

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: P239878

Luminaire Tested: **UTLD-AF24-50-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4215 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - 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

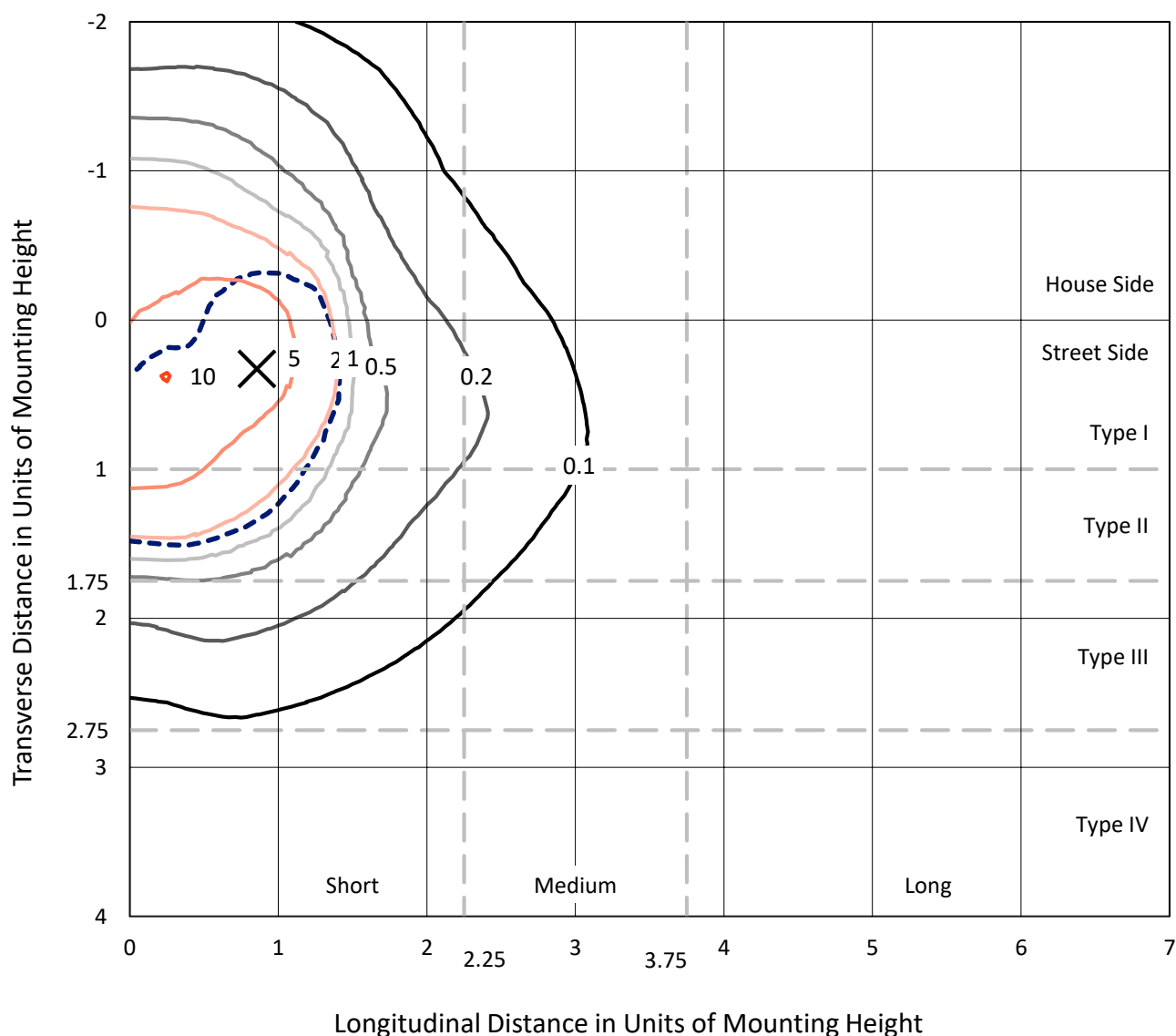


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

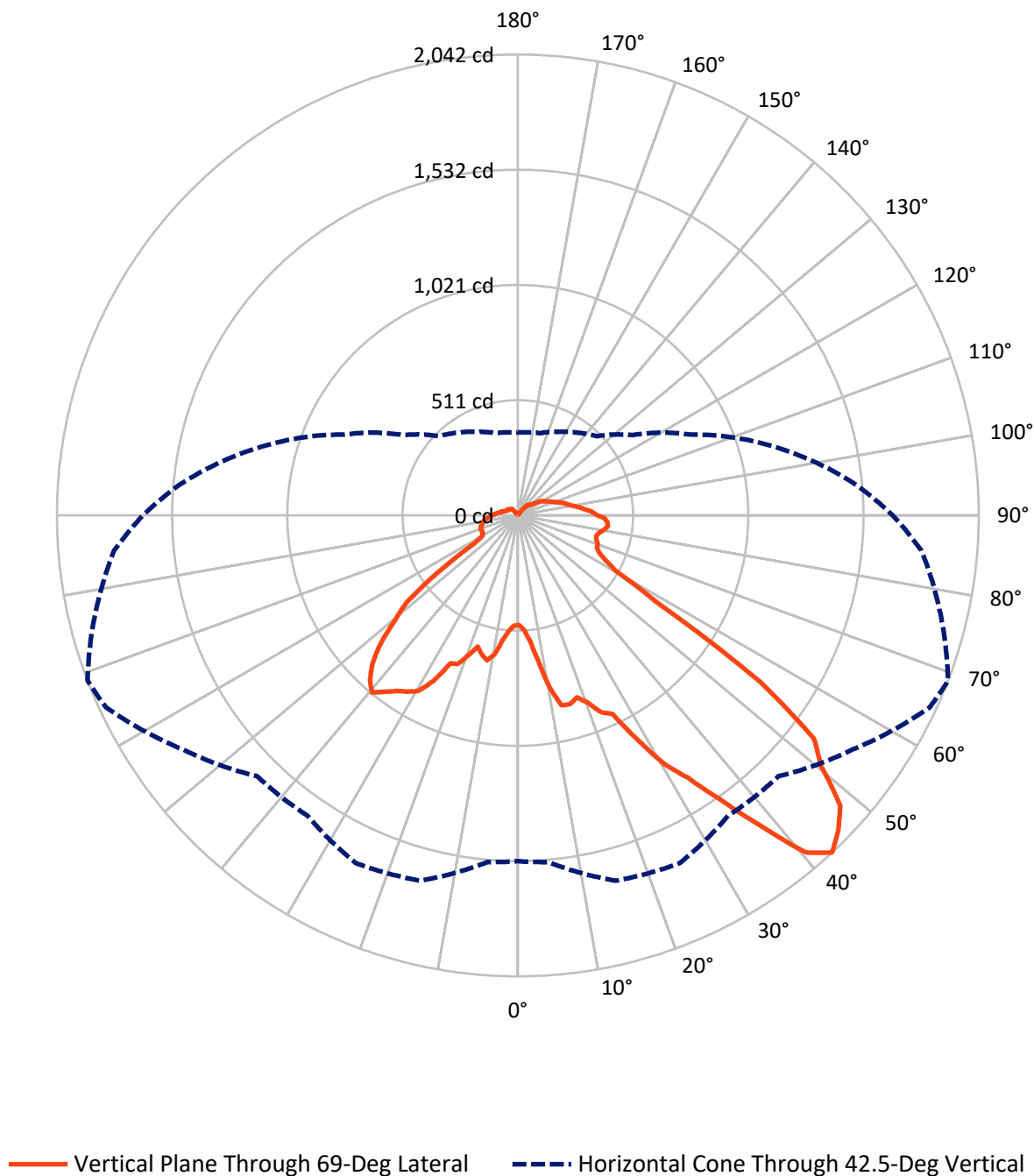


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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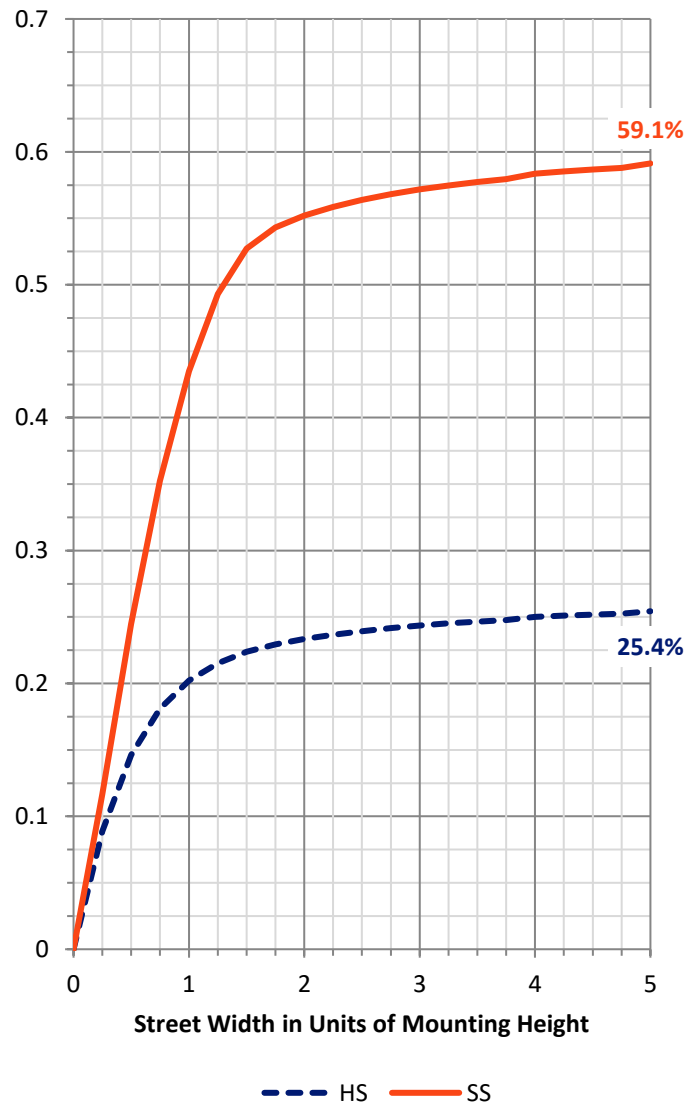
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.6	133.8	1244.4
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2573.5	397.1	2970.6
	% Fixture	61.1	9.4	70.5
Total	Lumens	3684.1	530.9	4215.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.3
10°-20°	202.8	4.8
20°-30°	414.7	9.8
30°-40°	697.6	16.5
40°-50°	923.4	21.9
50°-60°	665.9	15.8
60°-70°	261.6	6.2
70°-80°	235.7	5.6
80°-90°	229.7	5.4
90°-100°	193.7	4.6
100°-110°	137.7	3.3
110°-120°	92.8	2.2
120°-130°	60.7	1.4
130°-140°	36.3	0.9
140°-150°	9.2	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3684.1	87.4
0°-180°	4215.0	100.0

Coefficient of Utilization



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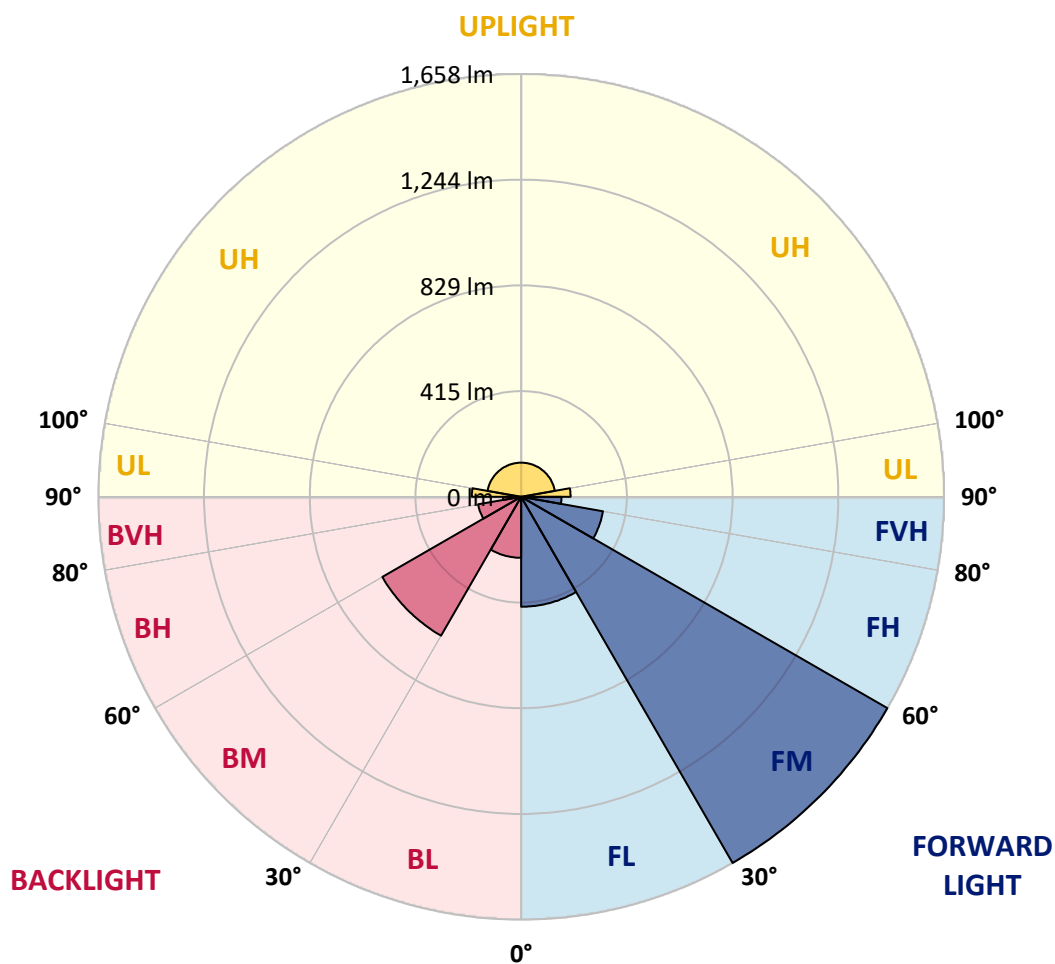
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.1	10.2			
FM	(30°-60°)	1658.2	39.3			
FH	(60°-80°)	325.9	7.7			G0/660
FVH	(80°-90°)	158.3	3.8			G2/225
BL	(0°-30°)	239.2	5.7	B1/500		
BM	(30°-60°)	628.6	14.9	B1/1000		
BH	(60°-80°)	171.3	4.1	B1/500		G1/500
BVH	(80°-90°)	71.4	1.7			G1/100
UL	(90°-100°)	193.7	4.6		U3/500	
UH	(100°-180°)	133.8	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0
2.5°	516.6	513.7	512.6	512.6	510.8	510.3	511.4	509.7	506.8	506.2	502.8
5°	552.7	551.6	551.0	555.6	559.6	560.8	559.6	559.6	556.2	556.2	545.3
7.5°	610.7	609.0	613.6	625.0	629.1	641.1	655.5	646.9	649.2	642.8	622.2
10°	677.9	675.0	696.2	711.7	747.3	762.2	780.6	778.9	775.4	764.5	730.1
12.5°	738.7	737.0	764.5	820.8	868.4	916.6	920.6	881.0	863.2	824.2	781.2
15°	814.5	816.2	858.1	937.9	1008.5	1028.0	979.2	901.1	867.8	827.7	763.9
17.5°	936.7	942.4	1013.6	1104.3	1151.4	1072.7	968.3	878.7	847.2	803.6	742.1
20°	1007.9	1011.3	1108.9	1231.7	1245.5	1118.1	1009.6	913.2	885.6	851.2	800.7
22.5°	1050.4	1063.0	1174.9	1325.3	1317.2	1223.7	1073.3	982.1	947.6	900.6	859.2
25°	1118.7	1127.8	1235.2	1380.4	1344.8	1258.1	1130.1	1008.5	974.6	940.2	898.8
27.5°	1211.1	1219.7	1340.2	1424.0	1386.7	1304.0	1215.1	1137.0	1119.2	1113.5	1095.7
30°	1260.4	1266.2	1401.6	1472.2	1408.5	1370.1	1345.4	1282.8	1277.6	1266.2	1225.4
32.5°	1288.6	1310.4	1467.6	1508.4	1425.2	1420.6	1435.5	1397.0	1386.7	1367.2	1320.1
35°	1313.8	1324.7	1472.8	1534.8	1452.1	1449.8	1552.6	1570.4	1547.4	1507.2	1394.7
37.5°	1508.4	1513.5	1615.1	1593.3	1487.7	1500.3	1669.7	1762.1	1741.4	1691.5	1614.0
40°	1614.0	1623.2	1717.3	1672.0	1562.9	1577.3	1754.0	1945.7	1964.1	1962.4	1894.7
42.5°	1531.9	1541.7	1675.4	1699.5	1624.3	1634.1	1809.1	2012.9	2042.2	1952.1	1795.9
45°	1799.4	1806.8	1882.0	1705.8	1582.4	1619.7	1766.1	1964.1	1990.5	1964.1	1830.4
47.5°	1798.8	1789.6	1852.2	1723.6	1579.6	1554.3	1672.5	1870.6	1922.8	1862.5	1717.3
50°	1581.3	1580.7	1735.1	1661.1	1548.6	1490.0	1569.8	1726.5	1739.1	1668.5	1473.9
52.5°	1381.0	1379.8	1558.3	1520.4	1447.0	1389.6	1438.9	1595.0	1643.3	1581.3	1418.8
55°	1203.6	1253.0	1409.7	1328.7	1298.3	1241.5	1290.8	1329.3	1304.6	1132.4	763.9
57.5°	728.9	783.5	987.8	1046.3	1053.2	1012.5	900.6	769.1	722.0	576.8	344.4
60°	339.8	353.0	518.3	630.8	769.7	703.7	569.4	495.9	495.9	435.6	299.0
62.5°	239.3	248.5	340.4	406.9	460.9	454.6	404.1	414.4	435.1	408.1	288.1
65°	225.0	230.7	303.1	323.1	343.8	347.8	340.9	372.5	394.3	390.9	292.1
67.5°	208.9	216.4	276.7	289.9	305.9	313.4	318.6	355.3	378.2	390.9	303.6
70°	190.0	198.6	255.4	273.8	289.3	306.5	312.8	352.4	375.9	388.6	307.6
72.5°	172.2	179.7	227.3	250.2	277.8	297.9	323.1	347.2	363.3	376.5	309.9
75°	155.0	163.6	203.8	230.2	262.3	300.2	330.6	348.4	359.3	369.6	307.1
77.5°	143.5	152.7	184.2	214.7	253.1	305.3	339.8	362.7	369.1	370.8	303.6
80°	133.2	143.5	176.8	208.9	250.8	307.6	350.7	378.2	386.9	390.9	323.1
82.5°	140.6	149.8	178.5	217.5	258.3	307.1	347.8	391.4	401.2	398.9	329.5
85°	159.0	166.4	201.5	238.2	269.8	301.9	337.5	385.1	398.9	411.0	349.0
87.5°	193.4	196.9	222.1	256.0	281.8	292.1	327.7	372.5	385.1	389.1	339.8
90°	211.8	215.2	245.1	273.2	281.2	284.7	292.1	336.9	346.1	362.2	324.9
92.5°	233.0	233.0	264.0	280.7	280.7	266.3	271.5	311.7	327.2	336.3	301.9
95°	253.7	252.5	269.8	279.5	264.6	244.5	253.1	284.7	294.4	304.2	280.7
97.5°	260.0	259.4	269.8	264.0	239.3	220.4	231.3	258.3	268.6	278.9	254.8
100°	253.1	250.2	253.1	240.5	217.5	203.2	209.5	231.9	242.8	251.4	229.6
102.5°	238.2	236.5	237.6	225.0	200.9	183.7	192.3	215.8	223.8	230.7	211.2
105°	231.3	228.4	223.3	204.9	181.4	169.3	176.8	200.3	207.8	221.6	205.5
107.5°	196.9	194.6	190.6	180.8	168.7	159.6	165.9	182.5	187.1	194.0	179.1
110°	169.9	168.7	167.6	165.3	157.8	151.5	155.0	164.2	169.9	175.1	160.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	164.2	162.4	161.3	157.3	147.5	140.6	142.9	153.2	156.7	158.4	142.3
115°	156.7	155.0	148.7	142.9	136.0	132.6	133.2	141.8	144.1	145.2	135.5
117.5°	138.9	137.2	133.2	130.9	126.8	125.1	128.0	132.6	133.2	133.7	125.1
120°	128.6	128.0	125.7	121.7	118.8	114.8	119.4	124.0	125.7	127.4	121.7
122.5°	117.1	115.9	113.6	108.5	108.5	106.2	105.6	108.5	109.1	113.6	110.8
125°	103.3	102.2	99.9	95.3	101.0	101.0	97.0	90.7	92.4	96.4	94.1
127.5°	92.4	91.3	89.0	86.7	94.7	97.6	90.7	79.2	80.4	81.5	79.8
130°	90.7	89.5	86.7	82.7	84.9	93.6	81.5	72.3	74.0	75.2	74.0
132.5°	89.0	88.4	84.4	79.2	76.3	84.4	70.6	68.3	70.0	71.7	70.6
135°	83.2	82.7	79.2	71.7	63.7	67.7	56.2	59.7	62.6	64.9	63.7
137.5°	74.0	73.5	70.6	63.1	52.2	48.8	43.0	51.1	53.4	56.2	56.2
140°	59.7	59.1	56.2	48.8	36.7	25.8	27.6	39.0	41.3	44.8	45.3
142.5°	43.6	42.5	39.6	32.7	20.7	8.6	15.5	23.5	26.4	29.8	32.1
145°	29.8	29.3	25.3	19.5	9.8	1.1	6.9	14.3	16.1	18.4	20.7
147.5°	18.9	18.9	16.1	10.9	2.9	1.1	1.7	7.5	9.2	11.5	13.2
150°	11.5	11.5	8.6	3.4	0.6	0.6	0.6	1.1	2.9	5.2	6.9
152.5°	2.9	2.9	1.7	1.1	0.6	0.0	0.6	0.6	0.6	0.6	1.1
155°	1.1	1.1	1.1	0.6	0.0	0.0	0.0	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.0	0.6	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°	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0
2.5°	501.1	497.6	493.0	486.7	480.4	474.1	467.8	464.3	462.6	461.5	460.9
5°	542.4	534.9	522.9	506.2	485.6	473.5	464.9	454.6	447.7	445.4	443.7
7.5°	615.3	603.2	579.1	543.5	518.3	482.7	452.3	432.8	418.4	410.4	410.4
10°	712.9	695.6	653.7	605.0	540.1	477.5	430.5	394.9	378.2	371.4	369.6
12.5°	755.9	739.3	689.9	633.1	564.2	491.3	431.6	389.1	369.1	361.0	362.2
15°	734.1	711.1	668.7	615.3	561.3	515.4	465.5	412.7	378.2	369.1	371.9
17.5°	712.3	688.8	643.4	584.3	531.5	501.1	466.1	430.5	397.8	384.6	382.3
20°	776.0	758.8	697.4	630.2	551.0	474.1	449.4	433.3	422.4	423.0	417.8
22.5°	836.8	813.3	757.1	678.4	592.9	525.8	485.6	464.3	452.3	457.4	458.0
25°	877.6	859.8	776.6	682.4	611.3	561.3	503.4	473.5	453.4	453.4	451.1
27.5°	1084.8	1040.6	908.6	764.5	658.3	575.7	505.7	471.2	446.0	438.5	439.7
30°	1193.3	1149.7	998.7	823.6	712.3	610.1	512.0	458.6	452.3	447.1	448.8
32.5°	1286.3	1222.0	1043.5	839.1	702.5	615.3	525.8	461.5	431.0	425.9	428.2
35°	1332.2	1260.4	1079.1	852.9	707.1	593.5	509.1	449.4	429.9	424.7	426.5
37.5°	1544.0	1436.6	1135.3	873.6	706.0	564.8	486.7	438.5	402.3	386.9	386.9
40°	1787.3	1629.5	1233.5	872.4	662.4	540.1	462.0	417.3	388.6	376.5	375.9
42.5°	1661.1	1510.7	1176.1	846.6	619.9	495.3	448.3	408.1	377.1	369.1	367.3
45°	1713.9	1553.1	1134.7	774.3	556.2	459.7	415.6	387.4	351.8	333.5	332.9
47.5°	1546.3	1417.1	1050.4	682.4	501.1	404.1	376.5	358.2	335.8	320.3	318.6
50°	1341.4	1211.1	883.9	605.0	427.0	358.2	339.2	330.0	307.6	289.9	291.0
52.5°	1281.7	1123.8	770.3	528.0	367.3	312.2	303.1	292.7	270.3	249.7	252.0
55°	635.4	526.3	468.4	410.4	308.2	271.5	267.5	261.2	238.8	221.0	221.6
57.5°	296.2	255.4	223.8	238.2	232.5	235.9	234.2	230.2	208.9	183.7	181.9
60°	265.2	227.3	190.0	180.2	191.1	206.1	204.9	192.3	165.3	135.5	132.0
62.5°	256.0	217.5	184.2	169.9	174.5	184.2	177.4	161.3	139.5	111.9	111.3
65°	260.6	219.8	183.7	165.9	169.3	173.3	163.6	152.1	138.9	120.0	120.0
67.5°	270.3	228.4	187.7	164.2	165.9	169.9	160.7	152.7	145.8	133.2	133.2
70°	273.2	232.5	190.0	164.7	163.0	166.4	160.1	152.7	148.7	138.3	137.8
72.5°	274.4	234.8	188.8	161.9	157.8	160.7	156.1	152.7	151.0	142.9	141.8
75°	269.2	232.5	183.1	155.5	151.5	152.7	151.5	151.0	153.2	148.1	146.4
77.5°	262.9	229.0	178.5	148.7	144.1	144.6	143.5	145.2	147.5	144.1	141.2
80°	276.1	238.8	179.1	143.5	134.9	132.0	132.6	134.3	137.2	129.7	125.7
82.5°	280.7	239.3	171.0	132.0	121.1	117.1	118.2	122.8	125.1	118.2	114.2
85°	297.9	250.2	165.3	121.7	109.1	105.0	106.2	109.1	107.9	99.9	96.4
87.5°	291.0	242.8	155.0	109.6	99.3	95.9	96.4	97.6	93.6	83.2	80.4
90°	281.2	234.2	143.5	96.4	87.8	86.7	85.5	83.8	76.9	66.0	63.1
92.5°	263.4	218.7	133.2	87.2	78.1	77.5	75.8	72.3	66.0	55.1	52.2
95°	248.5	204.9	123.4	79.8	70.0	67.7	67.7	64.3	57.4	48.2	47.1
97.5°	223.8	186.5	113.6	73.5	62.6	60.3	59.7	57.4	52.2	45.3	44.8
100°	202.6	168.7	103.3	66.6	56.2	54.0	52.8	51.7	47.6	43.6	43.6
102.5°	187.7	156.1	96.4	60.8	50.5	48.2	48.2	47.1	44.8	41.9	41.9
105°	183.7	153.2	93.6	55.7	44.8	43.6	44.2	44.2	42.5	40.8	40.8
107.5°	159.6	132.0	80.4	49.4	40.8	39.6	40.2	40.8	40.2	39.6	39.6
110°	142.3	120.0	74.6	46.5	38.5	36.7	36.7	36.7	36.7	37.3	37.9



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CATALOG NUMBER: UTLD-AF24-50-D-U-T3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	127.4	106.8	68.3	44.2	36.2	34.4	33.9	33.3	32.7	35.0	35.0
115°	121.7	103.9	66.6	43.0	34.4	32.7	31.0	29.8	28.7	30.4	31.0
117.5°	113.1	97.6	64.9	43.0	33.9	31.0	29.3	27.6	25.8	27.6	27.6
120°	110.8	97.0	66.0	43.6	32.7	28.7	27.0	24.7	23.5	25.3	25.8
122.5°	102.2	90.7	62.6	41.3	31.6	27.6	25.8	21.2	21.2	22.4	23.0
125°	86.7	76.9	54.0	37.3	29.8	27.6	25.3	18.9	19.5	20.7	20.7
127.5°	74.0	66.6	49.4	36.2	30.4	28.1	23.5	17.8	18.9	20.7	20.7
130°	70.0	63.7	49.9	37.9	31.6	28.7	19.5	15.5	18.4	20.1	20.1
132.5°	67.2	62.0	49.9	39.6	32.7	26.4	15.5	13.8	15.5	16.6	16.6
135°	60.8	57.4	47.6	37.9	29.8	20.7	12.6	12.1	14.3	15.5	15.5
137.5°	54.5	51.1	43.6	35.0	26.4	16.6	9.2	10.9	12.1	13.2	13.2
140°	44.8	42.5	36.2	28.7	19.5	9.2	6.9	8.6	10.3	11.5	11.5
142.5°	31.6	30.4	25.3	18.4	10.9	3.4	4.6	6.3	7.5	8.6	8.6
145°	20.7	19.5	16.1	11.5	4.6	1.1	2.9	4.0	5.7	6.3	6.3
147.5°	13.2	12.6	9.8	5.7	1.7	1.1	1.1	2.9	4.6	5.2	5.2
150°	6.3	5.7	4.0	1.7	1.1	0.6	0.6	1.1	2.9	3.4	3.4
152.5°	1.1	1.1	1.1	0.6	0.6	0.0	0.0	0.6	0.6	1.1	1.1
155°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.6	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	0.6	0.6	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)