

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: P241019

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234.6 lumens
Efficiency: N/A
Efficacy: 104.3 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 - U2 - G1

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

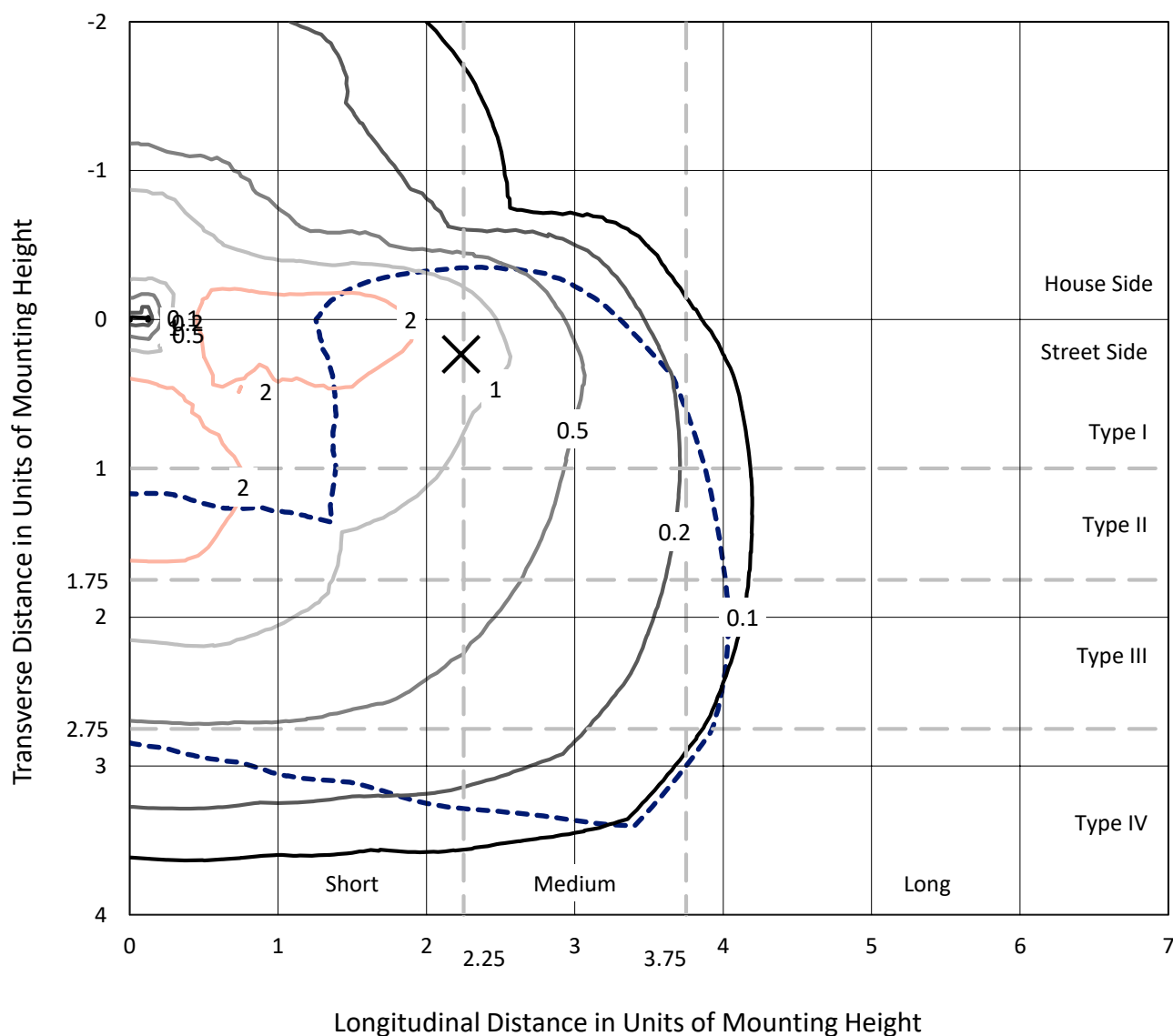


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

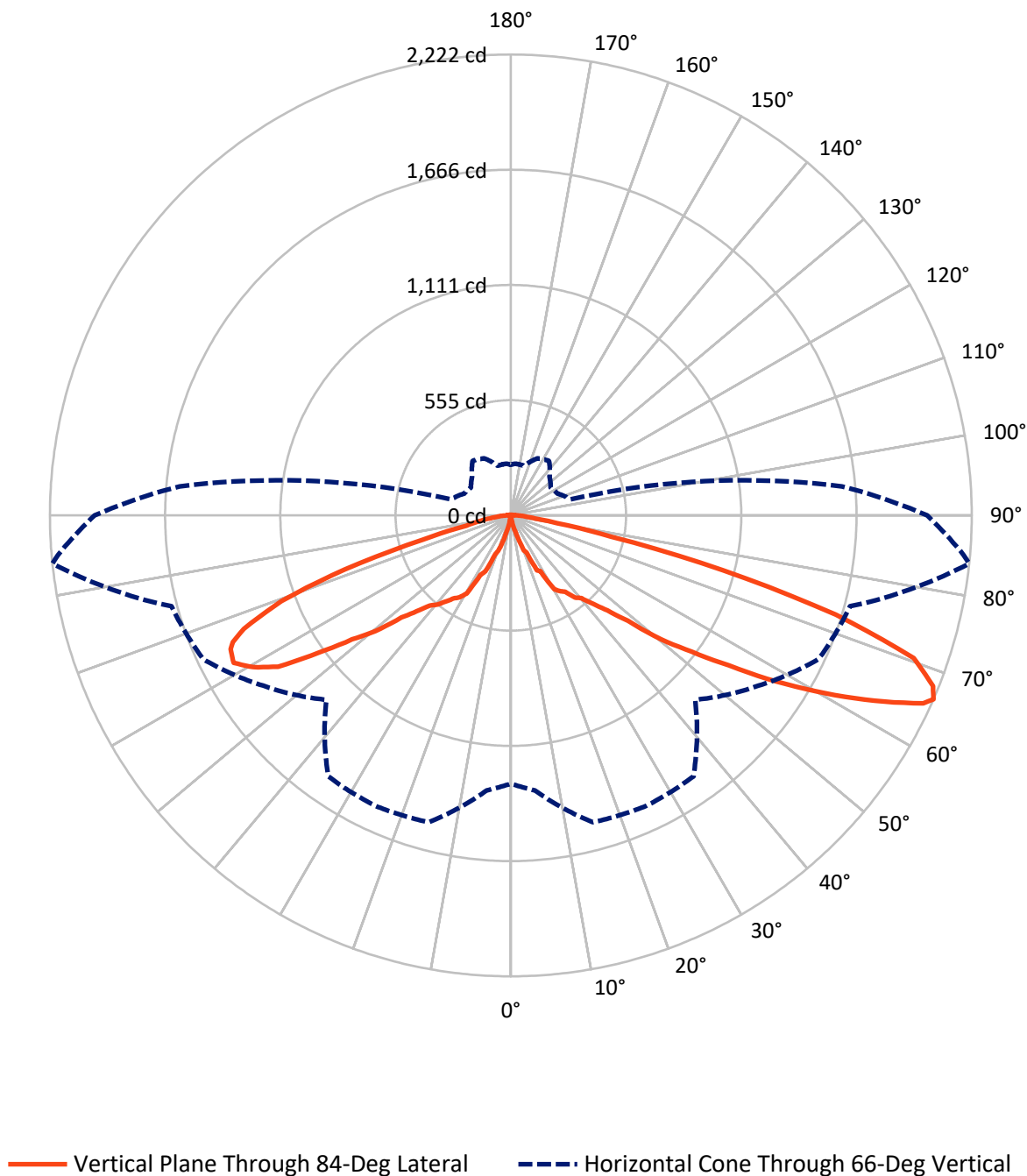


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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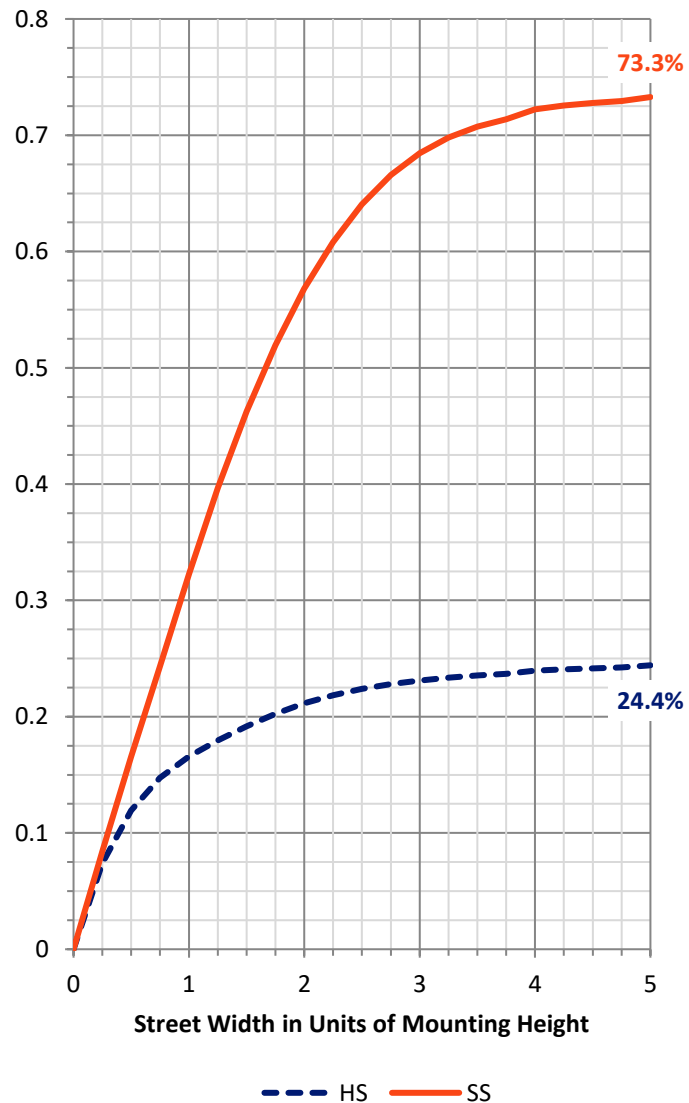
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.4	19.7	829.1
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	2387.0	18.5	2405.5
	% Fixture	73.8	0.6	74.4
Total	Lumens	3196.4	38.2	3234.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.1
10°-20°	30.0	0.9
20°-30°	110.9	3.4
30°-40°	228.1	7.1
40°-50°	378.5	11.7
50°-60°	660.0	20.4
60°-70°	972.2	30.1
70°-80°	709.5	21.9
80°-90°	104.7	3.2
90°-100°	19.5	0.6
100°-110°	8.9	0.3
110°-120°	4.2	0.1
120°-130°	2.9	0.1
130°-140°	1.8	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3196.4	98.8
0°-180°	3234.6	100.0

Coefficient of Utilization



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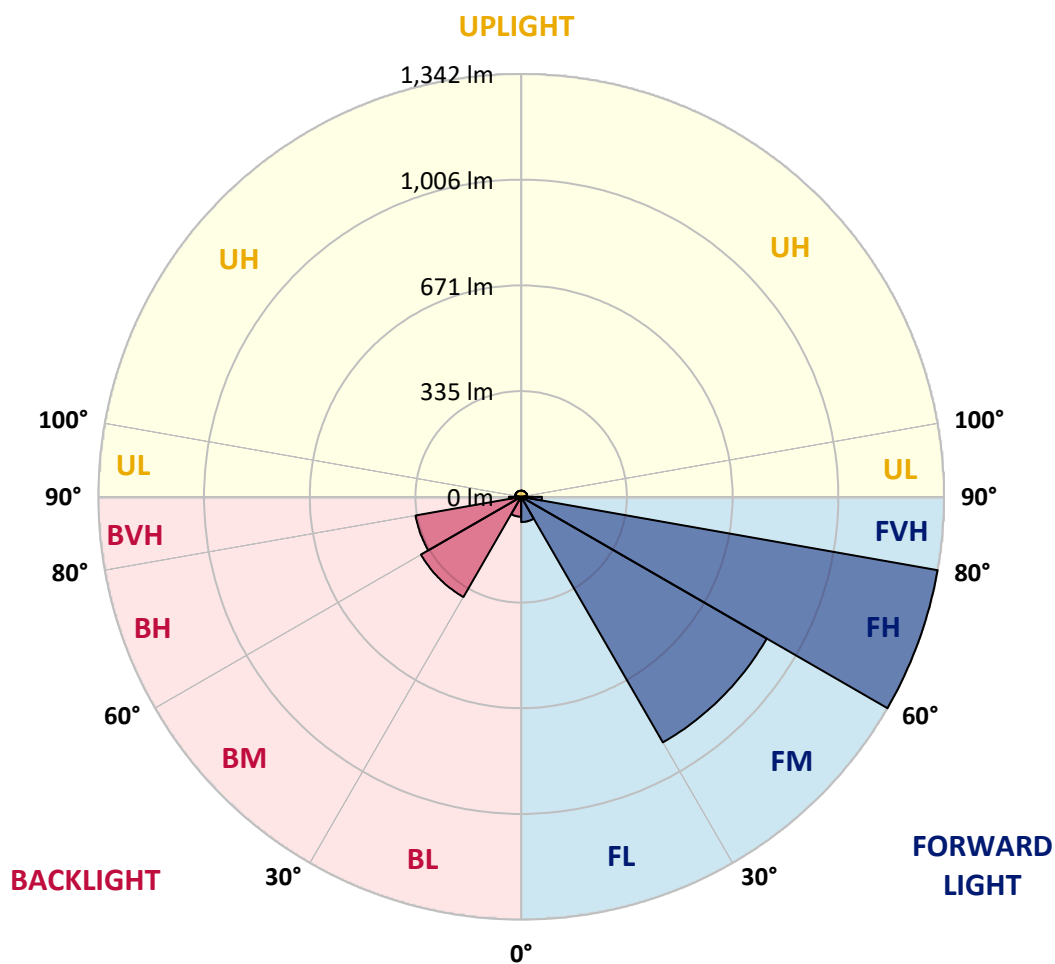
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.0	2.5			
FM	(30°-60°)	899.6	27.8			
FH	(60°-80°)	1341.5	41.5			G1/1800
FVH	(80°-90°)	65.8	2.0			G1/100
BL	(0°-30°)	63.3	2.0	B0/110		
BM	(30°-60°)	367.0	11.3	B1/1000		
BH	(60°-80°)	340.2	10.5	B1/500		G1/500
BVH	(80°-90°)	38.9	1.2			G1/100
UL	(90°-100°)	19.5	0.6		U2/50	
UH	(100°-180°)	19.7	0.6		U2/50	

BUG Rating: B1-U2-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	19.1	17.1	17.1	16.3	14.7	13.1	10.3	8.8	7.6	7.6	7.2
5°	36.6	38.6	44.6	41.0	33.9	44.2	19.8	13.1	8.4	7.2	7.2
7.5°	58.1	61.3	47.0	41.7	41.7	44.6	36.2	21.9	11.2	8.4	8.0
10°	121.7	115.0	80.0	81.2	68.8	48.2	33.0	29.1	17.1	13.5	12.4
12.5°	118.2	116.6	119.0	103.8	104.6	76.0	42.1	67.6	61.3	58.5	64.4
15°	152.4	150.8	120.9	123.4	111.8	116.2	97.9	97.5	94.3	79.2	76.0
17.5°	211.6	210.1	236.7	157.5	112.2	145.3	126.1	108.6	112.6	119.0	123.8
20°	211.2	208.9	220.0	189.0	191.4	150.0	134.5	197.7	180.7	181.5	171.1
22.5°	312.0	297.7	261.5	197.3	215.6	175.4	199.4	195.4	182.2	193.0	189.8
25°	302.8	308.4	296.0	292.1	219.6	251.4	219.2	225.6	278.5	292.9	293.3
27.5°	351.4	340.6	331.0	300.0	295.2	244.7	225.6	300.4	291.6	304.8	304.4
30°	419.0	415.4	413.1	333.5	319.5	269.8	304.0	306.8	354.1	413.8	426.2
32.5°	484.3	467.2	428.5	386.0	320.7	318.8	302.0	381.2	406.2	434.5	438.8
35°	587.7	587.3	522.0	412.7	359.0	338.6	391.2	410.6	410.2	452.9	478.6
37.5°	676.1	680.4	611.9	498.2	371.2	342.2	408.3	442.8	444.5	502.2	492.2
40°	810.5	799.0	737.8	594.8	424.1	364.9	447.6	452.9	485.4	524.1	538.4
42.5°	906.0	901.6	881.8	707.9	485.4	406.6	494.2	471.9	514.1	584.1	599.2
45°	965.7	944.2	963.7	790.6	583.7	496.1	504.5	534.4	579.3	653.4	695.9
47.5°	1025.8	1042.1	996.4	853.1	672.1	537.6	555.1	649.4	692.7	759.2	786.2
50°	1130.1	1112.6	1096.6	947.0	808.1	603.6	694.4	681.6	803.3	939.1	943.8
52.5°	1193.7	1193.7	1167.8	1029.0	902.0	701.1	740.9	786.2	967.7	1090.7	1135.2
55°	1284.0	1302.7	1297.9	1125.7	1012.6	833.6	862.7	958.1	1118.1	1276.0	1386.3
57.5°	1348.0	1373.9	1430.1	1229.1	1120.1	887.7	1040.5	1146.7	1320.2	1512.4	1645.7
60°	1443.2	1443.6	1501.3	1320.6	1255.8	990.7	1109.4	1321.9	1431.2	1739.6	1810.0
62.5°	1452.7	1469.1	1590.0	1463.1	1391.0	1098.2	1334.5	1412.2	1556.2	1968.1	2029.6
65°	1337.3	1381.1	1583.6	1529.9	1514.8	1197.3	1400.6	1590.8	1657.7	2184.5	2166.9
66°	1293.2	1330.1	1531.2	1544.7	1535.1	1256.6	1439.2	1637.3	1693.1	2221.8	2191.3
67.5°	1277.7	1304.7	1468.2	1560.5	1603.9	1364.0	1533.5	1660.0	1757.9	2194.8	2182.5
70°	1169.8	1203.6	1357.3	1665.6	1750.8	1560.9	1654.8	1715.0	1803.7	2060.7	2007.4
72.5°	892.1	926.7	1040.1	1374.3	1763.1	1852.3	1843.1	1784.2	1654.8	1637.3	1551.8
75°	442.4	479.5	559.5	801.0	1372.0	1819.6	1832.3	1608.7	1337.3	1056.0	990.4
77.5°	228.8	257.9	216.0	306.8	705.4	1290.8	1296.8	1060.8	775.1	493.4	460.7
80°	156.0	162.3	147.2	151.2	290.4	659.7	615.2	564.7	312.0	226.4	236.3
82.5°	114.6	105.9	101.5	110.2	156.8	206.1	221.3	244.3	166.7	115.0	121.3
85°	54.1	59.6	58.5	67.2	95.5	70.4	108.2	146.8	111.0	74.0	72.8
87.5°	33.9	33.5	35.8	41.4	57.7	46.5	59.3	72.8	66.8	46.1	45.3
90°	22.3	19.8	18.7	22.3	32.2	23.1	31.8	41.4	37.8	25.1	23.4
92.5°	15.1	15.1	16.3	18.7	27.8	24.7	22.7	23.4	23.4	19.5	18.7
95°	11.2	12.0	13.5	13.9	16.7	14.3	18.3	20.3	20.7	16.0	15.5
97.5°	9.5	10.3	11.2	11.6	13.9	11.6	15.1	17.9	17.5	12.7	13.1
100°	8.8	9.5	9.5	9.9	11.2	8.8	12.4	16.7	16.0	11.2	10.7
102.5°	8.4	8.4	8.0	8.0	8.8	6.8	10.3	14.7	12.0	9.1	8.4
105°	8.0	8.0	6.8	6.3	6.8	5.5	8.4	11.2	8.4	7.6	7.6
107.5°	7.6	7.2	5.9	5.2	5.5	4.4	6.8	7.2	5.9	6.8	7.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	6.8	6.8	5.2	4.4	4.4	3.6	4.8	5.2	5.2	6.8	7.2
112.5°	6.3	5.9	4.4	3.6	3.6	3.2	3.6	4.0	4.4	6.3	6.8
115°	5.9	5.5	4.0	3.2	2.8	2.4	2.8	3.2	4.0	6.3	6.3
117.5°	5.5	5.2	3.6	2.8	2.4	1.9	2.4	2.8	4.0	6.3	6.3
120°	5.5	5.2	3.6	2.4	1.9	1.9	1.9	2.4	4.4	6.3	6.8
122.5°	5.2	5.2	3.6	2.4	1.9	1.6	1.6	2.4	4.0	5.9	5.9
125°	5.2	5.2	3.2	1.9	1.6	1.6	1.6	1.9	4.0	5.5	5.9
127.5°	4.8	4.8	3.2	1.9	1.6	1.2	1.2	1.9	3.6	5.5	5.5
130°	4.8	4.8	3.2	1.6	1.2	1.2	1.2	1.6	3.6	5.2	5.2
132.5°	4.0	4.0	2.8	1.6	1.2	0.8	1.2	1.6	3.2	4.4	4.8
135°	4.0	4.0	2.8	1.6	1.2	0.8	0.8	1.6	2.8	4.0	4.0
137.5°	3.6	3.6	2.4	1.6	1.2	0.8	0.8	1.2	2.4	3.6	3.6
140°	3.2	3.2	2.8	1.6	1.2	0.8	0.8	0.8	1.9	2.8	2.8
142.5°	3.2	3.2	2.4	1.6	0.8	0.4	0.4	0.8	1.6	1.9	1.9
145°	2.8	2.8	2.4	1.6	0.8	0.4	0.4	0.8	1.2	1.6	1.6
147.5°	2.8	2.8	2.4	1.2	0.4	0.4	0.4	0.8	1.2	1.6	1.6
150°	2.4	2.4	1.6	0.8	0.0	0.0	0.4	0.4	0.8	1.2	1.2
152.5°	1.6	1.6	1.2	0.4	0.0	0.0	0.0	0.4	0.8	0.8	0.8
155°	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	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°	0.0	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°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	7.2	7.2	7.2	7.2	7.2	7.2	6.8	6.8	6.8	6.8	6.8
5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.2	7.6	7.6	7.6
7.5°	7.6	7.6	7.2	6.8	7.2	8.0	12.0	27.4	40.2	49.3	48.9
10°	12.4	12.4	11.6	9.9	12.4	27.1	53.3	53.7	44.6	41.0	42.6
12.5°	65.3	58.1	49.3	40.6	39.8	48.2	45.3	63.2	70.8	76.0	75.2
15°	74.8	79.2	72.4	81.2	83.2	49.3	77.2	103.4	111.4	114.6	118.2
17.5°	123.4	136.5	97.5	92.3	92.7	98.7	104.2	109.5	111.8	110.6	111.0
20°	185.8	177.1	190.2	162.3	124.2	132.1	120.9	119.4	157.5	191.4	187.0
22.5°	189.8	204.9	187.4	171.4	189.8	134.5	166.7	177.1	182.2	186.6	192.2
25°	307.2	300.0	262.6	196.9	187.4	179.4	181.1	185.1	195.0	210.1	219.2
27.5°	326.3	324.7	290.4	265.4	199.8	224.4	185.8	223.6	241.5	257.5	260.6
30°	438.8	443.2	334.2	255.0	231.6	192.2	215.6	230.4	244.3	266.6	267.0
32.5°	466.4	475.5	369.7	282.1	242.7	199.0	216.9	228.0	280.9	301.6	302.4
35°	473.5	496.9	381.2	272.2	234.4	198.1	200.2	238.3	264.6	306.8	321.9
37.5°	548.7	531.6	405.1	275.8	219.2	190.6	216.0	228.8	270.2	297.3	302.4
40°	580.5	571.0	420.5	282.9	216.5	212.1	200.2	213.3	232.7	252.3	252.3
42.5°	639.9	602.4	429.3	277.7	210.5	227.6	182.6	197.3	215.6	204.1	208.9
45°	718.6	668.5	459.2	250.3	199.4	193.3	175.4	198.1	186.6	186.6	184.2
47.5°	820.5	752.1	449.2	240.7	224.4	183.0	231.6	186.2	171.9	178.3	178.6
50°	981.6	900.4	479.9	234.4	212.9	179.4	198.1	179.8	179.8	184.2	182.6
52.5°	1183.8	1023.8	493.0	233.9	201.3	208.9	196.6	215.2	186.2	201.7	199.8
55°	1402.6	1209.6	506.6	230.8	199.4	188.6	240.3	206.1	193.3	221.7	222.4
57.5°	1679.9	1424.9	562.2	224.4	200.2	189.0	226.8	230.8	235.6	254.3	257.1
60°	1852.7	1544.2	512.9	236.3	198.1	215.6	263.8	257.9	243.2	312.3	322.7
62.5°	1984.3	1634.6	422.6	246.3	234.4	217.3	272.5	300.8	287.2	315.2	323.0
65°	2008.2	1626.6	323.0	246.3	231.2	253.1	327.0	300.0	255.8	258.6	255.4
66°	2006.6	1602.4	297.7	248.3	234.4	263.8	321.1	303.6	247.5	250.3	244.3
67.5°	1940.9	1525.5	258.6	245.5	256.7	271.0	315.6	283.3	237.9	238.8	232.7
70°	1688.3	1286.8	220.0	252.3	266.2	271.8	344.9	263.8	218.4	212.9	211.6
72.5°	1241.9	912.8	206.1	251.0	270.2	263.4	290.8	216.9	188.6	177.5	176.3
75°	698.3	466.4	205.3	240.7	239.2	226.0	220.0	167.2	156.0	142.8	140.5
77.5°	321.9	224.8	173.9	193.7	180.7	178.6	164.0	139.2	132.9	124.2	120.6
80°	186.2	158.8	123.8	128.5	129.7	126.1	132.5	125.3	118.6	112.2	106.3
82.5°	108.6	100.7	90.3	84.8	84.8	90.7	109.0	104.2	99.1	93.5	80.4
85°	68.0	65.3	61.7	59.3	59.3	54.5	78.4	87.2	82.3	70.4	62.9
87.5°	44.6	46.5	41.4	41.7	40.6	36.2	52.9	58.5	50.1	40.2	33.5
90°	20.3	22.3	24.2	23.8	25.9	19.8	29.1	29.9	26.7	18.3	13.1
92.5°	15.5	18.3	20.3	20.3	22.3	13.5	21.1	23.4	21.9	17.1	12.4
95°	13.1	16.3	19.5	19.1	19.1	10.7	19.5	21.9	20.7	14.7	10.7
97.5°	10.7	13.1	16.0	16.0	17.5	9.1	17.9	21.1	19.8	14.7	10.3
100°	9.9	12.0	13.9	14.3	16.0	7.2	16.3	19.8	17.9	12.4	9.9
102.5°	9.1	9.9	11.6	11.6	12.0	6.3	13.1	16.3	14.3	9.5	9.5
105°	8.4	8.4	8.4	7.6	7.6	5.2	8.0	11.2	8.8	7.6	8.4
107.5°	8.0	7.6	6.3	5.9	5.5	4.4	5.5	6.8	5.2	6.8	7.6



REPORT NUMBER: P241019

CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.6	7.6	5.9	5.2	4.8	4.0	4.8	4.4	4.4	6.8	7.2
112.5°	7.6	7.2	5.2	4.4	4.0	3.6	4.0	3.2	4.0	6.8	7.2
115°	7.2	7.2	4.8	4.0	4.0	3.2	3.2	2.8	3.6	6.3	7.2
117.5°	7.2	7.2	4.8	3.6	3.2	2.8	2.8	2.8	3.6	6.3	7.2
120°	7.2	6.8	4.8	3.6	2.8	2.4	2.4	2.4	3.6	6.3	6.8
122.5°	6.8	6.3	4.4	3.2	2.8	2.4	1.9	2.4	3.6	5.9	6.3
125°	6.3	6.3	4.4	2.8	2.4	1.9	1.6	1.9	3.6	5.9	6.3
127.5°	6.3	5.9	4.0	2.4	1.9	1.9	1.6	1.9	3.6	5.5	5.9
130°	5.5	5.5	3.6	2.4	1.6	1.6	1.2	1.6	3.6	5.5	5.5
132.5°	5.2	4.8	3.2	1.9	1.6	1.2	1.2	1.2	3.2	4.8	5.2
135°	4.4	4.0	2.8	1.6	1.2	1.2	0.8	1.2	2.8	4.4	4.4
137.5°	3.6	3.6	2.8	1.6	1.2	0.8	0.8	1.2	2.8	4.0	4.4
140°	3.2	2.8	1.9	1.2	0.8	0.8	0.8	1.2	2.4	3.2	3.6
142.5°	2.4	2.4	1.6	1.2	0.8	0.8	0.4	0.8	1.9	2.8	2.8
145°	1.9	1.9	1.6	0.8	0.8	0.4	0.4	0.4	1.6	1.9	2.4
147.5°	1.6	1.6	1.2	0.8	0.4	0.4	0.0	0.4	1.2	1.6	1.6
150°	1.2	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.4	0.8	0.8
152.5°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.0	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)