

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: P240147

Luminaire Tested: **UTLD-AF24-40-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3597.9 lumens
Efficiency: N/A
Efficacy: 89.9 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 - G3

Input Watts (W): 40
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



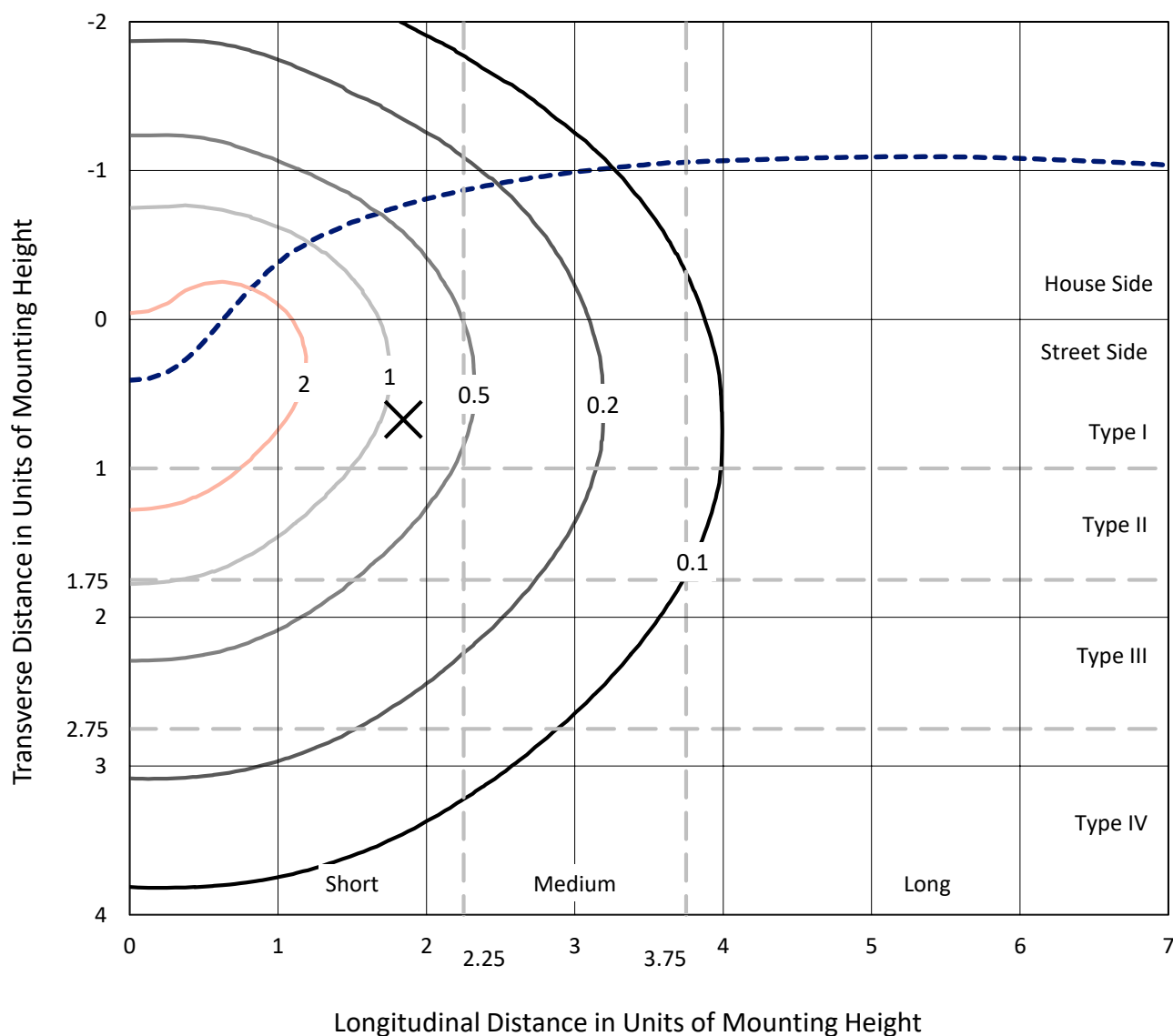
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

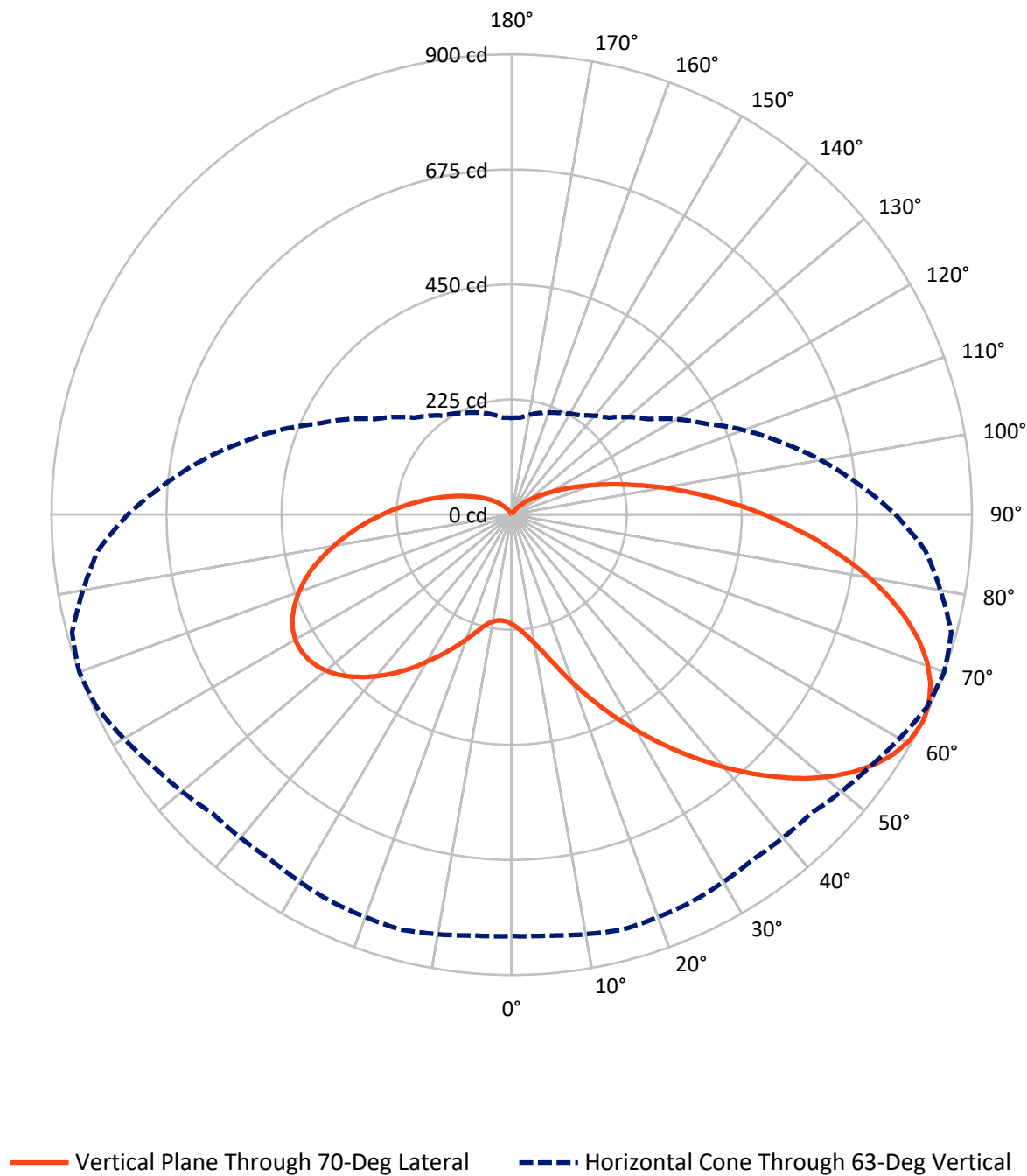


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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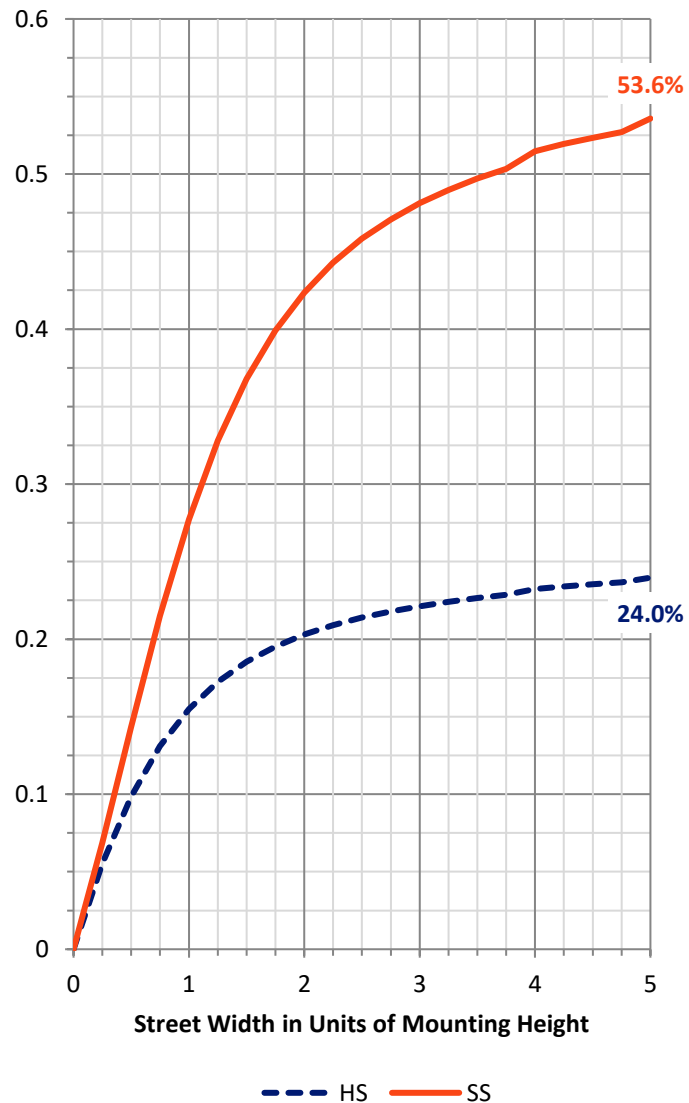
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	919.7	208.2	1127.8
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	2079.0	391.1	2470.1
	% Fixture	57.8	10.9	68.7
Total	Lumens	2998.6	599.3	3597.9
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.6
10°-20°	75.1	2.1
20°-30°	161.3	4.5
30°-40°	281.0	7.8
40°-50°	417.5	11.6
50°-60°	533.1	14.8
60°-70°	578.0	16.1
70°-80°	526.4	14.6
80°-90°	404.9	11.3
90°-100°	271.6	7.5
100°-110°	164.6	4.6
110°-120°	91.9	2.6
120°-130°	46.6	1.3
130°-140°	19.3	0.5
140°-150°	4.9	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2998.6	83.3
0°-180°	3597.9	100.0

Coefficient of Utilization



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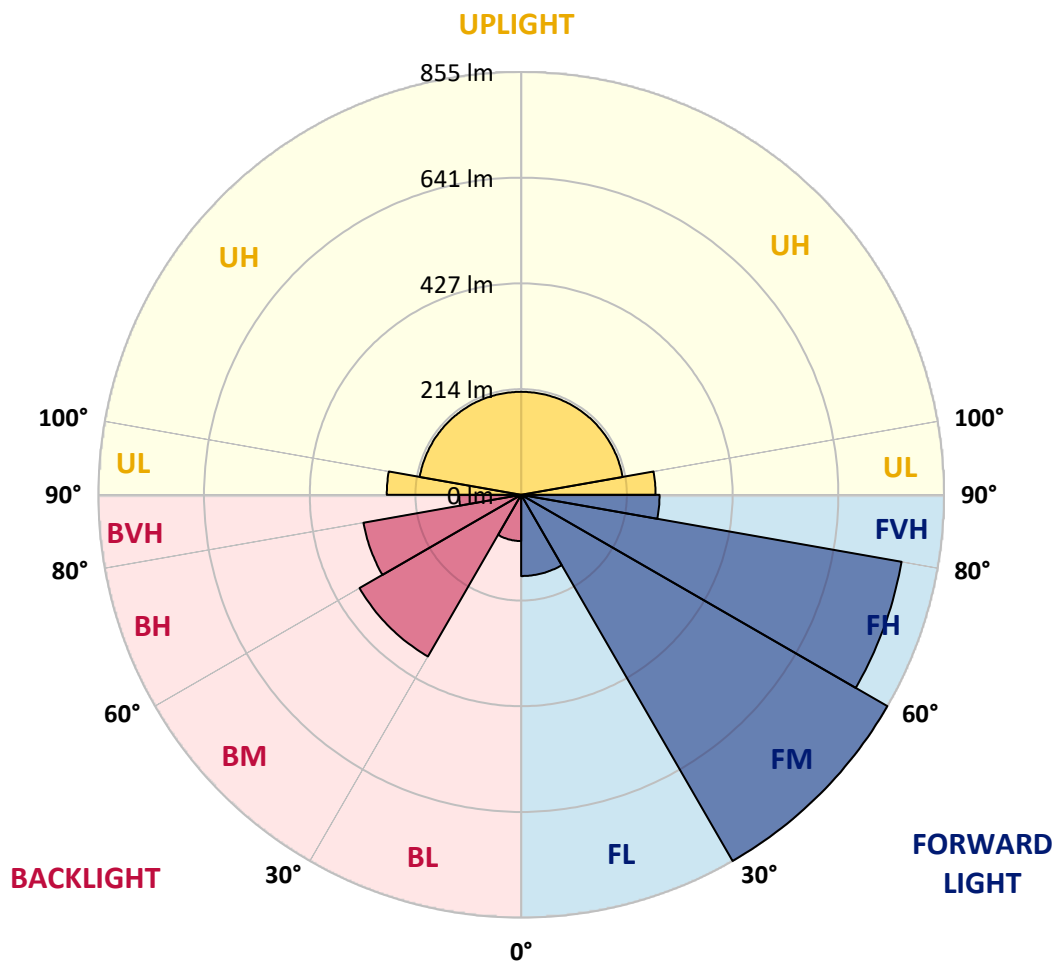
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.2	4.6			
FM	(30°-60°)	854.5	23.8			
FH	(60°-80°)	780.6	21.7			G1/1800
FVH	(80°-90°)	279.6	7.8			G3/500
BL	(0°-30°)	93.4	2.6	B0/110		
BM	(30°-60°)	377.1	10.5	B1/1000		
BH	(60°-80°)	323.7	9.0	B1/500		G1/500
BVH	(80°-90°)	125.4	3.5			G2/225
UL	(90°-100°)	271.6	7.5		U3/500	
UH	(100°-180°)	208.2	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	232.1	232.1	231.7	231.3	229.9	228.0	225.1	223.2	221.4	219.9	217.1
5°	252.1	253.1	251.1	250.2	246.8	243.1	238.8	233.6	231.3	228.0	222.3
7.5°	273.3	274.2	272.4	270.0	265.8	260.1	253.5	246.8	242.5	238.3	229.9
10°	296.9	297.5	295.1	292.3	287.1	279.9	272.8	263.0	258.2	252.5	241.1
12.5°	323.5	322.6	320.6	315.9	309.8	302.2	292.7	282.8	276.2	269.6	255.3
15°	353.8	353.2	349.9	344.2	336.7	328.3	316.9	305.9	299.4	292.3	275.3
17.5°	385.4	384.5	381.2	374.5	366.4	355.6	347.1	334.4	326.3	318.7	299.4
20°	417.2	416.6	414.3	406.7	397.7	389.2	377.8	364.6	356.6	346.2	324.0
22.5°	453.5	452.2	448.3	441.7	434.1	425.7	413.8	397.2	388.3	378.4	351.9
25°	489.9	489.5	484.8	477.7	471.5	462.0	450.7	431.2	422.3	408.6	380.2
27.5°	527.7	526.8	522.0	514.5	509.8	500.9	486.6	467.7	456.8	443.6	411.9
30°	567.0	566.5	560.8	553.3	548.2	539.6	524.9	504.6	493.8	479.1	443.6
32.5°	606.3	606.3	600.6	594.0	587.9	577.0	563.2	543.9	532.0	516.5	476.7
35°	647.5	645.0	640.8	634.7	624.8	613.8	601.6	584.1	571.8	554.7	512.7
37.5°	686.1	686.1	679.1	673.9	662.9	650.7	639.3	624.8	611.0	594.5	547.6
40°	724.5	724.9	718.4	711.8	697.5	686.1	676.4	664.4	652.2	635.2	585.9
42.5°	761.4	760.5	754.3	746.7	731.2	718.4	712.2	702.3	693.2	675.3	622.8
45°	795.4	793.1	788.3	779.3	761.4	748.7	746.2	741.6	732.0	715.9	660.2
47.5°	821.9	820.5	818.6	806.8	788.3	776.1	776.1	777.9	770.9	754.3	695.2
50°	843.7	843.2	842.3	829.1	809.2	799.7	803.5	810.0	805.4	790.7	726.3
52.5°	858.3	857.9	859.4	845.5	826.2	817.7	826.6	839.8	836.2	822.8	756.2
55°	864.0	864.0	868.3	855.5	836.2	829.5	844.1	862.6	862.2	850.2	778.9
57.5°	861.6	862.2	869.7	857.9	839.8	836.2	855.5	880.5	882.5	870.6	797.8
60°	850.8	851.2	861.6	852.7	837.0	836.2	860.8	891.4	895.3	884.8	808.6
62.5°	830.0	831.9	844.6	838.9	826.2	829.5	858.8	894.8	900.0	890.0	812.9
63°	824.3	826.6	840.3	835.2	823.4	827.1	857.3	894.8	900.4	890.5	812.9
65°	801.1	803.9	819.6	817.1	808.6	815.7	849.4	889.6	896.7	887.6	808.6
67.5°	763.7	769.4	787.4	789.3	785.0	796.0	832.8	876.3	883.9	875.3	796.0
70°	718.8	725.5	748.7	754.3	753.4	769.4	808.6	854.1	862.2	853.7	774.2
72.5°	670.7	679.6	700.9	713.1	719.3	736.9	778.9	823.9	831.9	822.8	745.2
75°	618.1	627.5	654.0	669.2	678.6	700.4	742.0	786.8	794.0	786.8	708.9
77.5°	565.6	575.0	602.0	621.3	636.1	662.1	703.2	744.4	749.5	742.0	666.4
80°	511.7	522.6	548.6	571.3	591.1	617.1	656.8	694.3	700.4	690.4	620.5
82.5°	458.3	467.7	497.0	523.5	544.7	570.8	608.7	643.6	646.5	636.6	569.9
85°	410.0	418.0	446.9	475.3	500.3	525.9	560.8	588.8	593.1	580.2	519.7
87.5°	364.6	370.7	401.0	429.0	454.5	482.8	514.1	536.3	536.3	526.3	467.2
90°	322.6	326.8	354.2	384.9	412.4	437.5	466.7	485.6	483.4	471.0	418.0
92.5°	281.9	287.1	314.0	343.3	371.3	397.2	420.8	433.6	430.4	417.6	370.7
95°	248.2	250.6	277.1	307.3	332.9	356.6	377.4	386.3	381.2	368.4	324.0
97.5°	217.5	219.4	242.5	271.4	299.0	320.6	334.8	340.5	335.3	322.6	285.6
100°	192.6	193.0	213.7	241.7	267.2	286.2	299.0	299.0	294.1	281.4	247.8
102.5°	167.9	168.8	185.8	213.7	237.8	254.5	264.4	263.5	254.9	242.1	215.1
105°	148.0	148.9	162.2	189.1	210.9	226.0	234.2	228.5	220.3	209.0	186.3
107.5°	130.6	131.0	141.4	165.5	186.3	200.5	204.8	198.7	189.7	178.7	162.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	116.8	116.4	124.3	145.2	165.1	176.9	179.1	171.6	162.7	153.7	140.5
112.5°	103.6	103.6	108.8	126.3	144.7	156.0	157.0	146.1	138.5	130.6	122.1
115°	92.7	92.3	96.0	109.7	126.7	136.2	135.3	125.3	118.2	111.6	106.0
117.5°	83.2	82.3	85.1	94.6	110.3	119.2	116.8	105.4	100.3	95.5	92.3
120°	74.8	74.3	75.7	82.3	94.6	101.7	99.3	89.4	84.6	82.3	80.5
122.5°	67.2	67.2	66.6	70.9	80.5	86.1	82.7	74.8	71.9	70.5	70.5
125°	60.5	60.5	59.5	60.9	67.2	71.9	69.1	62.4	60.5	60.5	60.9
127.5°	53.9	53.9	53.0	52.5	55.2	58.7	55.2	51.6	51.1	51.6	52.5
130°	47.7	47.3	46.3	44.5	44.9	46.3	44.0	42.1	42.6	44.0	44.9
132.5°	42.1	41.6	40.2	37.3	35.5	35.5	33.6	33.6	35.0	36.4	38.4
135°	36.4	35.9	34.5	31.2	27.9	26.0	24.6	26.4	28.4	29.8	31.6
137.5°	30.7	30.3	28.4	25.0	20.8	17.9	17.5	20.3	22.2	24.1	25.5
140°	25.0	24.6	22.7	19.3	14.6	11.4	11.4	15.2	17.1	18.5	20.3
142.5°	19.8	19.3	17.9	14.2	9.5	7.1	7.5	10.9	12.3	13.7	15.2
145°	14.6	14.6	13.2	10.0	5.7	3.3	4.3	7.1	8.5	9.5	10.9
147.5°	10.0	10.0	8.5	6.1	3.3	1.4	1.8	4.3	5.3	6.1	7.1
150°	6.1	6.1	5.3	3.3	1.4	0.0	1.0	1.8	2.8	3.3	4.3
152.5°	3.3	3.3	2.4	1.4	0.4	0.0	0.0	1.0	1.0	1.4	1.8
155°	1.4	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.0	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°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	215.7	214.2	210.9	208.5	205.7	203.3	201.9	199.6	198.2	198.7	198.2
5°	219.4	216.6	210.5	205.3	199.6	194.8	191.1	187.7	185.8	184.4	184.8
7.5°	225.6	221.4	212.3	203.9	195.3	188.3	182.6	178.3	174.5	173.6	173.0
10°	235.0	229.3	216.6	205.3	194.4	184.4	176.9	170.8	166.9	165.1	165.1
12.5°	248.2	240.3	224.2	209.0	195.3	183.0	173.6	166.0	161.7	159.8	159.4
15°	266.7	256.8	237.0	216.6	199.1	184.4	173.0	165.5	162.2	161.2	160.8
17.5°	288.0	277.1	252.5	228.9	206.6	188.3	177.3	171.2	167.3	165.5	165.1
20°	312.2	297.9	270.0	242.5	217.5	198.2	185.8	177.3	172.6	170.2	169.8
22.5°	336.7	321.1	289.0	257.3	229.9	211.9	194.4	184.0	177.3	174.5	173.6
25°	363.2	345.7	308.3	272.8	245.0	224.6	204.8	189.7	182.0	178.7	178.7
27.5°	391.5	371.3	328.7	289.0	260.6	236.4	214.7	195.8	186.9	183.0	182.6
30°	421.4	398.7	349.5	306.5	275.3	247.4	223.2	202.4	191.5	187.3	186.9
32.5°	453.5	427.5	372.7	325.4	289.0	257.3	230.7	208.5	195.8	190.5	190.1
35°	485.2	455.9	394.4	343.8	301.2	265.8	237.0	214.7	199.1	193.9	193.4
37.5°	520.2	486.2	417.6	361.7	312.6	272.4	242.1	219.4	202.4	196.7	195.8
40°	553.7	515.9	439.3	377.8	322.1	278.5	246.4	223.7	205.3	199.1	198.2
42.5°	586.8	546.2	461.1	393.0	330.1	282.3	249.2	226.5	208.0	201.0	199.6
45°	619.9	574.6	483.4	405.3	336.2	285.6	251.1	228.9	210.5	201.9	201.0
47.5°	650.7	602.4	503.6	416.2	340.5	287.1	252.1	229.9	212.3	202.4	201.0
50°	680.0	626.6	520.7	424.3	343.3	287.1	252.1	230.3	213.3	202.4	201.5
52.5°	705.6	647.5	534.4	429.4	343.8	285.6	250.6	229.9	213.3	201.5	200.1
55°	724.9	664.4	544.3	431.8	342.4	283.3	248.2	228.5	212.8	200.1	198.7
57.5°	740.6	676.4	550.4	431.2	339.0	279.4	245.4	226.5	211.4	197.6	196.2
60°	750.1	682.5	551.4	428.0	334.4	274.8	241.7	223.7	209.4	195.3	193.4
62.5°	751.4	681.9	548.2	421.4	327.2	269.1	237.0	219.9	206.2	191.5	189.7
63°	750.9	681.4	546.2	420.0	325.8	268.1	236.4	219.4	205.7	190.5	189.1
65°	745.8	675.8	539.0	412.4	319.2	262.4	232.1	215.7	202.9	187.7	185.4
67.5°	732.0	662.9	525.9	399.6	309.3	254.9	226.0	210.9	198.2	183.0	180.6
70°	711.3	645.0	507.9	385.4	299.0	246.8	219.4	204.8	193.0	177.8	175.0
72.5°	683.3	619.1	487.1	368.9	286.6	237.8	211.9	198.2	186.3	172.2	167.9
75°	649.8	588.8	464.0	350.9	273.3	228.5	204.4	191.5	179.7	165.5	161.2
77.5°	609.5	554.3	435.1	331.9	260.6	218.5	195.8	183.4	172.2	158.0	153.7
80°	566.5	515.9	406.2	310.8	246.4	208.0	187.3	175.0	163.7	150.3	145.2
82.5°	521.1	474.8	375.6	290.4	232.1	197.2	178.3	166.0	155.1	142.4	137.6
85°	475.3	433.6	345.7	270.0	217.5	186.9	168.8	157.5	145.7	133.4	128.6
87.5°	429.8	393.5	316.9	248.8	203.9	176.4	159.4	148.0	136.2	124.3	120.6
90°	386.3	354.6	286.6	228.9	189.7	165.1	149.9	138.5	127.2	115.4	111.6
92.5°	342.8	315.4	259.2	210.9	176.4	154.6	140.5	129.2	117.2	106.0	103.6
95°	304.1	280.5	233.2	191.5	163.7	144.7	131.0	120.0	107.8	96.9	95.5
97.5°	267.6	247.4	207.6	175.0	150.9	133.9	121.5	110.3	97.9	88.0	87.0
100°	235.0	218.5	185.8	158.0	138.1	123.9	112.5	101.2	88.9	80.5	79.4
102.5°	205.3	192.0	165.5	142.8	126.7	113.9	102.6	91.8	79.9	72.3	72.3
105°	179.7	167.9	146.6	128.6	114.9	103.6	93.2	82.3	70.5	64.4	64.4
107.5°	155.5	147.5	130.0	114.9	104.1	94.1	84.1	73.3	62.0	57.3	57.7



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CATALOG NUMBER: UTLD-AF24-40-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	135.7	129.2	114.4	103.1	94.1	85.1	75.7	64.8	53.9	50.6	51.1
112.5°	118.2	113.0	100.7	91.8	84.1	76.6	67.2	56.3	46.9	44.9	45.5
115°	103.1	98.9	89.4	81.3	75.2	68.1	59.5	48.7	40.7	39.8	39.8
117.5°	89.8	86.6	78.5	72.3	66.6	60.5	52.0	42.1	35.0	35.0	35.0
120°	79.0	76.2	69.5	63.8	59.1	53.0	44.9	35.5	30.3	30.7	30.7
122.5°	68.7	66.6	60.5	56.3	51.6	46.3	38.4	29.3	26.0	27.0	27.5
125°	60.1	58.1	53.4	48.7	44.5	39.3	31.6	24.6	22.7	23.6	23.6
127.5°	51.6	50.6	46.3	42.1	38.4	33.1	26.0	20.3	19.8	20.8	20.8
130°	44.5	43.4	40.2	35.5	31.6	27.0	20.8	16.5	16.5	17.5	17.5
132.5°	37.8	37.3	34.1	29.8	26.0	21.3	16.5	13.2	14.2	15.2	15.2
135°	31.2	31.2	28.4	24.1	20.3	16.1	12.3	10.9	11.8	12.8	12.8
137.5°	25.5	25.0	22.7	18.9	15.2	11.8	9.0	8.5	10.0	10.9	10.9
140°	20.3	19.8	17.9	14.6	10.9	8.0	6.1	6.7	8.0	8.5	9.0
142.5°	15.2	15.2	13.2	10.9	7.1	4.7	3.9	5.3	6.1	6.7	7.1
145°	10.9	10.9	9.5	7.1	4.3	2.4	2.4	3.9	4.7	5.3	5.3
147.5°	7.1	7.1	6.1	4.3	2.4	1.0	1.4	2.4	3.3	3.9	3.9
150°	4.3	3.9	3.3	1.8	1.0	0.0	0.4	1.0	1.8	2.4	1.8
152.5°	1.8	1.8	1.4	1.0	0.4	0.0	0.0	0.0	0.4	1.0	1.0
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)