

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: P241119

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - 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



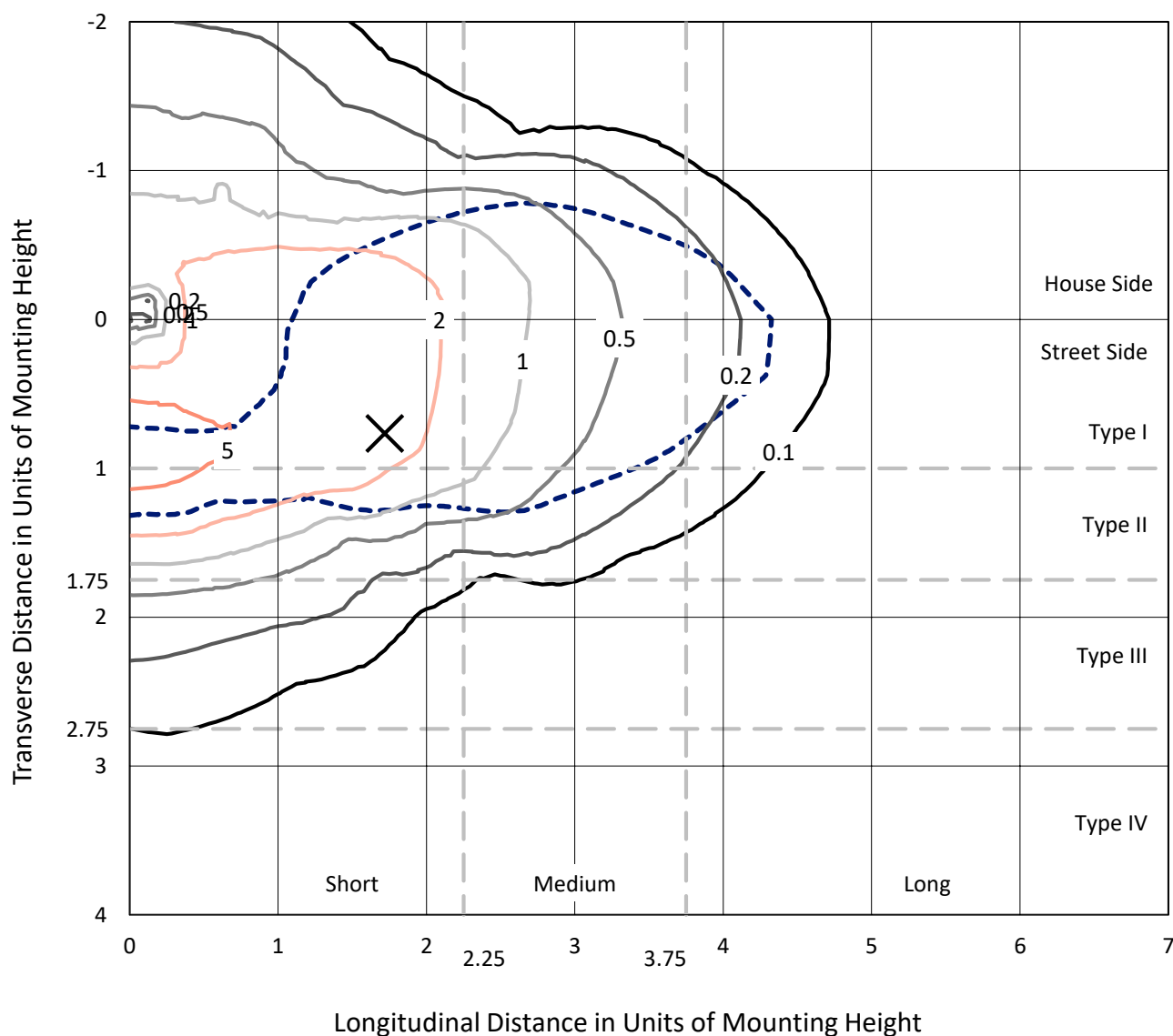
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

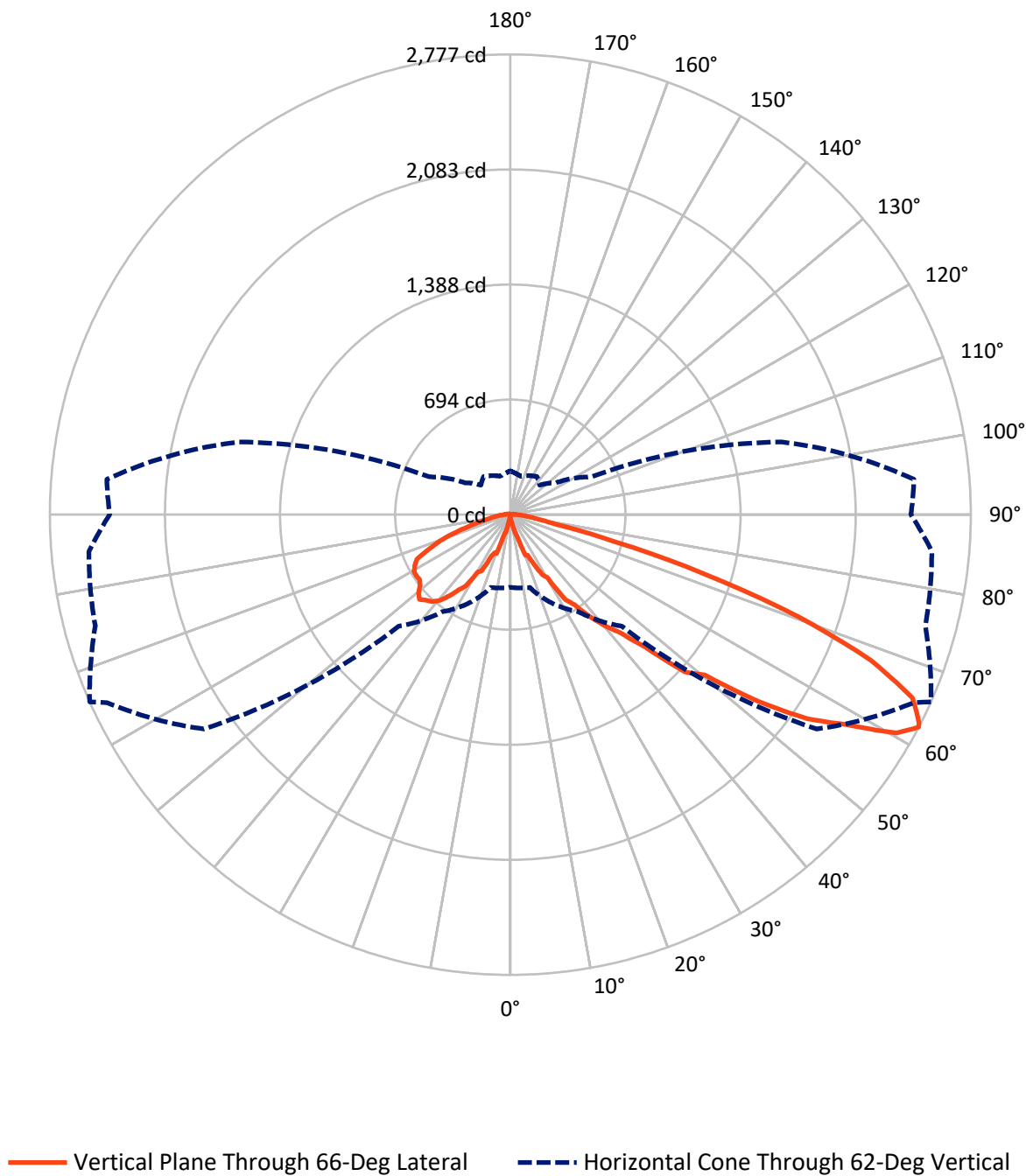


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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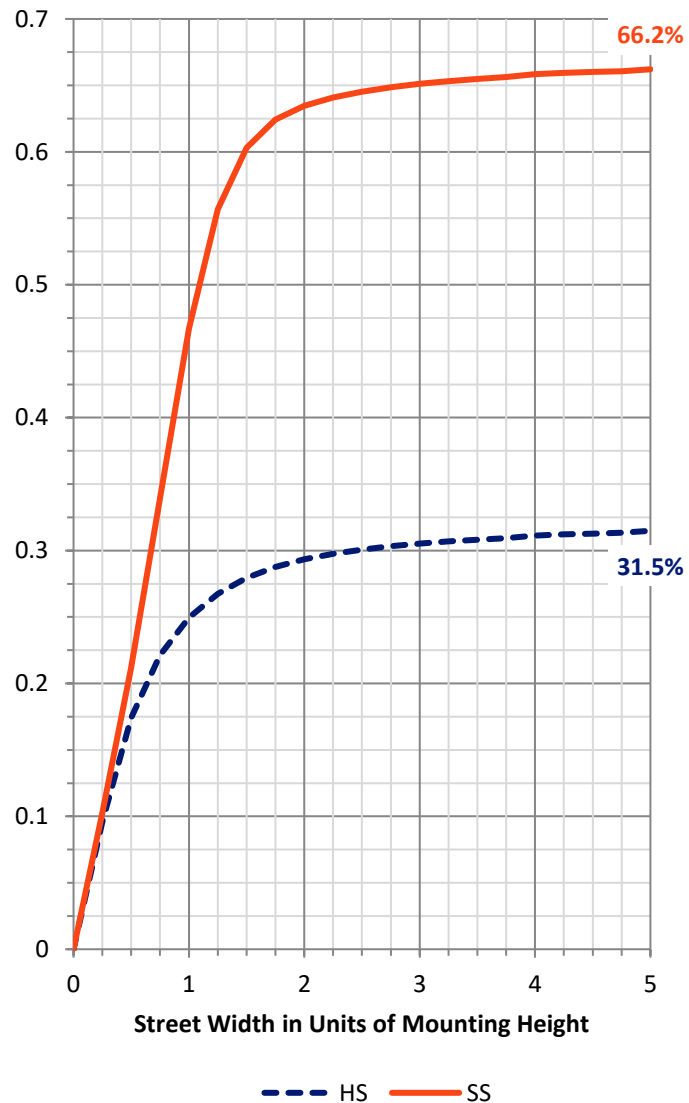
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1274.3	30.4	1304.7
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	2645.6	22.3	2668.0
	% Fixture	66.6	0.6	67.2
Total	Lumens	3919.9	52.7	3972.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	40.3	1.0
20°-30°	159.7	4.0
30°-40°	397.9	10.0
40°-50°	758.8	19.1
50°-60°	1034.9	26.0
60°-70°	950.7	23.9
70°-80°	484.9	12.2
80°-90°	89.2	2.2
90°-100°	23.6	0.6
100°-110°	11.3	0.3
110°-120°	6.9	0.2
120°-130°	5.3	0.1
130°-140°	3.5	0.1
140°-150°	1.7	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3919.9	98.7
0°-180°	3972.7	100.0

Coefficient of Utilization



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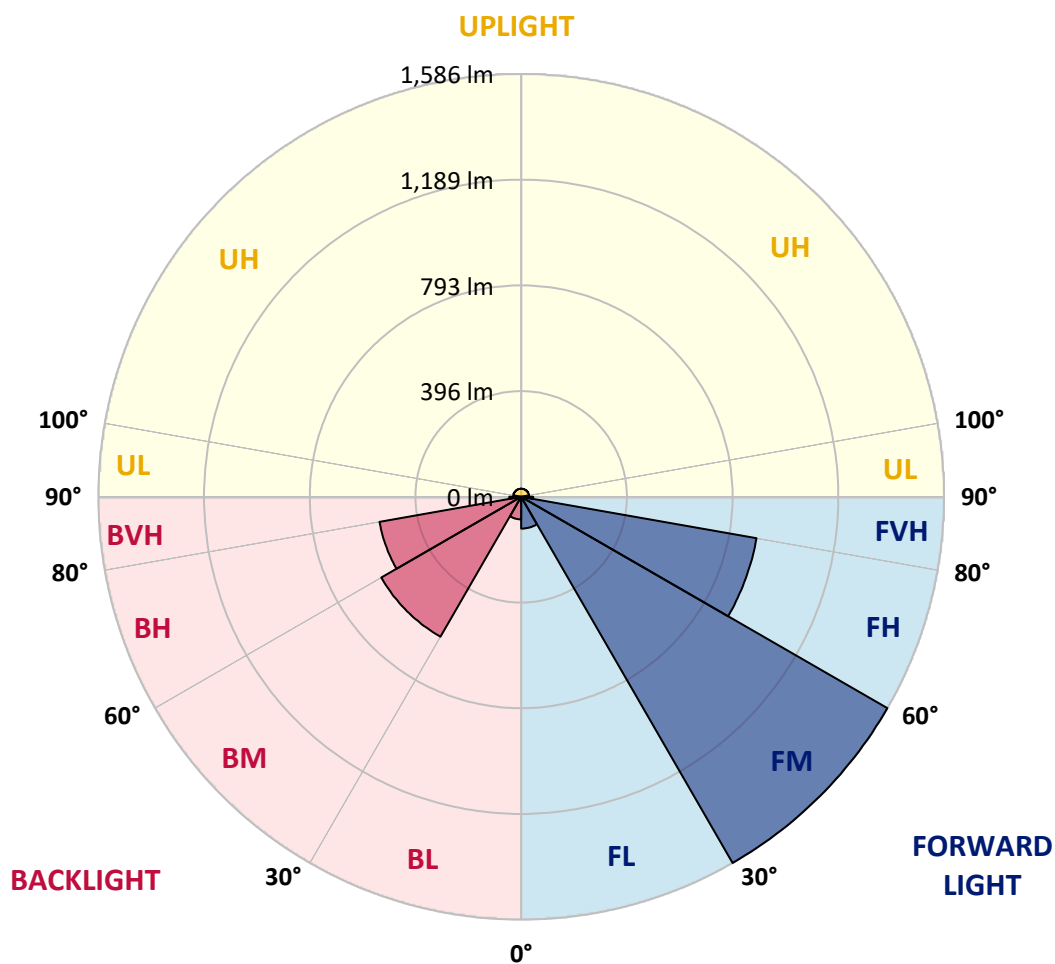
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.1	3.0			
FM	(30°-60°)	1585.7	39.9			
FH	(60°-80°)	896.1	22.6			G1/1800
FVH	(80°-90°)	44.8	1.1			G1/100
BL	(0°-30°)	84.5	2.1	B0/110		
BM	(30°-60°)	605.9	15.3	B1/1000		
BH	(60°-80°)	539.5	13.6	B2/1000		G2/1000
BVH	(80°-90°)	44.5	1.1			G1/100
UL	(90°-100°)	23.6	0.6		U2/50	
UH	(100°-180°)	30.4	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	49.3	47.0	35.2	30.8	25.9	21.0	16.2	13.6	13.2	12.2	11.3
5°	49.3	49.3	51.0	53.7	59.6	54.3	57.3	20.5	19.5	13.2	10.7
7.5°	94.4	92.0	115.4	81.7	51.4	48.0	72.8	44.5	44.5	20.5	12.2
10°	127.7	127.2	156.0	99.8	92.0	111.6	49.3	51.0	51.0	35.2	17.2
12.5°	125.2	124.2	126.2	137.4	115.4	97.8	99.3	65.0	81.2	128.2	131.5
15°	176.1	185.4	175.6	134.5	123.3	122.8	158.4	120.3	122.3	140.8	103.2
17.5°	234.8	235.8	256.8	218.2	171.6	181.5	167.7	168.3	148.7	156.0	174.6
20°	255.7	251.4	263.1	244.0	244.0	217.2	171.2	242.5	260.7	245.1	242.1
22.5°	439.2	437.2	382.5	267.5	276.9	253.8	259.3	282.7	265.6	249.4	245.1
25°	500.9	494.5	475.4	456.3	339.5	356.0	314.0	307.1	326.2	393.8	426.0
27.5°	666.2	673.5	575.1	513.5	457.8	383.0	359.0	441.2	409.4	430.9	426.0
30°	838.3	834.4	799.7	686.7	575.1	475.4	476.4	463.2	441.6	507.7	576.7
32.5°	1086.8	1099.4	940.5	822.1	719.0	578.6	524.3	615.7	611.9	592.8	618.7
35°	1354.9	1352.8	1222.7	1027.6	777.7	654.5	626.6	680.8	667.7	638.3	686.2
37.5°	1525.0	1505.9	1417.4	1249.7	950.9	745.9	755.6	795.3	782.1	743.4	832.0
40°	1771.5	1750.6	1644.9	1417.0	1185.6	903.9	959.2	926.8	883.8	877.1	888.3
42.5°	1862.0	1863.0	1759.8	1594.0	1389.6	1129.8	1158.7	1016.8	973.3	1046.1	1021.8
45°	1890.4	1886.5	1814.6	1690.4	1522.1	1399.8	1307.9	1180.8	1136.8	1203.2	1229.6
47.5°	1828.4	1812.6	1824.4	1685.5	1662.0	1517.7	1498.6	1408.7	1418.4	1380.7	1442.9
50°	1661.5	1638.6	1669.4	1633.1	1733.4	1645.3	1867.5	1526.5	1521.1	1589.0	1666.4
52.5°	1402.8	1385.6	1485.4	1455.6	1717.8	1784.7	1940.8	1865.9	1870.8	1877.2	1835.1
55°	1149.4	1158.2	1234.5	1216.9	1491.3	1815.2	2185.8	2144.2	2172.6	2015.2	2015.7
57.5°	820.7	840.3	977.8	988.0	1242.9	1596.5	2382.5	2316.0	2388.9	2241.6	2274.3
60°	565.4	577.1	651.5	755.2	932.7	1325.6	2277.8	2609.4	2675.4	2472.0	2470.5
62°	438.7	443.6	454.8	587.4	716.0	952.7	2254.8	2683.3	2776.8	2591.3	2551.2
62.5°	407.0	412.4	419.7	533.0	660.3	866.2	2168.7	2699.4	2765.9	2606.5	2564.9
65°	325.7	328.3	311.6	354.6	466.6	517.5	1558.2	2623.6	2666.2	2588.0	2525.3
67.5°	301.8	293.0	270.0	258.3	349.2	333.6	848.1	2236.2	2346.3	2476.8	2411.8
70°	249.9	269.6	250.9	230.9	278.8	256.3	360.0	1809.7	1840.5	2267.5	2258.7
72.5°	191.2	205.4	220.0	217.7	214.7	206.4	239.2	1130.9	1221.3	1861.0	2091.4
75°	155.0	160.9	191.7	185.4	190.7	163.4	188.3	537.5	650.5	1317.1	1818.9
77.5°	124.8	128.6	149.1	143.7	158.0	127.7	150.1	243.5	275.9	757.1	1245.8
80°	82.7	84.5	108.6	107.6	115.4	113.0	113.5	170.7	172.6	354.1	651.9
82.5°	61.6	60.6	74.9	75.3	74.9	81.7	77.8	116.9	121.9	173.6	216.7
85°	40.1	38.7	44.5	47.4	45.5	45.1	58.7	82.2	85.5	123.8	129.2
87.5°	22.0	23.5	29.4	29.4	30.8	30.4	48.0	54.7	57.3	82.7	69.5
90°	14.6	14.6	16.2	15.7	16.6	16.2	24.9	32.2	32.8	41.6	37.1
92.5°	13.2	14.2	16.2	16.2	17.6	15.2	22.5	27.5	27.9	33.8	28.4
95°	11.7	12.2	13.6	14.2	15.2	10.7	17.2	22.5	23.0	27.9	23.0
97.5°	9.9	10.7	11.7	12.2	13.6	9.9	14.2	18.1	18.6	21.6	17.6
100°	9.9	10.3	10.3	10.3	11.7	8.3	12.2	15.7	16.2	17.6	14.6
102.5°	9.3	9.9	9.3	8.8	9.9	7.3	10.7	13.2	13.2	12.7	12.2
105°	9.3	9.3	7.8	6.9	8.3	6.9	9.3	9.9	9.9	9.9	11.3
107.5°	8.8	8.8	7.3	6.3	6.9	5.9	7.8	8.3	8.3	8.8	10.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	8.3	7.8	6.3	5.4	5.4	5.4	6.3	6.9	6.9	7.8	11.3
112.5°	7.3	7.3	5.4	4.9	4.9	4.9	5.9	6.3	6.3	7.3	10.7
115°	6.9	6.9	5.4	4.4	4.4	4.4	5.4	5.9	5.9	6.9	10.7
117.5°	7.3	6.9	4.9	4.4	4.0	4.0	4.4	5.4	5.4	6.9	10.7
120°	6.3	6.3	4.9	4.0	3.4	4.0	4.4	4.9	5.4	7.3	10.7
122.5°	6.9	6.3	4.9	3.4	3.4	3.4	4.0	4.9	4.9	6.9	9.9
125°	6.3	5.9	4.4	3.4	2.9	3.4	4.0	4.4	4.9	6.9	9.9
127.5°	6.3	5.9	4.4	3.4	2.9	2.9	4.0	4.4	4.4	6.3	9.3
130°	5.9	5.9	4.0	2.9	2.9	2.9	3.4	4.0	4.0	5.9	8.3
132.5°	5.4	4.9	4.0	2.9	2.4	2.9	3.4	3.4	3.4	5.4	7.8
135°	4.9	4.9	4.0	2.9	2.4	2.4	2.9	3.4	3.4	4.9	6.9
137.5°	4.4	4.4	4.0	2.9	2.4	2.4	2.4	2.9	2.9	4.4	5.9
140°	4.4	4.4	4.0	2.9	2.4	2.4	2.4	2.4	2.4	3.4	4.9
142.5°	4.4	4.4	4.0	2.9	2.4	1.9	1.9	1.9	1.9	2.9	4.0
145°	4.0	4.0	3.4	2.9	1.9	1.4	1.4	1.9	1.9	2.4	2.9
147.5°	4.0	4.0	3.4	2.4	1.4	1.0	1.0	1.4	1.4	1.9	2.4
150°	2.9	2.9	2.9	1.9	1.0	0.0	1.0	1.0	1.0	1.9	1.9
152.5°	1.9	1.9	1.4	1.0	0.4	0.4	0.4	1.0	1.0	1.0	1.4
155°	1.0	1.0	1.0	0.4	0.4	0.0	0.0	0.4	0.4	1.0	1.0
157.5°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
162.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4
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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	11.3	10.7	10.7	10.7	11.3	11.3	11.3	10.7	10.3	10.3	10.3
5°	10.3	9.9	9.9	9.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3
7.5°	11.3	10.3	10.3	9.9	9.9	10.3	11.3	16.6	28.9	40.7	47.4
10°	15.7	15.7	13.6	12.7	12.7	18.6	69.0	74.9	74.9	70.9	68.5
12.5°	141.8	112.0	98.8	34.8	28.4	57.7	66.0	62.2	86.1	100.3	106.1
15°	102.7	112.5	121.3	109.0	147.2	61.6	99.8	121.3	163.4	165.3	166.8
17.5°	172.6	186.4	134.5	117.4	137.4	182.5	149.1	154.6	154.6	154.6	155.0
20°	243.1	247.5	258.3	247.0	137.8	192.2	191.2	155.5	175.2	218.2	230.3
22.5°	258.3	267.0	254.3	246.5	291.5	179.5	197.6	247.5	250.4	238.7	244.5
25°	438.2	425.6	373.6	263.1	291.0	250.9	255.3	231.8	238.1	231.3	235.8
27.5°	434.9	428.0	386.4	379.5	305.7	296.8	237.2	267.5	284.2	294.9	293.0
30°	607.5	567.4	447.5	391.8	361.0	284.2	260.7	253.4	251.4	264.1	265.1
32.5°	610.4	604.5	515.4	506.8	371.3	287.6	246.1	231.3	264.1	281.8	278.8
35°	708.2	678.0	589.4	546.9	426.5	270.5	219.6	231.3	236.8	249.4	249.0
37.5°	795.7	786.4	714.1	604.1	410.9	246.5	248.0	246.5	240.2	242.1	242.1
40°	912.2	860.9	796.3	657.4	384.5	264.1	267.5	232.8	226.5	223.0	223.0
42.5°	1050.6	963.5	903.9	683.3	365.4	311.1	253.4	227.5	221.0	211.3	209.8
45°	1214.0	1105.9	1016.3	691.6	306.7	322.4	263.1	258.7	237.7	228.9	225.5
47.5°	1357.3	1270.2	1146.0	705.3	355.5	307.7	346.3	293.9	229.5	242.1	240.2
50°	1572.5	1460.5	1237.0	670.6	380.0	298.9	360.0	257.3	236.2	253.4	252.4
52.5°	1762.8	1656.2	1332.3	618.2	359.5	413.3	319.4	294.9	273.9	265.1	264.1
55°	1961.9	1855.2	1396.9	591.8	355.1	330.6	332.1	319.4	247.5	266.6	266.0
57.5°	2190.7	2131.9	1537.3	580.6	364.0	292.0	332.1	267.0	282.2	266.6	269.6
60°	2313.0	2313.0	1619.0	569.4	336.0	299.8	285.1	293.5	245.1	248.0	255.7
62°	2415.7	2443.1	1693.7	539.5	335.0	251.4	280.2	259.3	239.8	254.3	264.1
62.5°	2450.4	2471.5	1716.3	533.6	343.4	238.1	259.7	258.7	248.4	250.4	259.3
65°	2484.2	2581.5	1770.1	496.5	316.0	225.0	222.1	245.5	215.2	206.0	206.4
67.5°	2451.9	2585.9	1752.0	399.6	256.3	193.2	196.1	205.0	194.2	190.7	192.8
70°	2334.0	2388.3	1567.6	329.6	221.0	177.1	188.3	181.0	178.0	177.5	177.1
72.5°	2172.6	2069.4	1231.2	248.0	190.2	153.6	161.3	166.8	167.7	165.3	162.4
75°	1832.8	1625.3	803.2	185.8	152.1	130.1	147.2	151.7	155.5	148.7	146.3
77.5°	1258.0	1024.7	415.7	147.7	131.5	109.0	129.2	135.9	139.9	129.6	131.1
80°	584.0	467.6	192.2	120.8	109.0	90.4	109.6	118.3	123.8	110.1	105.1
82.5°	197.1	180.0	116.0	93.4	89.5	69.0	88.5	98.8	100.3	91.4	77.8
85°	117.4	117.9	81.2	71.9	66.0	43.0	63.6	77.8	77.8	64.6	52.8
87.5°	67.5	75.8	62.2	54.7	49.3	29.4	47.4	53.3	52.3	41.1	29.4
90°	33.8	39.7	36.7	36.2	37.1	18.6	37.1	40.1	40.1	28.4	18.1
92.5°	24.9	30.4	32.8	30.8	31.3	14.2	29.8	30.4	29.8	22.0	14.2
95°	21.0	26.4	32.8	30.8	29.8	11.7	27.5	27.9	28.4	21.6	15.7
97.5°	16.6	20.1	25.4	24.9	26.9	9.9	24.9	24.9	23.9	17.6	13.2
100°	15.2	17.6	21.6	21.6	23.5	8.8	22.0	20.1	19.1	14.2	12.2
102.5°	12.7	14.2	16.6	16.2	17.6	8.3	16.2	15.7	14.6	12.2	11.7
105°	12.2	12.7	12.7	11.7	12.2	7.8	11.3	10.7	10.3	10.3	10.7
107.5°	11.7	11.7	10.7	9.9	9.9	7.3	8.3	7.8	8.3	10.7	11.3



REPORT NUMBER: P241119

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.7	11.7	9.9	8.8	7.8	6.9	7.3	6.3	7.3	10.7	11.7
112.5°	11.7	11.7	8.8	7.3	7.3	6.3	6.3	5.9	6.9	10.7	11.7
115°	11.3	11.3	8.3	6.9	6.3	5.9	5.9	5.4	6.9	10.7	11.7
117.5°	11.3	11.3	8.3	6.9	5.9	5.4	5.4	4.9	6.9	11.3	11.7
120°	11.3	11.3	8.3	6.3	5.9	5.4	4.9	4.9	6.9	10.7	11.7
122.5°	10.7	10.3	7.8	5.9	5.4	4.9	4.9	4.9	6.9	11.3	11.7
125°	10.3	9.9	7.8	5.9	4.9	4.9	4.4	4.4	6.9	10.7	11.3
127.5°	9.9	9.9	7.3	5.4	4.9	4.4	4.4	4.4	6.9	11.3	11.3
130°	9.3	8.8	6.9	4.9	4.4	4.0	4.0	4.4	7.3	10.3	10.7
132.5°	8.3	7.8	6.3	4.4	4.0	4.0	4.0	4.0	6.9	10.3	10.3
135°	6.9	6.9	5.4	4.0	3.4	3.4	3.4	4.0	6.3	8.8	9.3
137.5°	6.3	5.9	4.9	4.0	2.9	3.4	3.4	4.0	6.3	8.3	8.8
140°	5.4	4.9	4.0	2.9	2.9	2.9	2.9	3.4	5.4	7.3	7.8
142.5°	4.0	4.0	3.4	2.4	2.4	2.4	2.4	3.4	4.9	6.3	6.3
145°	3.4	3.4	2.9	2.4	1.9	1.4	1.4	2.4	4.0	5.4	5.4
147.5°	2.4	2.4	2.4	1.9	1.4	1.4	1.4	1.9	2.9	4.0	4.0
150°	1.9	1.9	1.9	1.4	1.4	1.0	1.0	1.4	2.4	2.9	2.9
152.5°	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.4	1.9	1.9
155°	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4	1.0	1.0
157.5°	0.4	0.4	0.4	1.0	1.0	1.0	0.4	0.4	0.0	0.0	0.0
160°	0.4	0.4	0.4	1.0	1.0	1.0	0.4	0.4	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	1.0	1.0	0.4	0.4	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)