100°-110°	84.9	4.8
110°-120°	46.7	2.6
120°-130°	23.2	1.3
130°-140°	9.3	0.5
140°-150°	2.2	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1457.7	82.6
0°-180°	1764.7	100.0

Coefficient of Utilization



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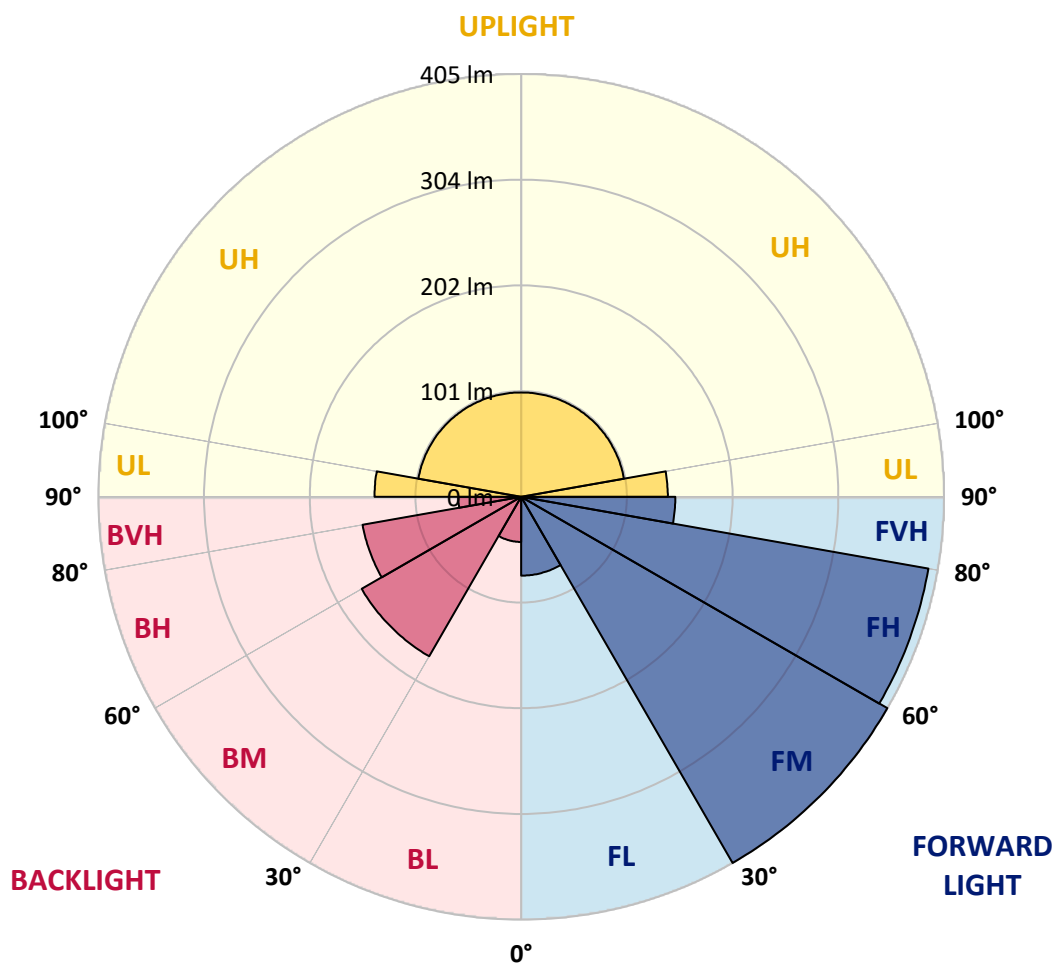
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.5	4.3			
FM	(30°-60°)	404.9	22.9			
FH	(60°-80°)	396.0	22.4			G0/660
FVH	(80°-90°)	147.6	8.4			G2/225
BL	(0°-30°)	43.2	2.4	B0/110		
BM	(30°-60°)	176.2	10.0	B0/220		
BH	(60°-80°)	154.2	8.7	B1/500		G1/500
BVH	(80°-90°)	60.2	3.4			G1/100
UL	(90°-100°)	140.4	8.0		U3/500	
UH	(100°-180°)	99.9	5.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	108.2	107.6	107.6	107.2	107.2	106.3	105.6	104.5	103.2	101.8	100.7
5°	116.8	116.8	116.3	116.3	115.3	113.7	112.1	110.0	107.8	105.6	102.8
7.5°	127.0	126.8	126.8	126.1	125.0	122.6	120.3	117.3	113.9	110.0	106.3
10°	137.6	137.4	137.4	136.6	135.3	132.4	128.8	125.5	121.2	116.2	110.9
12.5°	150.1	149.3	148.8	148.5	146.2	143.5	139.1	134.9	129.4	123.5	117.3
15°	163.5	163.2	161.9	161.2	158.8	154.9	150.6	145.4	139.9	133.4	125.7
17.5°	178.5	178.5	177.4	176.5	174.0	168.6	163.2	158.3	152.7	144.7	136.2
20°	194.6	194.6	193.3	192.0	188.7	184.1	178.7	172.8	166.0	157.5	147.0
22.5°	211.6	211.1	209.5	208.5	204.5	199.5	195.2	188.5	180.5	170.7	158.6
25°	229.5	228.9	227.2	226.4	221.6	217.7	212.8	204.9	195.7	184.5	170.9
27.5°	248.6	246.7	245.4	244.1	239.6	235.6	228.9	221.4	210.9	199.2	184.2
30°	266.6	266.0	264.6	262.8	258.8	254.1	246.7	238.4	228.2	215.4	198.7
32.5°	287.5	286.7	284.5	282.5	277.4	272.5	264.8	256.1	245.2	231.7	213.6
35°	308.3	307.3	304.7	302.6	298.4	291.2	282.1	274.0	262.9	249.2	229.7
37.5°	329.8	327.9	325.0	323.7	318.5	309.6	300.2	291.2	281.2	267.2	246.1
40°	350.1	349.1	345.8	344.2	338.7	327.6	317.1	309.1	300.2	285.4	263.3
42.5°	370.9	369.3	366.0	364.4	357.7	345.2	334.2	326.8	319.0	304.5	280.5
45°	389.3	388.6	384.7	383.8	375.9	362.2	349.6	343.2	336.3	322.5	296.4
47.5°	407.3	405.7	403.1	401.9	392.6	377.2	364.8	359.2	353.7	340.9	313.4
50°	422.1	421.8	419.5	418.0	407.3	390.6	377.8	373.4	370.5	358.2	328.8
52.5°	434.6	434.4	433.1	431.5	420.1	402.6	389.5	386.4	385.4	374.1	342.3
55°	443.6	443.3	442.9	441.3	430.2	412.2	399.3	396.8	397.9	387.4	354.6
57.5°	448.7	448.4	449.2	448.0	436.4	418.7	406.2	405.5	408.2	398.7	363.6
60°	449.2	449.2	450.7	450.1	439.8	422.3	410.3	410.5	414.9	405.9	369.5
62.5°	444.9	444.9	448.4	447.7	438.8	422.1	411.1	413.0	418.5	409.8	371.5
65°	435.8	436.9	441.0	441.0	433.9	418.7	408.6	411.6	418.3	409.6	370.2
67.5°	421.3	423.6	429.3	429.7	424.8	411.6	402.6	406.7	414.1	405.0	364.4
70°	403.2	406.7	412.4	414.1	412.0	401.1	393.5	398.2	405.5	396.3	354.7
72.5°	382.3	385.4	392.7	394.6	395.4	386.7	380.9	386.5	392.4	382.6	341.4
75°	359.0	361.6	369.9	371.8	374.9	369.9	366.1	370.6	377.2	365.0	324.4
77.5°	330.7	335.2	344.5	346.6	352.4	350.1	347.3	352.7	357.5	344.7	304.5
80°	303.4	308.9	316.7	320.9	327.9	327.6	328.2	331.7	335.8	321.9	283.1
82.5°	275.6	279.6	288.6	292.7	303.4	306.0	306.0	310.6	312.0	296.4	259.9
85°	247.6	252.2	261.3	265.3	276.9	282.5	284.3	286.6	286.7	270.4	236.2
87.5°	222.8	225.7	234.3	239.2	251.7	258.4	260.4	263.3	261.3	245.2	211.6
90°	198.0	200.6	209.0	213.0	226.8	234.5	239.2	240.3	236.6	219.5	189.2
92.5°	174.9	177.4	185.4	190.1	203.6	211.8	216.2	217.2	213.0	195.7	167.4
95°	154.6	154.6	163.2	166.7	181.9	191.0	195.2	195.2	189.5	172.4	146.7
97.5°	135.5	136.0	142.7	147.1	161.2	170.7	175.2	175.3	167.3	151.2	129.1
100°	118.1	118.8	125.1	129.1	142.7	152.7	156.8	156.0	147.6	131.1	111.6
102.5°	103.9	103.9	109.4	112.6	125.5	135.5	139.1	137.8	129.1	113.2	97.3
105°	91.1	91.5	95.0	98.4	110.5	119.8	123.5	121.5	112.6	97.1	85.0
107.5°	80.8	80.6	83.0	85.2	96.7	105.6	108.9	106.3	96.9	83.2	73.8
110°	70.5	70.7	72.7	74.3	84.8	93.2	95.5	93.5	83.0	70.7	64.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	62.3	62.3	63.8	65.1	72.7	80.8	83.6	80.6	70.5	60.0	55.9
115°	55.3	55.5	56.1	56.8	63.1	70.5	72.9	69.1	59.3	51.4	48.6
117.5°	49.2	49.2	49.4	50.2	54.2	60.9	62.6	58.6	50.2	43.8	42.7
120°	44.1	43.8	43.7	43.8	46.7	51.7	53.3	49.2	41.9	38.1	37.1
122.5°	39.3	39.3	38.7	38.9	39.7	43.5	44.6	40.9	35.3	33.0	32.7
125°	34.6	34.6	34.0	33.9	33.6	35.6	35.9	33.1	29.1	28.4	28.2
127.5°	30.2	30.4	29.6	29.5	28.4	28.7	28.9	26.4	24.1	24.3	24.6
130°	26.4	26.4	25.7	25.2	23.9	22.6	22.2	20.5	19.7	20.5	21.3
132.5°	22.8	22.4	22.0	21.5	19.5	17.7	16.8	15.5	15.9	17.2	18.0
135°	19.1	19.0	18.2	18.0	15.9	13.4	11.7	11.1	12.5	14.3	14.7
137.5°	15.6	15.6	14.9	14.6	12.1	9.6	7.9	7.9	9.6	11.1	12.1
140°	12.3	12.3	11.7	11.1	9.2	6.6	4.9	5.1	6.9	8.7	9.3
142.5°	9.3	9.3	8.7	8.4	6.6	4.2	2.9	3.2	4.9	6.3	6.9
145°	6.7	6.6	6.1	5.7	4.2	2.5	1.3	1.8	3.1	4.2	4.9
147.5°	4.4	4.4	4.0	3.8	2.5	1.3	0.4	1.0	1.8	2.5	3.2
150°	2.5	2.5	2.3	2.1	1.3	0.4	0.0	0.4	1.0	1.3	1.8
152.5°	1.3	1.3	1.2	1.2	0.4	0.2	0.0	0.0	0.2	0.7	0.7
155°	0.4	0.4	0.4	0.4	0.2	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	0.2
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°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	99.9	99.3	97.8	96.7	95.5	94.1	93.5	92.7	92.3	91.7	91.7
5°	101.4	99.9	97.3	94.9	92.4	90.4	88.6	87.1	86.3	86.0	85.7
7.5°	104.5	102.2	98.1	94.1	90.5	87.3	84.8	82.6	81.4	80.8	80.6
10°	108.3	105.3	99.9	94.6	89.9	85.7	82.3	79.6	78.1	77.3	76.8
12.5°	113.7	110.0	102.9	96.2	90.1	85.0	80.6	77.8	76.1	75.2	75.2
15°	121.9	117.0	108.3	99.3	91.7	85.5	80.6	77.6	76.4	75.8	75.6
17.5°	131.2	125.7	115.2	104.7	95.0	87.1	82.6	80.8	79.2	78.5	78.5
20°	141.6	134.7	122.6	110.8	99.9	91.7	86.9	83.8	81.9	81.2	81.0
22.5°	151.9	144.7	130.6	117.0	105.1	97.8	90.9	87.1	84.8	83.8	83.6
25°	163.5	155.8	139.0	123.7	112.4	104.2	95.9	90.5	87.6	86.3	86.1
27.5°	176.1	166.9	148.3	131.1	119.4	109.8	100.7	93.5	90.4	89.0	88.8
30°	189.2	179.1	157.7	138.5	126.1	114.7	105.1	96.9	93.0	91.3	91.1
32.5°	202.9	191.0	167.7	147.3	132.4	119.1	108.9	100.3	95.3	93.5	93.5
35°	218.4	204.5	177.4	155.5	138.2	123.5	112.1	103.2	97.3	95.5	95.5
37.5°	233.1	218.1	188.0	164.4	143.5	127.0	114.7	106.0	99.5	97.1	97.1
40°	248.7	231.7	198.0	171.7	148.3	129.8	117.0	108.2	101.1	99.1	98.5
42.5°	263.9	245.2	208.8	179.1	152.3	132.2	118.8	110.0	102.5	99.9	99.7
45°	279.8	258.8	219.0	185.2	155.5	133.8	119.8	111.2	104.2	100.9	100.4
47.5°	293.6	271.6	229.1	190.6	158.1	134.7	120.6	112.1	105.1	101.4	100.9
50°	307.3	283.1	237.5	195.0	159.4	135.3	120.7	112.4	105.8	101.4	100.9
52.5°	319.7	293.7	244.8	198.0	160.2	134.9	120.6	112.4	106.0	100.9	100.4
55°	329.9	302.4	249.9	200.0	160.2	134.2	119.8	111.8	105.8	100.4	99.7
57.5°	337.8	308.3	253.4	200.4	159.0	132.9	118.7	111.2	105.1	99.5	98.5
60°	342.3	311.5	254.6	199.2	157.2	131.2	117.3	110.2	104.5	98.1	97.3
62.5°	343.8	312.0	253.4	196.9	154.6	128.8	115.2	108.5	102.9	96.5	95.8
65°	341.4	309.5	250.1	193.1	151.2	126.1	113.0	106.7	101.4	94.6	94.0
67.5°	335.2	303.8	244.2	188.0	147.1	122.9	110.8	104.7	99.5	92.4	91.1
70°	325.7	295.5	236.9	181.6	142.6	119.4	107.8	102.0	96.9	90.1	88.8
72.5°	312.3	284.0	227.0	174.0	137.1	115.6	104.5	99.1	94.1	87.3	85.5
75°	295.9	269.3	215.4	166.0	131.5	111.2	100.9	95.8	90.9	84.1	82.5
77.5°	277.7	254.0	202.7	156.9	125.0	106.7	97.1	92.3	87.1	80.6	78.2
80°	257.9	235.9	189.0	147.6	118.8	101.8	93.0	88.3	83.2	76.8	74.3
82.5°	236.3	217.2	175.2	138.2	112.1	96.9	88.8	84.1	78.7	72.7	70.1
85°	215.4	198.0	160.6	128.2	105.6	91.7	84.1	79.4	74.5	68.2	65.8
87.5°	193.7	178.7	146.5	118.3	99.1	86.9	79.6	74.6	69.6	63.8	62.0
90°	174.7	160.4	133.0	109.1	92.3	81.4	75.0	69.8	64.9	59.3	57.8
92.5°	154.6	142.9	120.1	100.3	86.0	76.4	70.2	65.3	60.0	54.6	53.4
95°	137.4	127.7	108.2	91.3	79.2	71.4	65.7	60.5	55.2	49.9	49.2
97.5°	120.7	112.7	96.5	83.2	73.3	66.4	60.7	55.9	50.2	45.5	45.0
100°	106.0	99.1	86.0	75.6	67.1	61.4	56.2	51.2	45.5	41.1	41.1
102.5°	92.4	87.1	76.5	67.9	61.4	56.1	51.4	46.3	40.7	36.9	37.1
105°	81.4	76.4	67.7	61.2	55.9	50.9	46.5	41.3	35.9	33.0	33.1
107.5°	71.0	67.1	60.0	54.3	50.2	46.3	41.6	36.7	31.4	29.5	29.6
110°	62.0	58.8	53.3	48.6	45.4	41.6	37.4	32.2	27.3	26.2	26.2



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	54.0	51.4	47.3	43.5	40.2	37.1	32.7	28.0	23.4	22.8	22.8
115°	47.3	45.4	41.3	38.3	35.9	33.0	28.9	24.1	20.3	20.1	20.3
117.5°	41.3	39.7	36.4	33.9	31.8	28.9	25.2	20.5	17.2	17.4	17.7
120°	36.2	35.0	32.2	30.2	28.0	25.4	21.5	17.2	15.2	15.5	15.5
122.5°	32.0	30.8	28.4	26.4	24.6	22.0	18.4	14.6	13.0	13.6	13.6
125°	27.8	27.0	24.8	22.8	21.0	18.4	15.2	11.9	11.1	11.7	11.7
127.5°	24.1	23.5	21.6	19.7	17.7	15.5	12.3	9.8	9.6	10.1	10.1
130°	20.8	20.3	18.7	16.8	14.7	12.5	9.6	7.9	8.2	8.7	8.9
132.5°	17.7	17.4	15.9	13.7	11.9	9.8	7.5	6.6	6.9	7.5	7.5
135°	14.7	14.6	13.4	11.5	9.3	7.5	5.6	5.1	5.7	6.3	6.3
137.5°	12.1	11.7	10.7	8.9	6.9	5.4	4.0	4.2	4.8	5.1	5.1
140°	9.6	9.3	8.4	6.7	4.9	3.6	2.9	3.2	4.0	4.2	4.2
142.5°	6.9	6.9	6.1	4.8	3.1	2.1	1.8	2.3	3.1	3.2	3.2
145°	4.9	4.9	4.2	3.1	1.8	1.0	1.0	1.6	2.1	2.3	2.5
147.5°	3.2	3.1	2.5	1.8	1.0	0.2	0.4	1.2	1.3	1.6	1.6
150°	1.8	1.8	1.3	1.0	0.4	0.0	0.2	0.4	0.7	1.0	1.2
152.5°	0.7	0.7	0.4	0.2	0.2	0.0	0.0	0.0	0.2	0.4	0.4
155°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.0	0.2	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)