

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: P266334

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3119.2 lumens
Efficiency: N/A
Efficacy: 78.0 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 - 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



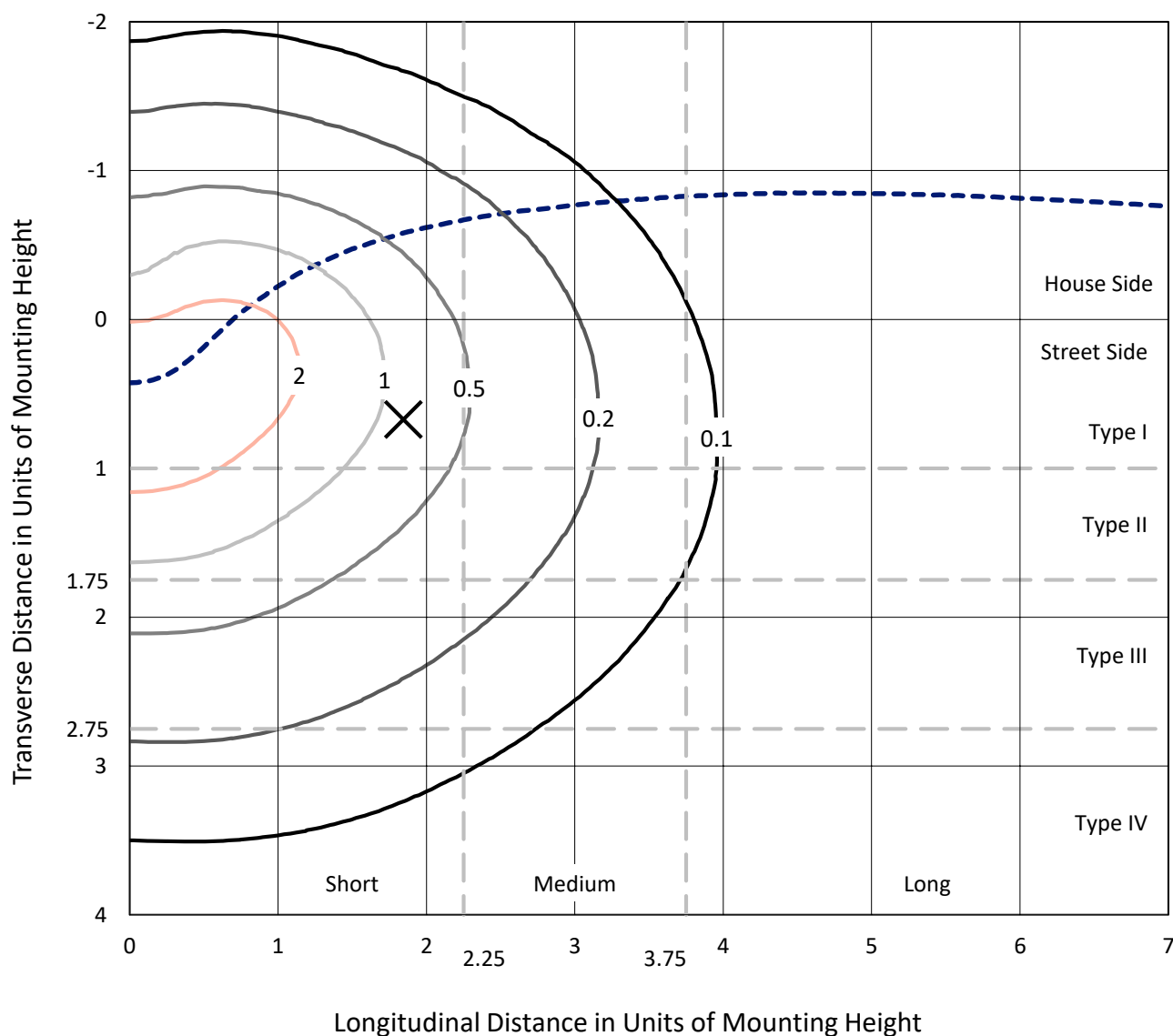
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

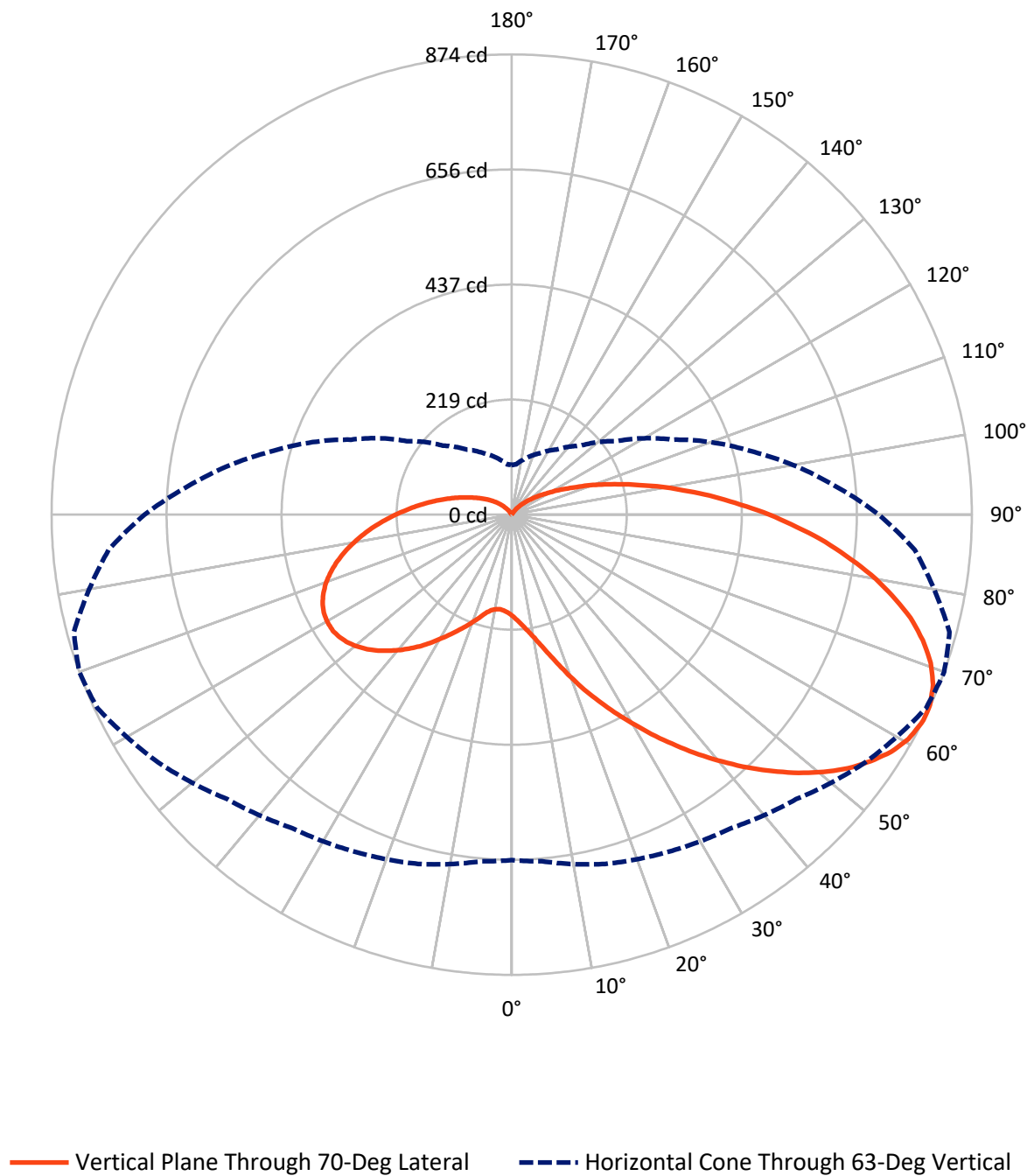


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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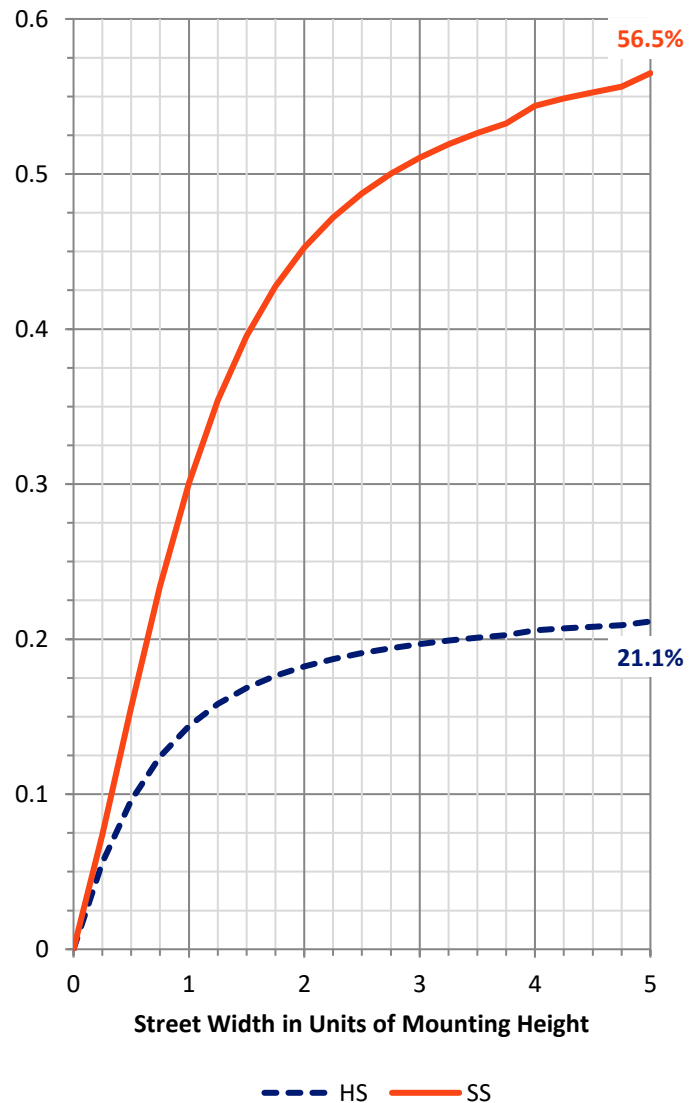
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.6	169.5	870.1
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	1893.7	355.4	2249.1
	% Fixture	60.7	11.4	72.1
Total	Lumens	2594.3	524.9	3119.2
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.6
10°-20°	66.6	2.1
20°-30°	141.6	4.5
30°-40°	244.1	7.8
40°-50°	360.1	11.5
50°-60°	458.3	14.7
60°-70°	497.5	15.9
70°-80°	455.0	14.6
80°-90°	351.9	11.3
90°-100°	237.2	7.6
100°-110°	144.3	4.6
110°-120°	80.8	2.6
120°-130°	41.1	1.3
130°-140°	17.0	0.5
140°-150°	4.2	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2594.3	83.2
0°-180°	3119.2	100.0

Coefficient of Utilization



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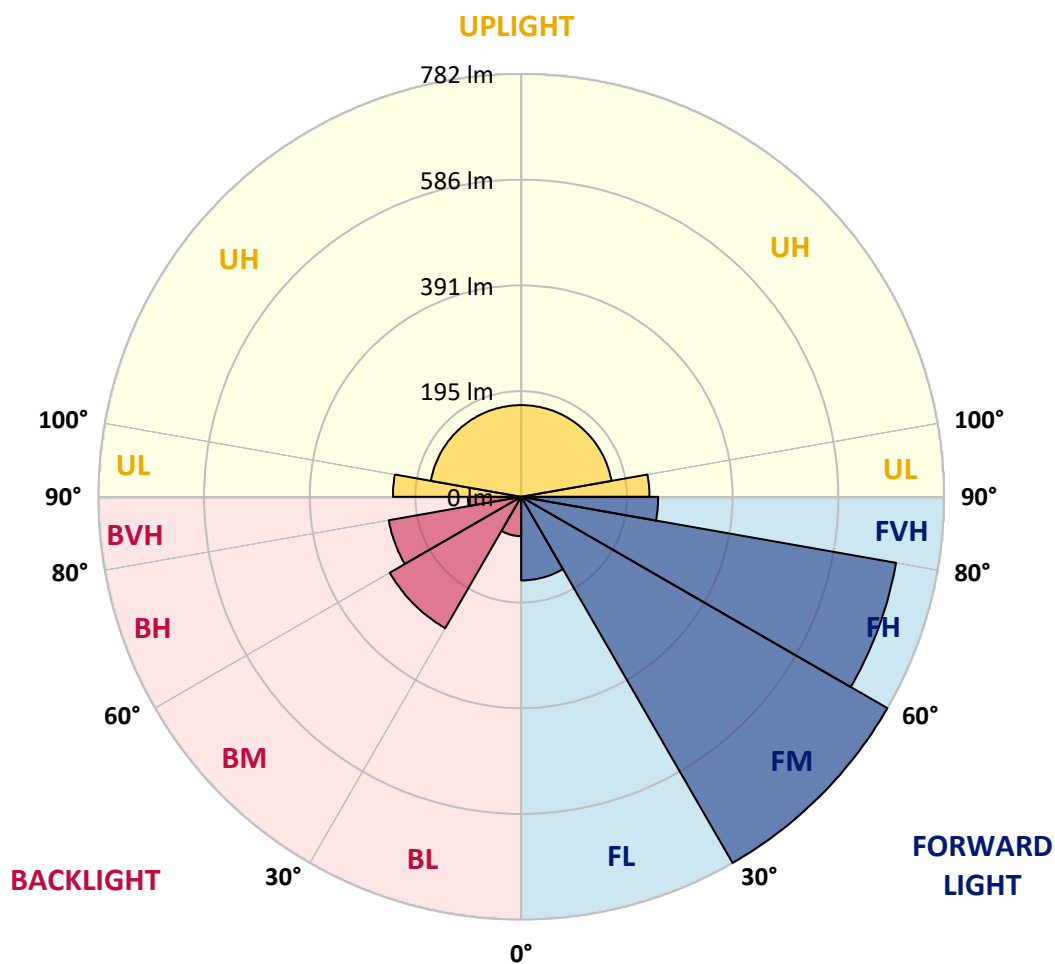
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.5	5.0			
FM	(30°-60°)	781.9	25.1			
FH	(60°-80°)	703.9	22.6			G1/1800
FVH	(80°-90°)	253.4	8.1			G3/500
BL	(0°-30°)	72.8	2.3	B0/110		
BM	(30°-60°)	280.6	9.0	B1/1000		
BH	(60°-80°)	248.6	8.0	B1/500		G1/500
BVH	(80°-90°)	98.6	3.2			G1/100
UL	(90°-100°)	237.2	7.6		U3/500	
UH	(100°-180°)	169.5	5.4		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°	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4
2.5°	214.5	214.1	213.6	211.6	210.7	207.8	205.3	202.2	200.5	198.9	195.4
5°	237.1	236.3	234.9	232.8	229.0	224.8	219.6	213.6	210.7	207.2	200.5
7.5°	259.2	258.7	258.4	254.0	250.2	243.4	236.3	227.7	223.5	217.8	207.8
10°	283.3	284.3	281.7	277.8	271.5	264.2	254.8	243.4	238.0	231.9	218.4
12.5°	311.0	310.5	308.4	302.0	295.3	287.2	275.7	263.5	257.1	248.9	231.6
15°	339.0	337.4	334.8	330.4	322.0	312.7	300.4	286.3	279.2	270.2	250.6
17.5°	368.3	367.0	365.3	358.2	350.9	339.4	329.1	314.0	305.1	295.3	272.7
20°	397.6	396.8	394.6	389.1	380.3	370.0	360.2	344.1	333.9	322.0	296.5
22.5°	428.6	428.2	426.1	419.7	412.5	406.2	393.7	375.5	365.8	351.3	321.7
25°	460.6	460.9	457.1	451.2	446.1	440.1	427.4	408.3	396.3	381.5	348.0
27.5°	494.8	493.2	490.7	485.2	481.0	474.0	460.9	441.3	429.8	413.8	376.4
30°	526.8	527.1	521.6	518.3	515.3	508.9	496.7	476.6	464.0	449.1	406.2
32.5°	561.3	559.5	555.6	552.3	550.1	543.4	531.8	514.5	501.8	483.0	436.2
35°	591.4	590.9	586.7	587.5	582.0	576.5	568.0	551.7	538.7	520.8	469.9
37.5°	622.3	621.4	618.6	619.4	613.1	608.7	603.2	589.2	578.1	560.0	504.7
40°	651.7	649.6	647.4	648.7	644.1	641.0	638.1	628.4	616.9	597.7	539.2
42.5°	675.4	675.0	673.8	675.9	671.3	670.3	672.0	666.9	656.8	637.2	573.9
45°	695.8	695.8	697.5	698.8	694.6	695.8	704.4	703.1	695.0	675.4	609.9
47.5°	711.9	711.5	715.8	717.6	715.4	720.1	734.0	740.1	733.2	715.1	643.5
50°	721.2	721.2	729.0	731.1	731.5	740.5	760.0	773.3	768.5	751.1	675.4
52.5°	723.9	724.8	735.4	740.1	741.7	755.7	782.6	802.5	800.7	784.2	704.4
55°	719.6	720.9	735.0	742.2	747.3	766.9	800.4	828.3	827.1	811.8	728.2
57.5°	707.8	709.4	727.3	737.9	747.3	772.7	813.5	848.8	850.4	836.1	748.6
60°	689.1	691.2	712.9	726.9	741.3	772.4	820.3	862.0	865.7	851.0	762.1
62.5°	663.2	665.6	690.7	710.3	729.9	766.3	820.7	868.3	873.4	860.2	768.5
63°	656.3	661.1	686.9	706.4	726.9	764.3	820.3	868.8	874.3	861.1	768.9
65°	630.0	635.1	664.8	687.8	712.4	754.4	814.4	866.7	873.4	860.7	766.9
67.5°	593.1	599.9	631.2	659.4	690.7	737.1	801.2	856.1	863.6	851.4	757.5
70°	551.0	560.4	593.5	628.4	663.2	713.8	780.7	837.7	844.9	832.2	738.8
72.5°	508.5	518.7	554.9	592.3	631.2	684.8	752.3	810.1	816.9	805.9	712.9
75°	465.6	473.2	510.6	554.0	596.5	651.2	720.9	774.9	782.6	769.4	680.6
77.5°	420.1	430.7	469.5	513.2	558.7	616.9	683.5	734.5	739.1	726.0	639.0
80°	375.5	387.3	425.3	472.4	520.4	576.5	640.2	689.9	692.5	678.4	594.3
82.5°	336.4	347.6	386.1	431.6	480.1	537.4	595.5	638.1	639.8	626.6	548.1
85°	298.6	308.4	345.4	392.1	441.0	494.1	549.8	585.9	587.9	572.2	499.2
87.5°	264.7	272.2	307.9	354.7	402.4	454.5	500.9	531.0	531.4	516.2	450.7
90°	235.4	240.0	274.8	320.8	365.8	412.5	455.8	482.2	478.7	462.6	400.6
92.5°	206.9	210.7	242.5	287.2	331.7	373.9	411.7	428.6	424.8	410.7	356.0
95°	184.0	185.6	215.0	257.1	296.9	336.9	369.2	381.5	377.6	362.7	311.8
97.5°	160.5	163.1	189.9	228.1	266.7	302.9	329.1	337.4	330.0	315.7	273.2
100°	143.2	144.0	166.5	203.0	239.6	271.0	291.9	296.9	289.3	276.0	238.0
102.5°	127.0	126.7	147.1	181.0	213.6	240.0	257.9	257.5	249.4	238.0	206.5
105°	112.9	112.6	128.3	159.7	189.1	212.4	225.6	223.9	215.9	204.8	179.8
107.5°	99.8	100.7	112.2	139.7	166.0	186.8	196.6	192.9	185.6	175.4	155.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	90.1	90.1	99.0	122.8	147.1	164.0	171.7	166.0	159.3	149.1	134.7
112.5°	81.1	81.1	87.6	107.1	129.1	144.4	149.6	142.3	134.2	127.4	116.8
115°	73.0	73.0	77.3	93.1	112.6	125.4	128.3	120.6	113.8	108.8	102.0
117.5°	66.3	66.3	68.8	79.9	97.2	109.1	110.9	102.3	97.7	92.6	88.8
120°	59.8	60.4	61.2	68.5	82.9	93.1	94.0	85.8	81.9	79.4	77.3
122.5°	54.3	54.3	54.7	59.1	70.5	79.1	79.1	72.3	69.7	68.8	67.2
125°	49.2	49.2	49.2	50.9	58.6	65.4	64.6	60.4	59.1	59.1	58.2
127.5°	44.6	44.1	43.7	44.1	48.0	52.7	52.7	49.6	49.6	50.1	50.6
130°	40.0	39.5	38.6	37.8	38.3	41.6	41.2	40.3	41.2	42.5	43.3
132.5°	35.3	35.3	34.0	31.9	30.6	31.4	31.9	32.2	33.5	35.3	36.6
135°	30.6	30.6	29.4	26.3	23.7	23.4	22.9	25.1	27.2	28.8	30.2
137.5°	26.0	26.0	24.7	21.2	17.8	16.1	15.7	19.1	21.2	22.9	24.3
140°	21.6	21.2	19.9	16.6	12.8	10.2	10.2	13.7	15.7	17.3	19.1
142.5°	17.0	17.0	15.7	12.8	8.5	6.0	6.4	9.3	11.0	12.3	13.7
145°	12.8	12.8	11.5	8.5	5.1	3.0	3.5	6.0	7.2	8.5	9.8
147.5°	9.0	9.0	7.6	5.5	2.5	0.9	1.6	3.5	4.2	5.1	6.0
150°	5.5	5.5	4.8	3.0	1.3	0.0	0.4	1.6	2.2	2.5	3.5
152.5°	3.0	3.0	2.2	1.3	0.4	0.0	0.0	0.4	0.9	1.3	1.6
155°	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	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°	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4
2.5°	193.8	192.0	188.1	184.8	181.8	178.9	176.2	174.2	173.7	172.5	173.0
5°	196.6	193.2	186.0	179.8	173.0	167.4	163.1	159.3	156.3	155.0	154.7
7.5°	202.7	197.1	186.0	175.9	166.5	158.0	150.8	145.3	141.9	139.7	140.1
10°	211.1	203.9	189.1	175.0	161.9	150.3	141.0	134.2	129.1	127.0	127.0
12.5°	222.2	213.6	194.6	176.2	159.7	145.3	133.4	125.0	120.3	117.3	117.3
15°	240.0	227.7	203.9	180.6	159.7	142.3	129.1	119.8	115.5	113.5	112.9
17.5°	259.2	245.5	217.1	189.1	163.5	141.9	128.6	120.6	115.5	112.9	112.9
20°	279.9	263.8	231.1	198.9	169.9	147.1	132.1	122.3	116.1	112.6	112.2
22.5°	302.5	284.7	246.0	209.0	177.5	155.4	136.4	123.6	116.1	112.6	112.2
25°	327.5	305.9	261.2	220.4	187.7	163.1	141.5	125.4	116.1	111.7	111.3
27.5°	353.0	328.8	278.3	231.6	198.3	170.4	146.2	126.7	116.1	111.3	110.9
30°	380.6	351.7	294.9	244.2	208.1	176.7	149.9	127.9	116.1	110.9	110.4
32.5°	407.8	376.7	312.7	258.7	217.5	181.8	153.4	130.4	116.4	110.4	109.7
35°	438.0	403.6	331.7	273.2	226.1	186.5	156.3	132.1	116.1	109.7	109.1
37.5°	469.5	429.8	349.3	285.9	232.8	189.9	158.0	133.4	116.1	109.1	108.3
40°	500.9	456.7	367.9	298.6	239.2	192.9	159.7	134.7	115.5	108.3	107.4
42.5°	531.4	483.0	386.1	309.2	244.2	195.0	160.5	135.6	115.5	107.4	106.5
45°	562.9	509.8	405.2	319.4	248.1	195.8	160.5	135.6	116.1	106.5	105.8
47.5°	593.1	534.9	422.7	327.5	251.0	196.3	160.5	135.6	116.1	105.8	104.6
50°	619.8	557.8	437.1	334.3	252.8	196.3	160.2	135.6	116.1	104.6	103.2
52.5°	645.7	577.8	450.7	339.0	253.6	195.4	159.3	134.7	116.1	103.2	102.0
55°	666.5	595.5	460.1	342.0	252.8	194.2	157.7	133.8	115.5	102.0	100.3
57.5°	683.2	608.3	467.3	342.9	251.0	192.0	155.9	132.5	114.8	100.3	99.0
60°	693.8	615.6	469.5	341.1	248.6	189.1	153.8	131.2	113.5	98.5	96.8
62.5°	697.5	618.2	468.6	337.8	244.7	186.0	151.6	129.5	112.2	96.5	94.7
63°	697.5	617.7	468.1	336.9	243.4	185.2	151.3	129.1	111.7	95.9	94.3
65°	695.0	614.4	464.0	331.7	239.6	182.3	149.1	127.4	110.9	94.7	92.6
67.5°	684.4	605.4	454.2	324.2	233.2	178.0	145.7	125.0	108.8	92.6	90.5
70°	667.4	590.0	441.0	314.0	226.5	173.4	142.3	122.3	106.5	90.5	87.9
72.5°	642.3	568.8	424.4	302.0	218.4	168.3	138.5	119.4	103.7	87.9	85.0
75°	611.2	542.9	404.9	288.4	210.4	162.2	134.7	116.1	100.7	85.3	81.6
77.5°	574.7	512.8	382.3	274.4	201.0	156.3	130.0	112.2	97.7	82.9	78.2
80°	534.0	477.1	358.2	258.7	191.2	149.9	125.4	108.3	93.5	79.4	74.7
82.5°	493.2	441.3	332.6	242.5	181.4	143.5	120.3	104.1	89.7	76.0	71.3
85°	449.1	404.0	307.6	226.1	171.1	136.4	115.2	99.4	85.8	72.7	67.6
87.5°	406.6	366.1	279.9	209.8	161.4	130.0	110.0	94.7	81.1	68.5	64.6
90°	365.3	330.0	256.1	193.2	150.8	122.8	104.6	89.7	76.4	64.1	61.2
92.5°	325.4	293.6	230.2	178.0	141.0	116.1	98.5	84.5	71.8	60.4	57.9
95°	288.0	261.6	208.5	162.8	131.7	109.1	93.1	79.9	66.7	55.7	54.0
97.5°	252.8	231.6	187.3	149.6	121.5	102.3	87.0	74.3	61.7	51.5	50.6
100°	223.0	204.8	167.4	136.0	112.6	95.6	81.6	68.8	56.6	47.2	47.2
102.5°	195.0	178.9	148.7	123.2	103.7	88.4	75.2	63.3	51.5	43.3	43.3
105°	170.4	157.2	132.9	111.7	95.2	81.6	69.3	57.9	45.9	39.5	39.5
107.5°	147.9	137.6	118.0	101.1	86.6	74.3	63.3	51.8	40.3	35.8	36.1



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CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	129.5	121.5	104.9	90.5	78.6	68.5	57.9	46.4	35.3	32.2	32.2
112.5°	112.2	105.8	92.6	81.6	71.3	62.1	51.8	40.9	31.0	29.4	29.4
115°	98.2	93.1	81.9	72.7	64.1	55.7	45.9	35.3	26.8	26.0	26.3
117.5°	85.8	81.6	73.0	65.4	57.9	49.6	40.9	30.2	23.4	23.4	23.4
120°	74.7	71.8	64.1	57.9	51.5	43.7	35.3	25.5	20.4	20.4	20.8
122.5°	65.8	62.9	57.3	50.9	45.0	38.3	30.2	21.2	17.8	18.2	18.7
125°	57.0	55.2	50.1	44.6	39.0	32.2	25.1	17.3	15.7	16.1	16.6
127.5°	49.6	48.4	43.3	38.6	33.5	27.2	20.4	14.1	13.1	14.1	14.5
130°	42.5	41.6	37.8	33.1	28.0	22.5	16.1	11.5	11.5	12.3	12.3
132.5°	36.1	35.3	31.9	27.2	22.9	17.3	12.3	9.3	9.8	10.6	10.6
135°	30.2	29.4	26.3	22.5	17.8	13.1	9.3	7.6	8.5	9.0	9.0
137.5°	24.7	23.7	21.2	17.3	13.1	9.3	6.7	6.0	6.7	7.6	7.6
140°	18.7	18.7	16.6	13.1	9.3	6.4	4.8	4.8	5.5	6.0	6.0
142.5°	14.1	13.7	12.3	9.3	6.0	3.9	3.0	3.5	4.2	4.8	4.8
145°	9.8	9.3	8.5	6.4	3.5	2.2	1.6	2.5	3.0	3.5	3.5
147.5°	6.4	6.0	5.5	3.9	1.6	0.9	0.9	1.6	2.2	2.5	2.5
150°	3.5	3.5	3.0	1.6	0.9	0.0	0.4	0.9	1.3	1.3	1.3
152.5°	1.6	1.6	1.3	0.9	0.4	0.0	0.0	0.0	0.4	0.4	0.4
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	0.4	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	0.4	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)