

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: P240210

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3779.8 lumens
Efficiency: N/A
Efficacy: 94.5 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



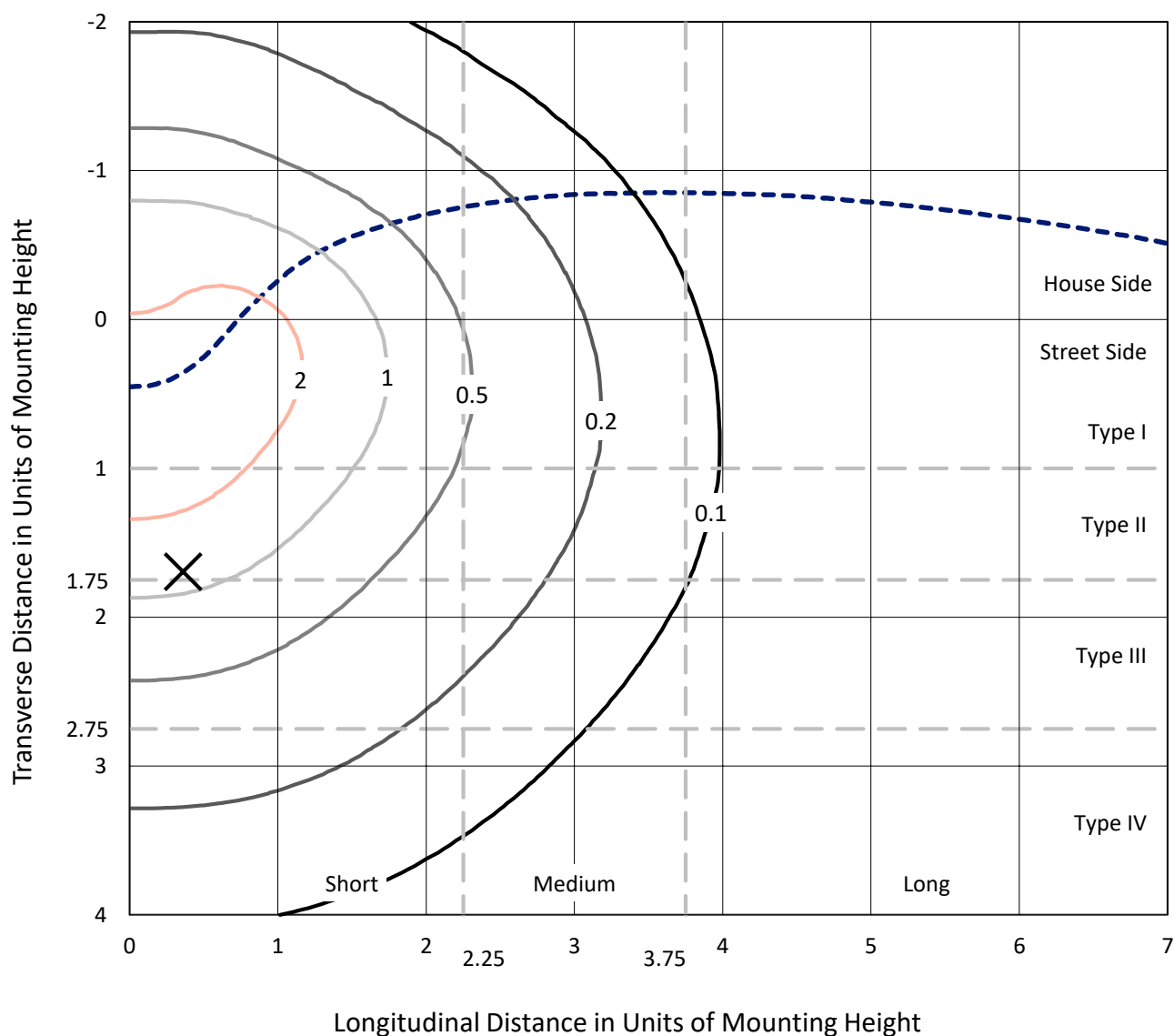
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

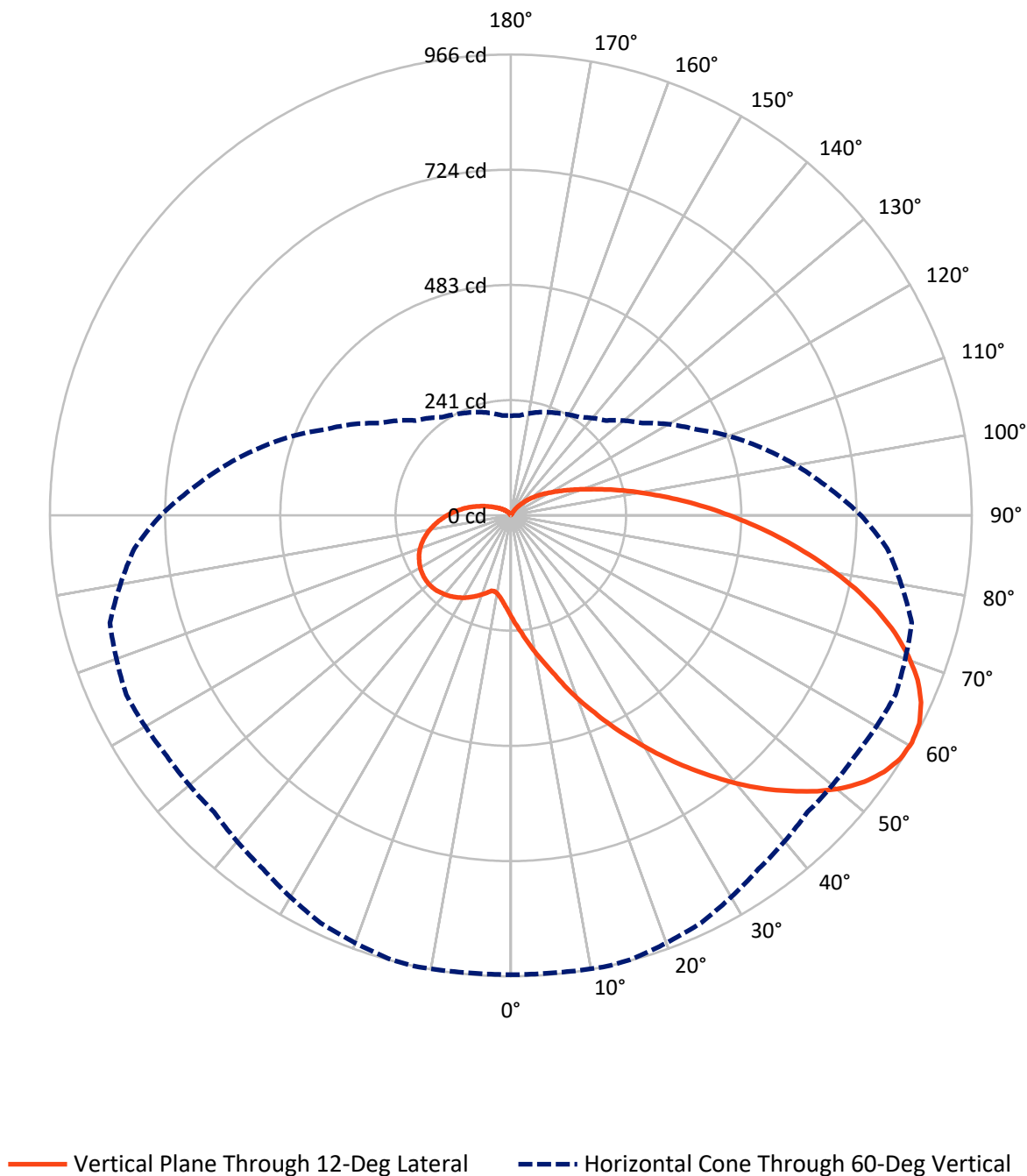


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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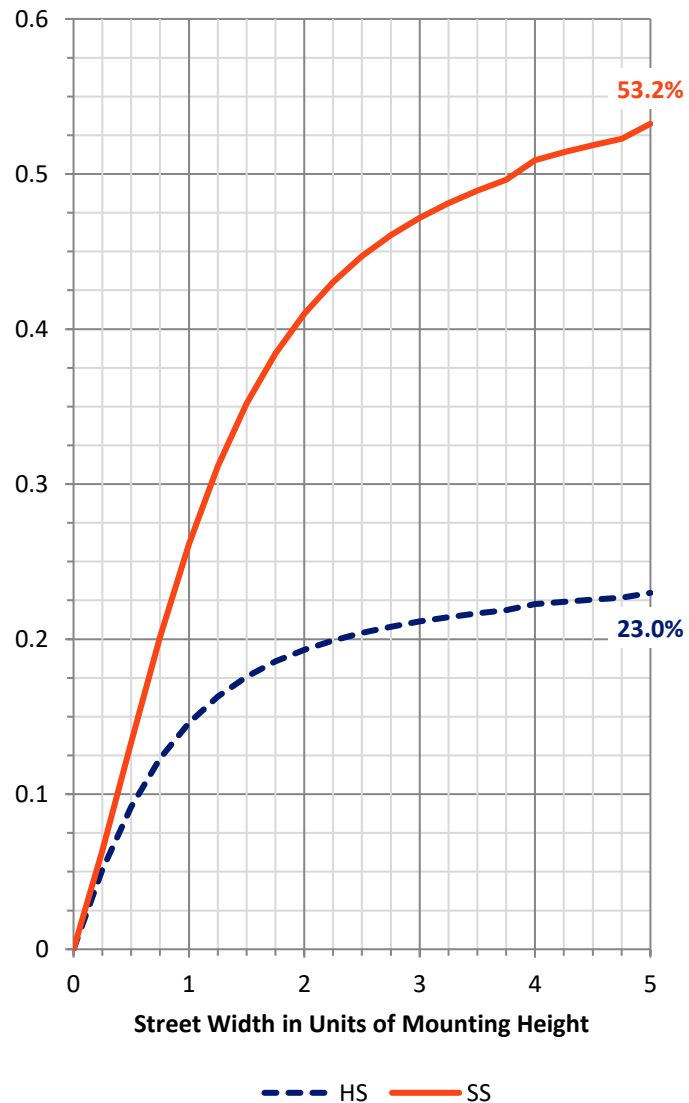
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.3	214.0	1143.3
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	2193.0	443.5	2636.5
	% Fixture	58.0	11.7	69.8
Total	Lumens	3122.3	657.5	3779.8
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	0.6
10°-20°	74.1	2.0
20°-30°	159.0	4.2
30°-40°	278.3	7.4
40°-50°	419.1	11.1
50°-60°	547.2	14.5
60°-70°	609.4	16.1
70°-80°	568.9	15.1
80°-90°	445.1	11.8
90°-100°	300.8	8.0
100°-110°	181.8	4.8
110°-120°	100.1	2.6
120°-130°	49.8	1.3
130°-140°	19.9	0.5
140°-150°	4.8	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3122.3	82.6
0°-180°	3779.8	100.0

Coefficient of Utilization



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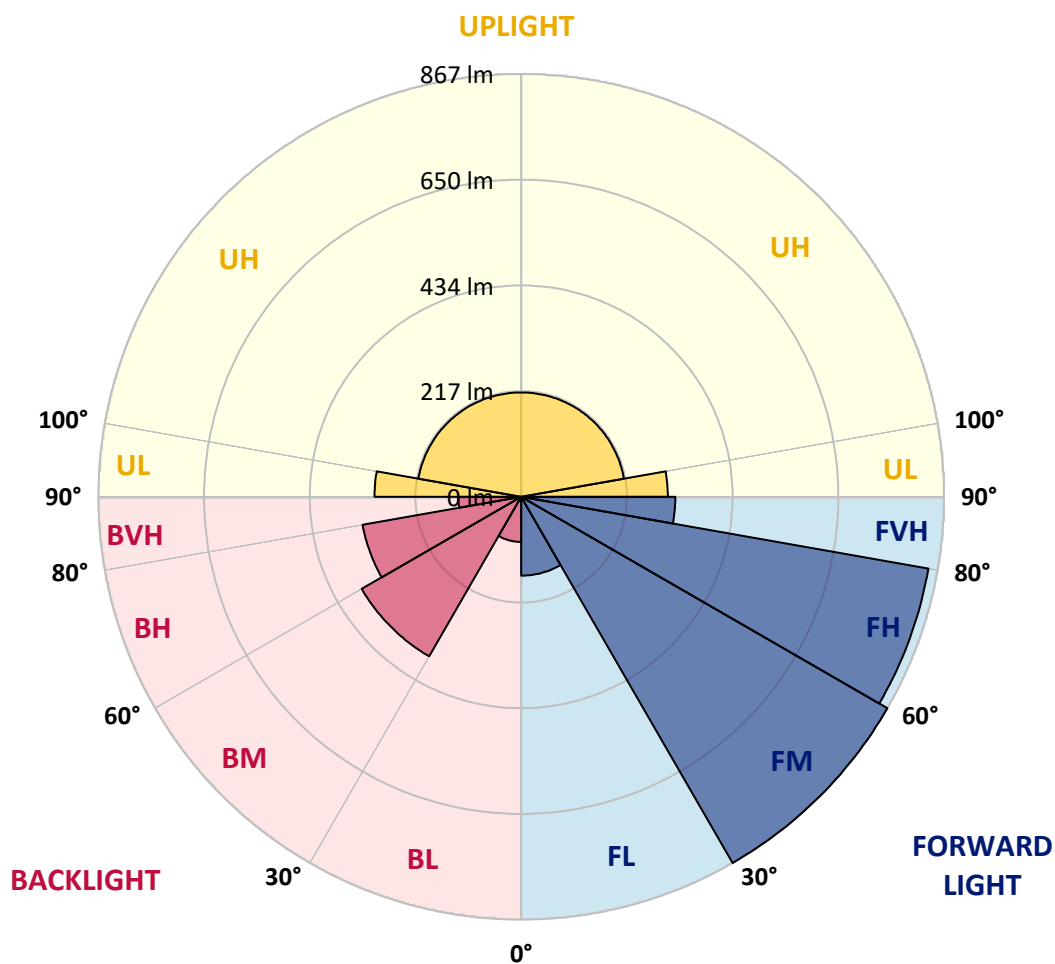
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.7	4.3			
FM	(30°-60°)	867.2	22.9			
FH	(60°-80°)	848.1	22.4			G1/1800
FVH	(80°-90°)	316.1	8.4			G3/500
BL	(0°-30°)	92.6	2.5	B0/110		
BM	(30°-60°)	377.5	10.0	B1/1000		
BH	(60°-80°)	330.2	8.7	B1/500		G1/500
BVH	(80°-90°)	129.0	3.4			G2/225
UL	(90°-100°)	300.8	8.0		U3/500	
UH	(100°-180°)	214.0	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1
2.5°	231.6	230.6	230.6	229.7	229.7	227.6	226.1	223.6	221.1	218.1	215.6
5°	250.1	250.1	249.1	249.1	247.1	243.6	240.1	235.6	231.1	226.1	220.1
7.5°	272.1	271.6	271.6	270.2	267.6	262.6	257.6	251.1	244.1	235.6	227.6
10°	294.6	294.1	294.1	292.7	289.6	283.7	276.1	268.6	259.6	248.6	237.6
12.5°	321.6	319.7	318.6	318.1	313.1	307.6	298.1	289.1	277.1	264.6	251.1
15°	350.2	349.6	346.7	345.1	340.1	331.6	322.6	311.7	299.6	285.6	269.1
17.5°	382.2	382.2	380.1	378.2	372.7	361.2	349.6	339.1	327.1	310.2	291.6
20°	416.6	416.6	414.2	411.2	404.2	394.1	382.7	370.2	355.7	337.2	314.7
22.5°	453.2	452.2	448.7	446.7	438.2	427.2	418.2	403.7	386.7	365.7	339.6
25°	491.7	490.2	486.7	484.7	474.8	466.3	455.7	438.7	419.2	395.2	366.2
27.5°	532.2	528.3	525.7	522.7	513.2	504.7	490.2	474.2	451.7	426.7	394.7
30°	571.2	569.8	566.7	562.7	554.2	544.2	528.3	510.8	488.8	461.2	425.6
32.5°	615.8	614.3	609.3	605.3	594.2	583.8	567.2	548.7	525.3	496.2	457.7
35°	660.3	658.3	652.8	648.3	639.3	623.8	604.3	586.8	563.2	533.8	492.2
37.5°	706.3	702.4	696.3	693.4	682.3	663.3	642.8	623.8	602.3	572.2	527.2
40°	749.8	747.9	740.8	737.3	725.4	701.8	679.3	662.3	642.8	611.3	563.7
42.5°	794.3	790.8	783.9	780.4	766.4	739.4	715.9	699.8	683.3	652.3	600.8
45°	833.9	832.4	823.9	821.8	804.9	775.8	748.8	734.9	720.4	690.8	634.7
47.5°	872.4	868.9	863.4	860.9	840.9	807.8	781.3	769.4	757.4	730.3	671.3
50°	903.9	903.4	898.5	895.4	872.4	836.4	809.4	799.8	793.4	767.3	704.3
52.5°	930.9	930.5	927.4	924.4	899.9	862.3	834.4	827.4	825.4	801.4	733.4
55°	949.9	949.4	948.5	945.4	921.5	882.9	855.4	849.9	852.4	829.9	759.3
57.5°	961.0	960.4	962.0	959.4	935.0	896.9	869.9	868.4	874.4	853.9	778.9
60°	962.0	962.0	965.5	963.9	941.9	904.4	878.9	879.4	888.9	869.4	791.4
62.5°	953.0	953.0	960.4	958.9	939.9	903.9	880.5	884.4	896.4	877.9	795.9
65°	933.4	935.9	944.4	944.4	929.5	896.9	875.4	881.4	895.9	877.4	792.9
67.5°	902.4	907.5	919.4	920.5	909.9	881.4	862.3	870.9	886.9	867.4	780.4
70°	863.9	870.9	883.4	886.9	882.4	858.9	842.9	852.9	868.4	848.8	759.8
72.5°	818.9	825.4	841.4	845.4	846.9	828.4	815.9	827.9	840.4	819.4	731.3
75°	768.8	774.4	792.4	796.4	802.9	792.4	784.4	793.9	807.8	781.8	694.8
77.5°	708.3	717.8	737.9	742.4	754.8	749.8	743.9	755.3	765.9	738.4	652.3
80°	649.8	661.8	678.3	687.3	702.4	701.8	702.9	710.3	719.3	689.4	606.3
82.5°	590.2	598.7	618.3	626.8	649.8	655.3	655.3	665.3	668.3	634.7	556.8
85°	530.2	540.2	559.8	568.2	593.3	605.3	608.8	613.8	614.3	579.3	505.7
87.5°	477.2	483.2	501.8	512.2	539.2	553.2	557.7	563.7	559.8	525.3	453.2
90°	424.2	429.7	447.7	456.2	485.7	502.3	512.2	514.7	506.8	470.3	405.2
92.5°	374.7	380.1	397.2	407.2	436.2	453.7	463.2	465.2	456.2	419.2	358.6
95°	331.1	331.1	349.6	357.2	389.6	409.2	418.2	418.2	405.7	369.2	314.1
97.5°	290.1	291.1	305.7	315.2	345.1	365.7	375.2	375.6	358.1	323.7	276.6
100°	253.1	254.6	268.1	276.6	305.7	327.1	335.6	334.2	316.2	280.6	239.1
102.5°	222.6	222.6	234.2	241.1	268.6	290.1	298.1	295.1	276.6	242.6	208.6
105°	195.1	196.1	203.6	210.6	236.6	256.7	264.6	260.1	241.1	208.1	182.1
107.5°	173.1	172.6	177.6	182.6	207.0	226.1	233.1	227.6	207.6	178.1	158.0
110°	151.1	151.6	155.6	159.1	181.6	199.6	204.6	200.1	177.6	151.6	137.1



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-FP

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	133.6	133.6	136.6	139.5	155.6	173.1	179.1	172.6	151.1	128.6	119.6
115°	118.6	119.1	120.1	121.5	135.0	151.1	156.1	148.0	127.1	110.1	104.0
117.5°	105.6	105.6	106.1	107.5	116.0	130.5	134.1	125.5	107.5	94.0	91.6
120°	94.5	94.0	93.5	94.0	100.0	110.6	114.1	105.6	89.5	81.5	79.6
122.5°	84.1	84.1	83.1	83.6	85.0	93.1	95.5	87.6	75.5	70.5	70.1
125°	74.1	74.1	73.0	72.5	72.0	76.0	77.0	71.0	62.5	61.1	60.6
127.5°	64.5	65.1	63.5	63.0	61.1	61.5	62.0	56.6	51.6	52.1	52.5
130°	56.6	56.6	55.0	54.0	51.0	48.5	47.6	44.0	42.0	44.0	45.5
132.5°	49.0	48.0	47.1	46.0	41.5	38.1	36.0	33.0	34.1	37.0	38.6
135°	41.0	40.5	39.0	38.6	34.1	28.5	25.1	24.0	27.0	30.5	31.5
137.5°	33.6	33.6	32.0	31.0	26.0	20.5	17.0	17.0	20.5	24.0	26.0
140°	26.5	26.5	25.1	24.0	19.5	14.0	10.5	11.0	15.0	18.5	20.0
142.5°	20.0	20.0	18.5	18.0	14.0	9.0	6.0	7.0	10.5	13.5	15.0
145°	14.5	14.0	13.0	12.5	9.0	5.5	3.0	4.0	6.5	9.0	10.5
147.5°	9.5	9.5	8.5	8.0	5.5	3.0	1.0	2.0	4.0	5.5	7.0
150°	5.5	5.5	5.0	4.5	3.0	1.0	0.0	1.0	2.0	3.0	4.0
152.5°	3.0	3.0	2.5	2.5	1.0	0.5	0.0	0.0	0.5	1.5	1.5
155°	1.0	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1
2.5°	214.1	212.6	209.6	207.0	204.6	201.6	200.1	198.6	197.6	196.6	196.6
5°	217.1	214.1	208.6	203.1	198.0	193.5	189.6	186.6	185.1	184.1	183.6
7.5°	223.6	219.1	210.1	201.6	194.1	187.1	181.6	177.1	174.6	173.1	172.6
10°	232.1	225.6	214.1	202.5	192.6	183.6	176.0	170.6	167.0	165.6	164.6
12.5°	243.6	235.6	220.7	206.1	193.1	182.1	172.6	166.5	163.1	161.1	161.1
15°	261.2	250.6	232.1	212.6	196.6	183.1	172.6	166.1	163.6	162.5	162.0
17.5°	281.1	269.1	246.6	224.1	203.6	186.6	177.1	173.1	169.6	168.1	168.1
20°	303.1	288.7	262.6	237.1	214.1	196.6	186.1	179.6	175.5	174.1	173.6
22.5°	325.2	310.2	279.7	250.6	225.2	209.6	194.6	186.6	181.6	179.6	179.1
25°	350.2	333.7	297.7	265.1	240.6	223.1	205.6	194.1	187.6	185.1	184.5
27.5°	377.2	357.6	317.6	280.6	255.6	235.1	215.6	200.1	193.5	190.6	190.1
30°	405.2	383.7	337.7	296.7	270.2	245.6	225.2	207.6	199.1	195.6	195.1
32.5°	434.7	409.2	359.2	315.7	283.7	255.1	233.1	214.6	204.1	200.1	200.1
35°	467.7	438.2	380.1	333.2	296.1	264.6	240.1	221.1	208.6	204.6	204.6
37.5°	499.2	467.2	402.7	352.2	307.6	272.1	245.6	227.1	213.1	208.1	208.1
40°	532.8	496.2	424.2	367.6	317.6	278.1	250.6	231.6	216.6	212.1	211.1
42.5°	565.3	525.3	447.2	383.7	326.1	283.2	254.6	235.6	219.6	214.1	213.6
45°	599.2	554.2	469.2	396.7	333.2	286.6	256.7	238.1	223.1	216.1	215.1
47.5°	628.8	581.8	490.7	408.2	338.7	288.7	258.1	240.1	225.2	217.1	216.1
50°	658.3	606.3	508.7	417.7	341.7	289.6	258.6	240.6	226.6	217.1	216.1
52.5°	684.9	629.3	524.3	424.2	343.2	289.1	258.1	240.6	227.1	216.1	215.1
55°	706.9	647.8	535.2	428.2	343.2	287.7	256.7	239.6	226.6	215.1	213.6
57.5°	723.3	660.3	542.8	429.2	340.6	284.6	254.1	238.1	225.2	213.1	211.1
60°	733.4	667.3	545.2	426.7	336.7	281.1	251.1	236.1	223.6	210.1	208.6
62.5°	736.3	668.3	542.8	421.7	331.1	276.1	246.6	232.6	220.7	206.6	205.1
65°	731.3	662.8	535.7	413.7	323.7	270.2	242.1	228.6	217.1	202.5	201.1
67.5°	717.8	650.8	523.2	402.7	315.2	263.1	237.1	224.1	213.1	198.0	195.1
70°	697.9	632.8	507.3	389.1	305.1	255.6	231.1	218.6	207.6	193.1	190.1
72.5°	668.8	608.2	486.2	372.7	293.6	247.7	223.6	212.1	201.6	187.1	183.1
75°	633.8	576.7	461.2	355.7	281.6	238.1	216.1	205.1	194.6	180.0	176.6
77.5°	594.7	543.8	434.2	336.1	267.6	228.6	208.1	197.6	186.6	172.6	167.6
80°	552.3	505.2	404.7	316.2	254.6	218.1	199.1	189.0	178.1	164.6	159.1
82.5°	506.3	465.2	375.2	296.1	240.1	207.6	190.1	180.0	168.6	155.6	150.1
85°	461.2	424.2	344.1	274.7	226.1	196.6	180.0	170.1	159.6	146.1	141.1
87.5°	414.7	382.7	313.6	253.6	212.1	186.1	170.6	160.1	149.0	136.6	132.6
90°	374.2	343.6	285.1	233.6	197.6	174.6	160.6	149.6	139.0	127.1	123.6
92.5°	331.1	306.2	257.1	214.6	184.1	163.6	150.6	140.0	128.6	117.0	114.6
95°	294.1	273.6	231.6	195.6	169.6	153.0	140.6	129.6	118.0	107.0	105.6
97.5°	258.6	241.6	206.6	178.1	157.0	142.1	130.0	119.6	107.5	97.6	96.6
100°	227.1	212.1	184.1	162.0	143.5	131.6	120.6	109.6	97.6	88.1	88.1
102.5°	198.0	186.6	164.1	145.6	131.6	120.1	110.1	99.0	87.1	79.1	79.6
105°	174.6	163.6	145.1	131.0	119.6	109.0	99.5	88.6	77.0	70.5	71.0
107.5°	152.1	143.5	128.6	116.5	107.5	99.0	89.0	78.6	67.0	63.0	63.5
110°	132.6	126.0	114.1	104.0	97.1	89.0	80.0	69.0	58.5	56.1	56.1



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	115.6	110.1	101.1	93.1	86.0	79.6	70.1	60.0	50.0	49.0	49.0
115°	101.1	97.1	88.6	82.0	77.0	70.5	62.0	51.6	43.5	43.1	43.5
117.5°	88.6	85.0	78.1	72.5	68.0	62.0	54.0	44.0	37.0	37.5	38.1
120°	77.5	75.1	69.0	64.5	60.0	54.5	46.0	37.0	32.5	33.0	33.0
122.5°	68.5	66.0	61.1	56.6	52.5	47.1	39.5	31.0	28.0	29.1	29.1
125°	59.5	58.0	53.0	49.0	45.0	39.5	32.5	25.5	24.0	25.1	25.1
127.5°	51.6	50.5	46.5	42.0	38.1	33.0	26.5	21.0	20.5	21.5	21.5
130°	44.5	43.5	40.0	36.0	31.5	27.0	20.5	17.0	17.5	18.5	19.0
132.5°	38.1	37.5	34.1	29.6	25.5	21.0	16.0	14.0	15.0	16.0	16.0
135°	31.5	31.0	28.5	24.6	20.0	16.0	12.0	11.0	12.5	13.5	13.5
137.5°	26.0	25.1	23.0	19.0	15.0	11.5	8.5	9.0	10.0	11.0	11.0
140°	20.5	20.0	18.0	14.5	10.5	7.5	6.0	7.0	8.5	9.0	9.0
142.5°	15.0	15.0	13.0	10.0	6.5	4.5	4.0	5.0	6.5	7.0	7.0
145°	10.5	10.5	9.0	6.5	4.0	2.0	2.0	3.5	4.5	5.0	5.5
147.5°	7.0	6.5	5.5	4.0	2.0	0.5	1.0	2.5	3.0	3.5	3.5
150°	4.0	4.0	3.0	2.0	1.0	0.0	0.5	1.0	1.5	2.0	2.5
152.5°	1.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.5	1.0	1.0
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.0	0.5	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)