

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: P266288

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
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-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897.2 lumens
Efficiency: N/A
Efficacy: 90.3 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

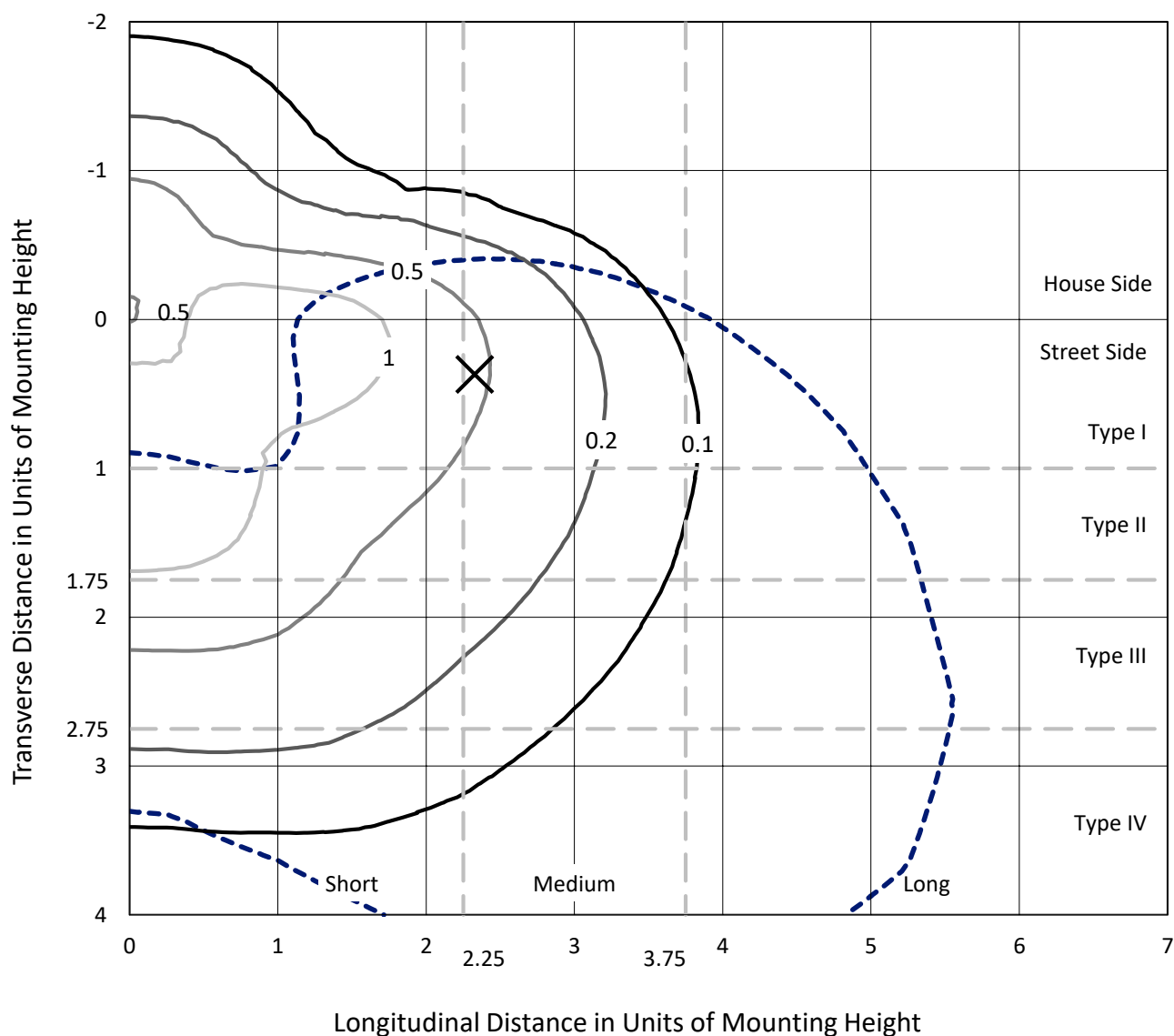


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

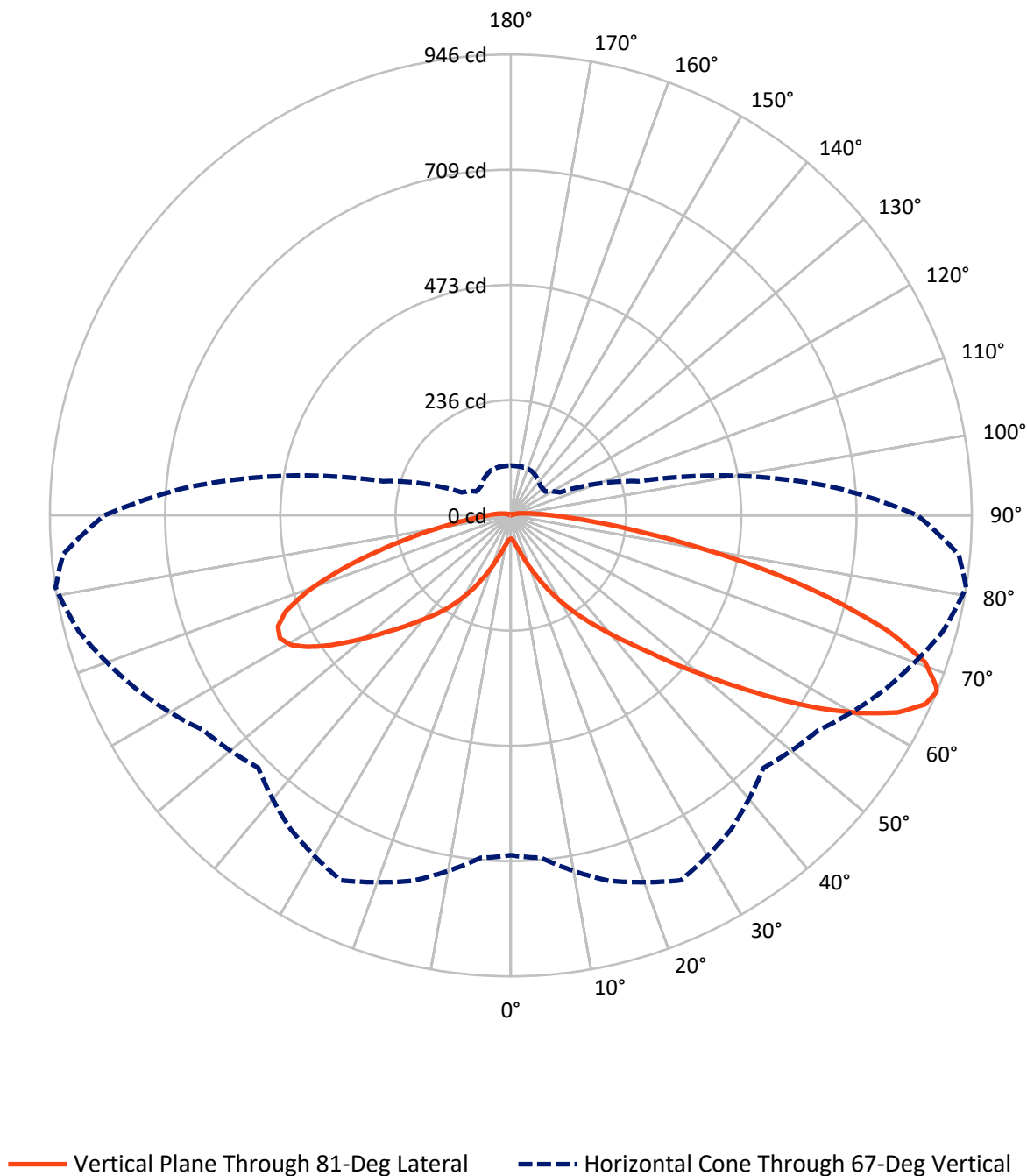


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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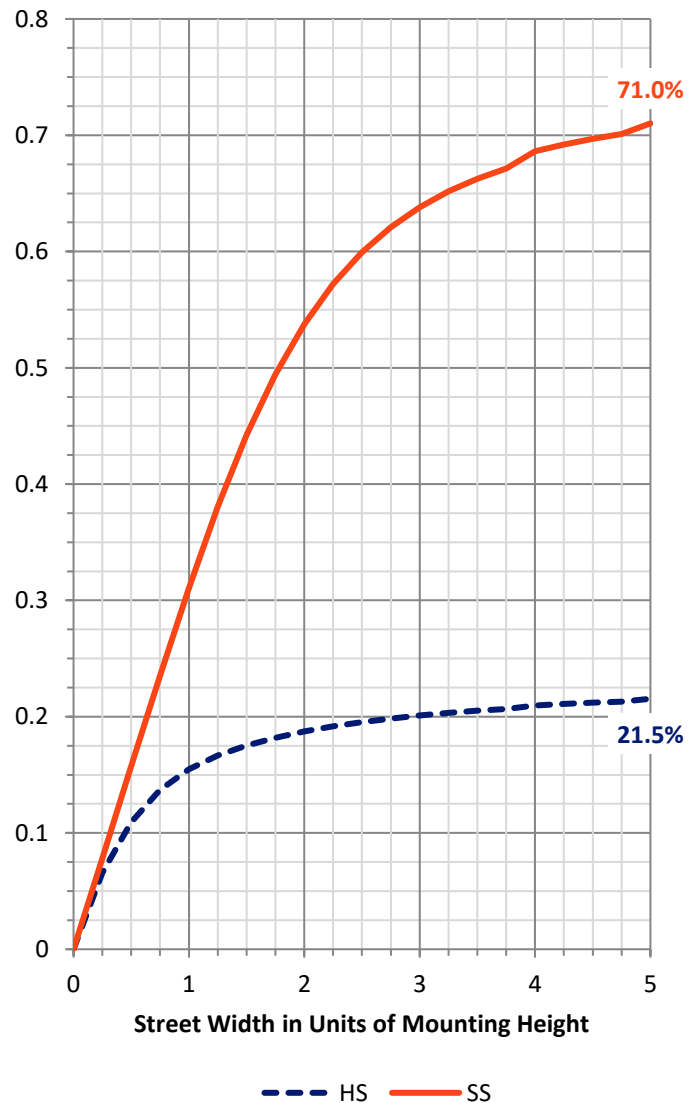
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.2	34.7	465.9
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	1391.7	39.6	1431.4
	% Fixture	73.4	2.1	75.4
Total	Lumens	1822.9	74.3	1897.2
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.3
10°-20°	24.0	1.3
20°-30°	64.7	3.4
30°-40°	129.9	6.8
40°-50°	219.5	11.6
50°-60°	350.9	18.5
60°-70°	479.5	25.3
70°-80°	395.3	20.8
80°-90°	153.9	8.1
90°-100°	44.3	2.3
100°-110°	17.0	0.9
110°-120°	7.3	0.4
120°-130°	3.5	0.2
130°-140°	1.6	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°	1822.9	96.1
0°-180°	1897.2	100.0

Coefficient of Utilization



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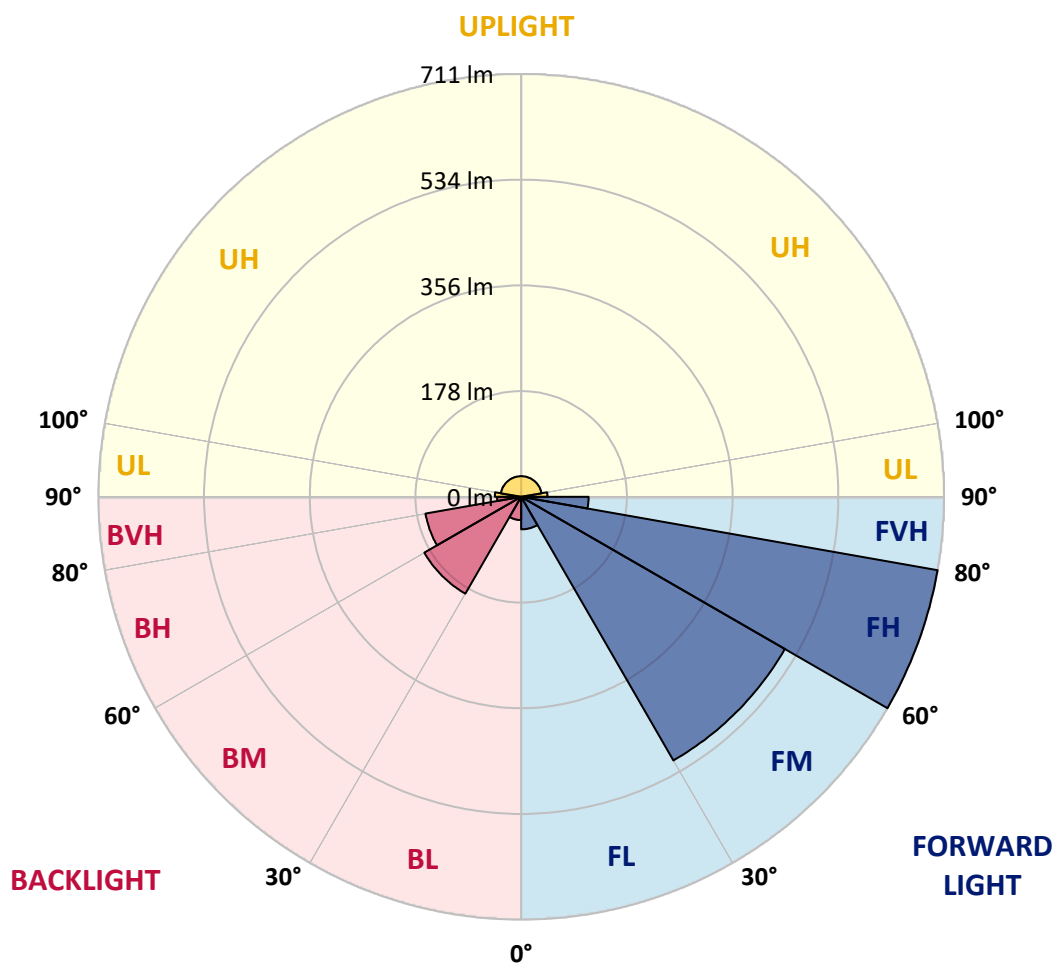
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.8	2.9			
FM	(30°-60°)	512.2	27.0			
FH	(60°-80°)	711.4	37.5			G1/1800
FVH	(80°-90°)	113.4	6.0			G2/225
BL	(0°-30°)	39.2	2.1	B0/110		
BM	(30°-60°)	188.1	9.9	B0/220		
BH	(60°-80°)	163.4	8.6	B1/500		G1/500
BVH	(80°-90°)	40.5	2.1			G1/100
UL	(90°-100°)	44.3	2.3		U2/50	
UH	(100°-180°)	34.7	1.8		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°	81°	85°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	51.9	51.9	51.9	51.7	51.5	50.9	50.5	49.9	49.8	49.4	49.2
5°	57.2	57.5	57.2	57.0	56.2	55.5	54.5	53.9	52.9	52.5	52.1
7.5°	65.1	65.1	64.9	63.7	63.1	61.9	60.6	59.2	58.2	57.5	56.6
10°	75.4	74.9	74.4	73.1	71.4	69.6	68.1	66.5	64.7	64.1	63.3
12.5°	87.5	87.5	86.1	84.5	81.3	79.4	77.1	75.1	73.4	72.5	72.0
15°	103.6	102.9	100.7	98.1	94.1	90.3	87.7	86.1	84.5	84.5	82.9
17.5°	120.1	120.7	117.4	113.2	107.9	103.0	100.0	99.7	99.1	98.5	98.3
20°	141.6	140.8	136.6	129.6	121.9	116.2	113.9	114.3	116.2	115.9	115.0
22.5°	164.7	164.7	158.5	148.9	138.1	131.2	128.9	131.2	135.3	135.3	135.7
25°	192.1	191.2	183.3	169.1	155.9	146.9	145.9	149.2	156.5	157.7	157.3
27.5°	223.0	219.7	209.3	191.7	174.6	164.2	162.6	168.8	178.8	182.0	183.3
30°	255.9	256.1	240.2	217.3	194.2	180.4	179.7	189.8	201.6	207.4	208.9
32.5°	293.8	292.7	274.3	245.5	215.7	197.7	197.1	211.0	226.1	233.5	234.5
35°	340.9	335.3	314.9	277.1	237.8	217.6	217.1	232.3	251.9	261.2	263.7
37.5°	384.1	381.3	357.9	310.1	263.3	237.6	236.7	256.5	279.6	290.5	293.8
40°	434.6	431.2	403.7	349.1	293.3	260.8	260.2	282.7	309.6	323.3	326.3
42.5°	484.1	482.0	452.2	392.6	325.2	286.9	285.9	312.0	343.6	359.1	362.6
45°	537.2	531.6	503.1	437.0	360.7	317.0	317.6	345.8	385.0	403.0	406.7
47.5°	582.6	579.2	555.2	485.1	399.8	349.9	350.6	388.2	435.9	456.9	458.6
50°	632.1	630.3	606.3	536.1	446.9	390.8	391.9	434.4	491.8	515.9	524.4
52.5°	673.2	673.4	655.4	588.4	493.3	434.6	438.3	489.4	552.6	585.1	590.1
55°	713.3	712.0	701.4	645.9	548.3	483.8	488.0	550.3	625.4	664.4	671.3
57.5°	742.3	745.5	746.6	700.9	601.8	533.5	546.9	613.5	704.6	746.6	752.6
60°	762.3	763.7	780.6	756.3	659.4	591.9	609.4	683.8	779.0	823.1	827.0
62.5°	760.3	766.7	799.5	797.8	715.4	647.4	669.9	749.7	843.7	890.5	891.2
65°	734.5	745.0	800.0	824.1	761.9	700.0	729.0	809.2	896.8	934.0	924.4
67°	697.2	705.1	775.9	825.8	786.9	732.6	769.3	845.8	917.8	945.6	922.1
67.5°	681.5	695.6	767.0	824.1	789.6	739.7	775.9	855.5	922.1	942.0	916.8
70°	605.8	617.0	696.8	789.6	790.6	760.9	802.8	867.0	905.8	901.4	855.9
72.5°	503.4	508.5	596.1	713.6	754.3	752.4	794.9	837.1	836.6	807.9	752.9
75°	381.5	395.1	473.9	599.1	678.8	705.3	743.9	757.9	724.7	676.3	609.7
77.5°	269.2	276.1	345.9	471.2	573.7	623.2	650.6	643.9	582.6	525.7	465.3
80°	174.4	181.1	229.2	337.6	449.8	502.7	527.6	508.4	446.5	379.5	328.9
82.5°	105.6	111.3	145.2	226.6	330.5	389.8	402.4	383.7	314.9	259.3	219.5
85°	61.9	66.5	90.1	146.1	225.2	281.3	285.9	264.6	211.6	173.4	146.3
87.5°	37.6	40.1	57.0	93.5	149.5	189.8	199.2	179.4	142.6	115.9	98.5
90°	24.3	26.1	36.4	61.4	98.1	125.4	131.2	119.7	96.6	79.0	67.8
92.5°	16.7	18.3	25.3	41.1	64.5	83.1	86.6	78.7	64.9	55.5	49.4
95°	12.8	13.6	19.4	28.9	43.9	55.5	58.8	53.5	45.5	40.9	37.2
97.5°	10.4	10.9	15.5	22.5	31.9	39.9	41.3	37.4	33.5	30.6	28.9
100°	9.0	9.2	13.0	18.3	24.9	30.3	30.9	27.9	25.3	24.0	22.5
102.5°	7.9	8.3	11.4	15.7	20.3	24.0	24.0	21.6	19.4	18.3	17.6
105°	6.9	7.2	10.2	13.6	17.3	19.6	19.6	17.2	15.0	14.1	13.7
107.5°	6.3	6.5	8.8	11.9	14.7	16.3	16.2	13.7	11.4	10.4	10.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	5.7	5.7	7.7	10.4	12.5	14.1	13.2	11.0	8.8	7.9	8.3
112.5°	5.3	5.3	6.7	9.0	11.0	12.0	11.0	9.2	6.7	6.3	6.5
115°	5.1	5.1	6.1	7.9	9.6	10.2	9.4	7.5	5.6	5.1	5.3
117.5°	4.6	4.6	5.6	6.9	8.3	8.8	7.9	6.1	4.6	4.3	4.6
120°	4.3	4.3	4.9	6.1	7.2	7.5	6.7	5.1	3.9	3.9	4.1
122.5°	4.1	4.1	4.6	5.3	6.3	6.5	5.7	4.1	3.4	3.4	3.7
125°	4.1	4.1	4.1	4.9	5.3	5.6	4.9	3.7	3.1	3.1	3.4
127.5°	3.9	3.9	3.9	4.1	4.6	4.6	4.1	3.0	2.6	3.0	3.0
130°	3.7	3.7	3.7	3.9	4.1	3.9	3.4	2.4	2.4	2.6	2.6
132.5°	3.4	3.4	3.4	3.4	3.4	3.1	2.6	2.2	2.2	2.4	2.4
135°	3.1	3.1	3.1	3.0	3.0	2.6	2.2	1.6	1.9	2.2	2.2
137.5°	3.0	3.0	3.0	2.6	2.4	1.9	1.4	1.4	1.6	1.9	1.9
140°	2.6	2.6	2.4	2.2	1.9	1.4	1.0	1.2	1.4	1.4	1.6
142.5°	2.2	2.2	2.2	1.6	1.2	1.0	0.7	0.7	1.2	1.2	1.2
145°	1.9	1.9	1.6	1.4	1.0	0.4	0.2	0.4	0.7	1.0	1.0
147.5°	1.4	1.4	1.4	1.0	0.4	0.2	0.2	0.2	0.4	0.7	0.7
150°	1.2	1.2	1.0	0.7	0.2	0.0	0.0	0.2	0.4	0.4	0.4
152.5°	0.7	0.7	0.7	0.4	0.0	0.0	0.0	0.2	0.2	0.2	0.2
155°	0.4	0.4	0.4	0.2	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	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	49.0	48.8	48.5	48.1	47.8	47.3	46.8	46.6	46.4	46.4	46.4
5°	51.7	51.5	50.8	49.8	49.0	48.2	47.8	47.3	46.8	46.8	46.8
7.5°	56.1	55.5	54.1	53.1	51.9	50.9	50.2	49.4	49.2	49.2	49.0
10°	62.3	61.5	59.8	57.9	56.2	55.1	54.1	53.4	53.1	53.1	53.1
12.5°	70.4	69.6	66.8	64.5	61.9	60.1	58.8	58.7	58.8	58.8	58.7
15°	82.4	80.4	76.3	72.5	68.4	65.7	64.9	64.9	66.1	66.7	66.8
17.5°	96.6	94.1	88.7	82.4	76.0	72.5	72.0	73.4	76.0	77.3	77.1
20°	114.3	110.9	103.0	93.8	85.0	80.4	79.9	82.6	86.1	88.7	88.4
22.5°	133.9	130.9	119.3	105.6	93.5	88.2	87.5	91.7	97.0	99.7	100.7
25°	155.9	151.6	136.5	117.6	102.3	95.0	94.6	100.0	107.0	111.7	112.5
27.5°	179.9	174.8	154.8	129.6	110.1	100.4	100.3	107.4	117.0	123.2	123.3
30°	206.3	198.4	172.8	139.7	115.9	104.4	104.8	113.2	125.6	132.6	133.8
32.5°	232.3	223.6	189.4	149.7	119.7	106.2	107.0	117.6	131.2	140.0	141.0
35°	259.8	248.7	205.7	156.2	121.9	106.4	107.2	119.3	133.9	143.6	144.6
37.5°	287.5	274.3	219.5	161.1	121.9	105.0	106.0	118.8	133.8	143.6	144.4
40°	320.4	301.1	232.5	163.0	120.1	102.3	103.6	116.2	130.2	139.3	140.0
42.5°	354.6	331.3	244.9	162.6	116.6	99.1	100.3	111.7	124.1	131.6	132.3
45°	395.6	367.2	257.5	161.1	112.5	95.4	96.1	106.4	116.9	122.2	123.2
47.5°	446.0	405.9	270.2	158.5	107.9	91.9	92.4	101.7	109.1	112.5	113.2
50°	502.1	451.6	284.3	154.8	103.6	88.8	89.7	97.0	102.3	103.8	104.1
52.5°	568.4	503.2	297.2	150.5	99.7	86.4	87.5	94.1	97.7	98.1	98.3
55°	640.1	559.7	308.8	145.2	95.8	84.8	86.6	93.0	95.4	95.1	95.4
57.5°	715.1	614.0	316.8	139.5	92.7	83.8	87.0	93.0	95.4	95.0	95.4
60°	781.9	660.7	318.0	132.3	90.3	83.8	88.4	94.6	96.8	96.8	97.2
62.5°	829.5	687.5	310.1	125.0	88.2	84.4	90.3	96.8	99.1	99.1	99.5
65°	848.8	686.9	292.7	117.4	86.4	85.0	92.3	99.3	100.9	100.9	101.4
67°	834.3	664.4	270.2	111.6	85.5	85.7	93.8	100.7	102.1	101.9	102.1
67.5°	825.4	656.5	265.4	109.9	85.2	85.7	94.0	100.9	102.3	102.1	102.1
70°	751.4	588.7	232.0	102.6	83.5	85.7	95.0	101.4	102.3	101.9	101.9
72.5°	637.2	492.6	194.7	95.4	81.7	85.0	94.4	100.7	101.1	100.4	100.4
75°	506.9	385.4	159.9	89.1	79.0	83.4	92.7	98.5	99.3	98.5	97.7
77.5°	375.2	285.4	129.1	82.4	75.7	80.7	89.8	95.4	96.1	95.4	94.6
80°	261.8	202.8	104.1	75.5	71.8	76.7	85.7	90.5	91.4	91.0	89.8
82.5°	175.1	139.3	83.4	68.1	66.5	71.8	80.2	84.5	85.2	84.8	83.4
85°	119.6	97.0	68.8	60.1	60.6	65.7	72.9	76.3	77.1	76.3	74.9
87.5°	80.4	69.6	56.2	52.5	53.9	58.7	64.5	66.1	67.6	66.5	65.4
90°	58.2	52.5	45.5	44.6	47.2	51.3	55.1	55.2	57.2	56.8	54.7
92.5°	43.7	41.1	37.6	37.6	40.3	43.7	46.2	45.6	46.8	46.8	45.5
95°	34.6	33.1	31.4	32.1	34.6	36.9	37.6	36.7	37.9	38.2	37.6
97.5°	27.8	27.3	26.8	27.3	29.5	31.4	31.1	29.5	30.5	30.9	30.5
100°	22.5	22.2	22.5	23.4	25.2	26.3	25.6	24.0	24.7	24.7	24.7
102.5°	18.1	18.1	18.9	19.9	21.0	22.0	21.0	19.6	19.9	19.6	19.6
105°	14.3	14.6	15.5	16.7	17.6	18.1	17.2	15.7	15.5	14.7	15.0
107.5°	11.0	11.6	12.5	13.7	14.7	15.0	14.3	12.8	11.9	11.4	11.4



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.8	9.2	10.4	11.4	12.0	12.2	11.6	10.2	9.0	8.8	8.8
112.5°	6.9	7.5	8.4	9.4	10.2	10.2	9.4	8.3	6.7	6.5	6.5
115°	5.7	6.1	6.9	7.7	8.4	8.4	7.7	6.5	5.3	5.1	5.3
117.5°	4.9	5.1	5.7	6.5	6.9	6.9	6.3	5.1	4.1	4.1	4.1
120°	4.3	4.6	5.1	5.6	5.7	5.7	5.3	4.1	3.4	3.4	3.4
122.5°	3.9	3.9	4.3	4.6	5.1	4.9	4.3	3.4	2.6	3.0	3.0
125°	3.4	3.7	3.7	4.1	4.1	4.1	3.4	2.6	2.4	2.4	2.4
127.5°	3.1	3.1	3.4	3.4	3.7	3.4	2.6	1.9	1.9	2.2	2.2
130°	3.0	3.0	3.0	3.0	3.0	2.6	2.2	1.6	1.6	1.9	1.9
132.5°	2.4	2.6	2.6	2.4	2.4	2.2	1.6	1.2	1.4	1.4	1.4
135°	2.2	2.4	2.2	2.2	1.9	1.6	1.2	1.0	1.2	1.2	1.2
137.5°	1.9	1.9	1.9	1.6	1.4	1.2	1.0	0.7	1.0	1.0	1.0
140°	1.6	1.6	1.6	1.4	1.2	1.0	0.4	0.4	0.7	0.7	0.7
142.5°	1.2	1.4	1.2	1.0	0.7	0.4	0.2	0.2	0.4	0.7	0.4
145°	1.0	1.0	1.0	0.7	0.4	0.2	0.0	0.0	0.2	0.2	0.2
147.5°	0.7	0.7	0.7	0.4	0.2	0.2	0.0	0.0	0.0	0.2	0.2
150°	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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)