

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: P240317

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2962.5 lumens
Efficiency: N/A
Efficacy: 95.6 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): 31
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



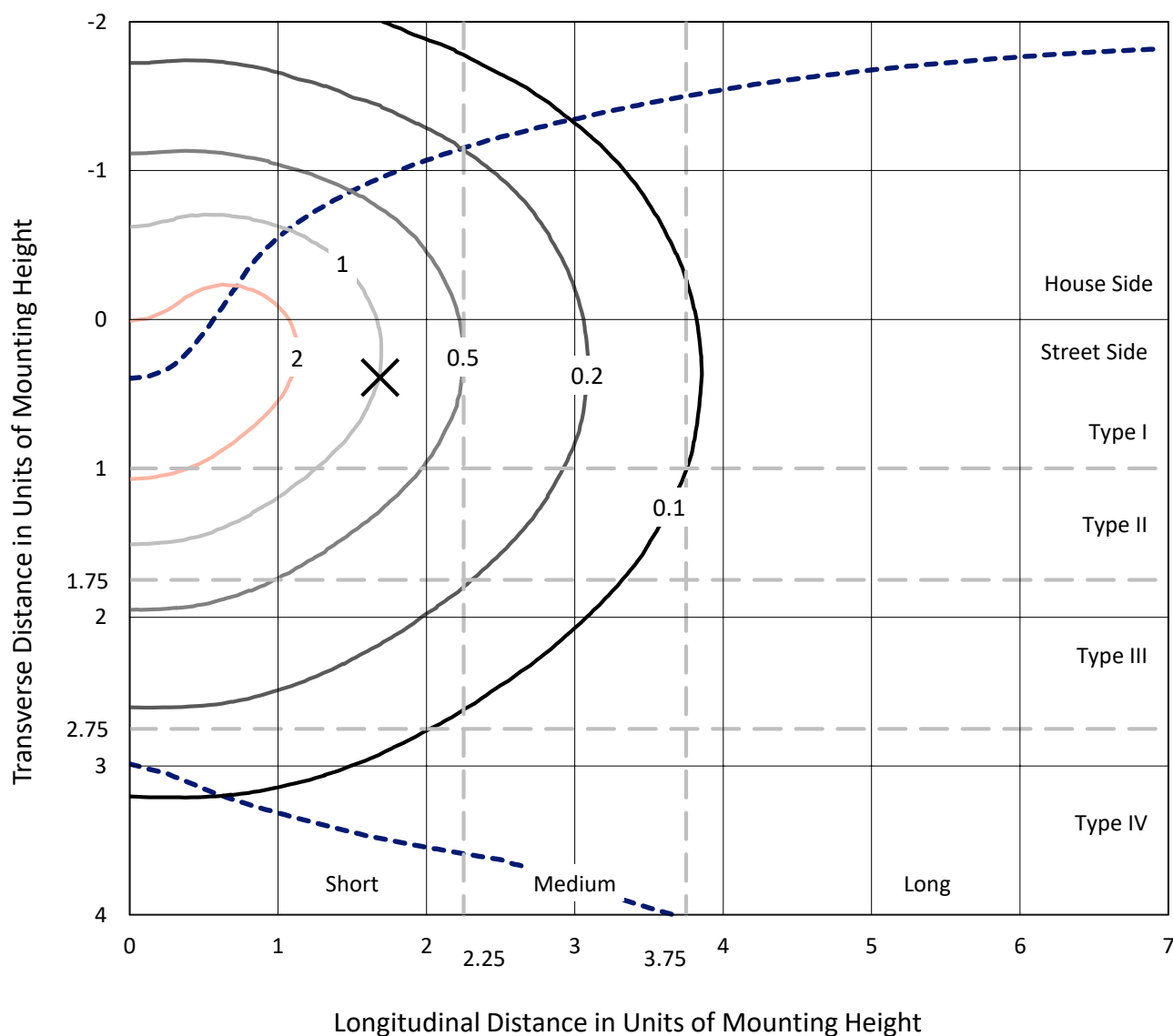
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

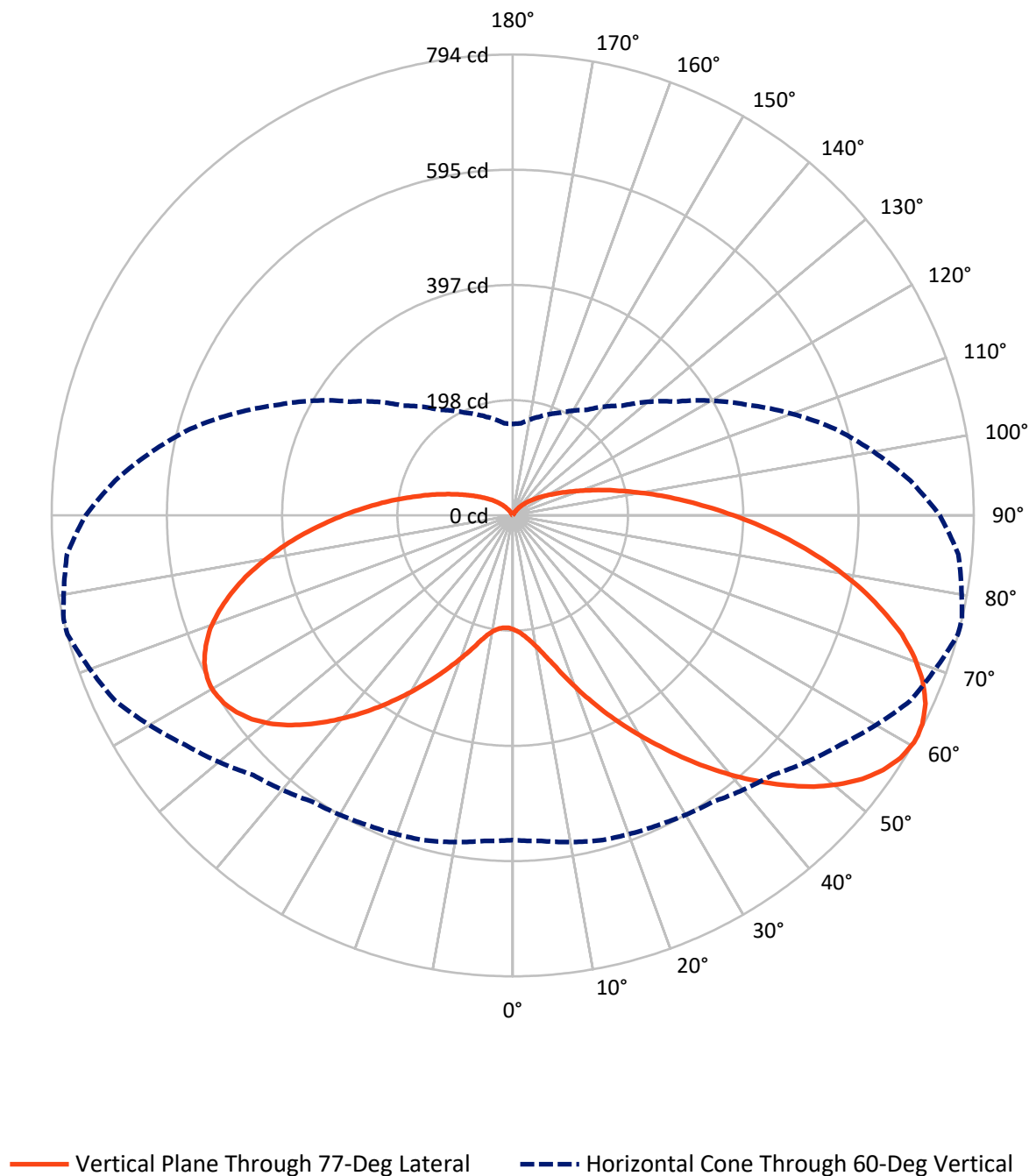


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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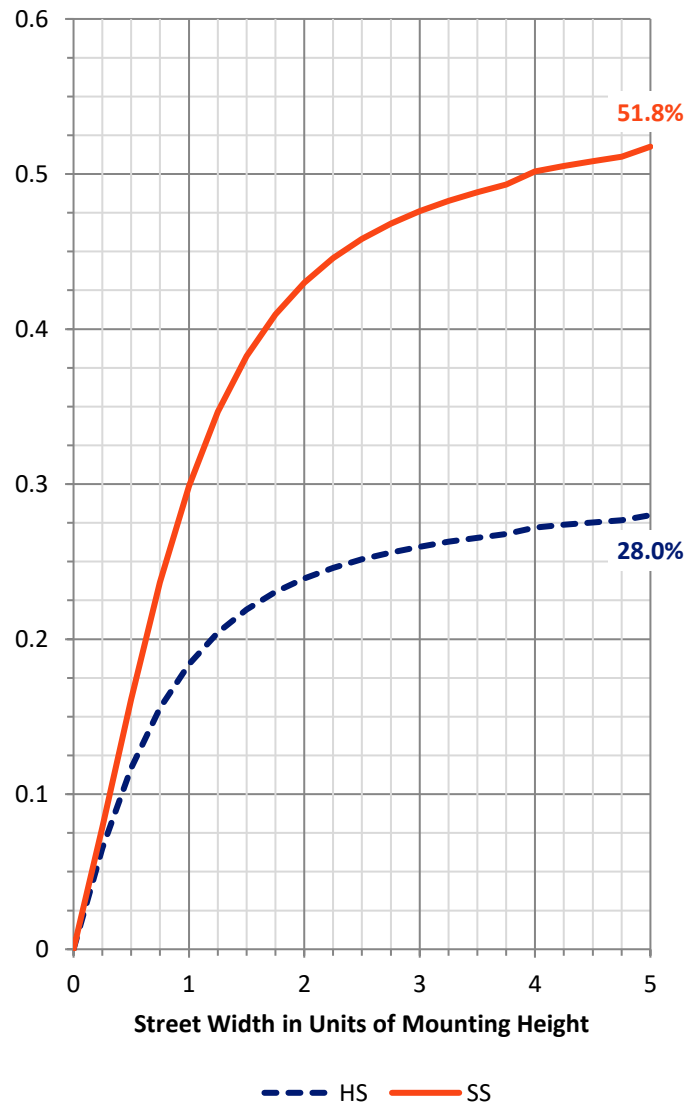
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.0	189.2	1070.2
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	1625.2	267.0	1892.3
	% Fixture	54.9	9.0	63.9
Total	Lumens	2506.2	456.3	2962.5
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	0.7
10°-20°	69.0	2.3
20°-30°	147.8	5.0
30°-40°	254.8	8.6
40°-50°	370.0	12.5
50°-60°	455.3	15.4
60°-70°	471.8	15.9
70°-80°	411.3	13.9
80°-90°	306.6	10.3
90°-100°	202.7	6.8
100°-110°	123.7	4.2
110°-120°	70.9	2.4
120°-130°	37.5	1.3
130°-140°	16.6	0.6
140°-150°	4.6	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2506.2	84.6
0°-180°	2962.5	100.0

Coefficient of Utilization



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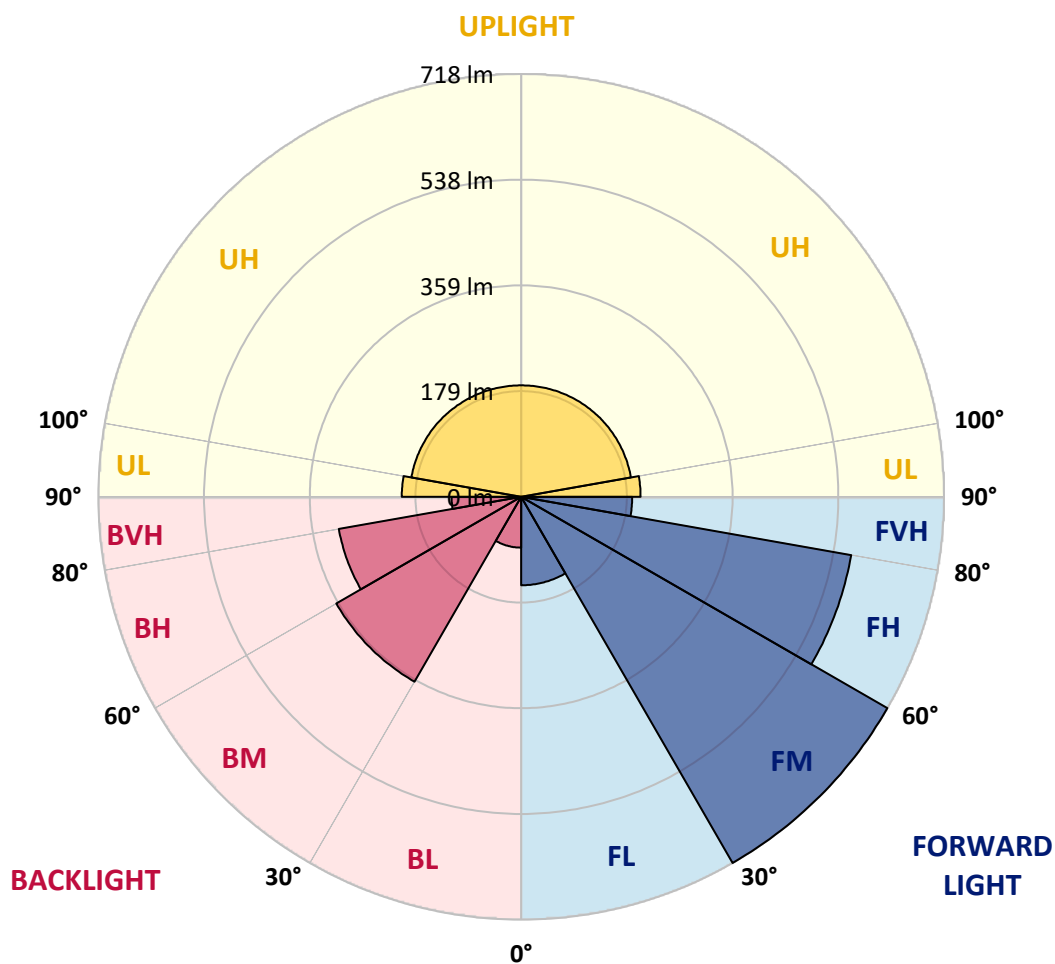
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.1	5.1			
FM	(30°-60°)	717.7	24.2			
FH	(60°-80°)	568.9	19.2			G0/660
FVH	(80°-90°)	188.5	6.4			G2/225
BL	(0°-30°)	86.3	2.9	B0/110		
BM	(30°-60°)	362.4	12.2	B1/1000		
BH	(60°-80°)	314.2	10.6	B1/500		G1/500
BVH	(80°-90°)	118.1	4.0			G2/225
UL	(90°-100°)	202.7	6.8		U3/500	
UH	(100°-180°)	189.2	6.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6
2.5°	213.6	213.6	212.8	212.4	210.8	209.0	207.0	204.3	201.6	200.9	199.4
5°	232.0	232.0	231.3	229.3	226.7	223.2	218.9	214.7	209.3	208.2	204.0
7.5°	252.8	252.1	250.1	248.2	244.4	239.4	233.5	227.0	219.7	218.2	212.1
10°	273.6	273.6	271.7	268.6	263.9	257.5	250.5	242.4	232.8	230.9	222.8
12.5°	297.5	296.7	293.6	291.3	285.9	278.5	270.9	260.9	249.4	247.5	237.0
15°	322.8	322.4	319.8	314.8	308.6	301.7	293.6	282.8	270.5	267.4	255.8
17.5°	351.3	349.0	347.5	342.1	335.5	326.7	320.5	309.3	295.9	292.5	278.2
20°	377.5	377.9	374.4	369.8	363.7	357.5	348.6	338.6	324.0	319.4	303.2
22.5°	407.1	407.1	403.7	399.1	392.9	389.8	379.8	369.4	351.7	348.2	330.1
25°	437.9	436.7	433.3	429.0	426.0	422.1	412.9	400.6	382.5	379.0	358.6
27.5°	466.4	466.8	462.5	459.1	458.7	453.7	446.0	432.9	415.6	410.6	388.6
30°	495.6	496.0	493.0	488.7	489.1	486.0	479.5	466.0	449.5	443.7	420.2
32.5°	524.9	524.1	519.9	519.5	518.3	516.0	511.0	502.6	484.5	478.3	454.1
35°	551.1	551.1	546.8	548.3	546.1	545.6	544.1	537.6	521.4	515.3	489.1
37.5°	575.3	574.9	572.5	573.0	571.4	571.0	573.8	573.0	557.9	552.9	526.0
40°	597.6	595.3	593.3	594.8	593.3	595.7	602.2	606.8	594.1	590.2	562.9
42.5°	613.0	612.2	611.4	614.2	611.8	617.2	627.6	638.7	631.1	627.2	599.9
45°	625.3	623.8	625.3	628.0	626.5	633.4	651.8	668.8	668.8	663.4	635.3
47.5°	630.3	629.9	633.7	636.1	635.3	646.5	671.1	696.8	702.3	698.1	669.5
50°	629.1	629.1	635.3	638.7	639.5	654.2	685.3	719.1	731.5	728.0	699.9
52.5°	621.9	621.9	631.1	635.3	638.4	656.8	694.9	738.1	756.2	754.2	726.1
55°	607.9	607.6	619.5	624.9	631.5	654.2	698.8	750.3	775.4	773.9	748.4
57.5°	586.5	587.2	601.8	610.3	618.8	645.7	696.8	756.5	788.5	787.7	762.7
60°	559.1	562.9	579.5	589.1	601.8	632.2	688.8	755.3	793.4	793.8	770.4
61°	547.6	551.4	568.4	579.9	593.3	625.6	684.1	753.0	793.1	793.8	771.1
62.5°	529.1	531.4	551.4	565.3	579.9	613.8	674.9	746.9	790.3	791.6	770.0
65°	494.5	498.7	519.0	536.4	553.7	590.7	654.9	731.1	779.2	781.1	761.1
67.5°	456.3	461.4	484.9	504.8	524.9	564.2	630.3	708.4	759.2	761.5	744.2
70°	418.7	424.8	449.5	469.4	494.1	534.5	600.3	679.1	731.9	734.2	719.1
72.5°	380.1	387.1	412.5	435.6	460.6	501.8	566.8	644.6	697.7	700.7	686.8
75°	341.7	350.6	374.4	401.0	426.0	468.3	532.1	607.6	655.7	658.8	648.0
77.5°	307.1	314.8	338.2	365.9	393.2	433.6	494.5	563.7	613.8	615.3	605.7
80°	272.0	280.1	305.6	331.7	360.6	399.5	455.6	519.5	562.9	567.2	557.2
82.5°	240.9	249.0	272.8	301.3	329.0	366.3	415.9	474.0	512.5	517.2	510.2
85°	214.7	220.4	244.0	271.3	298.2	333.6	381.4	431.8	466.4	467.2	460.2
87.5°	188.5	194.7	217.1	243.6	270.9	303.2	344.0	387.5	415.6	418.3	411.3
90°	167.0	170.8	192.0	218.2	244.7	274.4	309.7	348.2	370.9	370.9	365.6
92.5°	148.1	150.1	171.2	196.2	221.7	247.0	278.2	307.8	327.4	327.0	320.9
95°	130.8	133.2	150.9	175.1	199.7	223.2	248.6	272.0	286.6	287.4	280.1
97.5°	115.4	117.0	133.5	157.4	179.3	201.2	222.4	241.3	250.9	251.2	245.9
100°	103.1	103.1	118.9	140.0	161.2	180.9	199.0	213.2	217.4	217.1	212.4
102.5°	92.4	91.6	105.1	125.4	145.1	162.0	176.7	185.9	189.3	188.1	185.1
105°	81.9	82.8	93.1	112.3	130.0	145.1	156.2	163.9	163.9	163.2	160.1
107.5°	74.3	73.9	81.9	99.6	116.6	129.7	138.5	142.4	141.3	140.0	138.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	66.6	66.6	72.7	89.3	103.9	115.8	121.9	124.3	120.8	120.4	120.1
112.5°	60.0	60.0	65.1	78.9	92.8	102.7	107.7	108.1	104.2	103.9	104.2
115°	55.0	55.0	57.7	70.1	82.8	91.6	95.9	93.9	90.0	89.6	90.8
117.5°	50.0	50.0	52.4	61.2	73.1	81.2	83.9	81.2	77.7	77.7	79.3
120°	45.8	45.8	46.5	53.5	64.2	71.2	73.1	70.1	67.3	67.3	68.8
122.5°	41.9	41.5	41.9	46.5	55.4	62.0	62.7	60.0	58.1	58.5	60.8
125°	38.1	38.1	37.7	40.4	47.7	53.1	53.9	50.8	50.8	50.8	52.7
127.5°	34.7	34.7	33.9	35.0	40.4	45.0	45.0	42.8	43.5	44.3	45.8
130°	31.5	31.5	30.8	30.8	33.5	37.3	37.3	35.8	37.7	38.1	39.6
132.5°	28.4	28.1	27.3	26.2	27.3	29.7	29.7	29.3	32.3	32.7	33.9
135°	25.4	25.1	24.2	22.3	21.9	22.7	22.7	23.8	26.9	27.3	28.8
137.5°	21.9	21.9	20.8	18.8	16.6	16.6	16.6	18.8	21.9	22.7	23.4
140°	18.8	18.8	17.7	15.3	12.3	11.2	11.6	14.6	17.7	18.1	18.8
142.5°	15.3	15.3	14.2	12.0	8.9	6.5	7.3	10.4	13.1	13.8	14.6
145°	12.0	12.0	10.7	8.5	5.4	3.5	4.2	7.3	9.2	9.6	10.4
147.5°	8.9	8.9	7.7	5.7	3.1	1.1	2.4	4.2	6.1	6.5	7.3
150°	5.7	5.7	5.0	3.1	1.5	0.0	0.8	2.4	3.5	3.9	4.2
152.5°	3.1	3.1	2.4	1.5	0.4	0.0	0.0	0.8	1.5	1.5	1.9
155°	1.5	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.8
157.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	0.4	0.4	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°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6
2.5°	197.7	196.2	193.1	190.9	188.1	185.9	183.9	182.4	182.0	180.9	181.3
5°	201.2	198.6	192.8	187.8	182.4	177.8	173.9	171.2	169.3	168.6	167.8
7.5°	207.8	203.2	194.7	186.6	178.9	172.0	165.8	162.0	159.0	157.4	157.4
10°	217.1	211.2	199.4	188.5	177.8	168.6	160.8	154.7	150.9	148.9	149.4
12.5°	229.8	222.0	207.5	192.8	179.7	167.8	157.4	150.9	146.2	143.9	143.9
15°	247.8	239.4	219.7	200.9	183.2	168.6	157.4	150.1	146.6	145.1	144.6
17.5°	269.8	258.6	236.3	213.6	191.3	173.2	162.0	155.1	150.1	148.1	147.7
20°	292.1	279.4	253.2	227.8	202.7	183.2	169.7	160.5	154.0	151.2	150.9
22.5°	317.4	302.8	272.0	242.0	215.1	196.2	177.4	165.4	157.7	154.3	154.0
25°	343.6	327.4	292.9	259.0	231.6	209.0	187.0	170.4	161.2	157.0	156.6
27.5°	371.3	354.0	314.4	275.9	247.5	220.9	195.9	175.1	164.3	159.7	159.3
30°	402.1	381.4	337.9	295.5	263.2	232.0	204.3	180.4	167.4	162.0	161.2
32.5°	434.0	410.9	361.7	316.3	277.8	242.0	211.2	186.3	170.4	164.3	163.9
35°	467.5	441.7	386.4	336.7	290.9	250.9	217.4	191.3	172.8	166.2	165.4
37.5°	502.6	474.0	412.1	355.9	303.6	258.6	222.4	195.5	175.1	167.4	166.6
40°	537.6	504.8	437.5	375.5	315.2	265.1	226.7	198.6	176.7	168.6	167.8
42.5°	571.4	538.0	463.3	393.6	325.2	270.2	229.8	201.2	178.2	169.3	168.2
45°	604.5	569.5	487.9	409.1	333.6	273.9	231.6	202.7	180.0	169.3	168.2
47.5°	637.6	599.1	512.2	422.5	339.8	276.7	232.4	203.6	181.3	168.9	167.8
50°	667.6	625.6	533.0	434.4	344.4	277.4	232.0	203.2	181.6	168.2	166.6
52.5°	692.2	649.2	550.2	442.9	347.1	277.0	230.9	202.4	181.3	166.6	165.4
55°	713.4	667.3	562.9	448.3	347.1	275.2	228.9	200.9	179.7	164.7	163.2
57.5°	727.2	680.7	571.4	450.6	345.6	271.7	225.5	198.1	178.2	162.0	160.5
60°	735.3	687.2	574.9	449.1	341.4	267.1	221.7	195.1	175.8	159.0	157.4
61°	736.1	688.0	574.9	447.5	339.4	265.1	220.1	194.0	174.7	157.7	155.8
62.5°	735.3	687.2	573.0	444.1	335.5	261.7	217.1	191.3	172.4	155.1	154.0
65°	727.6	680.0	565.3	435.2	327.0	254.7	211.6	187.0	168.6	151.2	149.4
67.5°	711.1	665.3	551.4	422.9	317.1	246.6	205.5	182.0	164.3	146.6	144.3
70°	687.2	643.7	534.1	408.7	305.9	237.8	198.6	176.3	159.0	142.0	138.9
72.5°	657.7	617.6	509.8	390.6	292.9	228.5	191.3	170.1	153.1	136.6	132.8
75°	620.6	584.1	482.9	370.5	278.2	217.8	183.5	163.2	146.6	130.8	126.6
77.5°	579.9	547.2	453.7	348.6	263.6	207.5	175.1	155.5	139.6	124.3	120.1
80°	535.2	506.8	420.5	325.5	248.2	196.6	166.6	148.1	132.8	117.7	112.7
82.5°	489.5	464.1	387.5	302.1	231.6	185.5	157.4	140.0	125.1	110.8	105.5
85°	442.9	420.9	354.0	277.8	215.1	174.3	148.9	132.0	117.0	103.5	98.9
87.5°	396.7	377.9	319.8	254.7	200.1	163.6	140.0	123.9	109.3	96.2	91.6
90°	353.6	337.5	288.2	233.2	185.1	152.4	131.2	115.8	101.6	88.5	85.4
92.5°	312.8	299.0	257.8	210.5	170.1	141.6	122.3	107.3	93.1	81.2	79.3
95°	275.9	262.8	230.1	190.5	156.2	132.0	113.9	99.6	85.4	74.3	72.7
97.5°	239.7	231.6	204.3	171.2	142.8	121.6	105.5	92.0	78.2	67.7	67.0
100°	209.7	201.2	179.3	153.5	130.4	112.3	97.4	84.3	71.2	61.6	61.2
102.5°	182.4	176.7	158.1	138.5	118.6	102.4	89.3	76.9	64.2	55.8	55.8
105°	159.3	154.0	140.0	123.2	107.0	93.9	81.2	69.3	57.3	50.0	50.4
107.5°	137.4	133.9	122.3	108.9	96.2	85.0	73.4	62.0	50.4	44.6	45.0



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CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	119.7	116.2	107.3	97.4	86.5	76.9	66.2	55.0	43.9	40.4	40.4
112.5°	103.9	101.6	94.3	86.2	77.7	69.3	59.6	48.5	38.5	35.8	36.2
115°	90.8	88.9	82.8	76.6	69.7	62.3	53.1	42.4	33.5	32.3	32.3
117.5°	78.9	77.7	72.7	67.3	62.0	55.4	47.0	36.5	28.8	28.8	28.8
120°	68.8	67.7	63.8	59.2	54.6	48.9	40.4	31.2	25.4	25.4	25.8
122.5°	60.5	59.6	55.8	52.4	48.1	42.4	34.7	26.2	22.3	22.7	22.7
125°	52.7	52.0	49.2	45.4	41.5	36.2	29.3	21.6	19.2	20.0	20.0
127.5°	45.8	45.4	42.8	39.3	35.4	30.8	23.8	18.1	17.0	17.7	17.7
130°	40.0	39.6	36.9	33.5	30.0	25.1	19.2	15.0	14.6	15.3	15.3
132.5°	34.3	33.9	31.5	28.1	24.7	20.0	15.0	12.0	12.7	13.5	13.5
135°	28.8	28.4	26.9	23.1	20.0	15.8	11.6	10.0	10.7	11.6	11.6
137.5°	23.8	23.4	21.9	18.5	15.0	11.6	8.5	8.1	8.9	9.6	9.6
140°	19.2	18.8	17.3	14.2	10.7	8.1	5.7	6.5	7.3	8.1	8.1
142.5°	14.6	14.6	13.5	10.7	7.3	5.0	3.9	5.0	5.7	6.5	6.5
145°	10.7	10.7	9.2	7.3	4.2	2.7	2.4	3.5	4.6	5.0	5.0
147.5°	7.3	7.3	6.1	4.6	2.4	1.1	1.5	2.4	3.1	3.5	3.9
150°	4.2	4.2	3.5	2.4	1.1	0.4	0.4	1.5	1.9	2.4	2.4
152.5°	1.9	1.9	1.5	0.8	0.4	0.4	0.4	0.4	1.1	1.1	1.1
155°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.4
157.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.4	0.4	0.4	0.4	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)