

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: P266374

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266374
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-AF24-50-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 4574.7 lumens
Efficiency: N/A
Efficacy: 84.7 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): 54
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

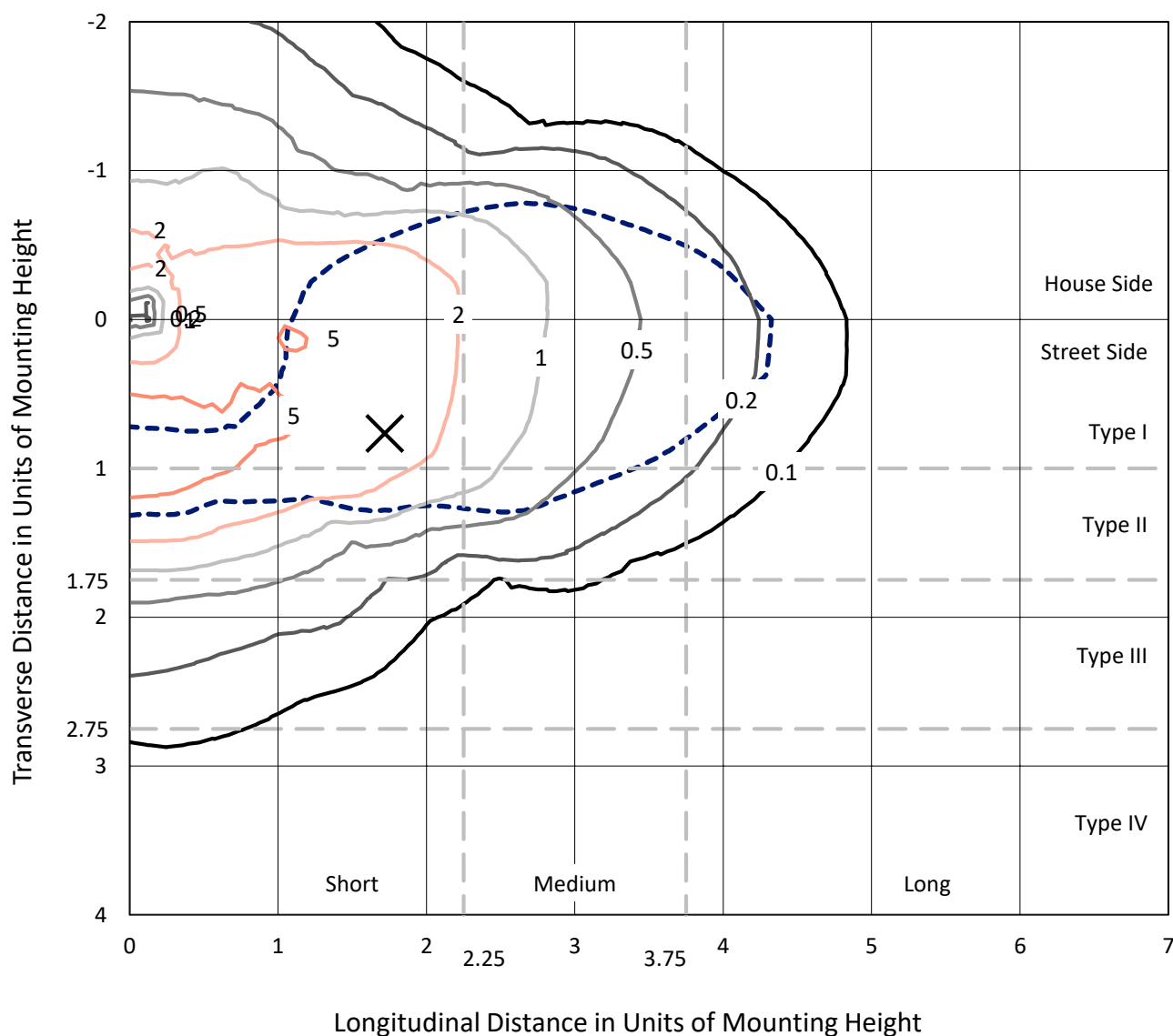


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

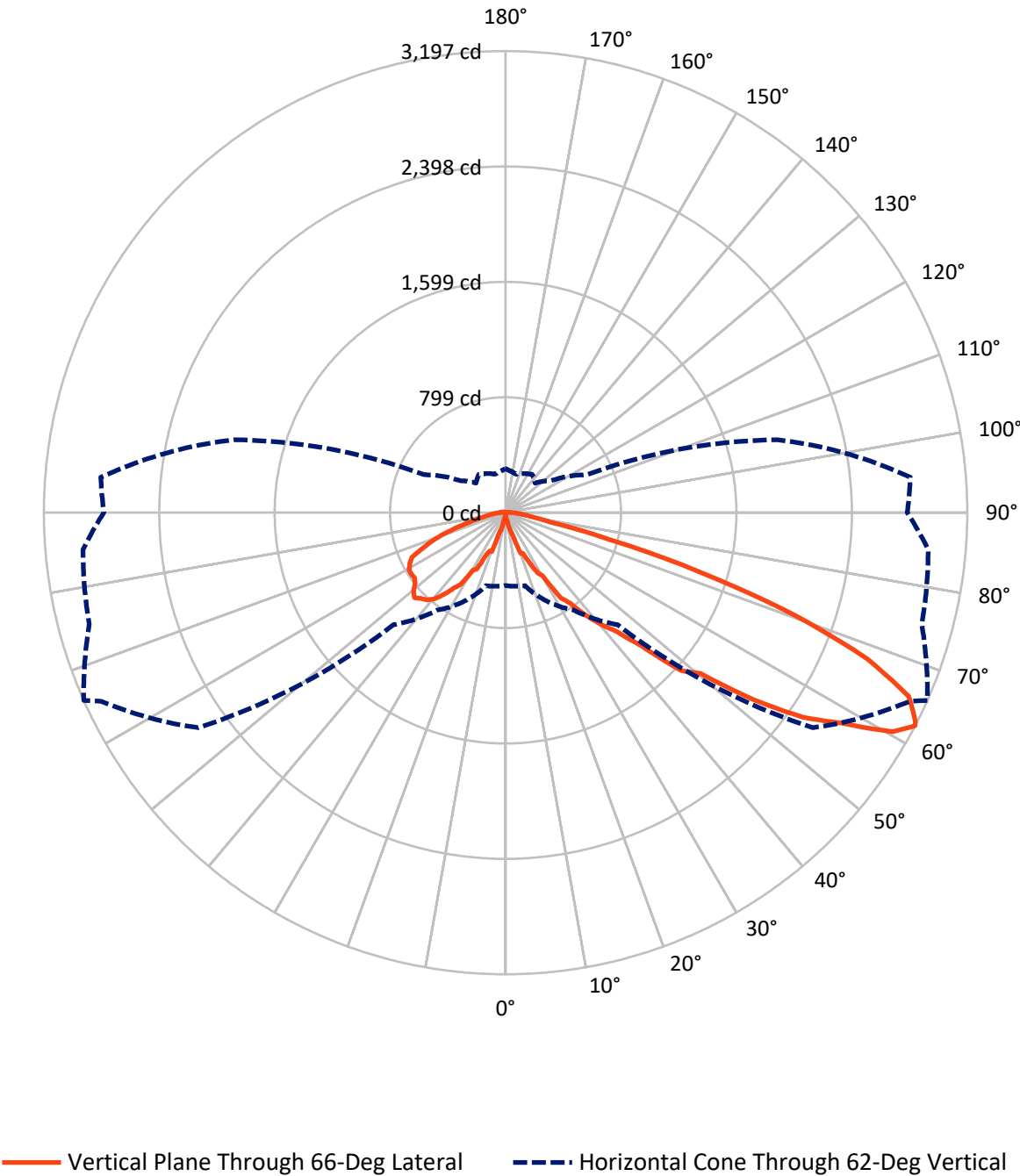


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff



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Luminous Intensity Polar Plot



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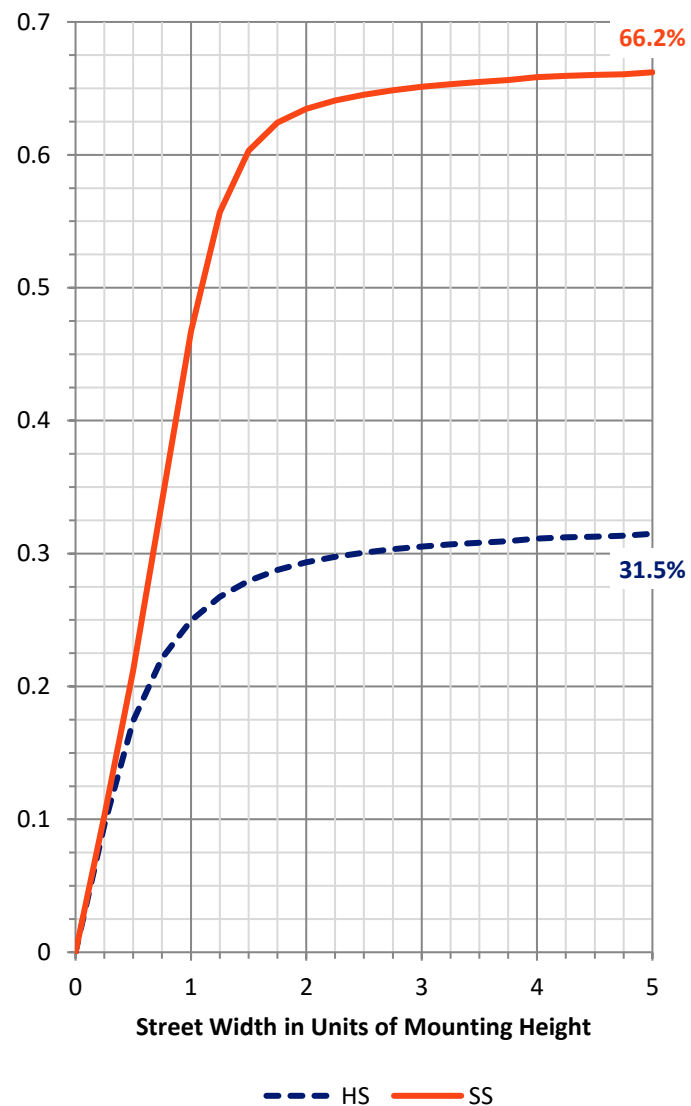
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.4	35.0	1502.4
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3046.6	25.7	3072.3
	% Fixture	66.6	0.6	67.2
Total	Lumens	4514.0	60.7	4574.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.1
10°-20°	46.4	1.0
20°-30°	183.9	4.0
30°-40°	458.2	10.0
40°-50°	873.8	19.1
50°-60°	1191.7	26.0
60°-70°	1094.7	23.9
70°-80°	558.4	12.2
80°-90°	102.7	2.2
90°-100°	27.2	0.6
100°-110°	13.1	0.3
110°-120°	7.9	0.2
120°-130°	6.1	0.1
130°-140°	4.1	0.1
140°-150°	2.0	0.0
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4514.0	98.7
0°-180°	4574.7	100.0

Coefficient of Utilization



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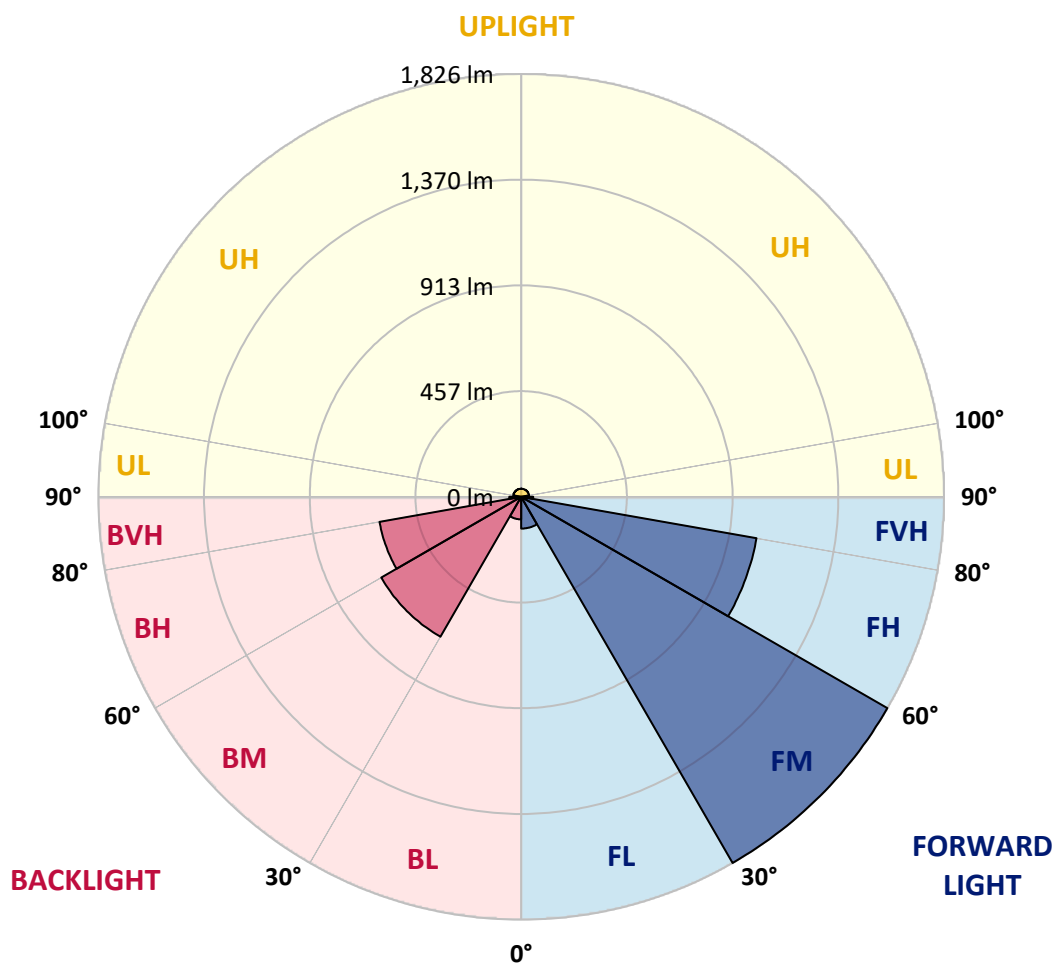
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.1	3.0			
FM	(30°-60°)	1826.0	39.9			
FH	(60°-80°)	1031.9	22.6			G1/1800
FVH	(80°-90°)	51.5	1.1			G1/100
BL	(0°-30°)	97.3	2.1	B0/110		
BM	(30°-60°)	697.7	15.3	B1/1000		
BH	(60°-80°)	621.3	13.6	B2/1000		G2/1000
BVH	(80°-90°)	51.2	1.1			G1/100
UL	(90°-100°)	27.2	0.6		U2/50	
UH	(100°-180°)	35.0	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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	57.0	54.1	40.6	35.6	29.9	24.3	18.5	15.8	15.2	14.1	12.9
5°	57.0	57.0	58.6	62.0	68.7	62.5	65.8	23.6	22.5	15.2	12.3
7.5°	108.8	105.9	132.9	94.1	59.2	55.2	83.9	51.3	51.3	23.6	14.1
10°	147.1	146.5	179.8	115.0	105.9	128.4	57.0	58.6	58.6	40.6	19.8
12.5°	144.2	143.1	145.3	158.3	132.9	112.6	114.4	74.9	93.6	147.6	151.5
15°	202.7	213.4	202.2	154.9	141.9	141.4	182.4	138.6	140.9	162.2	118.8
17.5°	270.4	271.5	295.7	251.2	197.6	208.9	193.1	193.8	171.2	179.8	201.1
20°	294.6	289.6	303.0	281.1	281.1	250.1	197.1	279.4	300.3	282.2	278.8
22.5°	505.7	503.5	440.4	308.1	318.8	292.3	298.4	325.5	305.9	287.3	282.2
25°	576.7	569.4	547.4	525.5	390.9	410.0	361.6	353.8	375.8	453.5	490.6
27.5°	767.2	775.5	662.4	591.4	527.1	441.0	413.4	508.0	471.4	496.3	490.6
30°	965.4	960.8	920.9	790.8	662.4	547.4	548.5	533.4	508.6	584.6	664.0
32.5°	1251.5	1266.2	1083.0	946.9	828.0	666.4	603.8	709.1	704.6	682.6	712.4
35°	1560.1	1557.9	1408.1	1183.3	895.5	753.6	721.5	784.0	768.8	735.1	790.1
37.5°	1756.1	1734.2	1632.2	1439.1	1094.9	858.9	870.2	915.8	900.6	856.2	958.0
40°	2040.1	2015.7	1894.2	1631.7	1365.2	1040.9	1104.5	1067.4	1017.8	1009.9	1022.8
42.5°	2144.3	2145.3	2026.4	1835.5	1600.2	1301.0	1334.3	1170.9	1120.8	1204.7	1176.6
45°	2177.0	2172.5	2089.5	1946.4	1752.8	1612.0	1506.1	1359.7	1308.9	1385.5	1416.0
47.5°	2105.4	2087.3	2100.9	1940.9	1913.8	1747.7	1725.7	1622.1	1633.4	1590.0	1661.5
50°	1913.3	1886.8	1922.4	1880.6	1996.0	1894.7	2150.5	1757.9	1751.7	1829.9	1918.9
52.5°	1615.3	1595.6	1710.6	1676.1	1978.1	2055.2	2235.0	2148.7	2154.3	2161.7	2113.3
55°	1323.7	1333.8	1421.6	1401.4	1717.3	2090.1	2517.1	2469.3	2501.9	2320.5	2321.1
57.5°	945.0	967.7	1125.8	1137.8	1431.2	1838.4	2743.6	2666.9	2750.8	2581.3	2619.0
60°	651.1	664.7	750.3	869.6	1074.1	1526.4	2623.0	3004.8	3080.8	2846.5	2844.8
62°	505.1	510.9	523.8	676.5	824.6	1097.2	2596.6	3089.9	3197.4	2984.0	2937.7
62.5°	468.6	474.8	483.3	613.9	760.3	997.5	2497.4	3108.4	3185.1	3001.4	2953.5
65°	375.1	377.9	358.8	408.3	537.4	595.8	1794.5	3021.2	3070.1	2980.0	2908.0
67.5°	347.6	337.4	311.0	297.3	402.1	384.1	976.6	2575.1	2701.8	2852.2	2777.3
70°	287.7	310.4	289.0	265.9	321.1	295.2	414.6	2084.0	2119.5	2611.2	2601.0
72.5°	220.3	236.6	253.4	250.6	247.3	237.7	275.4	1302.3	1406.3	2143.0	2408.4
75°	178.6	185.3	220.9	213.4	219.6	188.1	216.9	619.0	749.0	1516.8	2094.7
77.5°	143.5	148.1	171.8	165.6	181.9	147.1	173.0	280.5	317.7	871.9	1434.6
80°	95.2	97.5	125.0	123.8	132.9	130.2	130.7	196.5	198.9	407.8	750.9
82.5°	71.0	69.9	86.1	86.7	86.1	94.1	89.6	134.7	140.2	200.0	249.5
85°	46.3	44.5	51.3	54.6	52.5	51.8	67.6	94.6	98.5	142.6	148.7
87.5°	25.3	26.9	33.7	33.7	35.6	34.9	55.2	63.2	65.8	95.2	79.9
90°	16.9	16.9	18.5	18.1	19.1	18.5	28.7	37.2	37.6	47.9	42.8
92.5°	15.2	16.3	18.5	18.5	20.3	17.4	26.0	31.5	32.1	38.8	32.7
95°	13.6	14.1	15.8	16.3	17.4	12.3	19.8	26.0	26.5	32.1	26.5
97.5°	11.3	12.3	13.6	14.1	15.8	11.3	16.3	20.8	21.4	24.8	20.3
100°	11.3	11.9	11.9	11.9	13.6	9.6	14.1	18.1	18.5	20.3	16.9
102.5°	10.7	11.3	10.7	10.2	11.3	8.4	12.3	15.2	15.2	14.6	14.1
105°	10.7	10.7	9.1	7.8	9.6	7.8	10.7	11.3	11.3	11.3	12.9
107.5°	10.2	10.2	8.4	7.4	7.8	6.7	9.1	9.6	9.6	10.2	12.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	9.6	9.1	7.4	6.2	6.2	6.2	7.4	7.8	7.8	9.1	12.9
112.5°	8.4	8.4	6.2	5.6	5.6	5.6	6.7	7.4	7.4	8.4	12.3
115°	7.8	7.8	6.2	5.1	5.1	5.1	6.2	6.7	6.7	7.8	12.3
117.5°	8.4	7.8	5.6	5.1	4.5	4.5	5.1	6.2	6.2	7.8	12.3
120°	7.4	7.4	5.6	4.5	4.0	4.5	5.1	5.6	6.2	8.4	12.3
122.5°	7.8	7.4	5.6	4.0	4.0	4.0	4.5	5.6	5.6	7.8	11.3
125°	7.4	6.7	5.1	4.0	3.4	4.0	4.5	5.1	5.6	7.8	11.3
127.5°	7.4	6.7	5.1	4.0	3.4	3.4	4.5	5.1	5.1	7.4	10.7
130°	6.7	6.7	4.5	3.4	3.4	3.4	4.0	4.5	4.5	6.7	9.6
132.5°	6.2	5.6	4.5	3.4	2.9	3.4	4.0	4.0	4.0	6.2	9.1
135°	5.6	5.6	4.5	3.4	2.9	2.9	3.4	4.0	4.0	5.6	7.8
137.5°	5.1	5.1	4.5	3.4	2.9	2.9	2.9	3.4	3.4	5.1	6.7
140°	5.1	5.1	4.5	3.4	2.9	2.9	2.9	2.9	2.9	4.0	5.6
142.5°	5.1	5.1	4.5	3.4	2.9	2.2	2.2	2.2	2.2	3.4	4.5
145°	4.5	4.5	4.0	3.4	2.2	1.6	1.6	2.2	2.2	2.9	3.4
147.5°	4.5	4.5	4.0	2.9	1.6	1.1	1.1	1.6	1.6	2.2	2.9
150°	3.4	3.4	3.4	2.2	1.1	0.0	1.1	1.1	1.1	2.2	2.2
152.5°	2.2	2.2	1.6	1.1	0.5	0.5	0.5	1.1	1.1	1.1	1.6
155°	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.5	0.5	1.1	1.1
157.5°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
162.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5
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°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	12.9	12.3	12.3	12.3	12.9	12.9	12.9	12.3	11.9	11.9	11.9
5°	11.9	11.3	11.3	11.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9
7.5°	12.9	11.9	11.9	11.3	11.3	11.9	12.9	19.1	33.2	46.7	54.6
10°	18.1	18.1	15.8	14.6	14.6	21.4	79.4	86.1	86.1	81.7	78.8
12.5°	163.3	128.9	113.7	40.0	32.7	66.5	76.0	71.5	99.2	115.4	122.2
15°	118.2	129.5	139.6	125.7	169.5	71.0	115.0	139.6	188.1	190.4	192.1
17.5°	198.9	214.5	154.9	135.1	158.3	210.1	171.8	178.0	178.0	178.0	178.6
20°	279.9	285.0	297.3	284.5	158.8	221.3	220.3	179.1	201.6	251.2	265.3
22.5°	297.3	307.5	292.8	283.9	335.6	206.7	227.5	285.0	288.4	274.8	281.6
25°	504.7	490.0	430.3	303.0	335.1	289.0	294.0	266.9	274.3	266.3	271.5
27.5°	500.7	492.8	444.9	437.0	352.0	341.9	273.2	308.1	327.3	339.6	337.4
30°	699.5	653.3	515.4	451.2	415.6	327.3	300.3	291.8	289.6	304.2	305.2
32.5°	703.0	696.1	593.6	583.4	427.6	331.1	283.2	266.3	304.2	324.4	321.1
35°	815.5	780.6	678.7	629.7	491.2	311.4	253.0	266.3	272.5	287.3	286.6
37.5°	916.5	905.8	822.3	695.6	473.0	283.9	285.5	283.9	276.6	278.8	278.8
40°	1050.4	991.3	916.9	757.0	442.8	304.2	308.1	268.1	260.8	256.8	256.8
42.5°	1209.7	1109.5	1040.9	786.8	420.8	358.2	291.8	261.9	254.6	243.4	241.6
45°	1397.9	1273.4	1170.4	796.3	353.2	371.2	303.0	298.0	273.8	263.7	259.6
47.5°	1563.1	1462.7	1319.6	812.2	409.4	354.3	398.8	338.5	264.1	278.8	276.6
50°	1810.8	1681.7	1424.4	772.3	437.7	344.1	414.6	296.3	272.0	291.8	290.6
52.5°	2029.9	1907.1	1534.2	711.9	413.9	475.9	367.8	339.6	315.5	305.2	304.2
55°	2259.1	2136.3	1608.5	681.5	408.9	380.7	382.4	367.8	285.0	307.0	306.4
57.5°	2522.7	2455.1	1770.2	668.6	419.0	336.2	382.4	307.5	324.9	307.0	310.4
60°	2663.6	2663.6	1864.3	655.7	386.9	345.3	328.4	337.9	282.2	285.5	294.6
62°	2781.8	2813.3	1950.5	621.3	385.8	289.6	322.8	298.4	276.0	292.8	304.2
62.5°	2821.8	2846.0	1976.5	614.5	395.3	274.3	299.0	298.0	286.1	288.4	298.4
65°	2860.7	2972.8	2038.3	571.7	363.9	259.2	255.7	282.7	247.8	237.2	237.7
67.5°	2823.5	2977.8	2017.6	460.1	295.2	222.5	225.8	236.0	223.6	219.6	221.9
70°	2687.6	2750.3	1805.1	379.7	254.6	203.8	216.9	208.3	205.1	204.5	203.8
72.5°	2501.9	2383.1	1417.6	285.5	219.0	176.8	185.9	192.1	193.1	190.4	186.9
75°	2110.4	1871.6	924.9	214.1	175.2	149.7	169.5	174.6	179.1	171.2	168.4
77.5°	1448.6	1180.0	478.7	170.0	151.5	125.7	148.7	156.6	161.1	149.3	150.9
80°	672.6	538.4	221.3	139.1	125.7	104.3	126.1	136.4	142.6	126.8	121.1
82.5°	227.0	207.2	133.5	107.5	103.0	79.4	102.0	113.7	115.4	105.3	89.6
85°	135.1	135.7	93.6	82.9	76.0	49.5	73.2	89.6	89.6	74.3	60.8
87.5°	77.8	87.2	71.5	63.2	57.0	33.7	54.6	61.4	60.2	47.3	33.7
90°	38.8	45.6	42.2	41.7	42.8	21.4	42.8	46.3	46.3	32.7	20.8
92.5°	28.7	34.9	37.6	35.6	36.0	16.3	34.3	34.9	34.3	25.3	16.3
95°	24.3	30.5	37.6	35.6	34.3	13.6	31.5	32.1	32.7	24.8	18.1
97.5°	19.1	23.0	29.3	28.7	31.0	11.3	28.7	28.7	27.6	20.3	15.2
100°	17.4	20.3	24.8	24.8	26.9	10.2	25.3	23.0	22.0	16.3	14.1
102.5°	14.6	16.3	19.1	18.5	20.3	9.6	18.5	18.1	16.9	14.1	13.6
105°	14.1	14.6	14.6	13.6	14.1	9.1	12.9	12.3	11.9	11.9	12.3
107.5°	13.6	13.6	12.3	11.3	11.3	8.4	9.6	9.1	9.6	12.3	12.9



REPORT NUMBER: P266374

CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.6	13.6	11.3	10.2	9.1	7.8	8.4	7.4	8.4	12.3	13.6
112.5°	13.6	13.6	10.2	8.4	8.4	7.4	7.4	6.7	7.8	12.3	13.6
115°	12.9	12.9	9.6	7.8	7.4	6.7	6.7	6.2	7.8	12.3	13.6
117.5°	12.9	12.9	9.6	7.8	6.7	6.2	6.2	5.6	7.8	12.9	13.6
120°	12.9	12.9	9.6	7.4	6.7	6.2	5.6	5.6	7.8	12.3	13.6
122.5°	12.3	11.9	9.1	6.7	6.2	5.6	5.6	5.6	7.8	12.9	13.6
125°	11.9	11.3	9.1	6.7	5.6	5.6	5.1	5.1	7.8	12.3	12.9
127.5°	11.3	11.3	8.4	6.2	5.6	5.1	5.1	5.1	7.8	12.9	12.9
130°	10.7	10.2	7.8	5.6	5.1	4.5	4.5	5.1	8.4	11.9	12.3
132.5°	9.6	9.1	7.4	5.1	4.5	4.5	4.5	4.5	7.8	11.9	11.9
135°	7.8	7.8	6.2	4.5	4.0	4.0	4.0	4.5	7.4	10.2	10.7
137.5°	7.4	6.7	5.6	4.5	3.4	4.0	4.0	4.5	7.4	9.6	10.2
140°	6.2	5.6	4.5	3.4	3.4	3.4	3.4	4.0	6.2	8.4	9.1
142.5°	4.5	4.5	4.0	2.9	2.9	2.9	2.9	4.0	5.6	7.4	7.4
145°	4.0	4.0	3.4	2.9	2.2	1.6	1.6	2.9	4.5	6.2	6.2
147.5°	2.9	2.9	2.9	2.2	1.6	1.6	1.6	2.2	3.4	4.5	4.5
150°	2.2	2.2	2.2	1.6	1.6	1.1	1.1	1.6	2.9	3.4	3.4
152.5°	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.6	2.2	2.2
155°	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	1.1	1.1
157.5°	0.5	0.5	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0
160°	0.5	0.5	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	1.1	1.1	0.5	0.5	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)