

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: P240318

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
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-T2U-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3851.4 lumens
Efficiency: N/A
Efficacy: 96.3 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

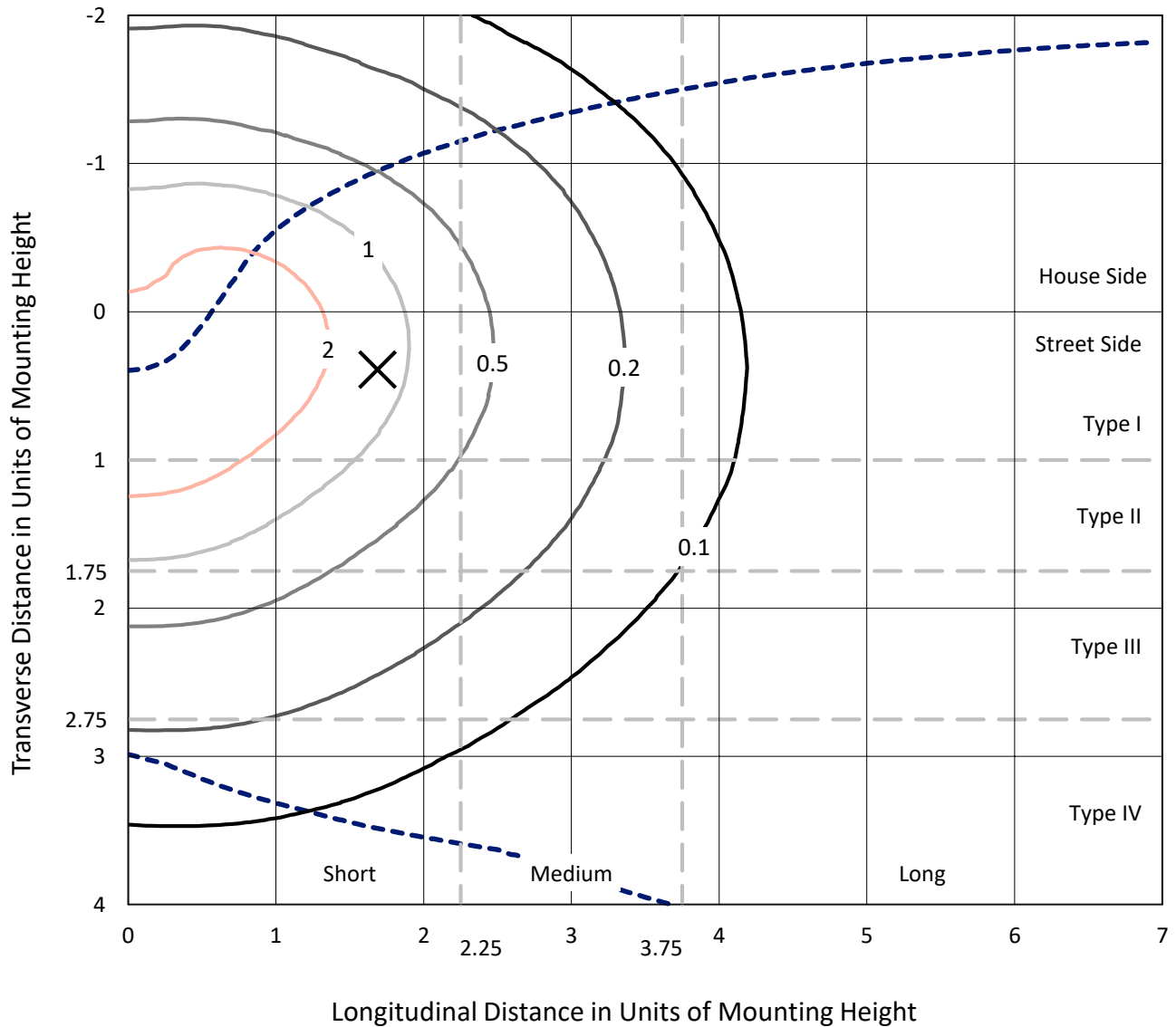
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

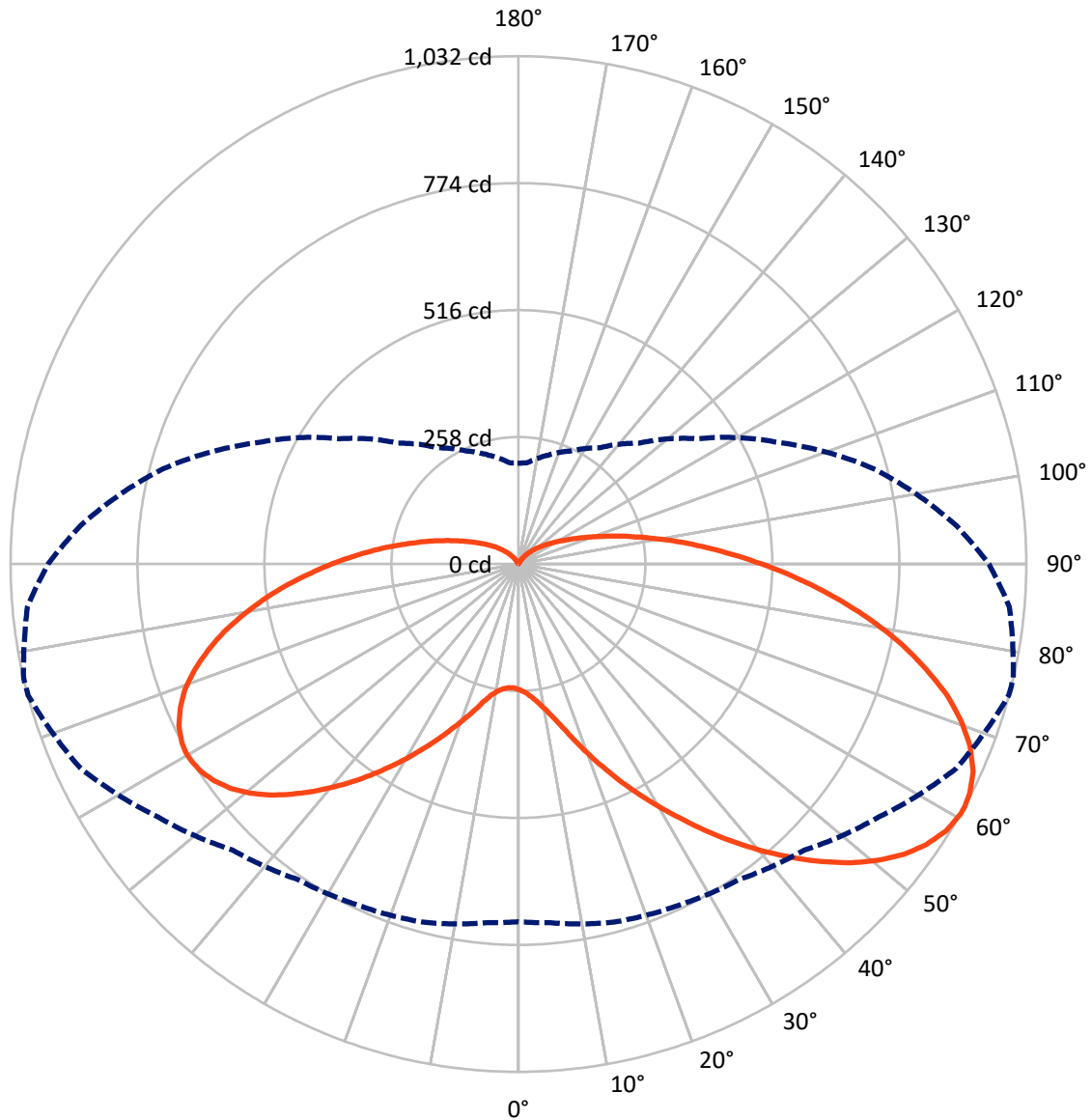


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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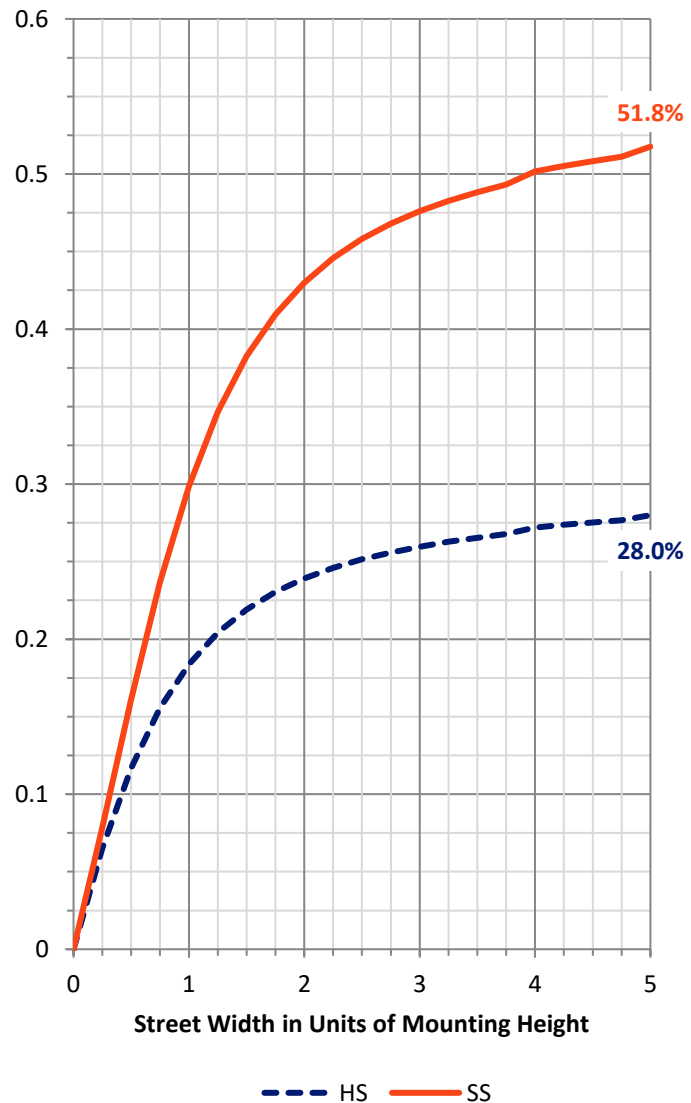
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.4	246.0	1391.3
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	2112.9	347.2	2460.1
	% Fixture	54.9	9.0	63.9
Total	Lumens	3258.2	593.2	3851.4
	% Fixture	84.6	15.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.7
10°-20°	89.7	2.3
20°-30°	192.2	5.0
30°-40°	331.3	8.6
40°-50°	481.0	12.5
50°-60°	591.9	15.4
60°-70°	613.3	15.9
70°-80°	534.8	13.9
80°-90°	398.6	10.3
90°-100°	263.5	6.8
100°-110°	160.8	4.2
110°-120°	92.1	2.4
120°-130°	48.7	1.3
130°-140°	21.5	0.6
140°-150°	6.0	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3258.2	84.6
0°-180°	3851.4	100.0



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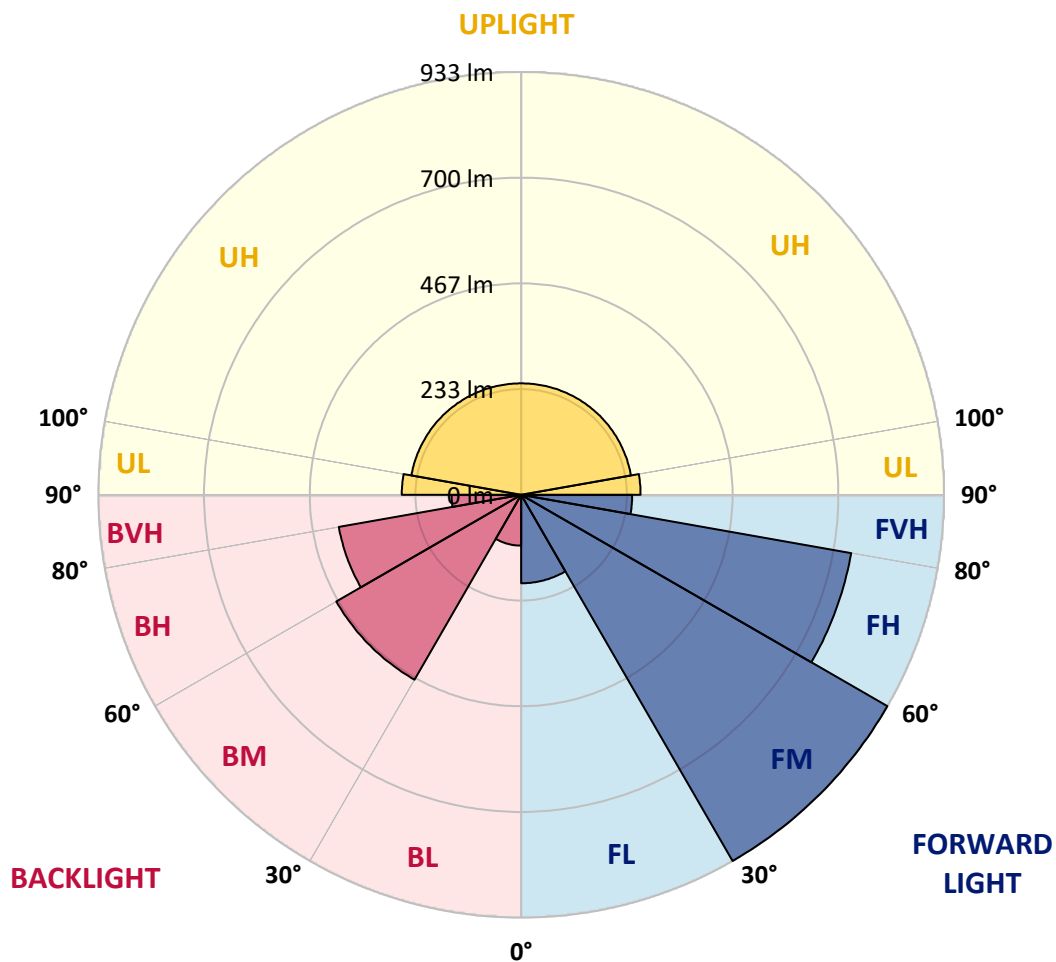
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-FP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.2	5.1			
FM (30°-60°)	933.1	24.2			
FH (60°-80°)	739.6	19.2			G1/1800
FVH (80°-90°)	245.0	6.4			G3/500
BL (0°-30°)	112.2	2.9	B1/500		
BM (30°-60°)	471.1	12.2	B1/1000		
BH (60°-80°)	408.5	10.6	B1/500		G1/500
BVH (80°-90°)	153.6	4.0			G2/225
UL (90°-100°)	263.5	6.8		U3/500	
UH (100°-180°)	246.0	6.4		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°	75°	77°	85°
0°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	277.6	277.6	276.6	276.1	274.2	271.6	269.1	265.7	262.2	261.2	259.1
5°	301.7	301.7	300.6	298.2	294.6	290.1	284.7	279.2	272.1	270.7	265.1
7.5°	328.7	327.7	325.2	322.6	317.6	311.2	303.6	295.1	285.6	283.7	275.7
10°	355.7	355.7	353.2	349.1	343.2	334.7	325.7	315.2	302.7	300.1	289.7
12.5°	386.7	385.7	381.7	378.7	371.7	362.2	352.2	339.2	324.2	321.7	308.1
15°	419.7	419.2	415.7	409.2	401.2	392.2	381.7	367.6	351.7	347.7	332.7
17.5°	456.7	453.8	451.7	444.8	436.2	424.7	416.8	402.2	384.7	380.2	361.7
20°	490.7	491.2	486.7	480.8	472.7	464.7	453.3	440.3	421.3	415.2	394.2
22.5°	529.3	529.3	524.8	518.7	510.8	506.8	493.8	480.3	457.3	452.8	429.2
25°	569.3	567.8	563.3	557.8	553.8	548.8	536.7	520.8	497.3	492.8	466.3
27.5°	606.3	606.8	601.3	596.8	596.3	589.8	579.8	562.8	540.3	533.8	505.2
30°	644.4	644.9	640.9	635.4	635.9	631.9	623.3	605.8	584.3	576.8	546.3
32.5°	682.3	681.4	675.9	675.4	673.8	670.9	664.3	653.4	629.8	621.9	590.3
35°	716.4	716.4	710.8	712.9	709.8	709.4	707.4	698.9	677.8	669.8	635.9
37.5°	747.9	747.4	744.4	744.9	742.9	742.4	745.9	744.9	725.4	718.8	683.8
40°	776.9	773.9	771.4	773.4	771.4	774.4	782.9	788.9	772.4	767.4	731.9
42.5°	796.9	796.0	794.9	798.4	795.4	802.4	815.9	830.4	820.4	815.4	779.9
45°	812.9	810.9	812.9	816.4	814.5	823.5	847.4	869.4	869.4	862.4	825.9
47.5°	819.4	819.0	823.9	827.0	825.9	840.5	872.5	905.9	913.0	907.5	870.4
50°	818.0	818.0	825.9	830.4	831.5	850.5	891.0	935.0	951.0	946.5	910.0
52.5°	808.4	808.4	820.4	825.9	829.9	854.0	903.5	959.5	983.1	980.5	944.0
55°	790.4	789.9	805.4	812.4	820.9	850.5	908.5	975.5	1008.0	1006.1	973.0
57.5°	762.4	763.4	782.5	793.4	804.4	839.4	905.9	983.5	1025.0	1024.1	991.5
60°	726.9	731.9	753.4	765.9	782.5	821.9	895.5	982.0	1031.5	1032.1	1001.6
61°	711.9	716.9	738.9	753.9	771.4	813.5	889.5	979.0	1031.0	1032.1	1002.5
62.5°	687.8	690.9	716.9	734.9	753.9	797.9	877.5	971.0	1027.6	1029.0	1001.1
65°	642.8	648.3	674.8	697.3	719.9	767.9	851.4	950.5	1013.0	1015.5	989.5
67.5°	593.3	599.9	630.3	656.3	682.3	733.4	819.4	921.0	987.0	990.0	967.5
70°	544.3	552.3	584.3	610.3	642.3	694.9	780.4	882.9	951.4	954.5	935.0
72.5°	494.3	503.3	536.2	566.3	598.8	652.3	736.9	837.9	906.9	910.9	892.9
75°	444.3	455.7	486.7	521.3	553.8	608.9	691.8	789.9	852.4	856.4	842.4
77.5°	399.3	409.2	439.8	475.8	511.3	563.7	642.8	732.8	797.9	799.9	787.4
80°	353.6	364.2	397.2	431.2	468.7	519.2	592.3	675.4	731.9	737.3	724.4
82.5°	313.1	323.7	354.7	391.7	427.7	476.3	540.7	616.3	666.4	672.4	663.4
85°	279.2	286.6	317.1	352.7	387.7	433.7	495.7	561.3	606.3	607.3	598.3
87.5°	245.1	253.2	282.1	316.7	352.2	394.2	447.2	503.8	540.3	543.8	534.8
90°	217.1	222.1	249.6	283.7	318.1	356.7	402.7	452.8	482.2	482.2	475.3
92.5°	192.6	195.1	222.6	255.1	288.2	321.2	361.7	400.2	425.8	425.2	417.3
95°	170.1	173.1	196.1	227.6	259.6	290.1	323.2	353.6	372.7	373.7	364.2
97.5°	150.1	152.1	173.6	204.6	233.1	261.7	289.2	313.6	326.2	326.6	319.7
100°	134.1	134.1	154.6	182.1	209.6	235.1	258.6	277.1	282.6	282.1	276.1
102.5°	120.1	119.1	136.6	163.1	188.6	210.6	229.7	241.6	246.1	244.6	240.6
105°	106.6	107.5	121.0	146.1	169.1	188.6	203.1	213.1	213.1	212.2	208.1
107.5°	96.6	96.1	106.6	129.6	151.6	168.6	180.1	185.1	183.6	182.1	179.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	86.5	86.5	94.5	116.1	135.0	150.6	158.6	161.6	157.1	156.6	156.1
112.5°	78.1	78.1	84.5	102.6	120.6	133.6	140.0	140.6	135.5	135.0	135.5
115°	71.5	71.5	75.1	91.0	107.5	119.1	124.6	122.0	117.0	116.5	118.0
117.5°	65.1	65.1	68.0	79.6	95.0	105.6	109.0	105.6	101.1	101.1	103.0
120°	59.5	59.5	60.6	69.6	83.6	92.6	95.0	91.0	87.6	87.6	89.5
122.5°	54.5	54.0	54.5	60.6	72.0	80.5	81.5	78.1	75.5	76.0	79.1
125°	49.5	49.5	49.0	52.5	62.0	69.0	70.1	66.1	66.1	66.1	68.5
127.5°	45.0	45.0	44.0	45.5	52.5	58.5	58.5	55.5	56.6	57.5	59.5
130°	41.0	41.0	40.0	40.0	43.5	48.5	48.5	46.5	49.0	49.5	51.6
132.5°	37.0	36.5	35.5	34.1	35.5	38.6	38.6	38.1	42.0	42.6	44.0
135°	33.0	32.5	31.5	29.1	28.5	29.6	29.6	31.0	35.0	35.5	37.5
137.5°	28.5	28.5	27.0	24.6	21.5	21.5	21.5	24.6	28.5	29.6	30.5
140°	24.6	24.6	23.0	20.0	16.0	14.5	15.0	19.0	23.0	23.5	24.6
142.5°	20.0	20.0	18.5	15.5	11.5	8.5	9.5	13.5	17.0	18.0	19.0
145°	15.5	15.5	14.0	11.0	7.0	4.5	5.5	9.5	12.0	12.5	13.5
147.5°	11.5	11.5	10.0	7.5	4.0	1.5	3.0	5.5	8.0	8.5	9.5
150°	7.5	7.5	6.5	4.0	2.0	0.0	1.0	3.0	4.5	5.0	5.5
152.5°	4.0	4.0	3.0	2.0	0.5	0.0	0.0	1.0	2.0	2.0	2.5
155°	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.0
157.5°	0.5	0.5	0.5	0.0	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°	0.5	0.5	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°	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
2.5°	257.2	255.1	251.1	248.2	244.6	241.6	239.2	237.1	236.6	235.1	235.6
5°	261.7	258.1	250.6	244.1	237.1	231.1	226.1	222.6	220.1	219.1	218.1
7.5°	270.2	264.1	253.2	242.6	232.6	223.6	215.6	210.6	206.6	204.6	204.6
10°	282.1	274.7	259.1	245.1	231.1	219.1	209.1	201.1	196.1	193.6	194.1
12.5°	298.7	288.7	269.6	250.6	233.6	218.1	204.6	196.1	190.1	187.1	187.1
15°	322.1	311.2	285.6	261.2	238.1	219.1	204.6	195.1	190.6	188.6	188.1
17.5°	350.7	336.1	307.2	277.6	248.7	225.2	210.6	201.6	195.1	192.6	192.1
20°	379.7	363.1	329.2	296.1	263.6	238.1	220.7	208.6	200.1	196.6	196.1
22.5°	412.8	393.7	353.6	314.7	279.7	255.1	230.6	215.1	205.1	200.6	200.1
25°	446.7	425.8	380.7	336.7	301.2	271.6	243.2	221.6	209.6	204.1	203.6
27.5°	482.7	460.2	408.7	358.6	321.7	287.1	254.6	227.6	213.6	207.6	207.1
30°	522.7	495.7	439.3	384.2	342.2	301.7	265.7	234.7	217.6	210.6	209.6
32.5°	564.3	534.3	470.3	411.2	361.2	314.7	274.7	242.1	221.6	213.6	213.1
35°	607.8	574.3	502.3	437.7	378.2	326.2	282.6	248.7	224.6	216.1	215.1
37.5°	653.4	616.3	535.8	462.8	394.7	336.1	289.2	254.1	227.6	217.6	216.7
40°	698.9	656.3	568.8	488.3	409.7	344.6	294.6	258.1	229.7	219.1	218.1
42.5°	742.9	699.4	602.3	511.8	422.7	351.2	298.7	261.7	231.6	220.1	218.6
45°	785.9	740.4	634.3	531.7	433.7	356.2	301.2	263.6	234.2	220.1	218.6
47.5°	828.9	778.9	665.8	549.3	441.7	359.7	302.2	264.6	235.6	219.6	218.1
50°	868.0	813.5	692.8	564.8	447.7	360.7	301.7	264.1	236.1	218.6	216.7
52.5°	900.0	843.9	715.3	575.8	451.2	360.2	300.1	263.1	235.6	216.7	215.1
55°	927.5	867.5	731.9	582.8	451.2	357.7	297.7	261.2	233.6	214.1	212.2
57.5°	945.5	885.0	742.9	585.8	449.3	353.2	293.2	257.7	231.6	210.6	208.6
60°	955.9	893.4	747.4	583.8	443.8	347.2	288.2	253.6	228.6	206.6	204.6
61°	957.0	894.5	747.4	581.8	441.2	344.6	286.1	252.2	227.1	205.1	202.6
62.5°	955.9	893.4	744.9	577.3	436.2	340.1	282.1	248.7	224.1	201.6	200.1
65°	946.0	883.9	734.9	565.8	425.2	331.1	275.2	243.2	219.1	196.6	194.1
67.5°	924.4	864.9	716.9	549.8	412.2	320.7	267.1	236.6	213.6	190.6	187.6
70°	893.4	837.0	694.4	531.3	397.7	309.1	258.1	229.1	206.6	184.6	180.6
72.5°	855.0	802.9	662.9	507.8	380.7	297.2	248.7	221.2	199.1	177.6	172.6
75°	806.9	759.4	627.8	481.7	361.7	283.2	238.7	212.2	190.6	170.1	164.6
77.5°	753.9	711.4	589.8	453.3	342.7	269.6	227.6	202.1	181.6	161.6	156.1
80°	695.8	658.9	546.8	423.2	322.6	255.6	216.7	192.6	172.6	153.0	146.6
82.5°	636.4	603.3	503.8	392.7	301.2	241.1	204.6	182.1	162.5	144.0	137.1
85°	575.8	547.3	460.2	361.2	279.7	226.6	193.6	171.5	152.1	134.6	128.6
87.5°	515.8	491.2	415.7	331.1	260.1	212.6	182.1	161.1	142.1	125.1	119.1
90°	459.7	438.7	374.7	303.2	240.6	198.1	170.6	150.6	132.1	115.1	111.1
92.5°	406.7	388.7	335.2	273.6	221.2	184.1	159.1	139.5	121.0	105.6	103.0
95°	358.6	341.7	299.1	247.7	203.1	171.5	148.1	129.6	111.1	96.6	94.5
97.5°	311.7	301.2	265.7	222.6	185.6	158.0	137.1	119.6	101.6	88.1	87.1
100°	272.6	261.7	233.1	199.6	169.6	146.1	126.5	109.6	92.6	80.0	79.6
102.5°	237.1	229.7	205.6	180.1	154.1	133.1	116.1	100.0	83.6	72.5	72.5
105°	207.1	200.1	182.1	160.1	139.1	122.0	105.6	90.0	74.6	65.1	65.6
107.5°	178.6	174.1	159.1	141.6	125.1	110.6	95.5	80.5	65.6	58.0	58.5



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CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-FP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	155.6	151.1	139.5	126.5	112.5	100.0	86.0	71.5	57.1	52.5	52.5
112.5°	135.0	132.1	122.5	112.0	101.1	90.0	77.5	63.0	50.0	46.5	47.1
115°	118.0	115.6	107.5	99.5	90.5	81.0	69.0	55.0	43.5	42.0	42.0
117.5°	102.6	101.1	94.5	87.6	80.5	72.0	61.1	47.6	37.5	37.5	37.5
120°	89.5	88.1	83.1	77.0	71.0	63.5	52.5	40.5	33.0	33.0	33.6
122.5°	78.6	77.5	72.5	68.0	62.5	55.0	45.0	34.1	29.1	29.6	29.6
125°	68.5	67.5	64.0	59.0	54.0	47.1	38.1	28.0	25.1	26.0	26.0
127.5°	59.5	59.0	55.5	51.0	46.0	40.0	31.0	23.5	22.0	23.0	23.0
130°	52.1	51.6	48.0	43.5	39.0	32.5	25.1	19.5	19.0	20.0	20.0
132.5°	44.5	44.0	41.0	36.5	32.0	26.0	19.5	15.5	16.5	17.5	17.5
135°	37.5	37.0	35.0	30.0	26.0	20.6	15.0	13.0	14.0	15.0	15.0
137.5°	31.0	30.5	28.5	24.0	19.5	15.0	11.0	10.5	11.5	12.5	12.5
140°	25.1	24.6	22.5	18.5	14.0	10.5	7.5	8.5	9.5	10.5	10.5
142.5°	19.0	19.0	17.5	14.0	9.5	6.5	5.0	6.5	7.5	8.5	8.5
145°	14.0	14.0	12.0	9.5	5.5	3.5	3.0	4.5	6.0	6.5	6.5
147.5°	9.5	9.5	8.0	6.0	3.0	1.5	2.0	3.0	4.0	4.5	5.0
150°	5.5	5.5	4.5	3.0	1.5	0.5	0.5	2.0	2.5	3.0	3.0
152.5°	2.5	2.5	2.0	1.0	0.5	0.5	0.5	0.5	1.5	1.5	1.5
155°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.5
157.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	0.5	0.5	0.5	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)