

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: P240308

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240308
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-AF24-30-D-U-T2U-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 2801.4 lumens
Efficiency: N/A
Efficacy: 90.4 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): 31
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



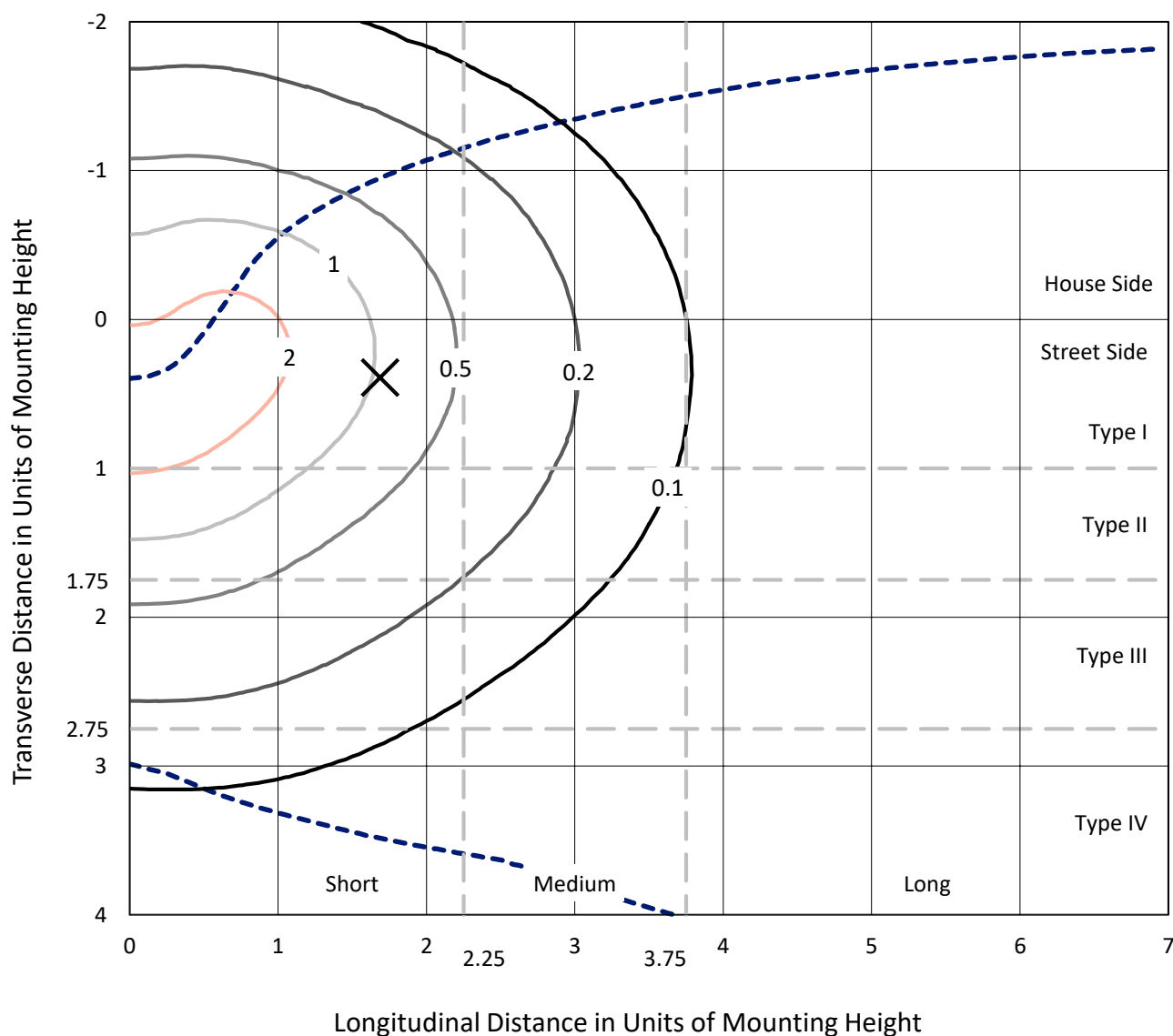
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

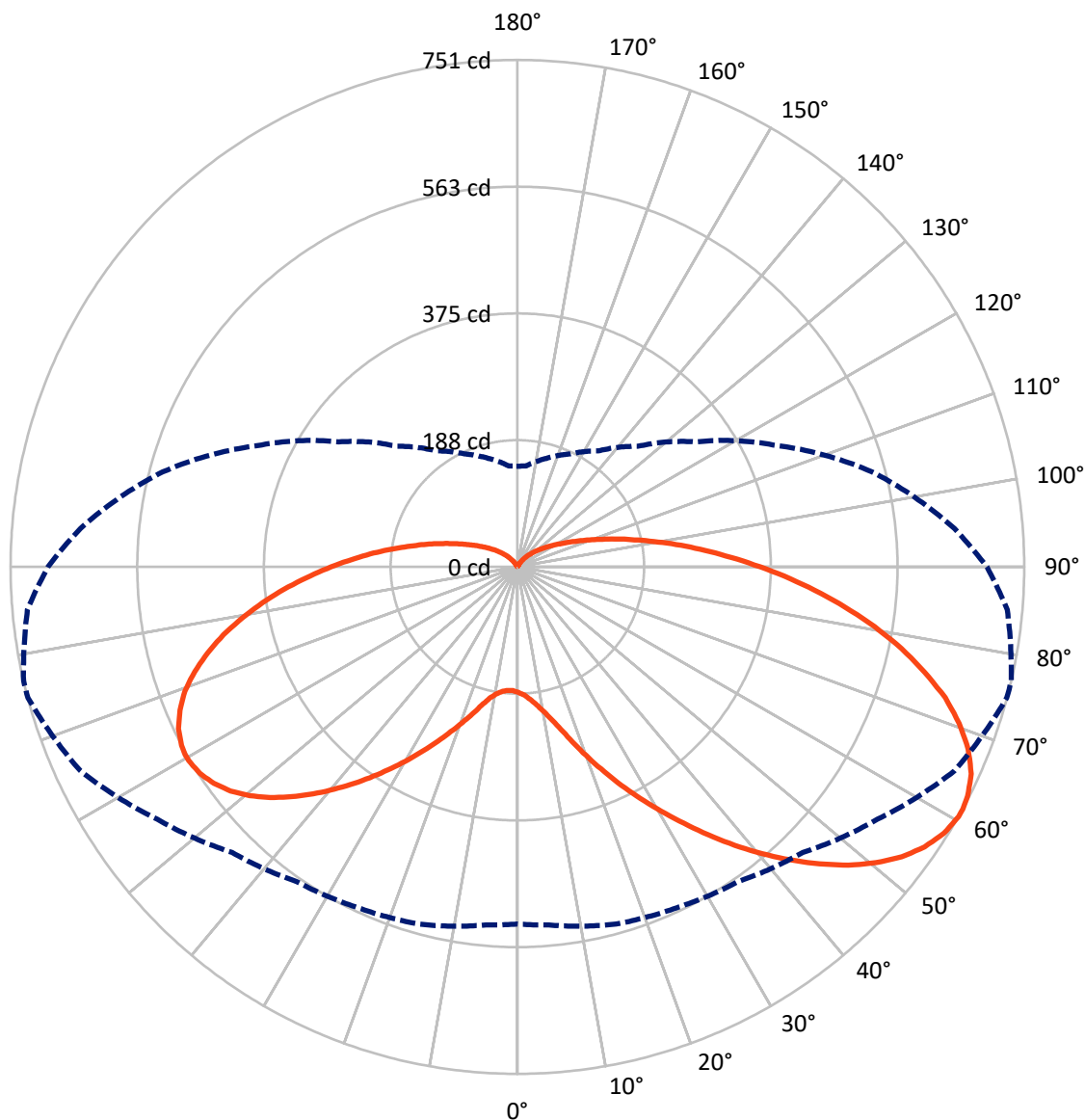


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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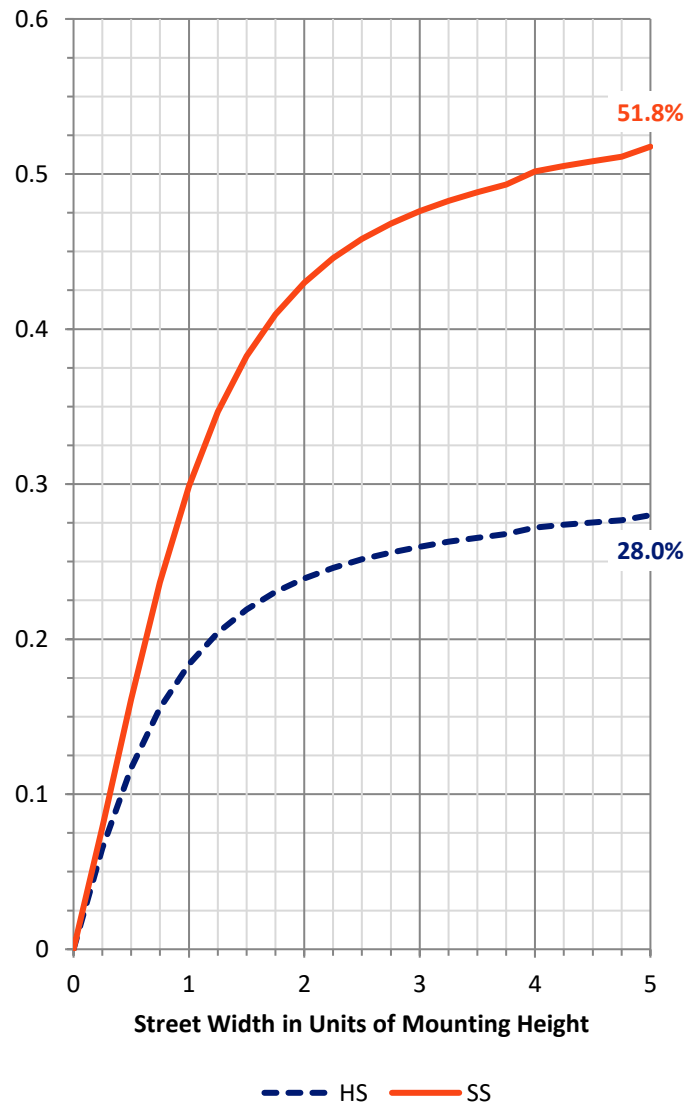
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.1	178.9	1012.0
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	1536.8	252.5	1789.4
	% Fixture	54.9	9.0	63.9
Total	Lumens	2369.9	431.5	2801.4
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.7
10°-20°	65.2	2.3
20°-30°	139.8	5.0
30°-40°	241.0	8.6
40°-50°	349.9	12.5
50°-60°	430.5	15.4
60°-70°	446.1	15.9
70°-80°	389.0	13.9
80°-90°	289.9	10.3
90°-100°	191.7	6.8
100°-110°	117.0	4.2
110°-120°	67.0	2.4
120°-130°	35.4	1.3
130°-140°	15.7	0.6
140°-150°	4.4	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2369.9	84.6
0°-180°	2801.4	100.0

Coefficient of Utilization



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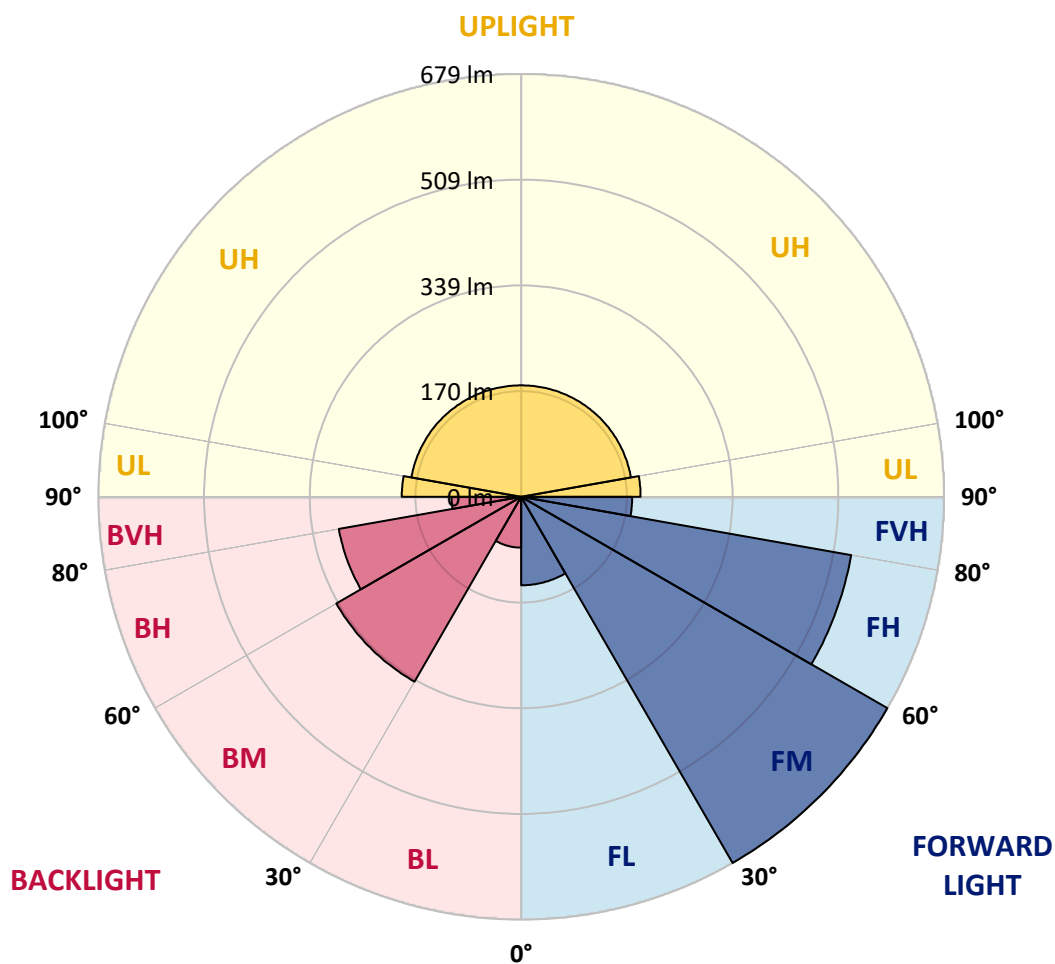
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.9	5.1			
FM	(30°-60°)	678.7	24.2			
FH	(60°-80°)	537.9	19.2			G0/660
FVH	(80°-90°)	178.2	6.4			G2/225
BL	(0°-30°)	81.6	2.9	B0/110		
BM	(30°-60°)	342.7	12.2	B1/1000		
BH	(60°-80°)	297.1	10.6	B1/500		G1/500
BVH	(80°-90°)	111.7	4.0			G2/225
UL	(90°-100°)	191.7	6.8		U3/500	
UH	(100°-180°)	178.9	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°	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0
2.5°	201.9	201.9	201.2	200.8	199.4	197.5	195.8	193.2	190.6	189.9	188.5
5°	219.4	219.4	218.7	216.9	214.3	211.1	207.0	203.0	198.0	196.8	192.9
7.5°	239.1	238.3	236.5	234.7	231.1	226.2	220.9	214.7	207.8	206.3	200.5
10°	258.7	258.7	256.9	254.0	249.6	243.4	236.9	229.2	220.1	218.3	210.7
12.5°	281.3	280.6	277.6	275.5	270.3	263.5	256.2	246.7	235.8	234.0	224.2
15°	305.3	305.0	302.4	297.6	291.8	285.2	277.6	267.4	255.7	252.9	242.0
17.5°	332.2	330.1	328.6	323.5	317.3	308.8	303.0	292.6	279.8	276.5	263.1
20°	356.9	357.3	354.0	349.6	343.8	338.0	329.6	320.2	306.4	302.0	286.7
22.5°	385.0	385.0	381.8	377.4	371.5	368.6	359.1	349.3	332.5	329.3	312.2
25°	414.1	413.0	409.7	405.7	402.8	399.2	390.4	378.8	361.6	358.4	339.1
27.5°	441.0	441.4	437.4	434.1	433.8	429.1	421.7	409.4	393.0	388.3	367.5
30°	468.7	469.0	466.1	462.1	462.5	459.6	453.4	440.7	425.0	419.5	397.3
32.5°	496.4	495.6	491.5	491.2	490.1	488.0	483.3	475.2	458.2	452.4	429.4
35°	521.0	521.0	517.1	518.6	516.4	515.9	514.5	508.4	493.1	487.2	462.5
37.5°	544.0	543.7	541.5	541.8	540.4	540.0	542.6	541.8	527.6	523.0	497.4
40°	565.1	562.9	561.0	562.5	561.0	563.2	569.5	573.8	561.8	558.2	532.3
42.5°	579.6	579.0	578.2	580.7	578.5	583.7	593.5	603.9	596.8	593.2	567.3
45°	591.3	589.9	591.3	593.9	592.4	599.0	616.4	632.4	632.4	627.3	600.7
47.5°	596.0	595.7	599.3	601.5	600.7	611.3	634.6	659.0	664.1	660.0	633.1
50°	594.9	594.9	600.7	603.9	604.8	618.6	648.0	680.0	691.7	688.5	661.9
52.5°	588.1	588.1	596.8	600.7	603.6	621.1	657.2	697.9	715.0	713.3	686.5
55°	574.9	574.6	585.8	591.0	597.1	618.6	660.8	709.5	733.2	731.7	707.8
57.5°	554.6	555.2	569.1	577.1	585.1	610.5	659.0	715.4	745.5	744.8	721.2
60°	528.7	532.3	548.1	557.1	569.1	597.8	651.3	714.3	750.3	750.7	728.4
61°	517.8	521.3	537.4	548.4	561.0	591.6	647.0	712.2	749.9	750.7	729.2
62.5°	500.3	502.5	521.3	534.5	548.4	580.3	638.2	706.3	747.5	748.5	728.1
65°	467.6	471.6	490.9	507.3	523.6	558.6	619.3	691.4	736.9	738.7	719.7
67.5°	431.6	436.3	458.5	477.4	496.4	533.4	596.0	669.9	718.0	720.1	703.7
70°	395.8	401.7	425.0	443.9	467.2	505.5	567.6	642.2	692.0	694.3	680.0
72.5°	359.5	366.0	390.0	411.9	435.5	474.5	536.0	609.4	659.7	662.6	649.5
75°	323.1	331.5	354.0	379.1	402.8	442.8	503.2	574.6	620.0	623.0	612.7
77.5°	290.4	297.6	319.8	346.1	371.9	410.0	467.6	533.0	580.3	581.8	572.7
80°	257.3	265.0	288.9	313.7	341.0	377.7	430.8	491.2	532.3	536.4	526.8
82.5°	227.8	235.5	258.0	284.9	311.1	346.5	393.4	448.3	484.7	489.1	482.5
85°	203.0	208.4	230.6	256.5	282.0	315.4	360.5	408.3	441.0	441.7	435.2
87.5°	178.3	184.1	205.2	230.3	256.2	286.7	325.3	366.4	393.0	395.5	389.0
90°	157.9	161.6	181.6	206.3	231.4	259.5	293.0	329.3	350.7	350.7	345.7
92.5°	140.1	141.9	161.9	185.5	209.6	233.6	263.1	291.0	309.6	309.3	303.5
95°	123.7	125.8	142.7	165.5	188.8	211.1	235.0	257.3	271.1	271.8	265.0
97.5°	109.2	110.6	126.3	148.8	169.6	190.3	210.4	228.2	237.2	237.6	232.5
100°	97.6	97.6	112.4	132.4	152.4	171.0	188.2	201.6	205.6	205.2	200.8
102.5°	87.3	86.7	99.3	118.6	137.2	153.2	167.0	175.8	179.0	178.0	175.1
105°	77.5	78.2	88.1	106.2	123.0	137.2	147.7	155.0	155.0	154.3	151.4
107.5°	70.3	69.8	77.5	94.3	110.3	122.6	131.0	134.6	133.6	132.4	130.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	63.0	63.0	68.8	84.4	98.3	109.5	115.4	117.6	114.2	113.8	113.5
112.5°	56.9	56.9	61.5	74.7	87.7	97.1	101.9	102.2	98.7	98.3	98.7
115°	52.0	52.0	54.6	66.2	78.2	86.7	90.5	88.8	85.1	84.7	85.9
117.5°	47.3	47.3	49.5	57.9	69.2	76.8	79.3	76.8	73.5	73.5	75.0
120°	43.2	43.2	44.0	50.6	60.7	67.3	69.2	66.2	63.7	63.7	65.1
122.5°	39.7	39.4	39.7	44.0	52.5	58.6	59.3	56.9	54.9	55.2	57.5
125°	36.0	36.0	35.6	38.2	45.2	50.3	51.0	48.1	48.1	48.1	49.8
127.5°	32.8	32.8	32.0	33.1	38.2	42.6	42.6	40.4	41.1	41.8	43.2
130°	29.8	29.8	29.1	29.1	31.6	35.3	35.3	33.9	35.6	36.0	37.4
132.5°	26.9	26.6	25.7	24.7	25.7	28.0	28.0	27.7	30.6	30.9	32.0
135°	24.0	23.6	23.0	21.1	20.8	21.5	21.5	22.5	25.4	25.7	27.4
137.5°	20.8	20.8	19.6	17.8	15.7	15.7	15.7	17.8	20.8	21.5	22.2
140°	17.8	17.8	16.7	14.5	11.7	10.6	10.9	13.8	16.7	17.2	17.8
142.5°	14.5	14.5	13.4	11.3	8.4	6.2	6.9	9.9	12.3	13.1	13.8
145°	11.3	11.3	10.2	7.9	5.1	3.3	4.1	6.9	8.7	9.1	9.9
147.5°	8.4	8.4	7.3	5.5	2.9	1.1	2.1	4.1	5.8	6.2	6.9
150°	5.5	5.5	4.7	2.9	1.4	0.0	0.8	2.1	3.3	3.6	4.1
152.5°	2.9	2.9	2.1	1.4	0.3	0.0	0.0	0.8	1.4	1.4	1.8
155°	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.8
157.5°	0.3	0.3	0.3	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°	0.3	0.3	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°	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0
2.5°	187.1	185.5	182.7	180.5	178.0	175.8	173.9	172.5	172.1	171.0	171.4
5°	190.3	187.7	182.4	177.5	172.5	168.2	164.4	161.9	160.1	159.4	158.7
7.5°	196.4	192.1	184.1	176.5	169.3	162.7	156.8	153.2	150.2	148.8	148.8
10°	205.2	199.7	188.5	178.3	168.2	159.4	152.1	146.3	142.7	140.8	141.2
12.5°	217.2	210.0	196.1	182.4	169.9	158.7	148.8	142.7	138.3	136.1	136.1
15°	234.4	226.2	207.8	189.9	173.1	159.4	148.8	141.9	138.6	137.2	136.8
17.5°	255.1	244.5	223.4	201.9	180.9	163.8	153.2	146.6	141.9	140.1	139.8
20°	276.2	264.2	239.4	215.5	191.7	173.1	160.5	151.8	145.6	143.0	142.7
22.5°	300.3	286.4	257.3	228.9	203.4	185.5	167.7	156.5	149.1	145.9	145.6
25°	324.9	309.6	276.9	244.8	219.1	197.5	176.9	161.1	152.4	148.5	148.0
27.5°	351.2	334.8	297.3	260.9	234.0	208.9	185.2	165.5	155.3	151.0	150.7
30°	380.2	360.5	319.5	279.4	248.9	219.4	193.2	170.7	158.3	153.2	152.4
32.5°	410.5	388.6	342.1	299.2	262.8	228.9	199.7	176.1	161.1	155.3	155.0
35°	442.1	417.7	365.4	318.4	275.2	237.2	205.6	180.9	163.4	157.3	156.5
37.5°	475.2	448.3	389.7	336.6	287.2	244.5	210.4	184.8	165.5	158.3	157.6
40°	508.4	477.4	413.8	355.1	298.1	250.7	214.3	187.7	167.0	159.4	158.7
42.5°	540.4	508.7	438.1	372.2	307.4	255.4	217.2	190.3	168.5	160.1	159.0
45°	571.7	538.5	461.4	386.8	315.4	259.1	219.1	191.7	170.3	160.1	159.0
47.5°	602.9	566.5	484.3	399.6	321.3	261.6	219.8	192.6	171.4	159.7	158.7
50°	631.3	591.6	504.0	410.9	325.7	262.3	219.4	192.1	171.7	159.0	157.6
52.5°	654.6	613.8	520.3	418.8	328.3	262.0	218.3	191.4	171.4	157.6	156.5
55°	674.6	631.0	532.3	423.9	328.3	260.1	216.6	189.9	169.9	155.7	154.3
57.5°	687.7	643.6	540.4	426.1	326.8	256.9	213.3	187.4	168.5	153.2	151.8
60°	695.3	649.9	543.7	424.7	322.8	252.5	209.6	184.5	166.3	150.2	148.8
61°	696.1	650.6	543.7	423.2	320.9	250.7	208.1	183.4	165.2	149.1	147.4
62.5°	695.3	649.9	541.8	419.9	317.3	247.5	205.2	180.9	163.1	146.6	145.6
65°	688.2	643.0	534.5	411.6	309.3	240.9	200.2	176.9	159.4	143.0	141.2
67.5°	672.5	629.2	521.3	399.9	299.8	233.3	194.3	172.1	155.3	138.6	136.5
70°	649.9	608.8	505.1	386.4	289.3	224.8	187.7	166.6	150.2	134.3	131.3
72.5°	621.9	584.0	482.2	369.3	276.9	216.2	180.9	160.8	144.8	129.2	125.5
75°	586.9	552.5	456.7	350.4	263.1	206.0	173.6	154.3	138.6	123.7	119.7
77.5°	548.4	517.5	429.1	329.6	249.2	196.1	165.5	147.0	132.1	117.6	113.5
80°	506.2	479.2	397.7	307.9	234.7	186.0	157.6	140.1	125.5	111.3	106.6
82.5°	462.8	438.7	366.4	285.6	219.1	175.4	148.8	132.4	118.2	104.8	99.8
85°	418.8	398.0	334.8	262.8	203.4	164.9	140.8	124.8	110.6	97.9	93.5
87.5°	375.2	357.3	302.4	240.9	189.2	154.6	132.4	117.1	103.4	91.0	86.7
90°	334.5	319.1	272.5	220.4	175.1	144.1	124.1	109.5	96.0	83.7	80.8
92.5°	295.9	282.8	243.7	199.1	160.8	134.0	115.7	101.5	88.1	76.8	75.0
95°	260.9	248.6	217.7	180.2	147.7	124.8	107.7	94.3	80.8	70.3	68.8
97.5°	226.7	219.1	193.2	161.9	135.1	114.9	99.8	87.0	73.9	64.0	63.3
100°	198.3	190.3	169.6	145.2	123.4	106.2	92.1	79.6	67.3	58.2	57.9
102.5°	172.5	167.0	149.5	131.0	112.1	96.8	84.4	72.7	60.7	52.8	52.8
105°	150.7	145.6	132.4	116.5	101.2	88.8	76.8	65.4	54.2	47.3	47.6
107.5°	129.9	126.6	115.7	102.9	91.0	80.5	69.5	58.6	47.6	42.2	42.6



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CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	113.2	110.0	101.5	92.1	81.8	72.7	62.6	52.0	41.5	38.2	38.2
112.5°	98.3	96.0	89.1	81.5	73.5	65.4	56.4	45.9	36.4	33.9	34.2
115°	85.9	84.0	78.2	72.4	65.9	59.0	50.3	40.0	31.6	30.6	30.6
117.5°	74.7	73.5	68.8	63.7	58.6	52.5	44.4	34.5	27.4	27.4	27.4
120°	65.1	64.0	60.4	56.0	51.7	46.2	38.2	29.5	24.0	24.0	24.4
122.5°	57.2	56.4	52.8	49.5	45.5	40.0	32.8	24.7	21.1	21.5	21.5
125°	49.8	49.1	46.6	42.9	39.4	34.2	27.7	20.4	18.2	18.9	18.9
127.5°	43.2	42.9	40.4	37.1	33.5	29.1	22.5	17.2	16.1	16.7	16.7
130°	37.8	37.4	35.0	31.6	28.4	23.6	18.2	14.2	13.8	14.5	14.5
132.5°	32.3	32.0	29.8	26.6	23.3	18.9	14.2	11.3	12.0	12.8	12.8
135°	27.4	26.9	25.4	21.9	18.9	15.0	10.9	9.5	10.2	10.9	10.9
137.5°	22.5	22.2	20.8	17.5	14.2	10.9	7.9	7.6	8.4	9.1	9.1
140°	18.2	17.8	16.4	13.4	10.2	7.6	5.5	6.2	6.9	7.6	7.6
142.5°	13.8	13.8	12.8	10.2	6.9	4.7	3.6	4.7	5.5	6.2	6.2
145°	10.2	10.2	8.7	6.9	4.1	2.5	2.1	3.3	4.4	4.7	4.7
147.5°	6.9	6.9	5.8	4.4	2.1	1.1	1.4	2.1	2.9	3.3	3.6
150°	4.1	4.1	3.3	2.1	1.1	0.3	0.3	1.4	1.8	2.1	2.1
152.5°	1.8	1.8	1.4	0.8	0.3	0.3	0.3	0.3	1.1	1.1	1.1
155°	0.8	0.8	0.8	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3
157.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.3	0.3	0.3	0.3	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)