

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: P240309

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240309
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3641.6 lumens
Efficiency: N/A
Efficacy: 91.0 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



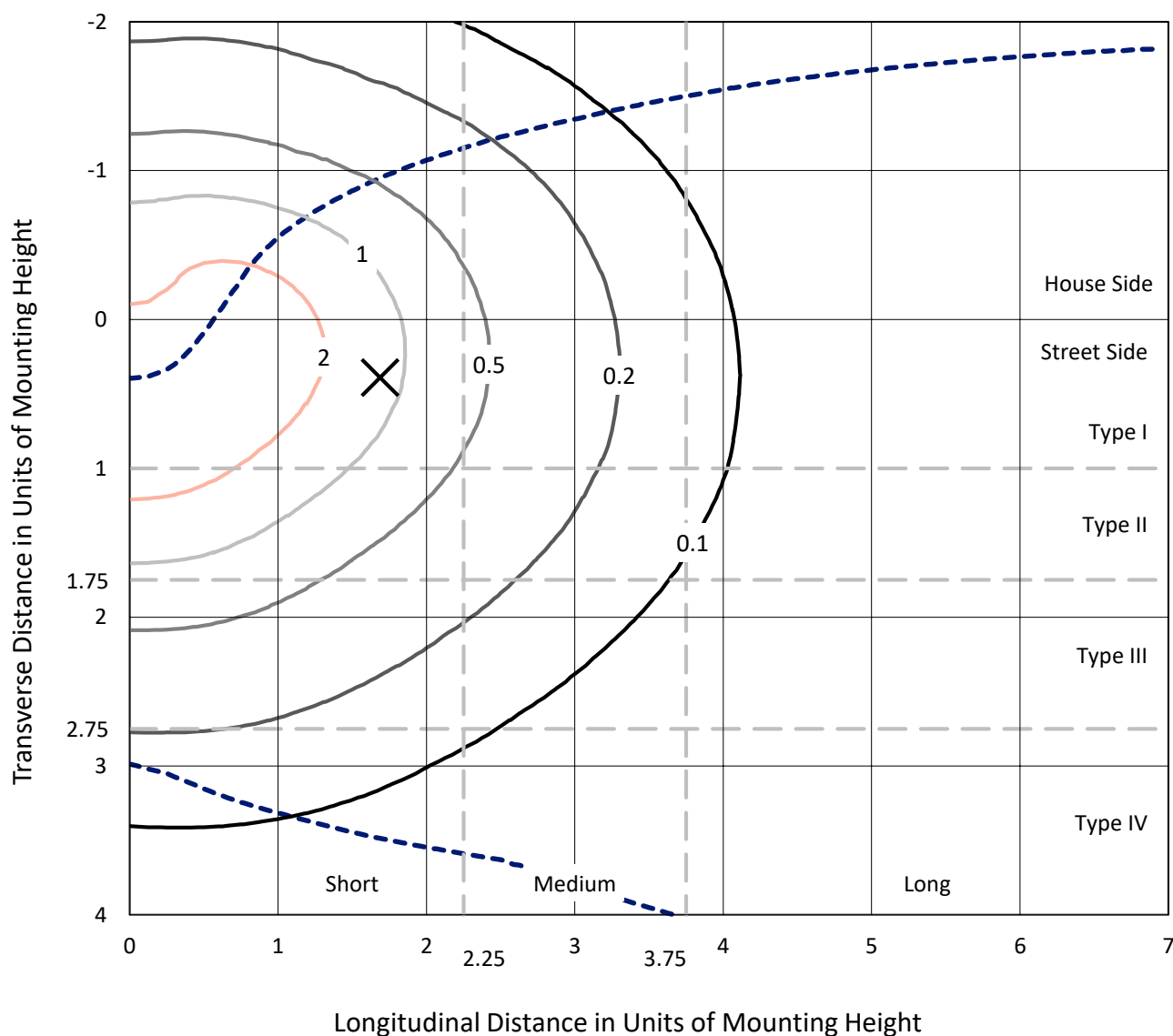
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

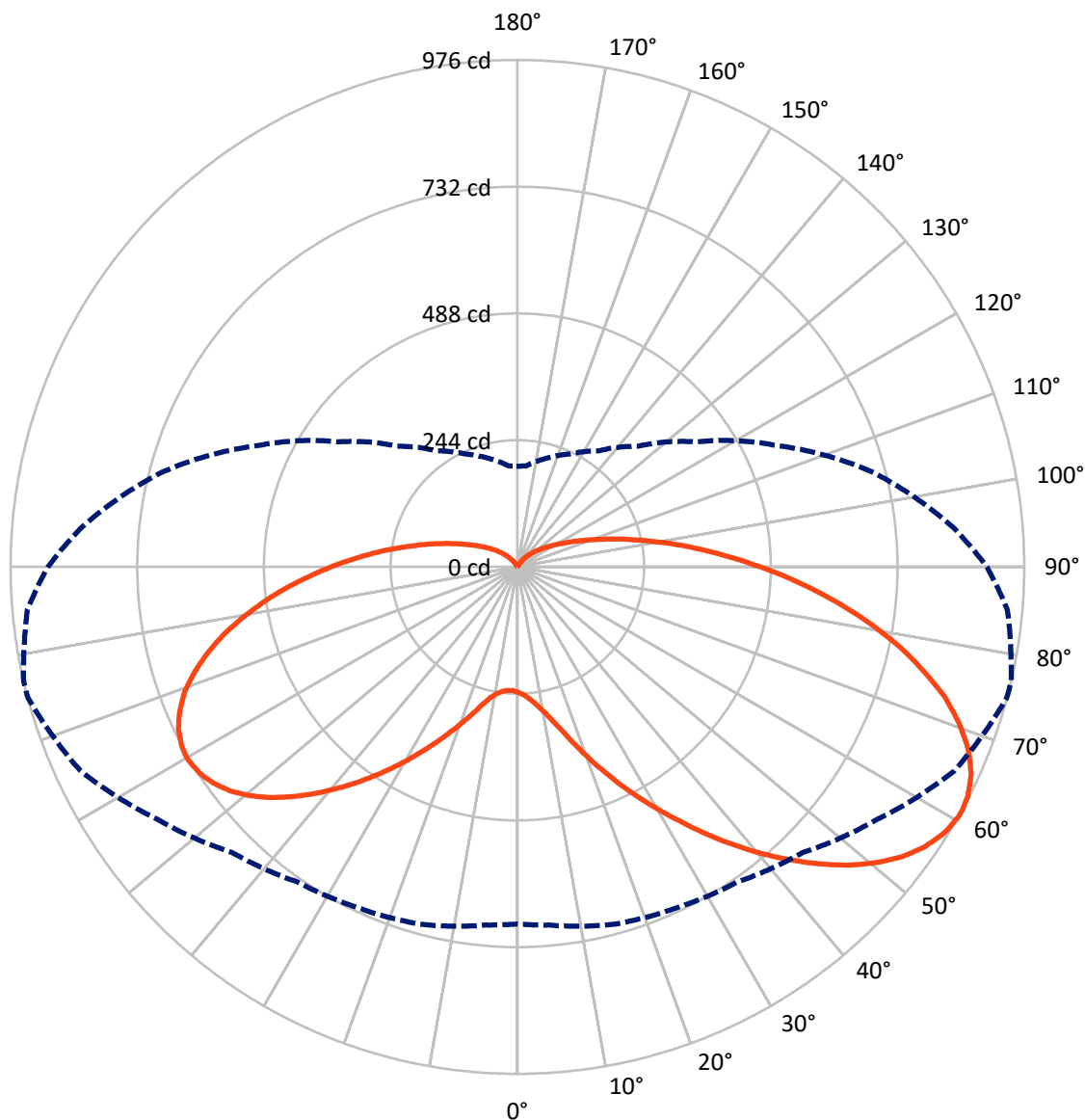


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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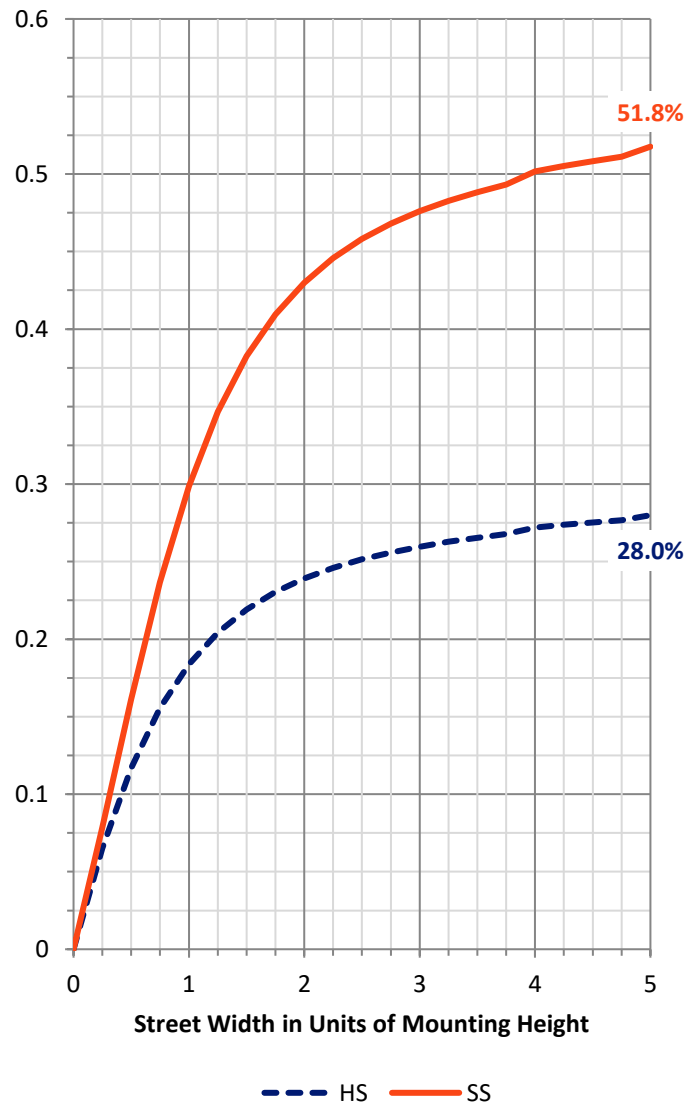
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1083.0	232.6	1315.6
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	1997.8	328.3	2326.0
	% Fixture	54.9	9.0	63.9
Total	Lumens	3080.7	560.9	3641.6
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.7
10°-20°	84.8	2.3
20°-30°	181.7	5.0
30°-40°	313.3	8.6
40°-50°	454.8	12.5
50°-60°	559.7	15.4
60°-70°	579.9	15.9
70°-80°	505.6	13.9
80°-90°	376.9	10.3
90°-100°	249.2	6.8
100°-110°	152.1	4.2
110°-120°	87.1	2.4
120°-130°	46.1	1.3
130°-140°	20.4	0.6
140°-150°	5.7	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3080.7	84.6
0°-180°	3641.6	100.0

Coefficient of Utilization



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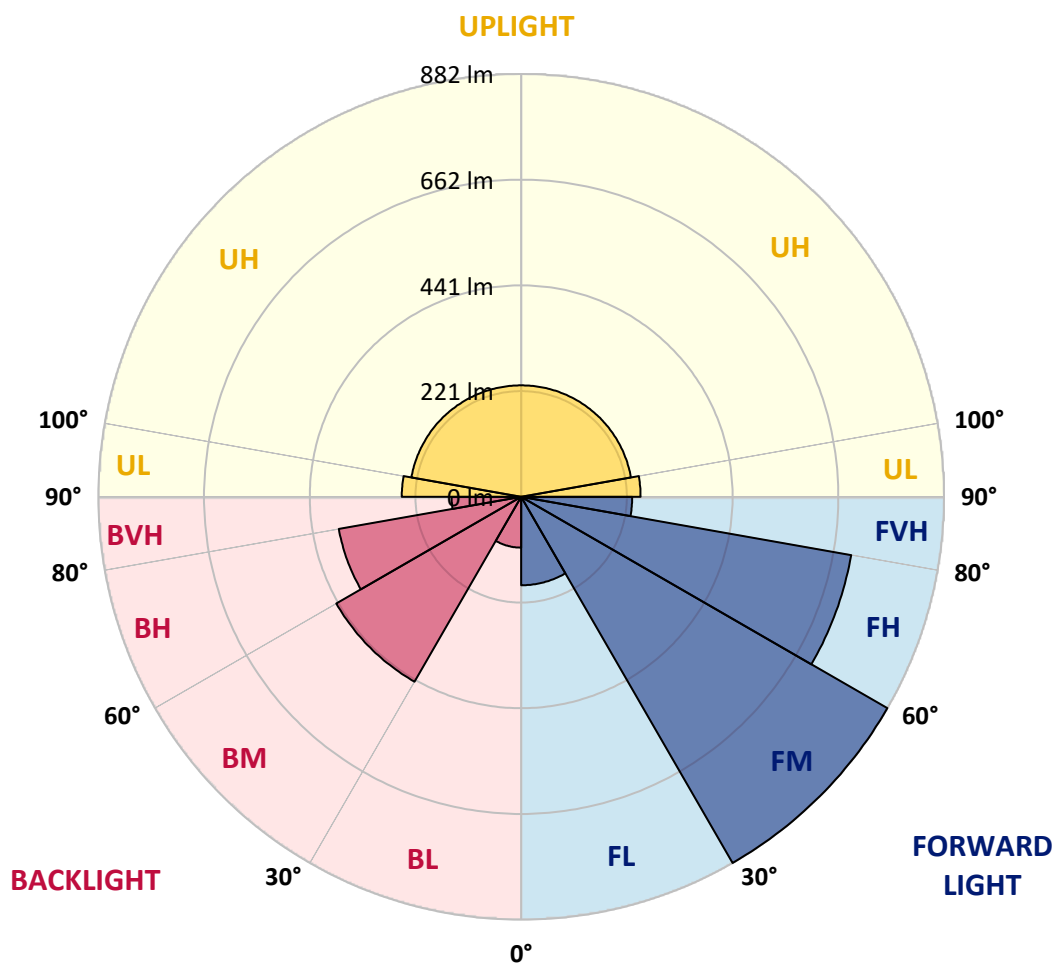
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.5	5.1			
FM	(30°-60°)	882.3	24.2			
FH	(60°-80°)	699.3	19.2			G1/1800
FVH	(80°-90°)	231.7	6.4			G3/500
BL	(0°-30°)	106.1	2.9	B0/110		
BM	(30°-60°)	445.4	12.2	B1/1000		
BH	(60°-80°)	386.3	10.6	B1/500		G1/500
BVH	(80°-90°)	145.2	4.0			G2/225
UL	(90°-100°)	249.2	6.8		U3/500	
UH	(100°-180°)	232.6	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°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7
2.5°	262.6	262.6	261.5	261.1	259.2	256.9	254.5	251.2	247.9	246.9	245.1
5°	285.2	285.2	284.3	281.9	278.6	274.3	269.1	264.0	257.3	255.8	250.6
7.5°	310.8	309.9	307.4	305.1	300.4	294.2	287.2	279.0	270.1	268.2	260.6
10°	336.3	336.3	333.9	330.2	324.5	316.5	307.9	297.9	286.2	283.8	273.9
12.5°	365.6	364.7	360.9	358.1	351.5	342.4	333.0	320.6	306.5	304.2	291.4
15°	396.8	396.4	393.2	386.9	379.3	370.8	360.9	347.7	332.4	328.8	314.5
17.5°	431.9	429.1	427.1	420.5	412.5	401.6	394.0	380.3	363.8	359.5	342.0
20°	464.1	464.5	460.2	454.5	447.0	439.4	428.6	416.3	398.2	392.6	372.7
22.5°	500.4	500.4	496.1	490.5	482.9	479.2	466.9	454.1	432.3	428.1	405.8
25°	538.3	536.9	532.6	527.4	523.6	518.9	507.5	492.4	470.2	465.9	440.9
27.5°	573.3	573.7	568.5	564.4	563.8	557.7	548.3	532.1	510.9	504.7	477.8
30°	609.2	609.6	606.0	600.7	601.2	597.4	589.4	572.8	552.6	545.4	516.6
32.5°	645.1	644.2	639.0	638.5	637.1	634.4	628.1	617.8	595.6	588.0	558.1
35°	677.3	677.3	672.2	674.0	671.2	670.8	668.8	660.8	641.0	633.3	601.2
37.5°	707.1	706.7	703.8	704.2	702.4	702.0	705.3	704.2	685.8	679.7	646.6
40°	734.6	731.7	729.5	731.3	729.5	732.2	740.2	745.9	730.3	725.6	692.0
42.5°	753.5	752.6	751.6	754.9	752.0	758.7	771.5	785.2	775.7	771.1	737.4
45°	768.6	766.8	768.6	771.9	770.1	778.6	801.3	822.0	822.0	815.5	780.9
47.5°	774.7	774.3	779.0	781.9	780.9	794.7	824.9	856.6	863.2	858.0	823.0
50°	773.3	773.3	780.9	785.2	786.1	804.1	842.4	884.0	899.2	895.0	860.4
52.5°	764.4	764.4	775.7	780.9	784.7	807.4	854.3	907.2	929.5	927.1	892.5
55°	747.4	746.9	761.5	768.2	776.2	804.1	859.0	922.3	953.1	951.2	920.0
57.5°	720.9	721.7	739.8	750.2	760.6	793.7	856.6	929.9	969.2	968.2	937.6
60°	687.2	692.0	712.4	724.2	739.8	777.2	846.6	928.4	975.3	975.8	947.0
61°	673.1	677.9	698.6	712.8	729.5	769.0	841.0	925.7	974.9	975.8	948.0
62.5°	650.4	653.3	677.9	694.9	712.8	754.4	829.6	918.1	971.6	973.0	946.5
65°	607.8	613.1	638.1	659.4	680.6	726.0	805.0	898.7	957.8	960.2	935.6
67.5°	560.9	567.2	596.0	620.6	645.1	693.5	774.7	870.8	933.3	936.2	914.8
70°	514.6	522.1	552.6	577.1	607.4	656.9	737.9	834.8	899.6	902.5	884.0
72.5°	467.3	475.9	507.1	535.5	566.2	616.8	696.7	792.2	857.5	861.4	844.3
75°	420.0	430.9	460.2	492.9	523.6	575.7	654.1	746.9	806.0	809.8	796.5
77.5°	377.5	386.9	415.7	449.8	483.4	533.0	607.8	692.9	754.4	756.3	744.5
80°	334.5	344.3	375.6	407.7	443.1	491.0	560.1	638.5	692.0	697.2	684.9
82.5°	296.1	306.0	335.3	370.4	404.4	450.2	511.4	582.8	630.1	635.7	627.2
85°	264.0	271.1	299.9	333.5	366.6	410.0	468.7	530.7	573.3	574.2	565.8
87.5°	231.7	239.4	266.8	299.4	333.0	372.7	422.9	476.4	510.9	514.2	505.7
90°	205.3	210.0	236.0	268.2	300.8	337.3	380.8	428.1	455.9	455.9	449.4
92.5°	182.1	184.4	210.6	241.3	272.5	303.6	342.0	378.4	402.5	402.1	394.5
95°	160.8	163.7	185.4	215.2	245.5	274.3	305.6	334.5	352.4	353.4	344.3
97.5°	141.9	143.7	164.1	193.5	220.3	247.4	273.3	296.5	308.4	308.8	302.2
100°	126.7	126.7	146.2	172.2	198.2	222.4	244.5	262.0	267.2	266.8	261.1
102.5°	113.5	112.5	129.2	154.2	178.3	199.2	217.1	228.5	232.7	231.3	227.5
105°	100.7	101.7	114.5	138.1	159.8	178.3	192.1	201.5	201.5	200.6	196.7
107.5°	91.3	90.8	100.7	122.5	143.3	159.4	170.3	175.1	173.6	172.2	169.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	81.8	81.8	89.4	109.7	127.8	142.4	149.9	152.8	148.5	148.0	147.6
112.5°	73.8	73.8	80.0	96.9	113.9	126.3	132.4	133.0	128.2	127.8	128.2
115°	67.6	67.6	70.9	86.1	101.7	112.5	117.8	115.4	110.7	110.3	111.7
117.5°	61.5	61.5	64.4	75.2	89.9	99.8	103.1	99.8	95.6	95.6	97.5
120°	56.3	56.3	57.3	65.8	79.0	87.5	89.9	86.1	82.8	82.8	84.6
122.5°	51.6	51.2	51.6	57.3	68.1	76.2	77.1	73.8	71.4	71.9	74.8
125°	46.9	46.9	46.3	49.7	58.7	65.2	66.2	62.4	62.4	62.4	64.8
127.5°	42.6	42.6	41.6	43.0	49.7	55.4	55.4	52.6	53.4	54.4	56.3
130°	38.8	38.8	37.8	37.8	41.2	45.9	45.9	44.0	46.3	46.9	48.7
132.5°	35.0	34.5	33.6	32.1	33.6	36.4	36.4	35.9	39.8	40.2	41.6
135°	31.2	30.7	29.8	27.5	27.0	27.9	27.9	29.3	33.1	33.6	35.5
137.5°	27.0	27.0	25.5	23.2	20.3	20.3	20.3	23.2	27.0	27.9	28.9
140°	23.2	23.2	21.8	18.9	15.2	13.7	14.2	18.0	21.8	22.2	23.2
142.5°	18.9	18.9	17.5	14.6	10.9	8.0	9.0	12.8	16.1	17.1	18.0
145°	14.6	14.6	13.2	10.4	6.7	4.3	5.3	9.0	11.4	11.8	12.8
147.5°	10.9	10.9	9.5	7.1	3.9	1.4	2.8	5.3	7.5	8.0	9.0
150°	7.1	7.1	6.1	3.9	1.8	0.0	1.0	2.8	4.3	4.7	5.3
152.5°	3.9	3.9	2.8	1.8	0.4	0.0	0.0	1.0	1.8	1.8	2.4
155°	1.8	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4	1.0
157.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	0.4	0.4	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°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7
2.5°	243.1	241.3	237.4	234.6	231.3	228.5	226.0	224.2	223.8	222.4	222.8
5°	247.4	244.0	237.0	230.9	224.2	218.5	213.8	210.6	208.1	207.1	206.3
7.5°	255.4	249.7	239.4	229.5	219.9	211.4	203.9	199.2	195.3	193.5	193.5
10°	266.8	259.7	245.1	231.7	218.5	207.1	197.8	190.1	185.4	183.0	183.5
12.5°	282.4	272.9	254.9	237.0	220.9	206.3	193.5	185.4	179.7	176.9	176.9
15°	304.7	294.2	270.1	246.9	225.2	207.1	193.5	184.4	180.2	178.3	177.9
17.5°	331.6	317.8	290.4	262.6	235.1	212.8	199.2	190.6	184.4	182.1	181.6
20°	359.0	343.4	311.3	280.0	249.3	225.2	208.5	197.2	189.2	185.8	185.4
22.5°	390.3	372.2	334.5	297.5	264.4	241.3	218.1	203.4	193.9	189.7	189.2
25°	422.4	402.5	360.0	318.4	284.7	256.9	229.9	209.6	198.2	193.0	192.6
27.5°	456.4	435.2	386.4	339.1	304.2	271.5	240.8	215.2	202.0	196.3	195.8
30°	494.3	468.7	415.3	363.3	323.5	285.2	251.2	221.8	205.7	199.2	198.2
32.5°	533.5	505.3	444.5	388.9	341.6	297.5	259.7	228.9	209.6	202.0	201.5
35°	574.7	543.0	474.9	413.9	357.6	308.4	267.2	235.1	212.4	204.4	203.4
37.5°	617.8	582.8	506.6	437.6	373.2	317.8	273.3	240.3	215.2	205.7	204.9
40°	660.8	620.6	537.8	461.6	387.5	325.9	278.6	244.0	217.1	207.1	206.3
42.5°	702.4	661.2	569.5	483.9	399.7	332.0	282.4	247.4	218.9	208.1	206.7
45°	743.1	700.1	599.8	502.8	410.0	336.7	284.7	249.3	221.4	208.1	206.7
47.5°	783.8	736.5	629.6	519.4	417.7	340.2	285.7	250.2	222.8	207.7	206.3
50°	820.6	769.0	655.1	534.1	423.4	341.0	285.2	249.7	223.2	206.7	204.9
52.5°	850.9	797.9	676.5	544.4	426.6	340.6	283.8	248.8	222.8	204.9	203.4
55°	877.0	820.2	692.0	551.1	426.6	338.1	281.5	246.9	220.9	202.4	200.6
57.5°	894.0	836.7	702.4	554.0	424.8	333.9	277.2	243.6	218.9	199.2	197.2
60°	903.9	844.8	706.7	552.0	419.5	328.3	272.5	239.9	216.2	195.3	193.5
61°	904.8	845.7	706.7	550.1	417.2	325.9	270.5	238.4	214.7	193.9	191.5
62.5°	903.9	844.8	704.2	545.9	412.5	321.7	266.8	235.1	211.9	190.6	189.2
65°	894.5	835.9	694.9	535.0	402.1	313.1	260.1	229.9	207.1	185.8	183.5
67.5°	874.1	817.8	677.9	519.8	389.7	303.2	252.6	223.8	202.0	180.2	177.3
70°	844.8	791.4	656.5	502.4	376.1	292.3	244.0	216.7	195.3	174.5	170.8
72.5°	808.4	759.2	626.7	480.0	360.0	281.1	235.1	209.1	188.3	167.9	163.3
75°	762.9	718.1	593.6	455.5	342.0	267.6	225.6	200.6	180.2	160.8	155.5
77.5°	712.8	672.6	557.7	428.6	324.1	254.9	215.2	191.1	171.7	152.8	147.6
80°	658.0	623.0	517.1	400.2	305.1	241.7	204.9	182.1	163.3	144.8	138.5
82.5°	601.7	570.5	476.4	371.3	284.7	228.1	193.5	172.2	153.7	136.2	129.6
85°	544.4	517.5	435.2	341.6	264.4	214.2	183.0	162.2	143.7	127.3	121.6
87.5°	487.7	464.5	393.2	313.1	246.0	201.0	172.2	152.3	134.4	118.2	112.5
90°	434.8	414.8	354.3	286.7	227.5	187.3	161.2	142.4	124.9	108.8	105.0
92.5°	384.6	367.5	317.0	258.7	209.1	174.0	150.4	131.9	114.5	99.8	97.5
95°	339.1	323.1	282.9	234.2	192.1	162.2	140.0	122.5	105.0	91.3	89.4
97.5°	294.7	284.7	251.2	210.6	175.5	149.4	129.6	113.1	96.0	83.2	82.3
100°	257.8	247.4	220.3	188.7	160.4	138.1	119.6	103.6	87.5	75.7	75.2
102.5°	224.2	217.1	194.4	170.3	145.7	125.8	109.7	94.6	79.0	68.7	68.7
105°	195.8	189.2	172.2	151.4	131.5	115.4	99.8	85.1	70.5	61.5	62.0
107.5°	169.0	164.7	150.4	133.9	118.2	104.6	90.3	76.2	62.0	54.8	55.4



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CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	147.1	142.8	131.9	119.6	106.4	94.6	81.4	67.6	54.0	49.7	49.7
112.5°	127.8	124.9	116.0	106.0	95.6	85.1	73.3	59.5	47.3	44.0	44.5
115°	111.7	109.3	101.7	94.2	85.7	76.6	65.2	52.0	41.2	39.8	39.8
117.5°	96.9	95.6	89.4	82.8	76.2	68.1	57.7	44.9	35.5	35.5	35.5
120°	84.6	83.2	78.5	72.8	67.2	60.1	49.7	38.4	31.2	31.2	31.6
122.5°	74.3	73.3	68.7	64.4	59.1	52.0	42.6	32.1	27.5	27.9	27.9
125°	64.8	63.8	60.5	55.8	51.2	44.5	35.9	26.4	23.6	24.6	24.6
127.5°	56.3	55.8	52.6	48.3	43.4	37.8	29.3	22.2	20.8	21.8	21.8
130°	49.1	48.7	45.5	41.2	36.9	30.7	23.6	18.5	18.0	18.9	18.9
132.5°	42.1	41.6	38.8	34.5	30.3	24.6	18.5	14.6	15.7	16.6	16.6
135°	35.5	35.0	33.1	28.4	24.6	19.3	14.2	12.3	13.2	14.2	14.2
137.5°	29.3	28.9	27.0	22.7	18.5	14.2	10.4	10.0	10.9	11.8	11.8
140°	23.6	23.2	21.3	17.5	13.2	10.0	7.1	8.0	9.0	10.0	10.0
142.5°	18.0	18.0	16.6	13.2	9.0	6.1	4.7	6.1	7.1	8.0	8.0
145°	13.2	13.2	11.4	9.0	5.3	3.3	2.8	4.3	5.7	6.1	6.1
147.5°	9.0	9.0	7.5	5.7	2.8	1.4	1.8	2.8	3.9	4.3	4.7
150°	5.3	5.3	4.3	2.8	1.4	0.4	0.4	1.8	2.4	2.8	2.8
152.5°	2.4	2.4	1.8	1.0	0.4	0.4	0.4	0.4	1.4	1.4	1.4
155°	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.4
157.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.4	0.4	0.4	0.4	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)