

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: P266379

Luminaire Tested: **UTLD-AF24-50-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
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-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4136.9 lumens
Efficiency: N/A
Efficacy: 76.6 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



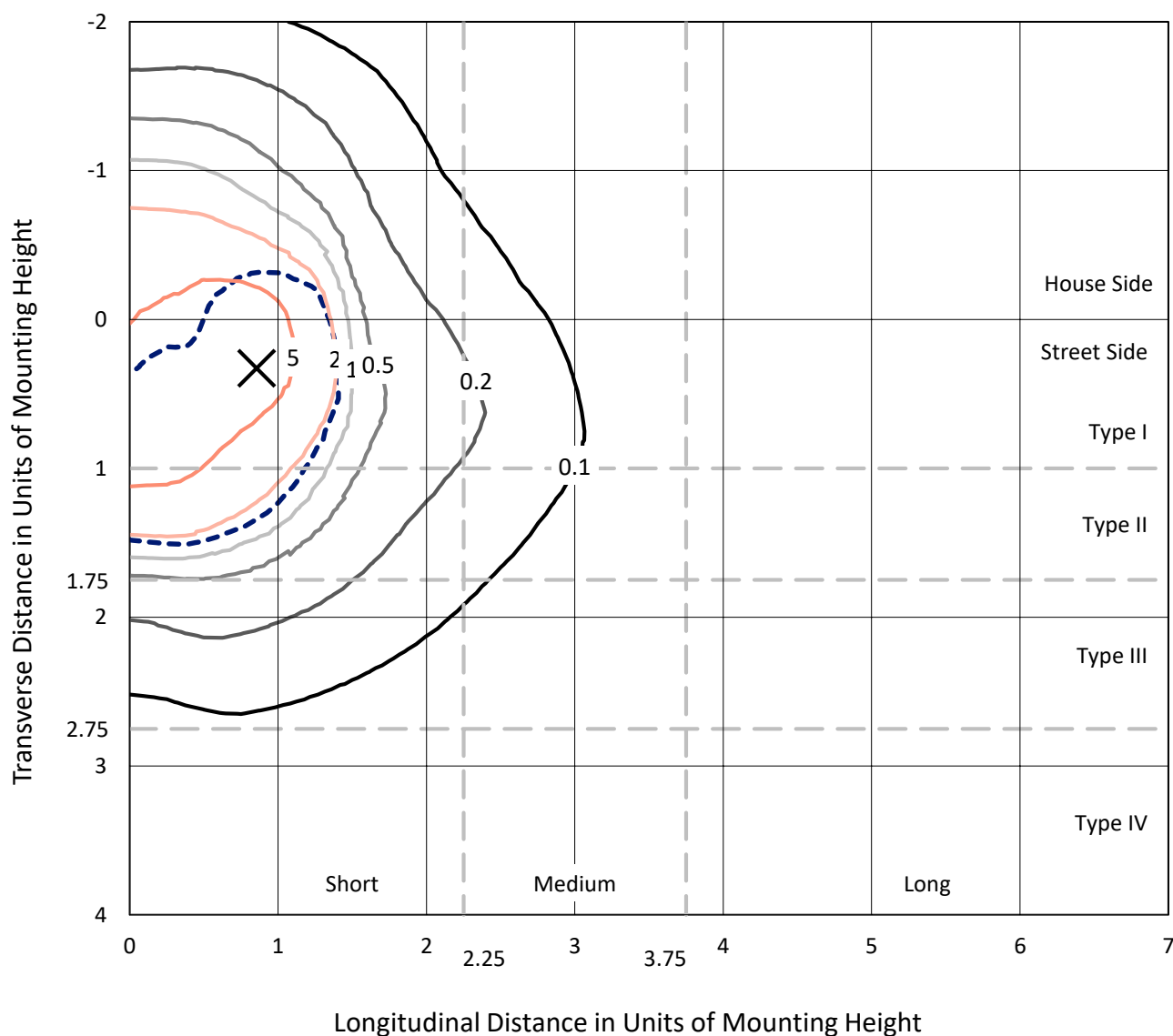
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

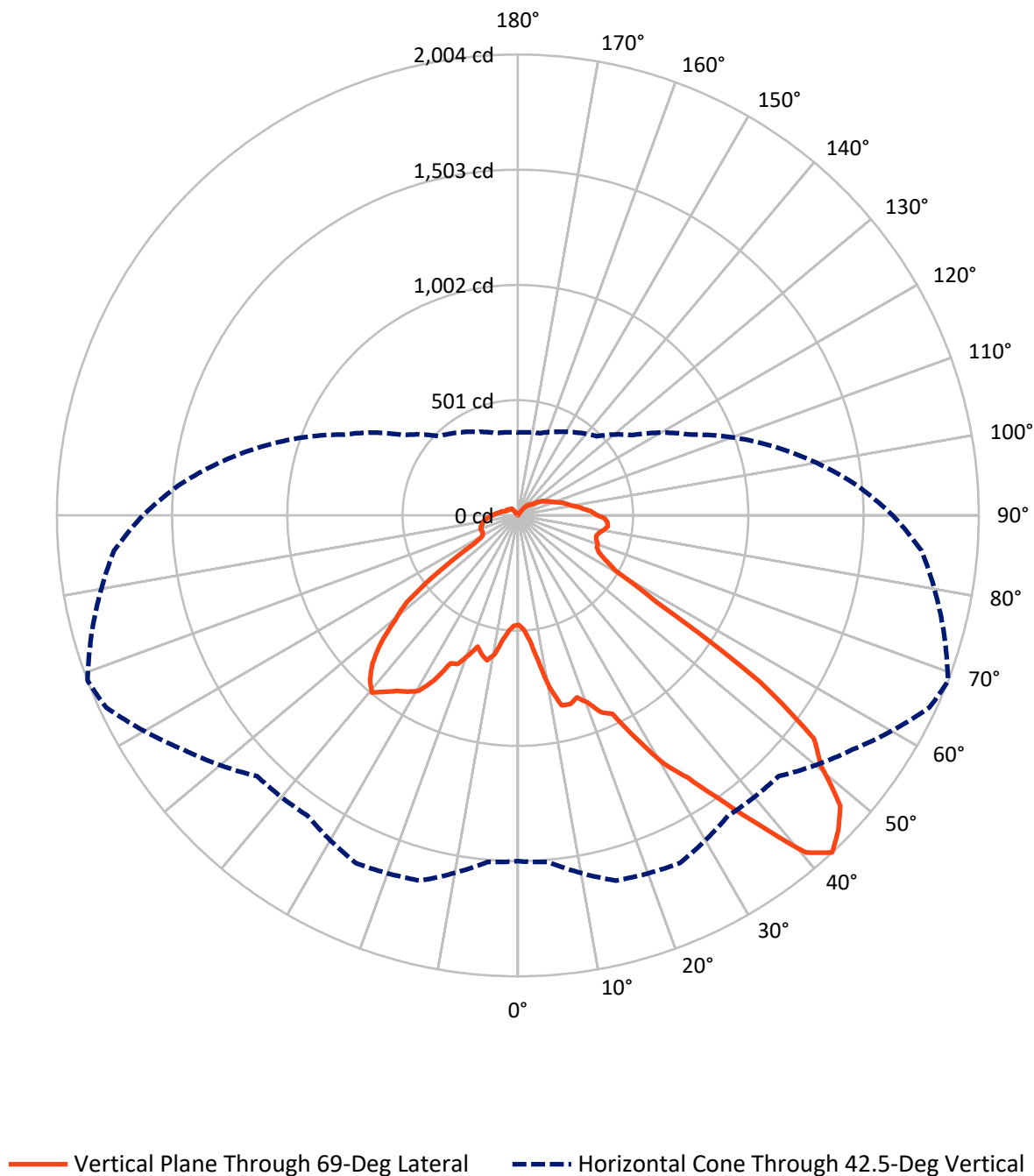


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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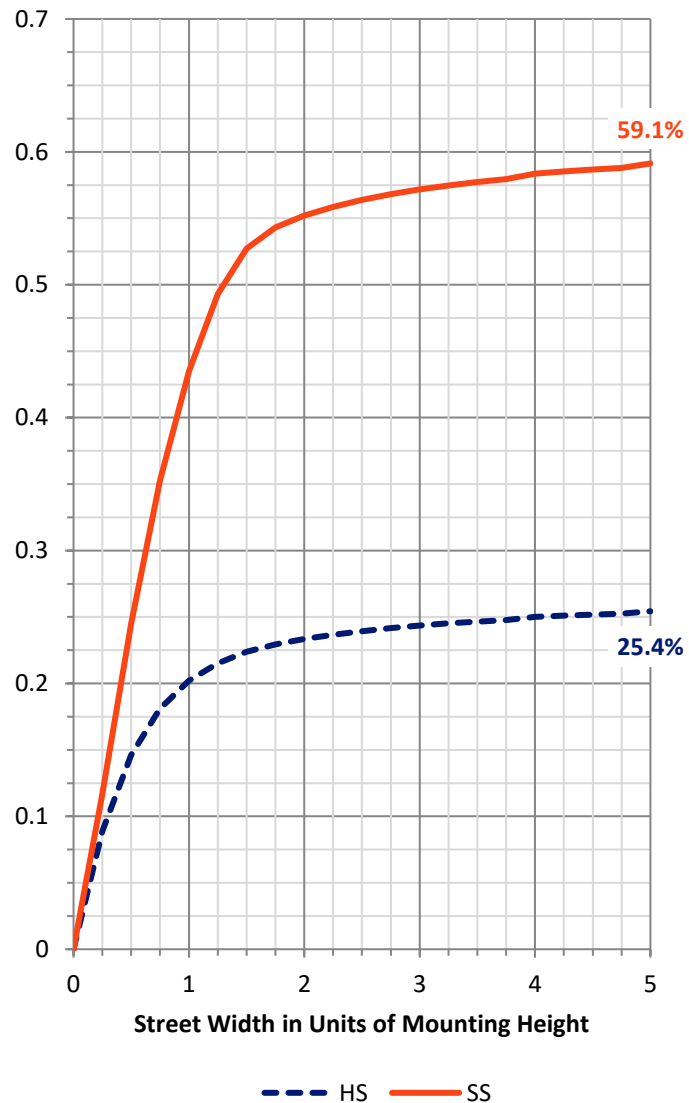
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.0	131.4	1221.4
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2525.8	389.7	2915.6
	% Fixture	61.1	9.4	70.5
Total	Lumens	3615.9	521.1	4136.9
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.3
10°-20°	199.0	4.8
20°-30°	407.0	9.8
30°-40°	684.6	16.5
40°-50°	906.3	21.9
50°-60°	653.5	15.8
60°-70°	256.7	6.2
70°-80°	231.3	5.6
80°-90°	225.4	5.4
90°-100°	190.1	4.6
100°-110°	135.2	3.3
110°-120°	91.1	2.2
120°-130°	59.6	1.4
130°-140°	35.6	0.9
140°-150°	9.0	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3615.9	87.4
0°-180°	4136.9	100.0

Coefficient of Utilization



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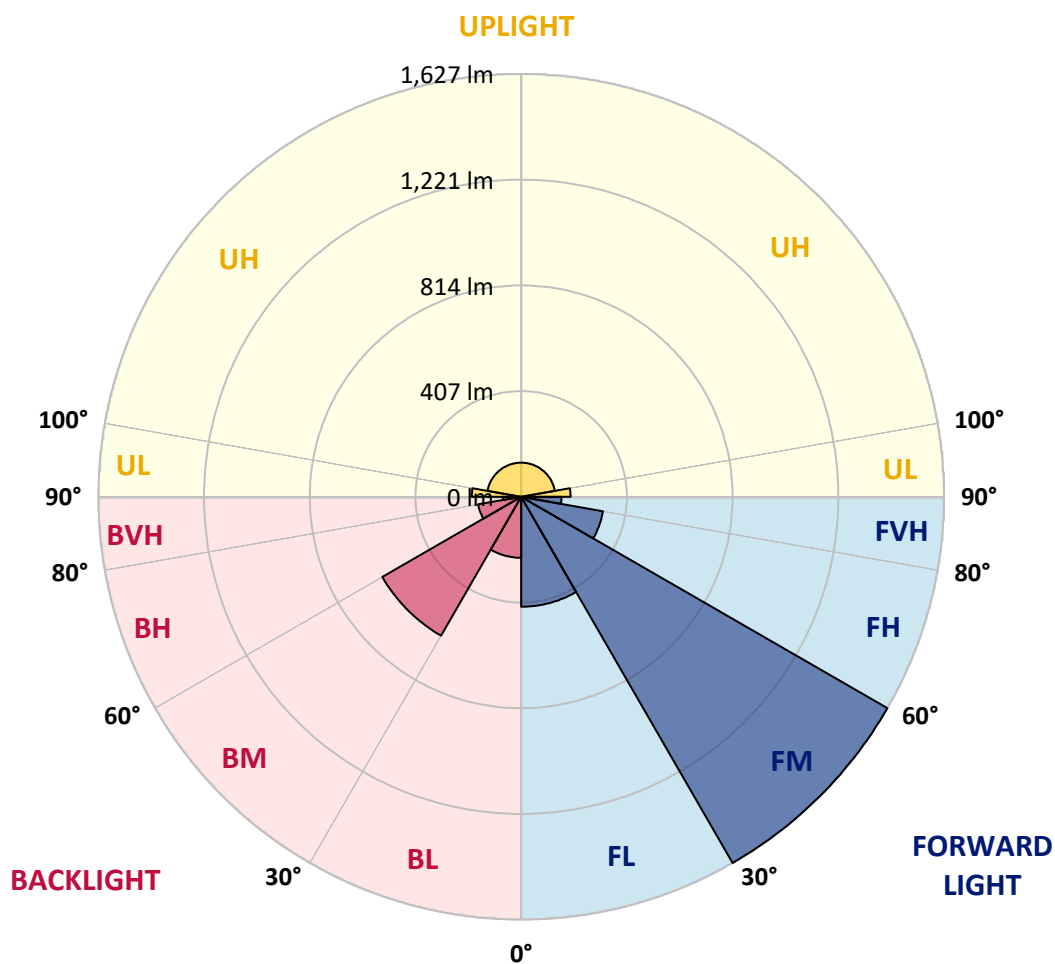
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.1	10.2			
FM	(30°-60°)	1627.5	39.3			
FH	(60°-80°)	319.9	7.7			G0/660
FVH	(80°-90°)	155.3	3.8			G2/225
BL	(0°-30°)	234.8	5.7	B1/500		
BM	(30°-60°)	617.0	14.9	B1/1000		
BH	(60°-80°)	168.1	4.1	B1/500		G1/500
BVH	(80°-90°)	70.1	1.7			G1/100
UL	(90°-100°)	190.1	4.6		U3/500	
UH	(100°-180°)	131.4	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°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	507.1	504.2	503.1	503.1	501.3	500.9	502.0	500.3	497.4	496.9	493.4
5°	542.4	541.4	540.8	545.4	549.3	550.4	549.3	549.3	545.9	545.9	535.2
7.5°	599.3	597.7	602.3	613.5	617.5	629.3	643.4	634.9	637.2	630.9	610.7
10°	665.4	662.5	683.3	698.5	733.5	748.1	766.2	764.5	761.0	750.4	716.6
12.5°	725.0	723.3	750.4	805.6	852.3	899.7	903.5	864.7	847.2	809.0	766.8
15°	799.4	801.1	842.3	920.6	989.8	1008.9	961.0	884.4	851.8	812.3	749.7
17.5°	919.3	925.0	994.9	1083.8	1130.1	1052.9	950.3	862.5	831.6	788.7	728.3
20°	989.3	992.5	1088.3	1208.8	1222.5	1097.4	990.9	896.2	869.2	835.5	785.8
22.5°	1031.0	1043.3	1153.2	1300.7	1292.8	1201.0	1053.4	963.9	930.0	883.9	843.2
25°	1098.0	1106.9	1212.4	1354.9	1319.9	1234.8	1109.1	989.8	956.5	922.7	882.1
27.5°	1188.6	1197.1	1315.4	1397.7	1361.0	1279.8	1192.6	1116.0	1098.4	1092.9	1075.5
30°	1237.1	1242.7	1375.7	1445.0	1382.4	1344.8	1320.5	1259.1	1253.9	1242.7	1202.7
32.5°	1264.8	1286.2	1440.4	1480.4	1398.8	1394.3	1408.9	1371.2	1361.0	1341.9	1295.6
35°	1289.4	1300.1	1445.6	1506.4	1425.3	1422.9	1523.9	1541.3	1518.8	1479.2	1368.8
37.5°	1480.4	1485.4	1585.1	1563.8	1460.1	1472.5	1638.8	1729.4	1709.1	1660.2	1584.2
40°	1584.2	1593.1	1685.5	1641.1	1533.9	1548.0	1721.5	1909.6	1927.8	1926.1	1859.6
42.5°	1503.6	1513.1	1644.3	1668.1	1594.2	1603.8	1775.6	1975.6	2004.4	1915.9	1762.7
45°	1766.1	1773.3	1847.2	1674.3	1553.1	1589.7	1733.4	1927.8	1953.6	1927.8	1796.5
47.5°	1765.4	1756.5	1817.9	1691.7	1550.4	1525.5	1641.6	1836.0	1887.2	1828.1	1685.5
50°	1552.0	1551.5	1702.9	1630.3	1519.9	1462.4	1540.8	1694.6	1706.9	1637.6	1446.6
52.5°	1355.5	1354.3	1529.5	1492.3	1420.2	1363.8	1412.2	1565.4	1612.8	1552.0	1392.6
55°	1181.4	1229.8	1383.6	1304.1	1274.2	1218.6	1266.9	1304.7	1280.4	1111.5	749.7
57.5°	715.4	768.9	969.5	1026.9	1033.7	993.7	883.9	754.8	708.7	566.1	338.0
60°	333.5	346.4	508.7	619.1	755.5	690.6	558.8	486.7	486.7	427.6	293.4
62.5°	234.8	243.9	334.1	399.3	452.3	446.2	396.6	406.8	427.1	400.6	282.7
65°	220.9	226.5	297.5	317.1	337.5	341.4	334.6	365.6	387.0	383.7	286.6
67.5°	205.1	212.4	271.6	284.6	300.3	307.6	312.7	348.7	371.2	383.7	298.0
70°	186.5	194.9	250.6	268.8	284.0	300.8	307.0	345.8	368.9	381.4	301.9
72.5°	169.1	176.3	223.0	245.5	272.6	292.4	317.1	340.7	356.5	369.6	304.2
75°	152.2	160.5	200.1	226.0	257.5	294.6	324.5	342.0	352.7	362.7	301.4
77.5°	140.9	149.8	180.7	210.7	248.4	299.7	333.5	356.0	362.2	364.0	298.0
80°	130.8	140.9	173.6	205.1	246.1	301.9	344.2	371.2	379.8	383.7	317.1
82.5°	138.0	147.1	175.2	213.4	253.5	301.4	341.4	384.1	393.7	391.5	323.4
85°	156.0	163.3	197.7	233.7	264.8	296.4	331.3	377.9	391.5	403.3	342.6
87.5°	189.8	193.2	218.0	251.3	276.6	286.6	321.7	365.6	377.9	381.9	333.5
90°	207.9	211.2	240.6	268.1	276.0	279.5	286.6	330.7	339.6	355.5	318.9
92.5°	228.7	228.7	259.2	275.5	275.5	261.3	266.4	306.0	321.1	330.0	296.4
95°	249.0	247.8	264.8	274.3	259.7	239.9	248.4	279.5	289.0	298.5	275.5
97.5°	255.2	254.6	264.8	259.2	234.8	216.3	227.0	253.5	263.7	273.8	250.1
100°	248.4	245.5	248.4	236.1	213.4	199.5	205.6	227.6	238.3	246.8	225.4
102.5°	233.7	232.1	233.2	220.9	197.2	180.3	188.7	211.8	219.6	226.5	207.2
105°	227.0	224.1	219.1	201.1	178.0	166.1	173.6	196.5	203.9	217.5	201.7
107.5°	193.2	191.0	187.0	177.4	165.6	156.7	162.9	179.1	183.7	190.4	175.8
110°	166.7	165.6	164.5	162.2	154.9	148.7	152.2	161.2	166.7	171.8	157.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	161.2	159.4	158.3	154.4	144.7	138.0	140.2	150.3	153.8	155.4	139.6
115°	153.8	152.2	146.0	140.2	133.5	130.2	130.8	139.1	141.5	142.6	132.9
117.5°	136.4	134.7	130.8	128.5	124.4	122.8	125.7	130.2	130.8	131.2	122.8
120°	126.2	125.7	123.3	119.5	116.6	112.6	117.1	121.7	123.3	125.0	119.5
122.5°	115.0	113.7	111.5	106.4	106.4	104.3	103.7	106.4	107.1	111.5	108.8
125°	101.4	100.3	98.1	93.6	99.2	99.2	95.2	89.0	90.6	94.6	92.3
127.5°	90.6	89.7	87.3	85.1	93.0	95.8	89.0	77.8	79.0	79.9	78.3
130°	89.0	87.9	85.1	81.1	83.4	91.8	79.9	71.0	72.7	73.8	72.7
132.5°	87.3	86.7	82.9	77.8	74.9	82.9	69.3	67.1	68.7	70.3	69.3
135°	81.7	81.1	77.8	70.3	62.5	66.5	55.2	58.6	61.4	63.7	62.5
137.5°	72.7	72.1	69.3	62.0	51.3	47.9	42.2	50.1	52.5	55.2	55.2
140°	58.6	58.0	55.2	47.9	36.0	25.3	27.0	38.3	40.6	43.9	44.5
142.5°	42.8	41.7	38.8	32.1	20.3	8.4	15.2	23.0	26.0	29.3	31.5
145°	29.3	28.7	24.9	19.1	9.6	1.1	6.7	14.1	15.8	18.1	20.3
147.5°	18.5	18.5	15.8	10.7	2.9	1.1	1.6	7.4	9.1	11.3	12.9
150°	11.3	11.3	8.4	3.4	0.5	0.5	0.5	1.1	2.9	5.1	6.7
152.5°	2.9	2.9	1.6	1.1	0.5	0.0	0.5	0.5	0.5	0.5	1.1
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.0	0.5	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°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	491.8	488.4	483.8	477.7	471.5	465.3	459.2	455.7	454.1	452.9	452.3
5°	532.3	525.0	513.2	496.9	476.6	464.8	456.2	446.2	439.5	437.1	435.5
7.5°	603.9	592.1	568.4	533.5	508.7	473.8	443.9	424.8	410.6	402.8	402.8
10°	699.7	682.7	641.6	593.8	530.1	468.6	422.6	387.6	371.2	364.5	362.7
12.5°	741.9	725.7	677.1	621.4	553.7	482.2	423.6	381.9	362.2	354.3	355.5
15°	720.5	698.0	656.3	603.9	550.9	505.8	456.9	405.0	371.2	362.2	365.0
17.5°	699.2	676.1	631.5	573.5	521.6	491.8	457.4	422.6	390.5	377.5	375.2
20°	761.7	744.8	684.5	618.6	540.8	465.3	441.1	425.3	414.6	415.1	410.0
22.5°	821.3	798.2	743.1	665.9	581.9	516.0	476.6	455.7	443.9	449.0	449.5
25°	861.4	843.9	762.2	669.7	600.0	550.9	494.1	464.8	445.0	445.0	442.8
27.5°	1064.8	1021.4	891.7	750.4	646.2	565.0	496.4	462.4	437.7	430.4	431.5
30°	1171.2	1128.5	980.2	808.4	699.2	598.8	502.5	450.1	443.9	438.8	440.4
32.5°	1262.5	1199.3	1024.2	823.6	689.4	603.9	516.0	452.9	423.0	418.0	420.2
35°	1307.6	1237.1	1059.1	837.1	694.0	582.6	499.6	441.1	421.9	416.9	418.6
37.5°	1515.4	1410.0	1114.3	857.4	693.0	554.3	477.7	430.4	394.9	379.8	379.8
40°	1754.2	1599.3	1210.6	856.3	650.2	530.1	453.5	409.5	381.4	369.6	368.9
42.5°	1630.3	1482.7	1154.3	830.9	608.4	486.2	440.0	400.6	370.1	362.2	360.5
45°	1682.2	1524.3	1113.7	760.0	545.9	451.2	407.9	380.3	345.3	327.3	326.8
47.5°	1517.6	1390.8	1031.0	669.7	491.8	396.6	369.6	351.5	329.6	314.3	312.7
50°	1316.6	1188.6	867.6	593.8	419.1	351.5	332.9	323.8	301.9	284.6	285.7
52.5°	1257.9	1102.9	756.1	518.2	360.5	306.4	297.5	287.3	265.3	245.1	247.4
55°	623.7	516.5	459.8	402.8	302.5	266.4	262.6	256.3	234.4	216.9	217.5
57.5°	290.7	250.6	219.6	233.7	228.2	231.6	229.8	226.0	205.1	180.3	178.6
60°	260.2	223.0	186.5	176.8	187.6	202.3	201.1	188.7	162.2	132.9	129.5
62.5°	251.3	213.4	180.7	166.7	171.2	180.7	174.1	158.3	136.9	109.9	109.2
65°	255.7	215.8	180.3	162.9	166.1	170.0	160.5	149.3	136.4	117.8	117.8
67.5°	265.3	224.1	184.2	161.2	162.9	166.7	157.7	149.8	143.1	130.8	130.8
70°	268.1	228.2	186.5	161.7	160.0	163.3	157.2	149.8	146.0	135.7	135.3
72.5°	269.3	230.4	185.3	158.9	154.9	157.7	153.3	149.8	148.2	140.2	139.1
75°	264.2	228.2	179.8	152.6	148.7	149.8	148.7	148.2	150.3	145.3	143.6
77.5°	258.1	224.8	175.2	146.0	141.5	141.9	140.9	142.6	144.7	141.5	138.6
80°	271.0	234.4	175.8	140.9	132.4	129.5	130.2	131.8	134.7	127.3	123.3
82.5°	275.5	234.8	167.9	129.5	118.8	115.0	116.1	120.6	122.8	116.1	112.1
85°	292.4	245.5	162.2	119.5	107.1	103.0	104.3	107.1	105.9	98.1	94.6
87.5°	285.7	238.3	152.2	107.5	97.5	94.1	94.6	95.8	91.8	81.7	79.0
90°	276.0	229.8	140.9	94.6	86.1	85.1	83.9	82.3	75.5	64.8	62.0
92.5°	258.5	214.7	130.8	85.6	76.6	76.0	74.4	71.0	64.8	54.1	51.3
95°	243.9	201.1	121.1	78.3	68.7	66.5	66.5	63.2	56.4	47.3	46.3
97.5°	219.6	183.1	111.5	72.1	61.4	59.2	58.6	56.4	51.3	44.5	43.9
100°	198.9	165.6	101.4	65.3	55.2	53.0	51.8	50.8	46.7	42.8	42.8
102.5°	184.2	153.3	94.6	59.6	49.5	47.3	47.3	46.3	43.9	41.1	41.1
105°	180.3	150.3	91.8	54.6	43.9	42.8	43.4	43.4	41.7	40.1	40.1
107.5°	156.7	129.5	79.0	48.5	40.1	38.8	39.4	40.1	39.4	38.8	38.8
110°	139.6	117.8	73.2	45.6	37.8	36.0	36.0	36.0	36.0	36.7	37.2



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CATALOG NUMBER: UTLD-AF24-50-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	125.0	104.8	67.1	43.4	35.6	33.7	33.2	32.7	32.1	34.3	34.3
115°	119.5	102.0	65.3	42.2	33.7	32.1	30.5	29.3	28.1	29.9	30.5
117.5°	111.0	95.8	63.7	42.2	33.2	30.5	28.7	27.0	25.3	27.0	27.0
120°	108.8	95.2	64.8	42.8	32.1	28.1	26.5	24.3	23.0	24.9	25.3
122.5°	100.3	89.0	61.4	40.6	31.0	27.0	25.3	20.8	20.8	22.0	22.5
125°	85.1	75.5	53.0	36.7	29.3	27.0	24.9	18.5	19.1	20.3	20.3
127.5°	72.7	65.3	48.5	35.6	29.9	27.6	23.0	17.4	18.5	20.3	20.3
130°	68.7	62.5	49.0	37.2	31.0	28.1	19.1	15.2	18.1	19.8	19.8
132.5°	65.9	60.8	49.0	38.8	32.1	26.0	15.2	13.6	15.2	16.3	16.3
135°	59.6	56.4	46.7	37.2	29.3	20.3	12.3	11.9	14.1	15.2	15.2
137.5°	53.4	50.1	42.8	34.3	26.0	16.3	9.1	10.7	11.9	12.9	12.9
140°	43.9	41.7	35.6	28.1	19.1	9.1	6.7	8.4	10.2	11.3	11.3
142.5°	31.0	29.9	24.9	18.1	10.7	3.4	4.5	6.2	7.4	8.4	8.4
145°	20.3	19.1	15.8	11.3	4.5	1.1	2.9	4.0	5.6	6.2	6.2
147.5°	12.9	12.3	9.6	5.6	1.6	1.1	1.1	2.9	4.5	5.1	5.1
150°	6.2	5.6	4.0	1.6	1.1	0.5	0.5	1.1	2.9	3.4	3.4
152.5°	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.5	0.5	1.1	1.1
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	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	0.5	0.5	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)