

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: P266341

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266341
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 3271.3 lumens
Efficiency: N/A
Efficacy: 81.8 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 - G2

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



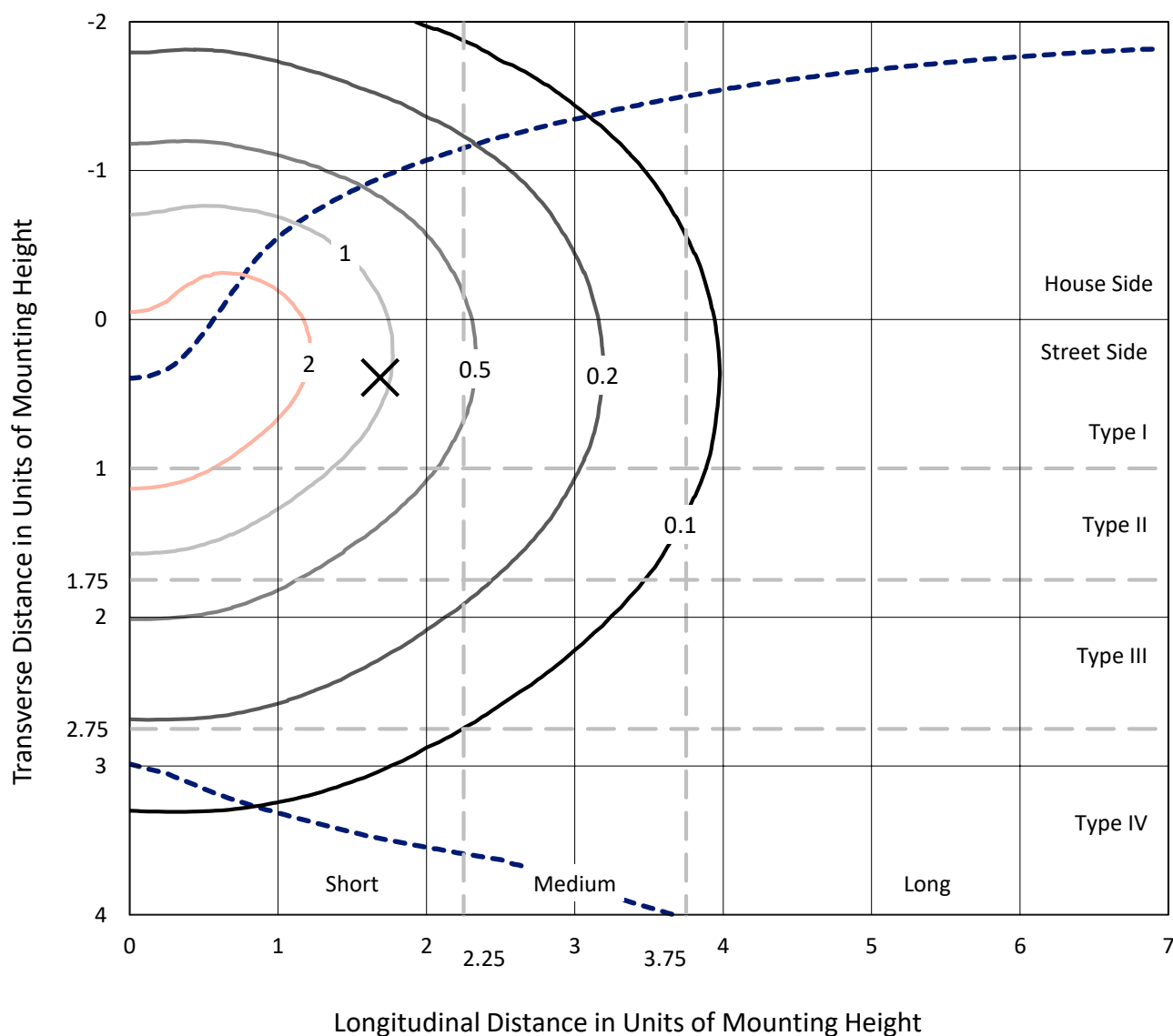
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

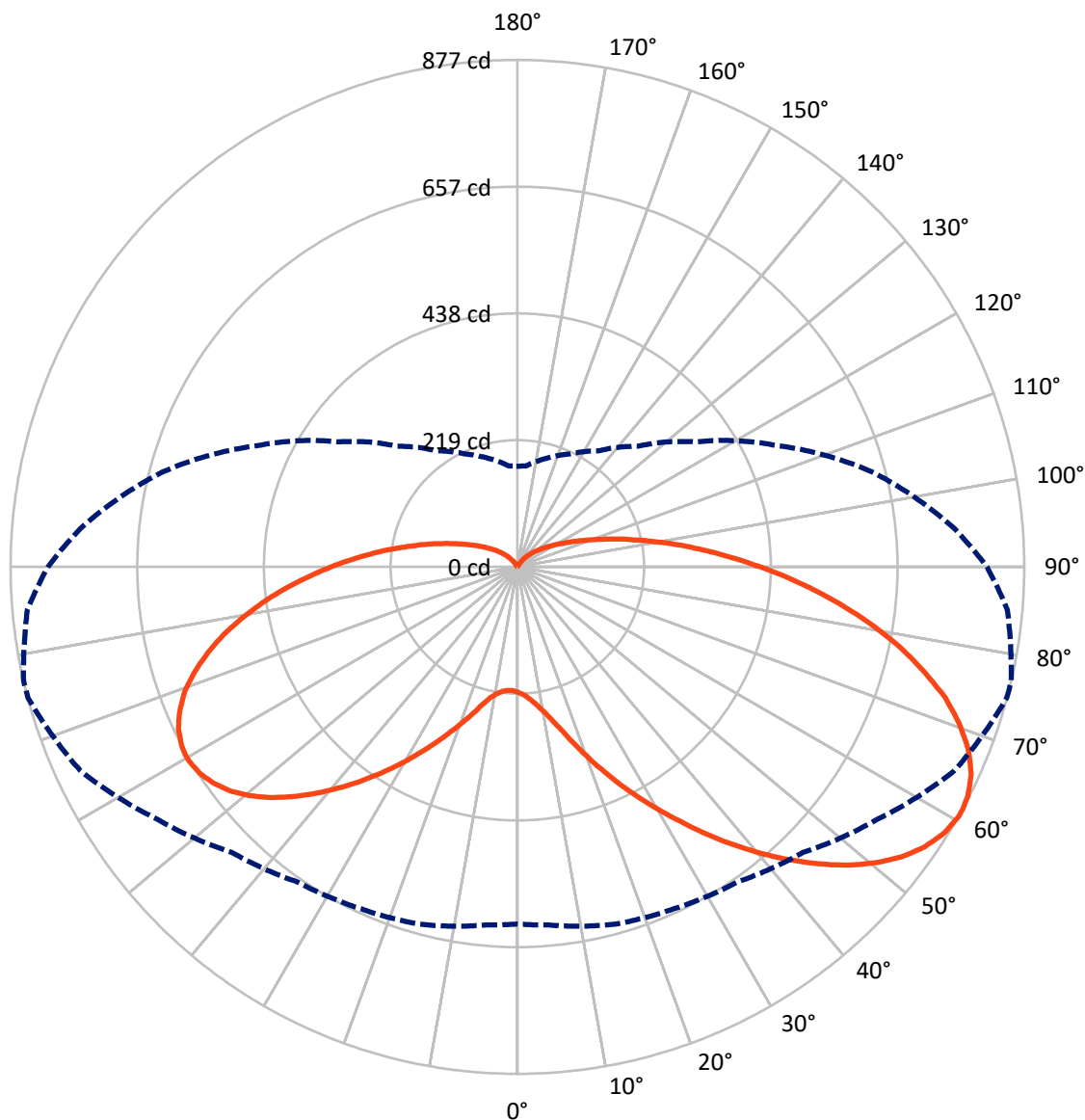


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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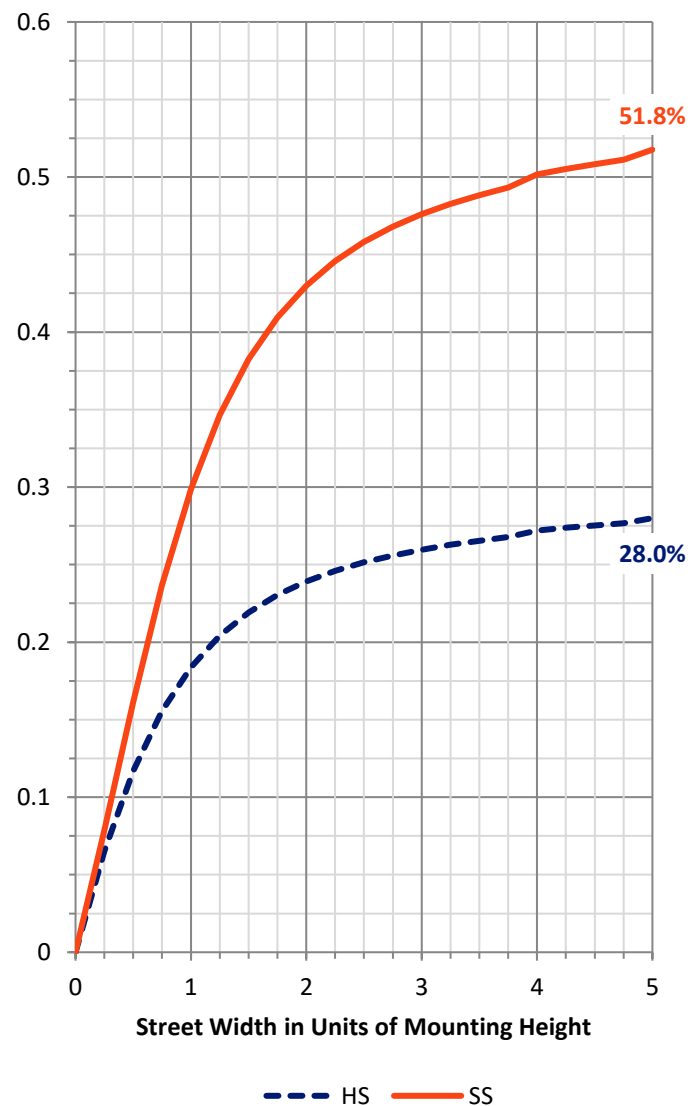
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	972.8	208.9	1181.8
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	1794.6	294.9	2089.5
	% Fixture	54.9	9.0	63.9
Total	Lumens	2767.4	503.9	3271.3
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.7
10°-20°	76.2	2.3
20°-30°	163.2	5.0
30°-40°	281.4	8.6
40°-50°	408.5	12.5
50°-60°	502.8	15.4
60°-70°	521.0	15.9
70°-80°	454.2	13.9
80°-90°	338.6	10.3
90°-100°	223.8	6.8
100°-110°	136.6	4.2
110°-120°	78.2	2.4
120°-130°	41.4	1.3
130°-140°	18.3	0.6
140°-150°	5.1	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2767.4	84.6
0°-180°	3271.3	100.0

Coefficient of Utilization



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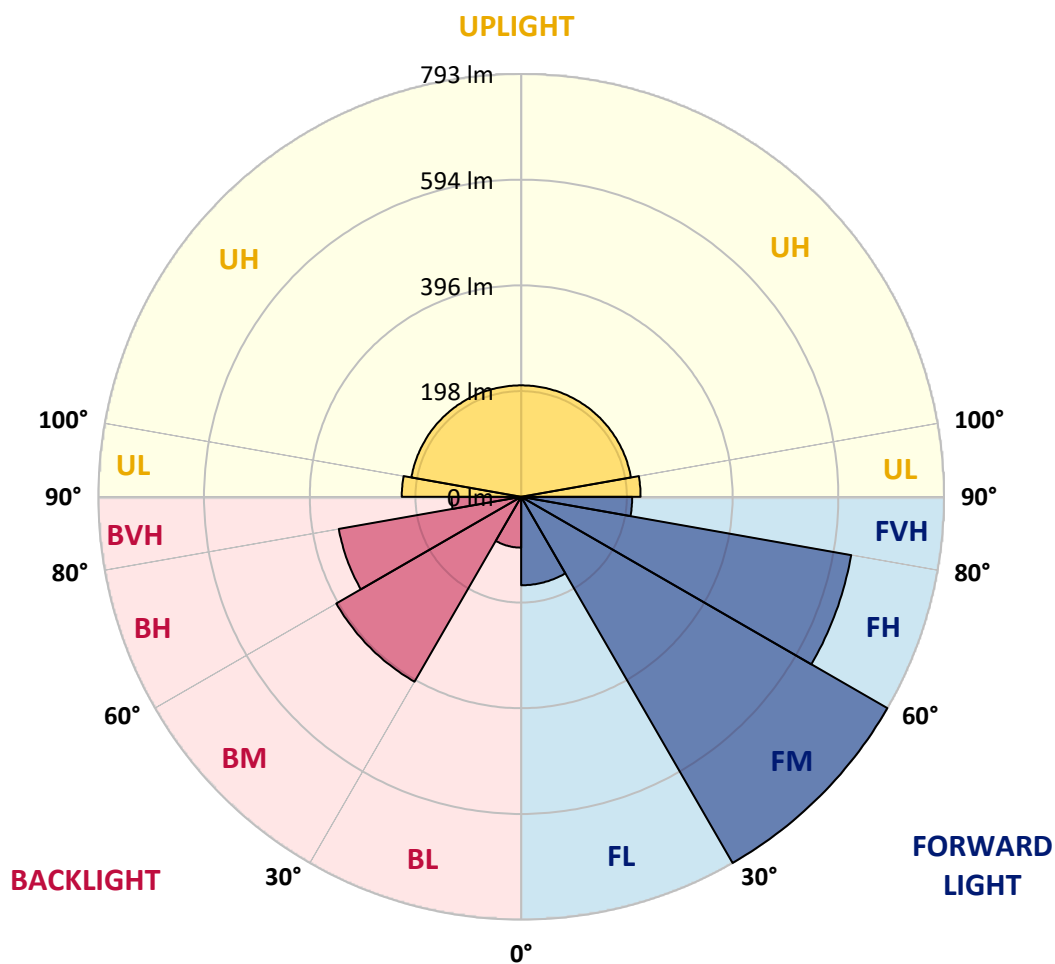
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.8	5.1			
FM	(30°-60°)	792.6	24.2			
FH	(60°-80°)	628.2	19.2			G0/660
FVH	(80°-90°)	208.1	6.4			G2/225
BL	(0°-30°)	95.3	2.9	B0/110		
BM	(30°-60°)	400.1	12.2	B1/1000		
BH	(60°-80°)	347.0	10.6	B1/500		G1/500
BVH	(80°-90°)	130.5	4.0			G2/225
UL	(90°-100°)	223.8	6.8		U3/500	
UH	(100°-180°)	208.9	6.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1
2.5°	235.9	235.9	234.9	234.5	232.8	230.8	228.6	225.7	222.7	221.8	220.2
5°	256.2	256.2	255.4	253.2	250.3	246.4	241.7	237.2	231.1	229.8	225.1
7.5°	279.2	278.4	276.1	274.1	269.9	264.3	258.0	250.6	242.6	240.9	234.1
10°	302.1	302.1	299.9	296.6	291.5	284.3	276.6	267.6	257.1	254.9	246.0
12.5°	328.4	327.6	324.2	321.7	315.8	307.6	299.1	288.0	275.3	273.3	261.8
15°	356.4	356.1	353.2	347.6	340.7	333.1	324.2	312.3	298.6	295.4	282.5
17.5°	388.0	385.5	383.7	377.7	370.6	360.8	353.9	341.6	326.8	322.9	307.2
20°	416.9	417.3	413.4	408.3	401.5	394.7	385.0	374.0	357.7	352.7	334.8
22.5°	449.5	449.5	445.6	440.6	433.8	430.5	419.4	407.9	388.3	384.6	364.5
25°	483.6	482.3	478.4	473.8	470.4	466.1	455.9	442.3	422.4	418.5	396.1
27.5°	515.0	515.4	510.7	507.0	506.5	501.0	492.5	478.0	458.9	453.4	429.2
30°	547.2	547.6	544.4	539.6	540.1	536.6	529.5	514.5	496.4	489.9	464.1
32.5°	579.5	578.7	574.0	573.6	572.3	569.9	564.2	555.0	535.0	528.2	501.3
35°	608.4	608.4	603.8	605.5	602.9	602.6	600.8	593.6	575.8	568.9	540.1
37.5°	635.2	634.8	632.2	632.6	631.0	630.6	633.6	632.6	616.1	610.6	580.8
40°	659.9	657.3	655.3	656.9	655.3	657.7	664.9	670.0	656.0	651.8	621.6
42.5°	676.9	676.1	675.2	678.1	675.5	681.5	693.0	705.3	696.8	692.7	662.4
45°	690.4	688.8	690.4	693.4	691.8	699.4	719.8	738.4	738.4	732.6	701.5
47.5°	695.9	695.6	699.8	702.4	701.5	713.9	741.0	769.5	775.4	770.7	739.3
50°	694.7	694.7	701.5	705.3	706.2	722.3	756.7	794.1	807.8	804.0	772.9
52.5°	686.7	686.7	696.8	701.5	704.9	725.3	767.4	814.9	835.0	832.8	801.7
55°	671.4	670.9	684.1	690.1	697.3	722.3	771.6	828.5	856.2	854.5	826.4
57.5°	647.6	648.3	664.6	673.9	683.3	713.0	769.5	835.3	870.6	869.7	842.3
60°	617.3	621.6	640.0	650.6	664.6	698.2	760.5	834.0	876.1	876.6	850.7
61°	604.6	609.0	627.6	640.3	655.3	690.8	755.5	831.6	875.8	876.6	851.6
62.5°	584.3	586.9	609.0	624.2	640.3	677.7	745.2	824.7	872.8	874.1	850.2
65°	546.0	550.8	573.2	592.3	611.4	652.2	723.1	807.3	860.4	862.6	840.5
67.5°	503.9	509.5	535.4	557.5	579.5	623.0	695.9	782.2	838.4	841.0	821.8
70°	462.3	469.0	496.4	518.4	545.6	590.1	662.9	749.9	808.1	810.7	794.1
72.5°	419.8	427.5	455.5	481.0	508.6	554.1	625.8	711.6	770.3	773.8	758.4
75°	377.3	387.1	413.4	442.8	470.4	517.2	587.6	670.9	724.0	727.4	715.5
77.5°	339.1	347.6	373.4	404.1	434.2	478.8	546.0	622.4	677.7	679.4	668.8
80°	300.5	309.3	337.4	366.2	398.0	441.1	503.1	573.6	621.6	626.3	615.2
82.5°	266.0	274.9	301.2	332.7	363.3	404.4	459.4	523.5	566.0	571.1	563.4
85°	237.2	243.5	269.4	299.6	329.3	368.3	421.0	476.7	515.0	515.8	508.3
87.5°	208.1	215.1	239.7	269.0	299.1	334.8	379.9	428.0	458.9	461.9	454.3
90°	184.4	188.6	212.0	240.9	270.2	303.0	342.1	384.6	409.5	409.5	403.7
92.5°	163.6	165.6	189.2	216.8	244.8	272.7	307.2	339.9	361.6	361.2	354.4
95°	144.4	147.1	166.5	193.3	220.5	246.4	274.5	300.5	316.6	317.5	309.3
97.5°	127.5	129.1	147.4	173.8	197.9	222.2	245.5	266.3	277.0	277.4	271.5
100°	113.8	113.8	131.3	154.7	178.0	199.8	219.6	235.4	240.0	239.7	234.5
102.5°	102.0	101.1	116.1	138.5	160.2	178.9	195.0	205.3	209.0	207.8	204.4
105°	90.5	91.4	102.9	124.1	143.5	160.2	172.6	181.0	181.0	180.2	176.7
107.5°	82.0	81.6	90.5	110.0	128.7	143.2	153.0	157.3	155.9	154.7	152.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	73.5	73.5	80.3	98.5	114.8	127.9	134.7	137.3	133.4	132.9	132.6
112.5°	66.3	66.3	71.9	87.0	102.3	113.5	118.9	119.5	115.2	114.8	115.2
115°	60.7	60.7	63.7	77.3	91.4	101.1	105.8	103.7	99.4	99.1	100.3
117.5°	55.2	55.2	57.9	67.6	80.8	89.7	92.6	89.7	85.9	85.9	87.6
120°	50.6	50.6	51.5	59.1	71.0	78.6	80.8	77.3	74.4	74.4	76.0
122.5°	46.4	46.0	46.4	51.5	61.2	68.5	69.3	66.3	64.1	64.6	67.2
125°	42.1	42.1	41.6	44.6	52.7	58.6	59.5	56.1	56.1	56.1	58.2
127.5°	38.3	38.3	37.4	38.6	44.6	49.8	49.8	47.3	48.0	48.9	50.6
130°	34.9	34.9	34.0	34.0	37.0	41.2	41.2	39.5	41.6	42.1	43.7
132.5°	31.4	31.0	30.2	28.8	30.2	32.7	32.7	32.2	35.8	36.1	37.4
135°	28.0	27.6	26.8	24.7	24.3	25.1	25.1	26.3	29.7	30.2	31.9
137.5°	24.3	24.3	22.9	20.8	18.2	18.2	18.2	20.8	24.3	25.1	26.0
140°	20.8	20.8	19.6	17.0	13.7	12.3	12.8	16.2	19.6	19.9	20.8
142.5°	17.0	17.0	15.7	13.1	9.8	7.2	8.1	11.5	14.5	15.4	16.2
145°	13.1	13.1	11.9	9.3	6.0	3.9	4.8	8.1	10.2	10.6	11.5
147.5°	9.8	9.8	8.5	6.4	3.5	1.3	2.5	4.8	6.7	7.2	8.1
150°	6.4	6.4	5.5	3.5	1.6	0.0	0.9	2.5	3.9	4.2	4.8
152.5°	3.5	3.5	2.5	1.6	0.4	0.0	0.0	0.9	1.6	1.6	2.2
155°	1.6	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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°	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1	217.1
2.5°	218.4	216.8	213.3	210.7	207.8	205.3	203.0	201.4	201.0	199.8	200.1
5°	222.2	219.2	212.9	207.4	201.4	196.3	192.1	189.2	186.9	186.0	185.3
7.5°	229.4	224.3	215.1	206.2	197.5	189.9	183.2	178.9	175.4	173.8	173.8
10°	239.7	233.3	220.2	208.1	196.3	186.0	177.7	170.8	166.5	164.4	164.8
12.5°	253.7	245.1	229.0	212.9	198.4	185.3	173.8	166.5	161.4	158.9	158.9
15°	273.7	264.3	242.6	221.8	202.3	186.0	173.8	165.6	161.9	160.2	159.8
17.5°	297.9	285.5	260.9	235.9	211.2	191.2	178.9	171.2	165.6	163.6	163.1
20°	322.5	308.5	279.6	251.5	223.9	202.3	187.3	177.1	170.0	166.9	166.5
22.5°	350.6	334.3	300.5	267.2	237.5	216.8	195.9	182.7	174.2	170.4	170.0
25°	379.4	361.6	323.4	286.0	255.7	230.8	206.5	188.3	178.0	173.4	173.0
27.5°	410.0	390.9	347.1	304.6	273.3	243.9	216.3	193.3	181.5	176.3	175.9
30°	444.0	421.0	373.1	326.4	290.6	256.2	225.7	199.2	184.8	178.9	178.0
32.5°	479.2	453.9	399.3	349.4	306.9	267.2	233.3	205.6	188.3	181.5	181.0
35°	516.3	487.8	426.6	371.8	321.2	277.0	240.0	211.2	190.8	183.6	182.7
37.5°	555.0	523.5	455.1	393.1	335.2	285.5	245.5	215.9	193.3	184.8	184.1
40°	593.6	557.5	483.1	414.7	348.1	292.8	250.3	219.2	195.0	186.0	185.3
42.5°	631.0	594.0	511.6	434.7	359.1	298.2	253.7	222.2	196.6	186.9	185.7
45°	667.5	628.9	538.8	451.7	368.3	302.5	255.7	223.9	198.9	186.9	185.7
47.5°	704.1	661.6	565.6	466.6	375.2	305.6	256.6	224.8	200.1	186.6	185.3
50°	737.1	690.8	588.5	479.8	380.3	306.3	256.2	224.3	200.5	185.7	184.1
52.5°	764.4	716.8	607.7	489.0	383.2	306.0	254.9	223.5	200.1	184.1	182.7
55°	787.8	736.8	621.6	495.1	383.2	303.7	252.9	221.8	198.4	181.8	180.2
57.5°	803.1	751.6	631.0	497.7	381.6	299.9	249.0	218.8	196.6	178.9	177.1
60°	812.0	758.9	634.8	495.9	376.8	294.9	244.8	215.5	194.2	175.4	173.8
61°	812.8	759.7	634.8	494.2	374.8	292.8	243.0	214.2	192.9	174.2	172.0
62.5°	812.0	758.9	632.6	490.4	370.6	289.0	239.7	211.2	190.4	171.2	170.0
65°	803.5	750.9	624.2	480.6	361.2	281.3	233.6	206.5	186.0	166.9	164.8
67.5°	785.2	734.6	609.0	466.9	350.1	272.4	226.9	201.0	181.5	161.9	159.3
70°	758.9	710.9	589.7	451.3	337.9	262.6	219.2	194.7	175.4	156.8	153.4
72.5°	726.2	682.0	563.0	431.2	323.4	252.5	211.2	187.8	169.2	150.8	146.7
75°	685.3	645.1	533.2	409.2	307.2	240.4	202.7	180.2	161.9	144.4	139.7
77.5°	640.3	604.2	501.0	385.0	291.1	229.0	193.3	171.7	154.2	137.3	132.6
80°	591.1	559.6	464.5	359.5	274.1	217.1	184.1	163.6	146.7	130.1	124.4
82.5°	540.5	512.5	428.0	333.5	255.7	204.9	173.8	154.7	138.1	122.3	116.4
85°	489.0	464.9	390.9	306.9	237.5	192.4	164.4	145.7	129.1	114.4	109.2
87.5°	438.1	417.3	353.2	281.3	221.0	180.6	154.7	136.8	120.7	106.2	101.1
90°	390.6	372.6	318.3	257.5	204.4	168.3	144.8	127.9	112.2	97.7	94.3
92.5°	345.5	330.1	284.8	232.4	187.8	156.3	135.1	118.5	102.9	89.7	87.6
95°	304.6	290.2	254.1	210.4	172.6	145.7	125.8	110.0	94.3	82.0	80.3
97.5°	264.7	255.7	225.7	189.2	157.7	134.2	116.4	101.6	86.2	74.7	73.9
100°	231.6	222.2	197.9	169.5	144.1	124.1	107.4	93.1	78.6	68.0	67.6
102.5°	201.4	195.0	174.6	153.0	130.9	113.0	98.5	85.0	71.0	61.7	61.7
105°	175.9	170.0	154.7	136.0	118.1	103.7	89.7	76.4	63.3	55.2	55.7
107.5°	151.8	148.0	135.1	120.3	106.2	94.0	81.1	68.5	55.7	49.2	49.8



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CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	132.1	128.3	118.5	107.4	95.6	85.0	73.1	60.7	48.5	44.6	44.6
112.5°	114.8	112.2	104.2	95.2	85.9	76.4	65.8	53.4	42.5	39.5	40.0
115°	100.3	98.2	91.4	84.6	77.0	68.8	58.6	46.7	37.0	35.8	35.8
117.5°	87.0	85.9	80.3	74.4	68.5	61.2	51.8	40.3	31.9	31.9	31.9
120°	76.0	74.7	70.5	65.4	60.4	54.0	44.6	34.5	28.0	28.0	28.4
122.5°	66.7	65.8	61.7	57.9	53.1	46.7	38.3	28.8	24.7	25.1	25.1
125°	58.2	57.3	54.3	50.1	46.0	40.0	32.2	23.7	21.2	22.1	22.1
127.5°	50.6	50.1	47.3	43.4	39.0	34.0	26.3	19.9	18.7	19.6	19.6
130°	44.1	43.7	40.9	37.0	33.1	27.6	21.2	16.6	16.2	17.0	17.0
132.5°	37.8	37.4	34.9	31.0	27.2	22.1	16.6	13.1	14.1	14.9	14.9
135°	31.9	31.4	29.7	25.5	22.1	17.3	12.8	11.0	11.9	12.8	12.8
137.5°	26.3	26.0	24.3	20.4	16.6	12.8	9.3	9.0	9.8	10.6	10.6
140°	21.2	20.8	19.1	15.7	11.9	9.0	6.4	7.2	8.1	9.0	9.0
142.5°	16.2	16.2	14.9	11.9	8.1	5.5	4.2	5.5	6.4	7.2	7.2
145°	11.9	11.9	10.2	8.1	4.8	3.0	2.5	3.9	5.1	5.5	5.5
147.5°	8.1	8.1	6.7	5.1	2.5	1.3	1.6	2.5	3.5	3.9	4.2
150°	4.8	4.8	3.9	2.5	1.3	0.4	0.4	1.6	2.2	2.5	2.5
152.5°	2.2	2.2	1.6	0.9	0.4	0.4	0.4	0.4	1.3	1.3	1.3
155°	0.9	0.9	0.9	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)