

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: P240046

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240046
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 1996.8 lumens
Efficiency: N/A
Efficacy: 95.1 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: B1 - 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



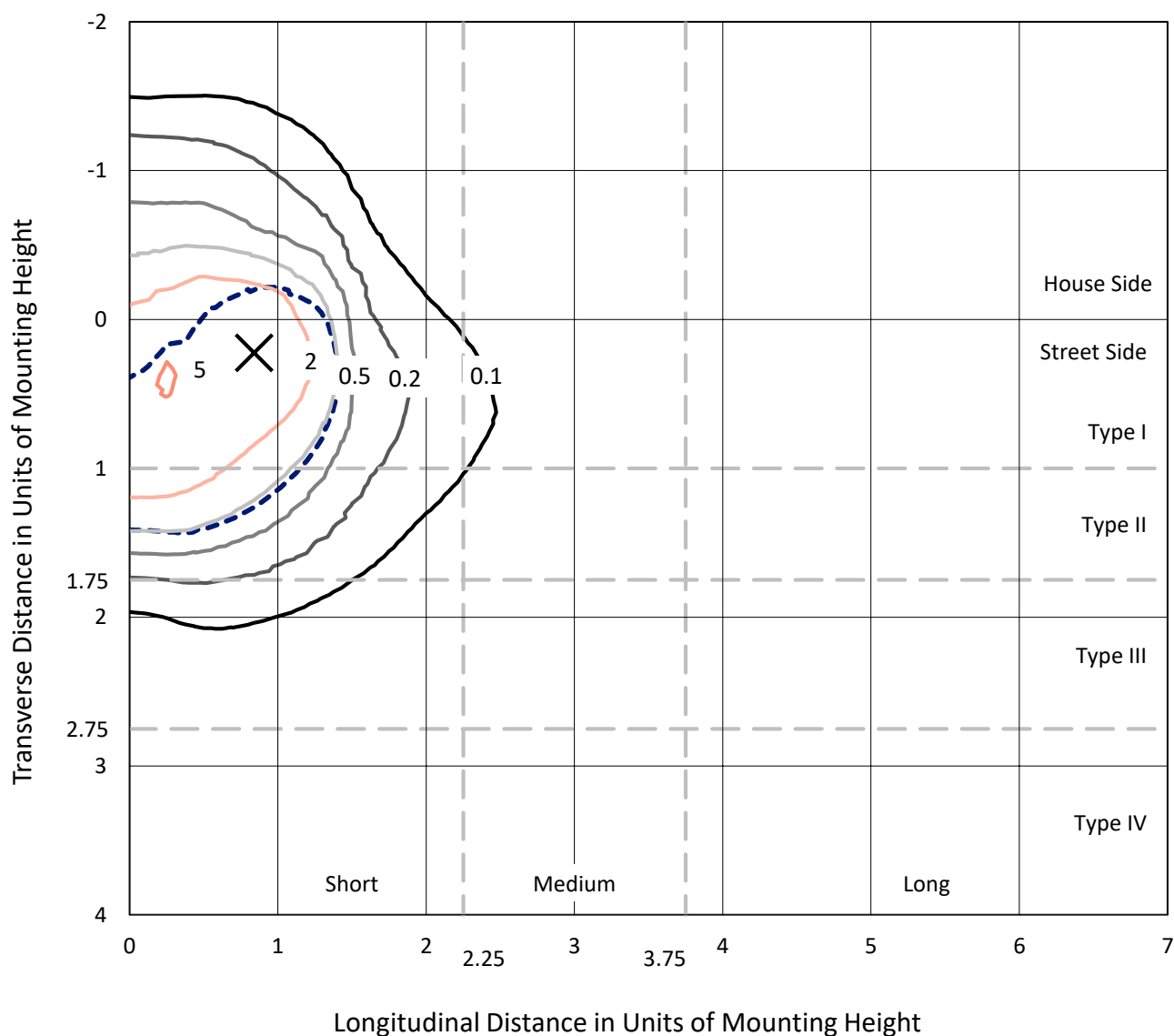
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

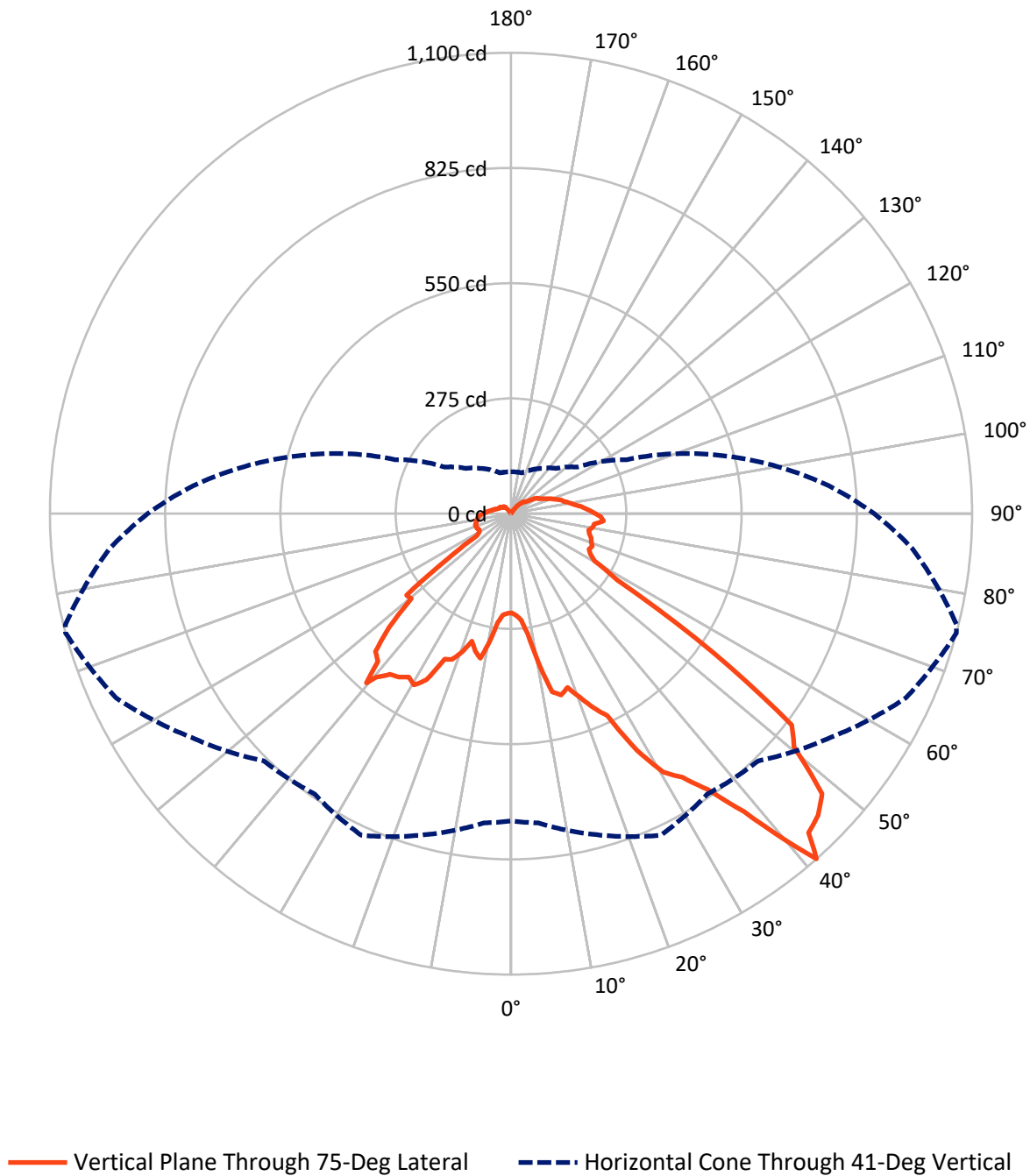


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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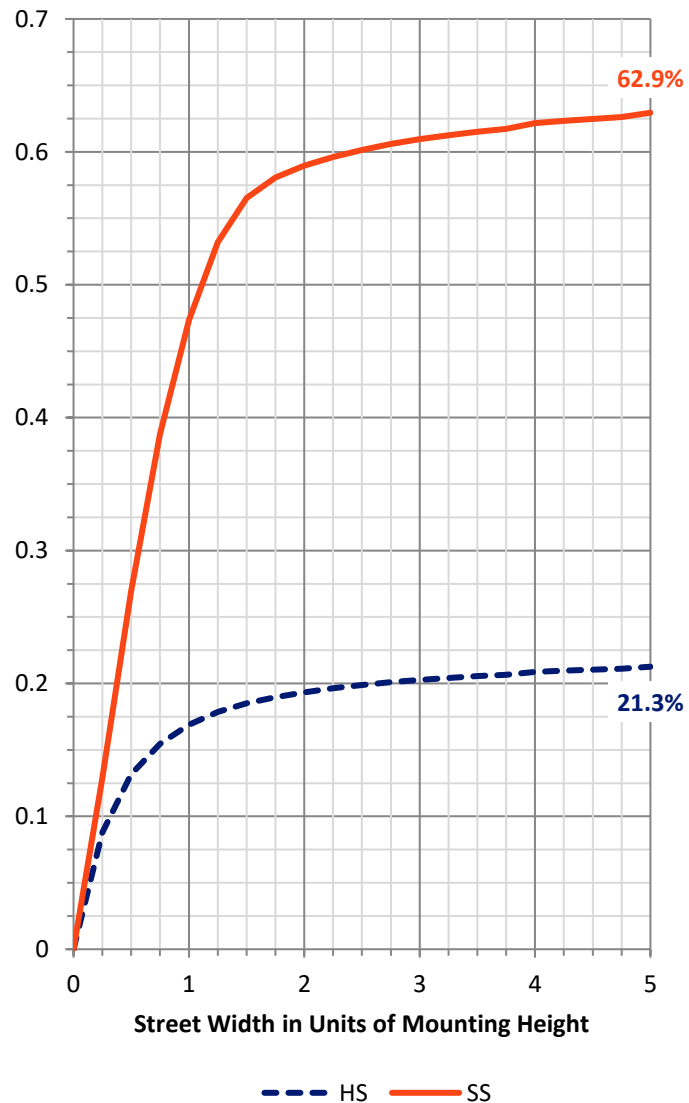
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.5	56.2	496.7
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	1295.5	204.7	1500.2
	% Fixture	64.9	10.3	75.1
Total	Lumens	1735.9	260.9	1996.8
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	1.2
10°-20°	98.8	4.9
20°-30°	203.0	10.2
30°-40°	330.5	16.6
40°-50°	429.3	21.5
50°-60°	304.4	15.2
60°-70°	123.7	6.2
70°-80°	111.9	5.6
80°-90°	109.4	5.5
90°-100°	93.8	4.7
100°-110°	67.9	3.4
110°-120°	46.3	2.3
120°-130°	30.1	1.5
130°-140°	17.9	0.9
140°-150°	4.6	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1735.9	86.9
0°-180°	1996.8	100.0

Coefficient of Utilization



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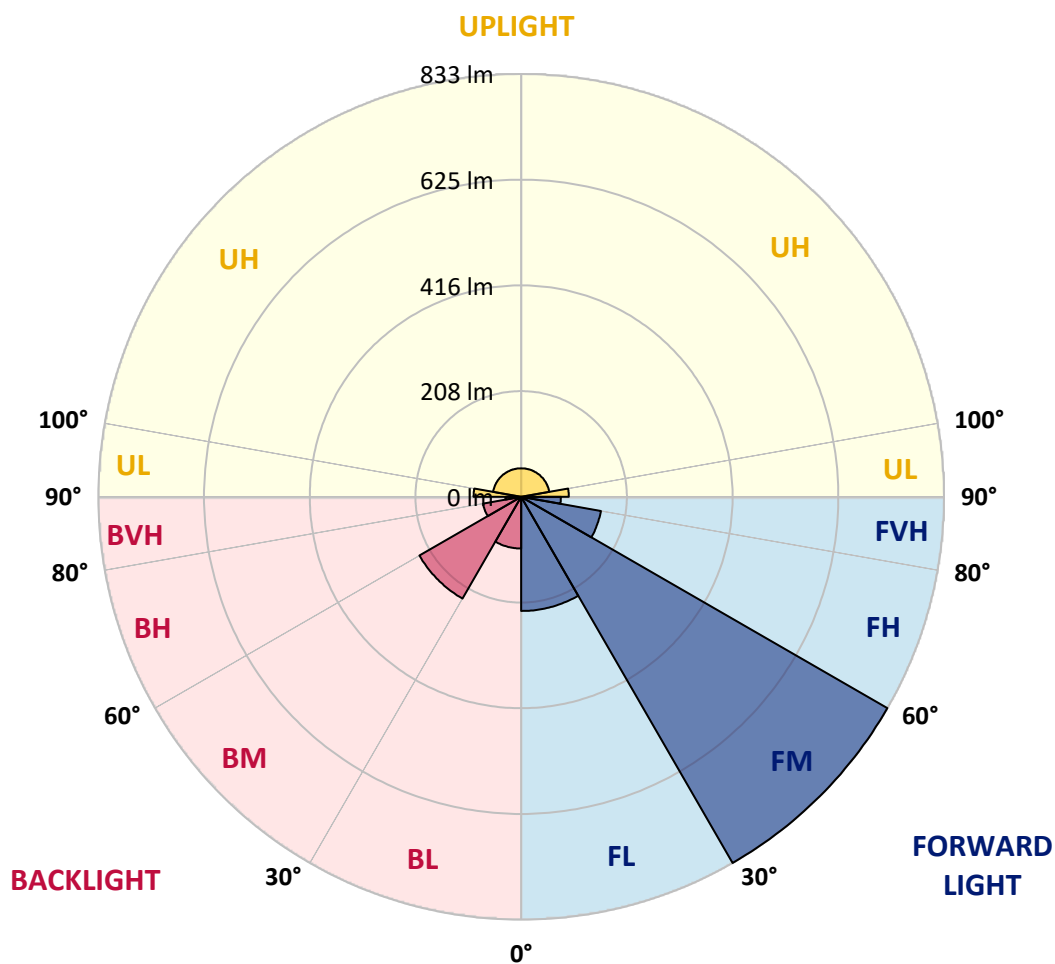
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.9	11.3			
FM	(30°-60°)	832.8	41.7			
FH	(60°-80°)	159.5	8.0			G0/660
FVH	(80°-90°)	78.3	3.9			G1/100
BL	(0°-30°)	101.9	5.1	B0/110		
BM	(30°-60°)	231.3	11.6	B1/1000		
BH	(60°-80°)	76.2	3.8	B0/110		G0/110
BVH	(80°-90°)	31.0	1.6			G1/100
UL	(90°-100°)	93.8	4.7		U3/500	
UH	(100°-180°)	56.2	2.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9
2.5°	253.4	253.9	252.8	252.0	251.3	249.7	248.3	246.2	243.4	243.2	242.0
5°	276.4	276.4	276.4	274.4	272.1	268.4	265.4	260.8	255.3	255.0	250.8
7.5°	313.6	313.6	311.9	309.1	304.0	298.3	297.7	297.2	289.8	288.9	281.2
10°	353.7	352.6	353.4	355.7	358.3	366.0	370.8	371.3	363.5	361.4	350.4
12.5°	369.4	370.5	380.4	398.6	429.3	460.1	476.0	462.9	436.5	433.1	406.9
15°	393.2	394.7	411.2	441.6	492.8	537.2	523.5	490.8	449.0	445.9	405.5
17.5°	457.3	463.8	479.7	528.0	580.1	562.2	516.1	474.0	436.2	432.5	398.6
20°	502.2	505.8	536.5	583.0	619.6	592.3	560.8	518.4	467.5	467.5	441.0
22.5°	539.4	538.3	563.3	633.3	654.6	637.0	600.3	557.1	503.0	500.4	466.1
25°	598.0	601.7	645.0	722.3	702.7	657.8	609.4	569.9	534.3	531.2	496.7
27.5°	632.1	641.8	691.5	758.6	746.1	685.6	643.2	637.2	639.8	637.2	599.8
30°	640.7	645.0	706.3	772.8	764.3	719.4	719.4	729.4	716.3	712.6	662.3
32.5°	662.0	672.2	731.1	782.9	762.1	753.5	758.1	756.1	750.4	745.3	686.7
35°	696.6	705.5	760.7	799.6	761.8	765.0	805.9	829.5	808.9	804.4	717.2
37.5°	788.0	796.5	846.3	843.9	781.9	788.0	862.1	905.4	901.7	901.1	814.7
40°	769.8	797.9	858.2	867.6	812.1	818.7	907.4	1001.3	1044.4	1043.3	936.1
41°	733.4	741.0	793.6	846.8	816.9	834.3	931.0	1039.9	1100.2	1095.9	961.7
42.5°	746.4	760.1	791.4	808.9	811.3	846.0	949.5	1044.7	1041.6	1039.6	929.9
45°	857.9	863.6	876.7	842.8	785.7	828.9	939.3	1027.7	1027.3	1018.2	968.8
47.5°	804.1	820.4	876.1	846.0	783.1	782.6	855.1	974.8	998.7	985.6	862.4
50°	760.7	772.3	804.8	772.6	745.0	744.4	812.7	902.9	875.5	871.9	702.7
52.5°	674.7	686.2	709.2	701.2	685.6	683.8	735.9	830.3	838.8	836.1	709.2
55°	513.0	521.0	607.6	610.0	598.3	604.0	646.1	684.5	588.9	573.6	398.6
57.5°	301.5	321.9	406.1	458.7	482.8	487.4	472.9	404.9	298.9	288.1	184.0
60°	148.7	159.3	217.8	273.5	336.1	338.4	292.4	258.8	229.4	222.9	160.9
62.5°	106.1	112.3	150.7	180.2	215.2	221.0	204.7	218.7	212.4	208.5	156.7
65°	96.2	101.5	133.6	149.2	163.8	172.6	176.6	199.9	204.7	202.1	155.6
67.5°	87.9	93.3	122.0	133.9	144.7	159.0	167.5	190.5	209.0	207.2	164.9
70°	77.6	83.9	110.1	124.6	137.9	154.2	165.8	190.0	203.4	201.0	159.8
72.5°	67.9	73.7	94.9	112.0	131.7	150.2	167.5	185.2	199.9	197.9	161.8
75°	59.1	64.9	83.3	101.0	123.4	151.3	168.6	183.7	193.0	190.3	159.0
77.5°	53.2	58.8	74.8	92.2	117.1	153.0	184.2	190.0	189.7	186.8	155.6
80°	48.4	54.0	69.0	85.8	111.5	156.7	197.0	202.7	197.6	194.0	156.4
82.5°	47.0	52.3	66.3	84.7	112.6	159.0	200.8	215.0	200.5	195.9	155.6
85°	52.1	55.4	70.0	90.7	120.0	163.0	199.4	221.8	221.5	216.7	169.8
87.5°	62.0	64.9	79.1	100.0	128.0	165.2	217.0	226.1	214.1	211.9	171.4
90°	76.8	78.8	93.6	112.9	136.3	164.1	178.8	190.5	198.5	196.8	162.6
92.5°	91.2	93.8	107.2	121.4	132.0	141.1	155.6	182.6	183.7	182.3	156.4
95°	108.3	110.1	117.7	124.8	127.2	130.2	144.7	156.7	169.8	168.1	150.7
97.5°	117.7	118.6	122.0	121.1	115.7	116.3	132.5	145.3	153.2	151.3	132.0
100°	115.5	116.3	116.8	111.7	104.3	106.6	120.0	135.3	141.6	140.8	122.2
102.5°	108.0	109.5	109.8	104.6	97.8	98.4	111.5	123.2	129.7	128.5	114.1
105°	106.1	106.6	104.0	97.3	89.3	90.4	102.9	115.5	123.2	122.5	107.8
107.5°	95.5	96.2	92.4	85.8	83.1	86.1	97.5	105.5	110.6	110.6	96.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	80.2	80.2	79.4	77.9	78.5	83.1	92.4	97.5	101.8	101.5	87.9
112.5°	77.6	77.0	76.2	75.1	73.3	77.0	83.3	89.6	90.4	90.1	78.5
115°	76.5	75.6	72.8	69.7	67.7	70.5	75.4	81.0	83.3	83.1	74.8
117.5°	67.7	67.7	65.4	63.1	62.3	66.0	71.9	75.6	75.9	76.5	68.5
120°	60.6	60.6	59.1	58.0	58.6	60.3	66.8	70.0	72.8	72.5	65.7
122.5°	55.1	55.4	54.3	52.1	54.0	55.8	59.4	62.6	65.7	65.4	60.6
125°	49.7	49.5	48.4	45.8	50.3	52.6	52.9	52.6	55.8	55.8	51.5
127.5°	44.1	43.8	42.7	41.2	47.2	50.3	49.7	45.2	47.2	47.0	44.9
130°	43.5	43.3	41.2	39.5	42.4	47.8	45.2	42.0	43.8	44.1	42.0
132.5°	43.3	43.0	40.9	38.1	37.2	43.0	38.4	39.0	40.9	40.9	39.3
135°	40.4	40.1	38.4	34.4	30.4	35.5	30.4	33.6	36.1	36.1	34.7
137.5°	35.5	35.3	33.6	30.2	24.4	25.3	23.0	28.1	31.0	31.3	30.2
140°	28.1	28.4	26.7	23.3	17.6	13.4	15.0	21.9	24.8	24.8	24.4
142.5°	21.1	21.1	19.3	16.0	10.2	4.8	8.5	13.4	16.8	17.1	17.6
145°	14.8	14.8	13.1	10.2	5.1	0.8	4.0	8.0	10.5	10.5	11.4
147.5°	9.7	9.7	8.3	5.7	1.4	0.3	1.1	4.0	6.2	6.2	6.9
150°	5.9	5.9	4.5	1.7	0.3	0.0	0.3	0.8	2.9	2.9	3.7
152.5°	1.9	1.7	0.8	0.6	0.3	0.0	0.0	0.3	0.3	0.3	0.8
155°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9	236.9
2.5°	240.6	240.0	238.0	235.5	232.3	228.3	225.8	224.6	223.2	222.1	222.7
5°	248.6	246.5	242.0	233.7	226.1	220.3	215.8	211.9	209.8	208.2	208.2
7.5°	277.5	274.2	261.4	247.3	230.1	214.4	203.4	197.6	191.1	189.3	189.1
10°	340.6	336.3	309.3	275.8	243.2	212.4	184.5	169.5	162.3	158.7	159.5
12.5°	393.0	383.3	352.6	314.5	269.2	219.8	181.2	154.2	142.2	137.6	136.0
15°	388.7	372.5	339.2	303.1	267.9	231.8	193.0	162.6	137.9	129.7	128.0
17.5°	379.3	362.2	318.2	271.8	230.6	208.5	186.8	164.6	145.9	133.4	131.0
20°	427.1	407.7	350.4	304.2	246.2	190.3	165.5	153.0	141.1	134.8	133.4
22.5°	447.5	428.0	375.1	316.8	259.3	211.0	170.6	147.6	138.2	137.1	135.3
25°	478.3	453.6	381.6	308.2	252.8	213.3	170.9	148.1	134.2	134.2	133.4
27.5°	577.6	541.4	445.6	342.4	262.5	205.0	166.6	141.6	124.8	118.3	116.8
30°	621.9	587.5	470.0	351.2	266.7	207.0	158.7	129.9	118.9	114.1	113.4
32.5°	654.0	609.1	459.8	329.9	245.1	193.3	151.8	125.7	114.6	110.4	109.1
35°	669.9	610.8	473.4	322.1	232.0	177.5	143.9	120.8	114.1	110.6	110.6
37.5°	747.6	674.2	480.3	320.2	222.1	162.0	136.8	121.1	106.6	101.8	102.1
40°	854.8	750.4	505.8	305.4	202.7	156.7	132.3	115.7	102.4	99.2	98.1
41°	866.7	761.5	531.4	305.1	193.6	152.7	132.0	115.2	100.7	100.0	99.8
42.5°	834.8	726.0	474.0	277.2	181.7	146.2	131.3	114.6	98.9	100.4	100.0
45°	871.2	763.2	461.2	253.9	160.9	135.3	124.6	111.5	97.8	95.2	95.5
47.5°	757.0	646.9	397.0	221.0	142.5	123.7	115.2	104.3	94.9	93.6	93.6
50°	602.8	507.3	312.2	194.3	125.4	114.1	106.1	98.9	89.3	85.6	86.7
52.5°	614.2	513.8	316.5	180.9	114.1	104.0	98.9	90.1	78.8	71.9	73.0
55°	337.8	292.9	185.2	138.8	105.8	96.7	90.7	81.6	69.0	61.4	62.3
57.5°	153.2	127.4	98.4	95.5	91.6	89.0	82.4	74.3	62.3	53.7	53.7
60°	137.1	112.3	87.9	79.9	81.9	82.1	75.4	67.4	55.8	45.8	46.0
62.5°	133.9	109.5	85.3	76.2	77.9	77.9	71.4	63.4	52.9	42.7	42.7
65°	133.4	108.3	85.6	75.1	76.2	76.5	70.0	63.4	56.3	48.9	49.5
67.5°	141.4	114.6	88.5	74.3	75.4	75.4	70.0	65.2	60.9	56.3	56.9
70°	137.1	112.6	87.9	74.3	73.7	73.7	69.7	65.4	63.1	59.1	59.4
72.5°	138.8	116.0	89.6	73.7	71.4	70.8	68.2	65.7	63.7	61.7	62.0
75°	136.3	114.9	86.7	70.8	67.9	66.8	65.2	64.5	64.9	63.9	63.4
77.5°	132.3	112.9	84.7	67.9	64.9	62.3	61.2	61.4	62.6	61.7	60.9
80°	131.7	113.1	83.9	66.3	60.9	56.6	55.1	55.8	56.1	54.3	52.6
82.5°	129.9	110.9	79.9	61.7	54.8	49.5	48.4	49.2	49.5	47.8	46.0
85°	139.9	116.8	78.8	57.5	49.7	44.1	42.0	42.4	40.4	37.8	36.1
87.5°	143.9	118.0	74.3	50.9	44.6	39.8	37.2	35.5	32.4	28.1	27.0
90°	136.8	112.0	66.8	43.8	39.3	35.5	32.4	30.2	26.2	21.9	20.5
92.5°	132.5	107.5	61.4	39.3	34.4	31.3	28.4	25.1	21.1	16.2	15.3
95°	129.9	105.8	58.0	35.0	30.7	27.6	24.8	21.6	17.6	13.9	13.4
97.5°	113.1	91.6	51.1	31.3	27.0	24.1	21.6	18.5	14.8	12.0	11.4
100°	105.3	85.3	47.5	28.1	23.9	21.3	19.0	16.5	13.4	11.4	11.0
102.5°	98.4	79.4	43.3	25.3	21.3	18.7	16.8	14.5	12.3	10.5	10.8
105°	93.3	75.6	41.5	23.3	19.0	17.1	14.8	13.1	10.8	9.7	9.7
107.5°	82.8	67.1	36.7	21.1	17.4	15.3	13.6	12.0	10.2	9.4	9.7



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	76.5	62.3	35.0	20.2	16.5	14.2	12.5	10.8	9.1	9.1	9.1
112.5°	67.9	56.1	32.4	19.0	15.3	13.4	11.7	9.7	8.0	8.3	8.5
115°	65.2	54.0	31.3	18.2	14.8	12.8	10.8	9.1	7.1	7.7	8.0
117.5°	60.0	50.0	30.4	18.2	14.2	12.0	10.2	8.5	6.9	7.4	7.4
120°	58.3	49.2	30.4	17.9	13.6	11.4	9.7	7.4	6.2	6.9	6.9
122.5°	54.3	46.0	29.1	17.6	13.1	10.8	9.4	6.2	5.4	5.9	5.9
125°	46.6	40.1	26.2	16.5	12.5	10.8	9.1	5.1	5.1	5.7	5.7
127.5°	40.7	35.3	23.9	16.2	12.8	11.4	8.5	4.3	4.5	5.1	5.1
130°	38.7	34.4	24.8	17.6	13.9	12.0	6.2	4.0	4.3	4.8	5.1
132.5°	36.7	33.2	25.3	19.0	14.8	11.7	5.1	3.7	4.0	4.5	4.5
135°	32.7	30.2	23.6	18.2	13.9	9.4	3.7	3.2	3.7	4.3	4.3
137.5°	28.7	26.7	21.6	16.8	12.8	7.4	2.6	2.9	3.2	3.4	3.4
140°	23.6	21.9	17.9	13.6	9.4	4.0	1.7	2.3	2.6	2.9	2.9
142.5°	17.1	16.0	12.8	9.1	5.4	1.4	1.1	1.7	1.9	2.3	2.3
145°	11.4	10.5	8.3	5.7	1.9	0.8	0.6	1.1	1.7	1.7	1.9
147.5°	6.9	6.5	4.8	2.6	0.8	0.6	0.6	0.8	1.1	1.4	1.4
150°	3.4	3.4	2.3	0.8	0.6	0.3	0.3	0.3	0.6	0.8	0.8
152.5°	0.8	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.3	0.3	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)