

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: P240037

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1888 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 II - Short - Non-Cutoff
BUG Rating: B0 - U3 - G1

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



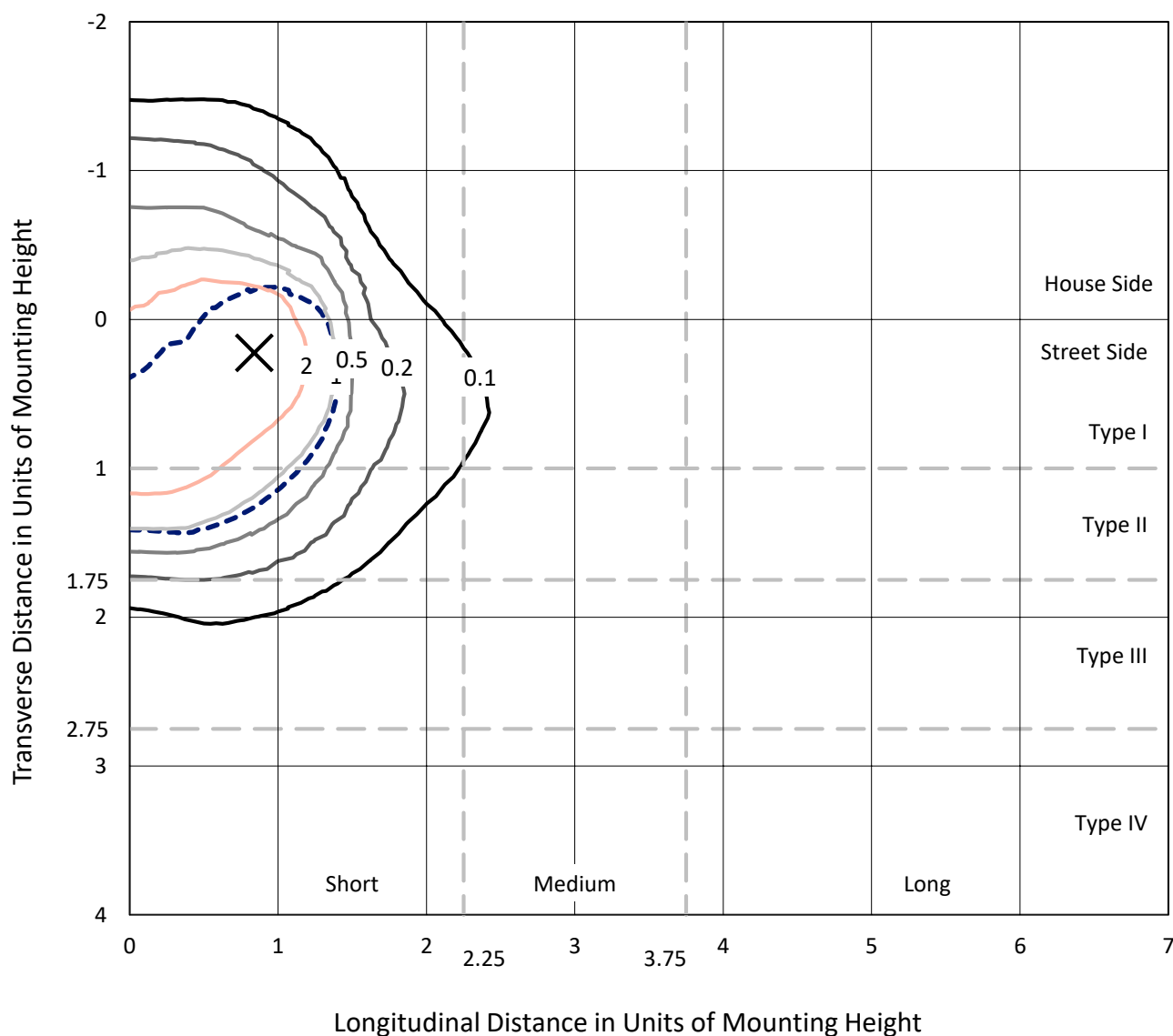
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

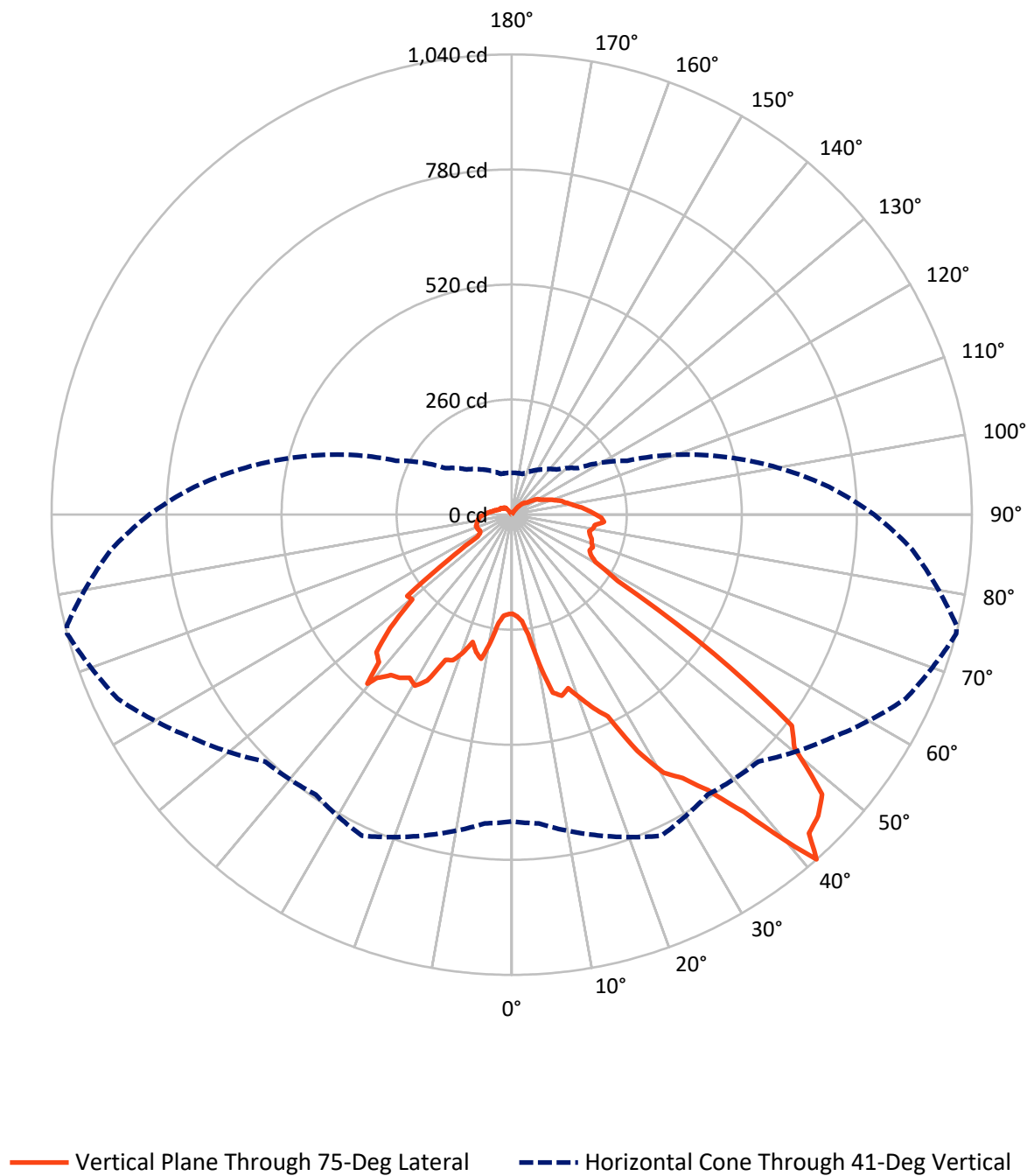


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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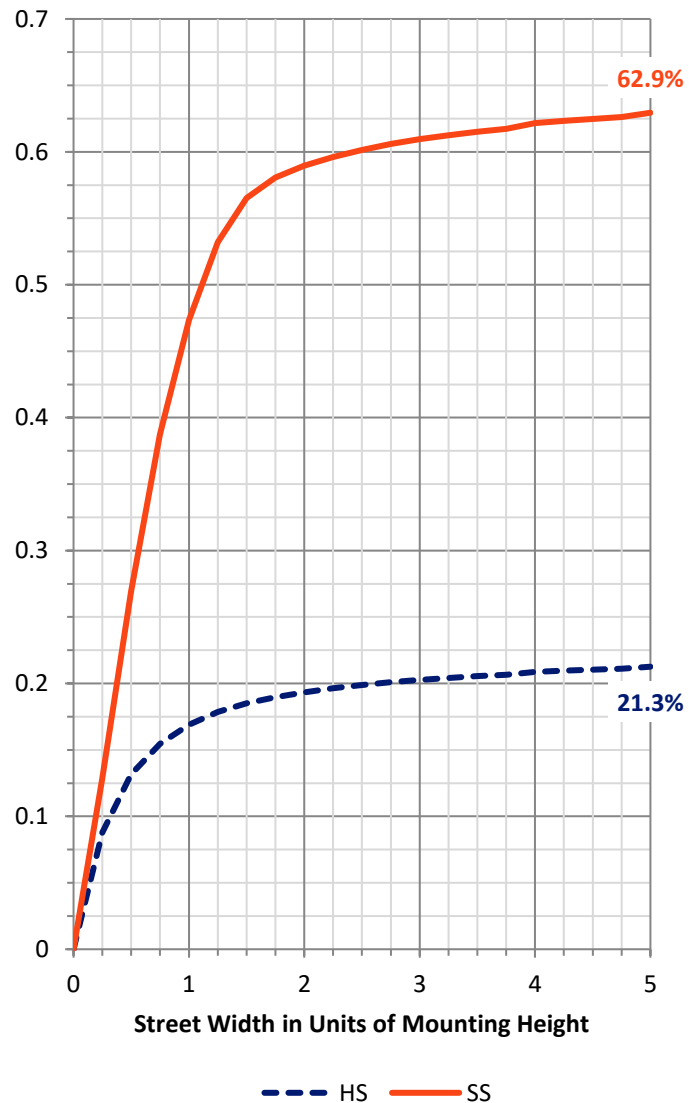
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.5	53.1	469.6
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	1224.9	193.6	1418.4
	% Fixture	64.9	10.3	75.1
Total	Lumens	1641.3	246.7	1888.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	1.2
10°-20°	93.4	4.9
20°-30°	192.0	10.2
30°-40°	312.5	16.6
40°-50°	405.9	21.5
50°-60°	287.8	15.2
60°-70°	117.0	6.2
70°-80°	105.8	5.6
80°-90°	103.4	5.5
90°-100°	88.7	4.7
100°-110°	64.2	3.4
110°-120°	43.8	2.3
120°-130°	28.5	1.5
130°-140°	17.0	0.9
140°-150°	4.3	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1641.3	86.9
0°-180°	1888.0	100.0

Coefficient of Utilization



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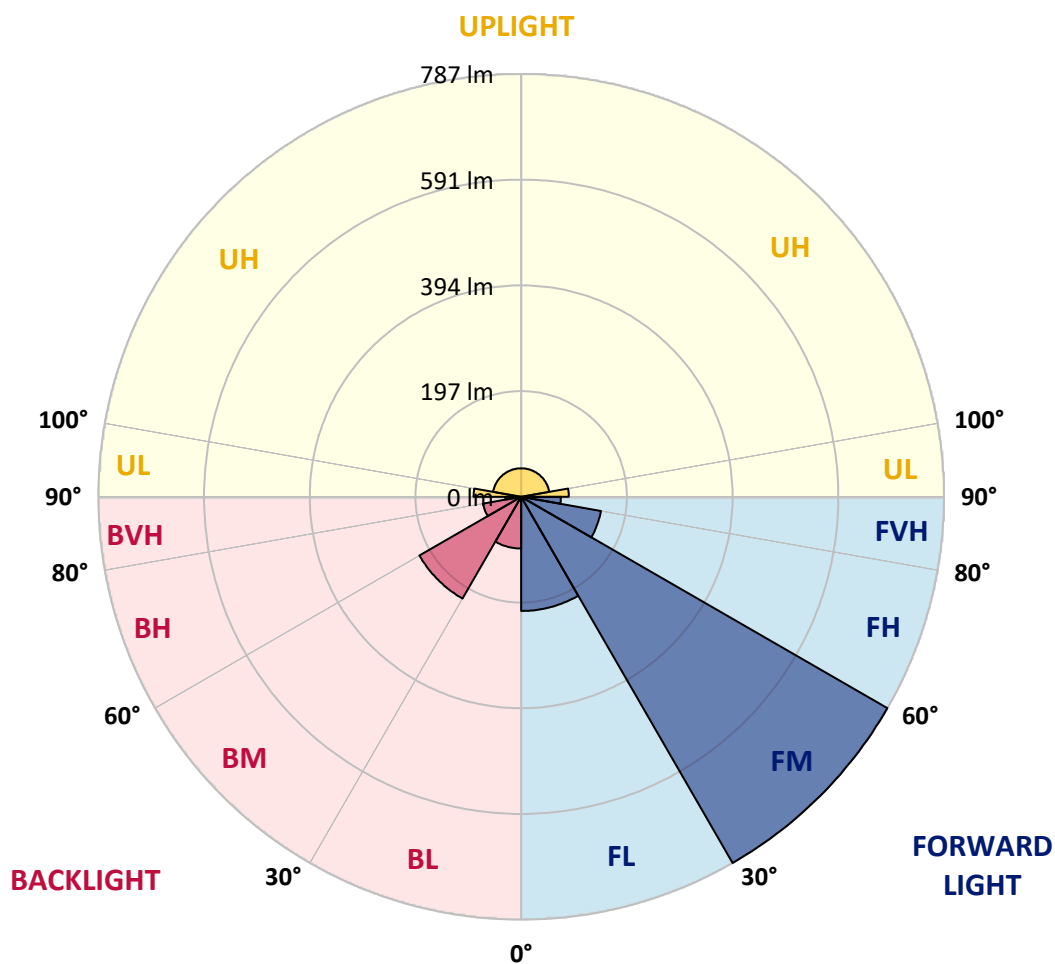
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.6	11.3			
FM	(30°-60°)	787.4	41.7			
FH	(60°-80°)	150.8	8.0			G0/660
FVH	(80°-90°)	74.1	3.9			G1/100
BL	(0°-30°)	96.3	5.1	B0/110		
BM	(30°-60°)	218.7	11.6	B0/220		
BH	(60°-80°)	72.0	3.8	B0/110		G0/110
BVH	(80°-90°)	29.3	1.6			G1/100
UL	(90°-100°)	88.7	4.7		U3/500	
UH	(100°-180°)	53.1	2.8		U3/500	

BUG Rating: B0-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0
2.5°	239.6	240.1	239.1	238.1	237.6	236.1	234.7	232.8	230.1	229.9	228.8
5°	261.3	261.3	261.3	259.5	257.3	253.8	250.9	246.6	241.5	241.1	237.1
7.5°	296.5	296.5	294.9	292.3	287.5	282.0	281.5	281.1	274.0	273.1	265.9
10°	334.5	333.3	334.3	336.3	338.8	346.1	350.6	351.2	343.6	341.8	331.3
12.5°	349.3	350.2	359.8	377.0	406.0	435.1	450.0	437.7	412.7	409.5	384.7
15°	371.8	373.2	388.8	417.6	466.0	507.8	495.0	464.1	424.6	421.6	383.4
17.5°	432.3	438.5	453.5	499.4	548.5	531.5	488.0	448.2	412.5	408.9	377.0
20°	474.8	478.3	507.3	551.2	585.8	560.1	530.2	490.1	442.1	442.1	417.1
22.5°	510.0	508.9	532.6	598.7	619.0	602.2	567.6	526.7	475.6	473.2	440.7
25°	565.4	568.9	609.7	682.9	664.4	621.9	576.2	538.7	505.3	502.3	469.7
27.5°	597.6	606.8	653.9	717.3	705.5	648.2	608.1	602.6	605.0	602.6	567.0
30°	605.8	609.7	667.9	730.7	722.8	680.2	680.2	689.7	677.3	673.8	626.2
32.5°	625.9	635.6	691.3	740.2	720.6	712.5	716.7	714.9	709.5	704.7	649.3
35°	658.8	667.0	719.3	756.1	720.2	723.2	762.0	784.3	765.0	760.7	678.1
37.5°	745.0	753.2	800.1	798.0	739.3	745.0	815.2	856.0	852.6	852.0	770.3
40°	727.7	754.4	811.5	820.3	767.9	774.1	857.9	946.6	987.4	986.5	885.1
41°	693.4	700.7	750.4	800.7	772.5	788.9	880.3	983.3	1040.2	1036.3	909.2
42.5°	705.9	718.7	748.2	765.0	767.1	799.9	897.8	987.8	984.9	983.0	879.2
45°	811.1	816.5	829.0	796.9	742.9	783.7	888.1	971.7	971.5	962.8	916.0
47.5°	760.3	775.6	828.4	799.9	740.4	739.9	808.5	921.7	944.2	931.9	815.5
50°	719.3	730.2	760.9	730.5	704.4	703.8	768.4	853.7	827.8	824.4	664.4
52.5°	638.0	648.8	670.6	662.9	648.2	646.6	695.8	785.0	793.1	790.5	670.6
55°	485.0	492.5	574.6	576.7	565.6	571.1	610.9	647.2	556.7	542.3	377.0
57.5°	284.9	304.4	383.9	433.6	456.4	460.8	447.1	382.9	282.6	272.4	173.9
60°	140.6	150.6	206.0	258.6	317.8	319.9	276.4	244.6	217.0	210.8	152.2
62.5°	100.3	106.2	142.5	170.5	203.5	208.9	193.6	206.7	200.8	197.1	148.1
65°	90.9	95.9	126.4	141.2	154.8	163.3	166.9	189.0	193.6	191.2	147.1
67.5°	83.0	88.2	115.4	126.6	136.9	150.3	158.3	180.2	197.6	196.0	155.9
70°	73.4	79.3	104.1	117.8	130.3	145.8	156.8	179.6	192.2	190.1	151.1
72.5°	64.3	69.6	89.8	106.0	124.4	141.9	158.3	175.1	189.0	187.2	153.0
75°	55.9	61.3	78.7	95.5	116.7	143.0	159.4	173.7	182.6	179.8	150.3
77.5°	50.3	55.6	70.7	87.1	110.8	144.7	174.3	179.6	179.3	176.7	147.1
80°	45.7	51.2	65.3	81.2	105.4	148.1	186.3	191.7	186.9	183.3	147.8
82.5°	44.4	49.5	62.6	80.1	106.4	150.3	189.8	203.2	189.6	185.2	147.1
85°	49.1	52.5	66.1	85.8	113.4	154.0	188.5	209.7	209.4	204.9	160.5
87.5°	58.6	61.3	74.8	94.6	121.0	156.2	205.2	213.7	202.4	200.3	162.1
90°	72.5	74.6	88.5	106.7	128.8	155.1	169.2	180.2	187.7	186.1	153.8
92.5°	86.4	88.7	101.4	114.8	124.8	133.4	147.1	172.6	173.7	172.3	147.8
95°	102.4	104.1	111.3	118.0	120.1	123.1	136.9	148.1	160.5	158.9	142.5
97.5°	111.3	112.1	115.4	114.5	109.5	110.0	125.3	137.3	144.9	143.0	124.8
100°	109.2	110.0	110.5	105.7	98.7	100.8	113.4	128.0	133.9	133.1	115.6
102.5°	102.1	103.5	103.8	99.0	92.6	93.0	105.4	116.5	122.6	121.5	107.8
105°	100.3	100.8	98.5	92.0	84.4	85.5	97.4	109.2	116.5	116.0	101.9
107.5°	90.3	90.9	87.4	81.2	78.5	81.5	92.3	99.8	104.6	104.6	90.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	75.8	75.8	75.1	73.6	74.2	78.5	87.4	92.3	96.2	95.9	83.0
112.5°	73.4	72.8	72.0	71.0	69.4	72.8	78.7	84.6	85.5	85.2	74.2
115°	72.3	71.6	68.9	65.9	64.0	66.6	71.2	76.6	78.7	78.5	70.7
117.5°	64.0	64.0	61.8	59.6	58.9	62.4	68.1	71.6	71.8	72.3	64.8
120°	57.3	57.3	55.9	54.8	55.4	57.1	63.2	66.1	68.9	68.5	62.1
122.5°	52.1	52.5	51.4	49.1	51.2	52.7	56.2	59.1	62.1	61.8	57.3
125°	47.1	46.8	45.7	43.2	47.6	49.7	50.0	49.7	52.7	52.7	48.6
127.5°	41.6	41.4	40.3	39.0	44.6	47.6	47.1	42.7	44.6	44.4	42.5
130°	41.1	40.9	39.0	37.3	40.1	45.2	42.7	39.8	41.4	41.6	39.8
132.5°	40.9	40.7	38.7	36.0	35.2	40.7	36.3	36.8	38.7	38.7	37.1
135°	38.1	37.9	36.3	32.6	28.7	33.7	28.7	31.6	34.2	34.2	32.8
137.5°	33.7	33.4	31.6	28.5	23.2	23.9	21.8	26.7	29.3	29.6	28.5
140°	26.7	26.9	25.2	22.1	16.7	12.7	14.2	20.6	23.4	23.4	23.2
142.5°	19.8	19.8	18.2	15.1	9.8	4.6	8.0	12.7	15.9	16.2	16.7
145°	13.9	13.9	12.3	9.8	4.8	0.8	3.8	7.5	10.0	10.0	10.7
147.5°	9.2	9.2	7.7	5.4	1.3	0.2	1.1	3.8	5.9	5.9	6.4
150°	5.7	5.7	4.3	1.6	0.2	0.0	0.2	0.8	2.7	2.7	3.5
152.5°	1.8	1.6	0.8	0.5	0.2	0.0	0.0	0.2	0.2	0.2	0.8
155°	0.5	0.5	0.5	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	0.2
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°	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0	224.0
2.5°	227.5	226.9	225.1	222.7	219.6	215.9	213.5	212.4	211.1	210.0	210.6
5°	235.0	233.0	228.8	221.0	213.7	208.3	204.1	200.3	198.5	196.7	196.7
7.5°	262.4	259.2	247.0	234.0	217.5	202.6	192.2	186.9	180.8	179.0	178.7
10°	322.1	318.1	292.5	260.8	229.9	200.8	174.5	160.3	153.5	150.0	150.8
12.5°	371.6	362.4	333.3	297.4	254.6	207.8	171.3	145.8	134.4	130.1	128.5
15°	367.5	352.3	320.7	286.6	253.3	219.2	182.6	153.8	130.3	122.6	121.0
17.5°	358.7	342.5	300.9	257.1	218.1	197.1	176.7	155.7	137.8	126.0	123.9
20°	403.8	385.5	331.3	287.7	232.8	179.8	156.5	144.7	133.4	127.4	126.0
22.5°	423.2	404.6	354.6	299.5	245.2	199.5	161.2	139.6	130.7	129.6	128.0
25°	452.3	428.9	360.8	291.4	239.1	201.7	161.6	140.1	126.8	126.8	126.0
27.5°	546.1	511.9	421.3	323.7	248.1	193.8	157.6	133.9	118.0	111.9	110.5
30°	588.1	555.5	444.4	332.0	252.2	195.7	150.0	122.9	112.4	107.8	107.3
32.5°	618.4	575.9	434.8	311.9	231.7	182.8	143.5	118.9	108.3	104.4	103.2
35°	633.4	577.6	447.6	304.7	219.4	167.8	136.0	114.2	107.8	104.6	104.6
37.5°	706.8	637.5	454.1	302.7	210.0	153.3	129.4	114.5	100.8	96.2	96.4
40°	808.2	709.5	478.3	288.8	191.7	148.1	125.0	109.5	96.8	93.9	92.8
41°	819.5	720.0	502.5	288.5	183.1	144.3	124.8	108.9	95.2	94.6	94.4
42.5°	789.4	686.3	448.2	262.1	171.7	138.2	124.2	108.3	93.5	94.9	94.6
45°	823.9	721.6	436.1	240.1	152.2	128.0	117.8	105.4	92.6	90.0	90.3
47.5°	715.7	611.7	375.3	208.9	134.7	116.9	108.9	98.7	89.8	88.5	88.5
50°	570.0	479.6	295.2	183.7	118.5	107.8	100.3	93.5	84.4	81.0	82.1
52.5°	580.7	485.8	299.3	171.0	107.8	98.5	93.5	85.2	74.6	68.1	69.1
55°	319.4	277.0	175.1	131.2	100.0	91.4	85.8	77.1	65.3	58.1	58.9
57.5°	144.9	120.4	93.0	90.3	86.6	84.1	78.0	70.2	58.9	50.8	50.8
60°	129.6	106.2	83.0	75.5	77.5	77.7	71.2	63.7	52.7	43.2	43.6
62.5°	126.6	103.5	80.7	72.0	73.6	73.6	67.5	60.0	50.0	40.3	40.3
65°	126.0	102.4	81.0	71.0	72.0	72.3	66.1	60.0	53.2	46.2	46.8
67.5°	133.7	108.3	83.6	70.2	71.2	71.2	66.1	61.6	57.6	53.2	53.7
70°	129.6	106.4	83.0	70.2	69.6	69.6	65.9	61.8	59.6	55.9	56.2
72.5°	131.2	109.7	84.6	69.6	67.5	66.9	64.6	62.1	60.2	58.4	58.6
75°	128.8	108.6	82.1	66.9	64.3	63.2	61.6	61.0	61.3	60.5	60.0
77.5°	125.0	106.7	80.1	64.3	61.3	58.9	57.8	58.1	59.1	58.4	57.6
80°	124.4	107.0	79.3	62.6	57.6	53.5	52.1	52.7	53.0	51.4	49.7
82.5°	122.9	104.9	75.5	58.4	51.9	46.8	45.7	46.6	46.8	45.2	43.6
85°	132.3	110.5	74.6	54.3	47.1	41.6	39.8	40.1	38.1	35.7	34.2
87.5°	136.0	111.6	70.2	48.1	42.2	37.7	35.2	33.7	30.7	26.7	25.5
90°	129.4	106.0	63.2	41.4	37.1	33.7	30.7	28.5	24.7	20.6	19.3
92.5°	125.3	101.6	58.1	37.1	32.6	29.6	26.9	23.7	19.8	15.3	14.5
95°	122.9	100.0	54.8	33.1	29.1	26.1	23.4	20.4	16.7	13.2	12.7
97.5°	107.0	86.6	48.4	29.6	25.5	22.8	20.4	17.5	13.9	11.3	10.7
100°	99.4	80.7	44.9	26.7	22.6	20.2	18.0	15.7	12.7	10.7	10.5
102.5°	93.0	75.1	40.9	23.9	20.2	17.7	15.9	13.6	11.6	10.0	10.3
105°	88.2	71.6	39.3	22.1	18.0	16.2	13.9	12.3	10.3	9.2	9.2
107.5°	78.2	63.5	34.6	19.8	16.4	14.5	12.9	11.3	9.8	8.8	9.2



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CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	72.3	58.9	33.1	19.1	15.7	13.4	11.8	10.3	8.6	8.6	8.6
112.5°	64.3	53.0	30.7	18.0	14.5	12.7	11.0	9.2	7.5	7.7	8.0
115°	61.6	51.2	29.6	17.2	13.9	12.1	10.3	8.6	6.8	7.2	7.5
117.5°	56.7	47.3	28.7	17.2	13.4	11.3	9.8	8.0	6.4	7.0	7.0
120°	55.0	46.6	28.7	16.9	12.9	10.7	9.2	7.0	5.9	6.4	6.4
122.5°	51.4	43.6	27.5	16.7	12.3	10.3	8.8	5.9	5.1	5.7	5.7
125°	44.1	37.9	24.7	15.7	11.8	10.3	8.6	4.8	4.8	5.4	5.4
127.5°	38.5	33.4	22.6	15.3	12.1	10.7	8.0	4.1	4.3	4.8	4.8
130°	36.6	32.6	23.4	16.7	13.2	11.3	5.9	3.8	4.1	4.6	4.8
132.5°	34.6	31.4	23.9	18.0	13.9	11.0	4.8	3.5	3.8	4.3	4.3
135°	30.9	28.5	22.3	17.2	13.2	8.8	3.5	2.9	3.5	4.1	4.1
137.5°	27.2	25.2	20.4	15.9	12.1	7.0	2.4	2.7	2.9	3.3	3.3
140°	22.3	20.6	16.9	12.9	8.8	3.8	1.6	2.1	2.4	2.7	2.7
142.5°	16.2	15.1	12.1	8.6	5.1	1.3	1.1	1.6	1.8	2.1	2.1
145°	10.7	10.0	7.7	5.4	1.8	0.8	0.5	1.1	1.6	1.6	1.8
147.5°	6.4	6.2	4.6	2.4	0.8	0.5	0.5	0.8	1.1	1.3	1.3
150°	3.3	3.3	2.1	0.8	0.5	0.2	0.2	0.2	0.5	0.8	0.8
152.5°	0.8	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.2	0.2	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)