

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: P266369

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.7 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

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



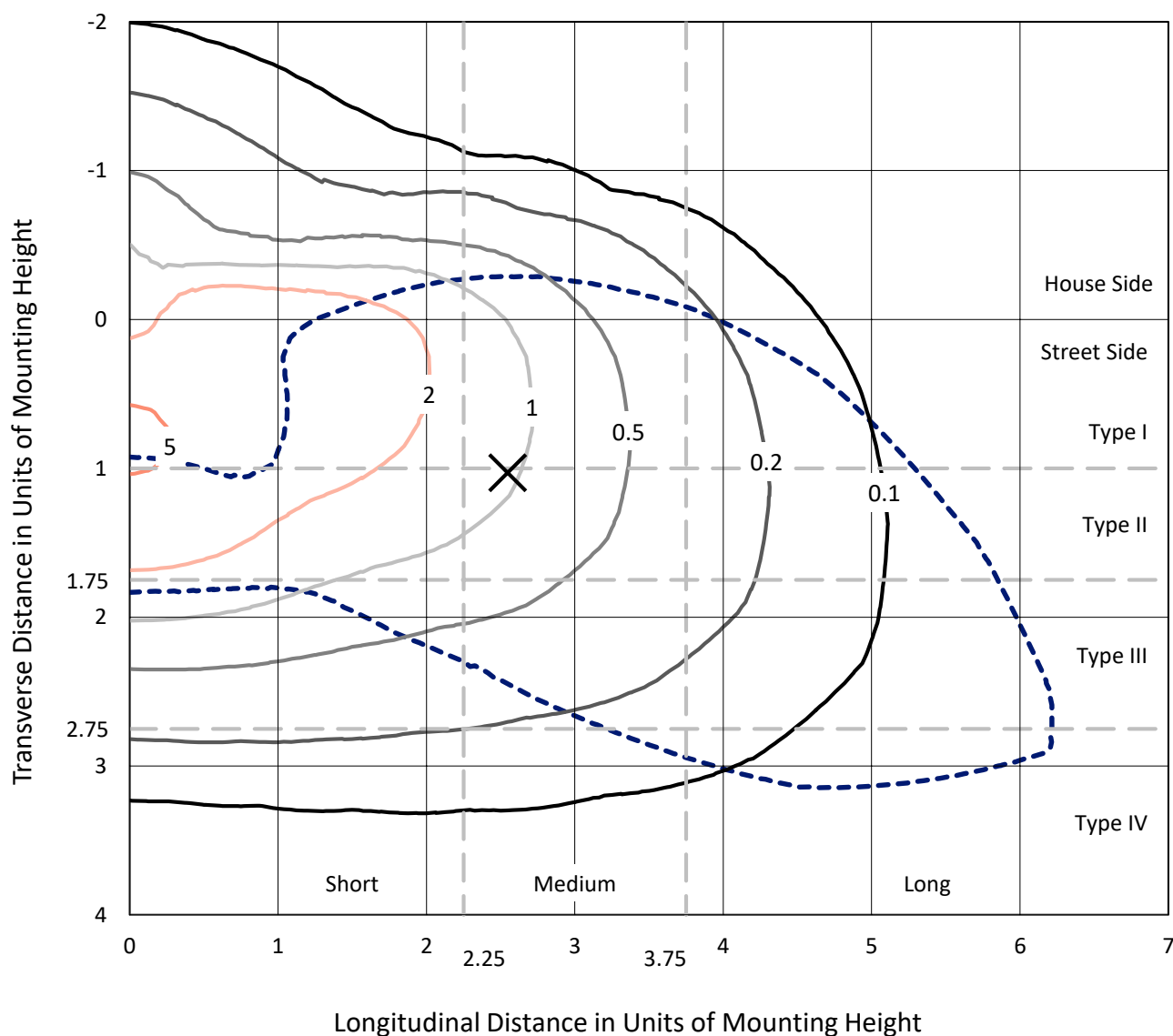
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

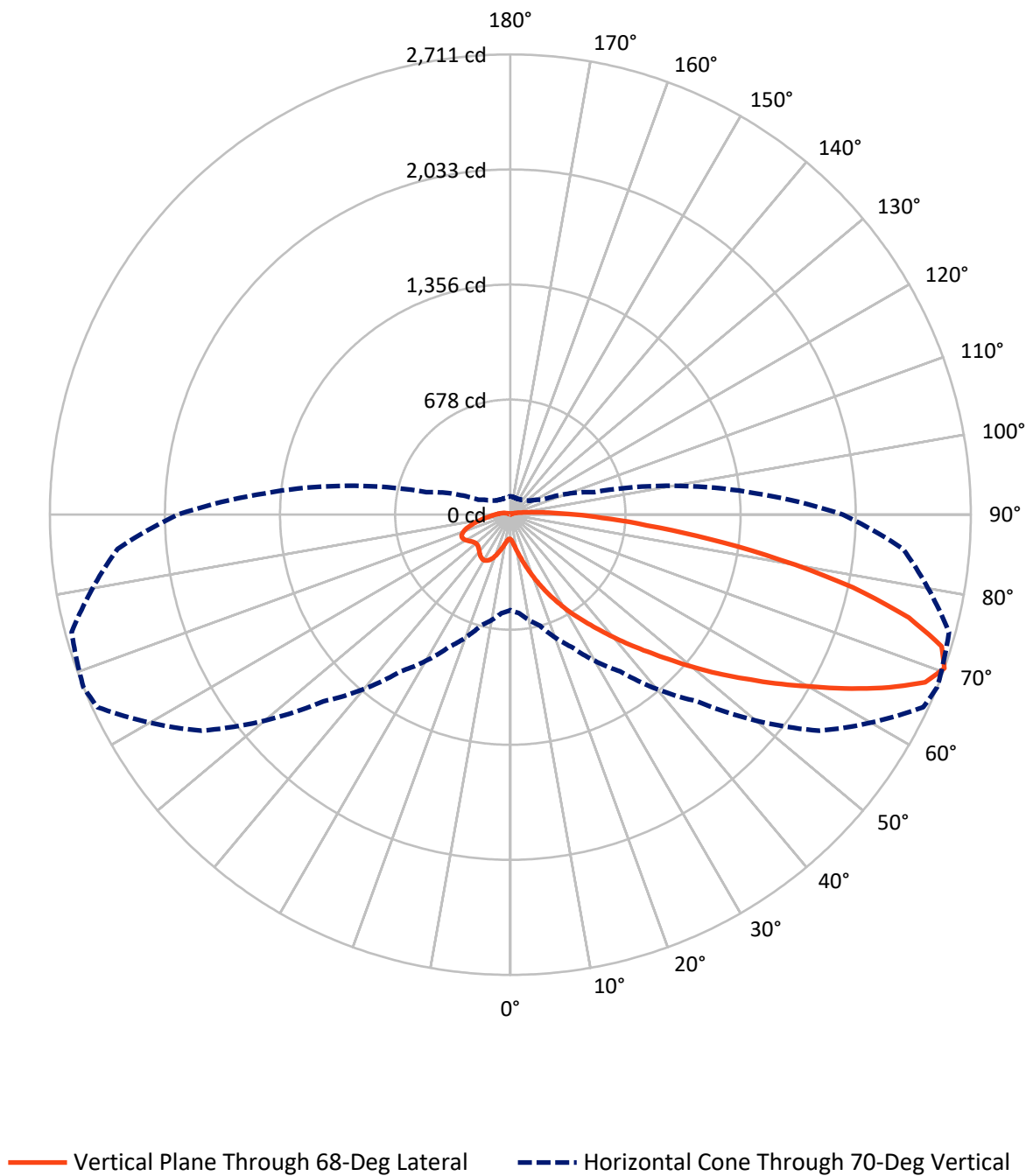


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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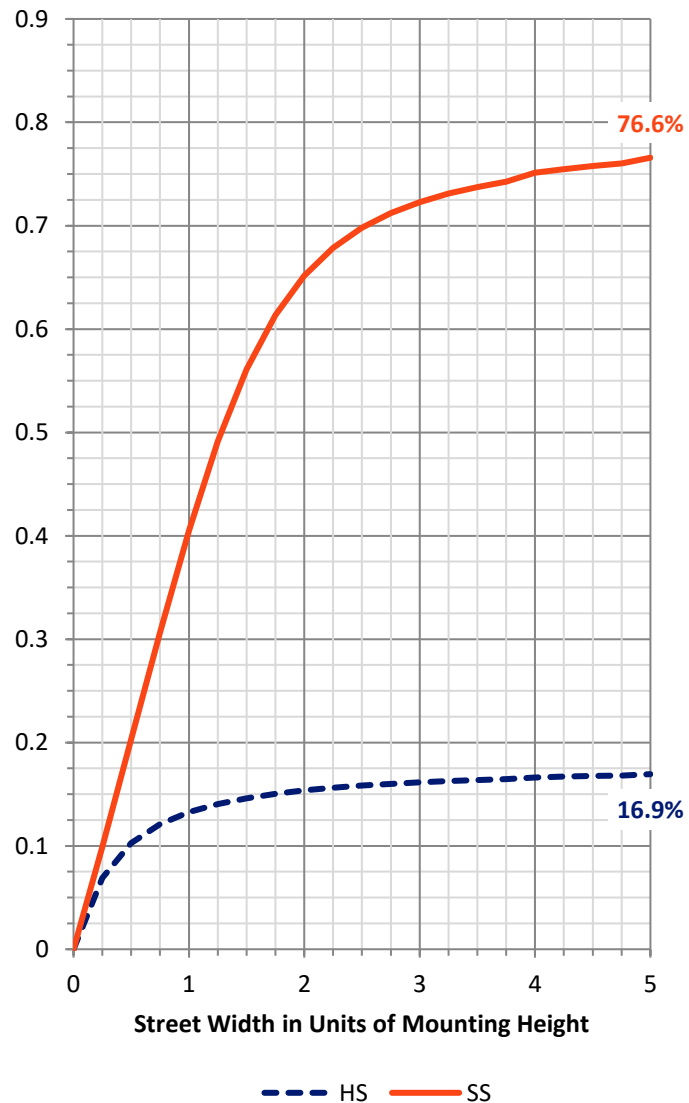
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	761.6	70.0	831.6
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	3381.3	95.8	3477.1
	% Fixture	78.5	2.2	80.7
Total	Lumens	4142.9	165.8	4308.7
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.4
10°-20°	68.4	1.6
20°-30°	173.0	4.0
30°-40°	335.2	7.8
40°-50°	565.2	13.1
50°-60°	845.0	19.6
60°-70°	1024.6	23.8
70°-80°	799.4	18.6
80°-90°	316.3	7.3
90°-100°	96.9	2.2
100°-110°	38.1	0.9
110°-120°	16.9	0.4
120°-130°	8.3	0.2
130°-140°	4.1	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4142.9	96.2
0°-180°	4308.7	100.0

Coefficient of Utilization



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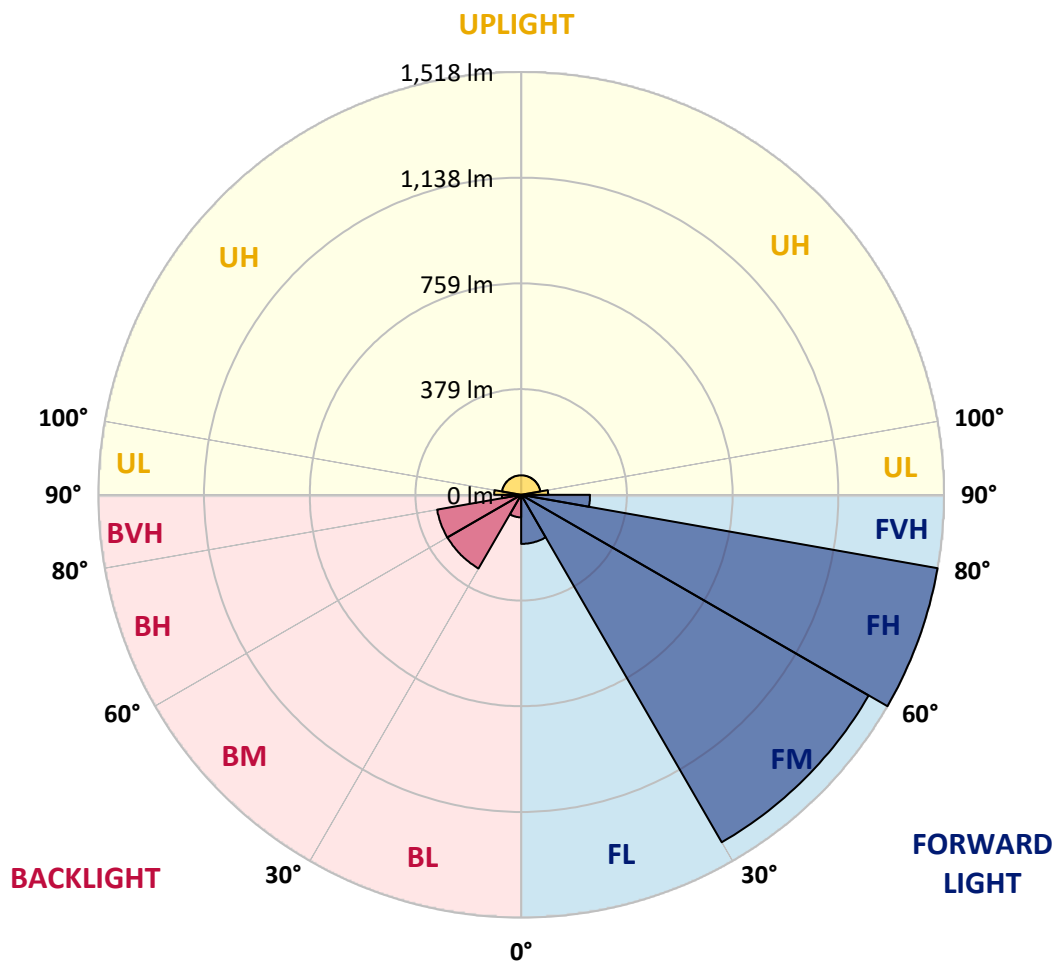
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.2	4.1			
FM	(30°-60°)	1440.1	33.4			
FH	(60°-80°)	1517.8	35.2			G1/1800
FVH	(80°-90°)	247.2	5.7			G3/500
BL	(0°-30°)	81.0	1.9	B0/110		
BM	(30°-60°)	305.3	7.1	B1/1000		
BH	(60°-80°)	306.3	7.1	B1/500		G1/500
BVH	(80°-90°)	69.1	1.6			G1/100
UL	(90°-100°)	96.9	2.2		U3/500	
UH	(100°-180°)	70.0	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	161.2	161.7	161.7	160.0	159.4	157.7	154.9	153.8	152.6	151.5	149.3
5°	182.5	182.5	181.4	179.8	177.4	175.8	173.0	169.6	169.1	165.1	161.2
7.5°	206.7	207.2	207.9	205.1	201.7	198.9	195.6	191.0	189.8	185.9	178.6
10°	238.9	239.4	238.3	235.4	231.0	227.6	223.7	219.1	217.4	214.1	203.9
12.5°	277.8	277.1	273.8	269.9	264.8	260.8	255.7	252.3	251.3	247.8	237.2
15°	318.9	321.1	317.1	308.2	301.9	295.7	293.4	293.4	294.6	290.7	280.5
17.5°	371.8	373.4	366.7	354.3	344.2	337.5	335.2	339.6	341.4	343.1	334.1
20°	433.3	433.7	423.0	405.6	387.6	379.2	379.7	390.4	394.4	400.6	389.9
22.5°	508.1	503.6	488.4	461.4	435.5	421.9	427.1	448.4	451.8	464.8	459.2
25°	586.5	585.9	560.5	524.4	486.7	469.3	477.7	504.2	513.7	533.5	526.1
27.5°	676.6	674.3	641.6	597.2	545.9	519.9	527.2	565.0	576.4	609.5	601.7
30°	772.4	772.9	734.5	672.7	609.0	572.8	577.4	629.8	644.4	682.7	680.5
32.5°	886.6	879.9	837.1	756.0	677.7	628.6	634.8	695.6	715.9	761.7	754.8
35°	1001.6	993.2	936.3	847.2	749.2	691.2	694.0	766.2	787.5	846.7	833.6
37.5°	1107.5	1102.9	1046.0	943.6	829.2	760.4	763.9	841.6	868.7	934.5	918.7
40°	1221.2	1221.2	1163.2	1051.7	918.2	835.5	840.5	925.6	958.2	1030.4	1003.9
42.5°	1341.9	1337.8	1276.5	1150.3	1006.7	915.9	926.2	1020.1	1056.8	1133.4	1106.4
45°	1460.7	1452.2	1388.6	1257.4	1095.2	1006.7	1021.8	1123.8	1162.1	1259.7	1221.9
47.5°	1563.2	1554.2	1491.6	1353.7	1188.1	1100.8	1122.2	1244.4	1284.9	1400.9	1343.5
50°	1636.4	1633.7	1572.8	1430.3	1270.8	1197.6	1242.6	1372.8	1421.3	1538.4	1484.4
52.5°	1679.3	1674.3	1625.8	1499.6	1353.7	1298.0	1366.6	1512.6	1563.8	1690.0	1626.9
55°	1669.7	1666.3	1632.0	1536.2	1418.5	1394.2	1504.1	1668.1	1715.9	1852.2	1777.2
57.5°	1594.2	1598.8	1588.6	1538.4	1466.4	1493.9	1644.8	1832.0	1882.6	2015.5	1935.6
60°	1459.6	1457.9	1486.7	1495.0	1485.4	1580.1	1815.0	2018.9	2057.7	2191.9	2089.9
62.5°	1260.7	1256.2	1318.7	1399.3	1471.5	1652.8	1968.2	2218.4	2257.3	2365.3	2232.5
65°	1016.8	1037.1	1115.3	1248.4	1401.5	1680.4	2116.9	2421.7	2453.8	2511.3	2344.5
67.5°	770.7	790.4	891.7	1060.2	1284.9	1648.3	2211.5	2604.2	2635.2	2650.4	2393.5
70°	562.8	581.9	677.7	862.5	1126.7	1555.3	2219.0	2683.1	2711.3	2674.1	2321.5
72.5°	400.6	410.6	492.9	668.1	946.4	1392.6	2126.6	2632.5	2655.5	2552.4	2131.0
75°	283.3	287.8	358.9	508.1	770.7	1208.3	1906.8	2405.4	2423.4	2293.8	1812.2
77.5°	193.2	203.3	259.7	387.6	617.9	992.0	1616.2	2062.2	2062.2	1897.8	1433.7
80°	136.9	145.3	186.5	289.6	483.8	794.8	1305.7	1638.7	1612.7	1426.2	1033.1
82.5°	98.5	105.3	138.0	220.9	375.8	628.2	990.9	1213.4	1177.9	995.4	682.7
85°	71.5	78.3	104.8	162.2	287.8	487.3	742.4	842.7	807.8	659.6	443.4
87.5°	52.5	57.0	78.3	122.2	218.0	368.9	544.7	572.3	541.4	426.4	284.5
90°	37.2	41.1	59.6	92.3	163.3	277.1	382.5	375.8	342.0	268.1	188.1
92.5°	26.9	29.9	44.5	70.3	121.7	203.3	263.1	242.8	223.7	172.4	130.8
95°	20.3	22.5	34.9	54.6	89.7	143.1	177.4	159.4	144.7	117.8	96.3
97.5°	16.3	18.1	28.7	43.9	69.3	104.3	122.8	105.3	98.5	85.1	74.4
100°	14.1	15.2	24.3	36.7	54.6	78.3	86.7	73.8	69.9	64.1	58.0
102.5°	12.9	13.6	21.4	31.5	44.5	58.6	62.5	55.2	52.5	49.0	45.6
105°	11.9	12.3	19.1	27.6	37.8	45.6	47.9	42.2	40.6	37.2	34.9
107.5°	11.3	11.3	16.9	24.3	32.1	37.8	37.8	33.2	31.5	28.1	26.9
110°	10.7	10.7	15.2	22.0	27.6	32.1	31.0	26.5	24.9	21.4	20.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	10.2	10.2	14.1	19.1	24.3	26.9	26.0	21.4	19.8	16.3	16.3
115°	9.6	9.6	12.3	16.9	21.4	23.0	22.0	17.4	16.3	12.9	13.6
117.5°	9.6	9.6	11.9	15.2	18.5	20.3	18.5	14.1	12.9	10.7	11.9
120°	9.1	9.1	10.7	13.6	16.3	17.4	15.8	11.9	10.7	9.1	10.2
122.5°	9.1	9.1	10.2	11.9	14.6	15.2	13.6	10.2	9.1	7.8	9.1
125°	8.4	8.4	9.6	10.7	12.3	12.9	11.3	8.4	7.8	7.4	7.8
127.5°	8.4	8.4	9.1	9.6	11.3	11.3	9.6	6.7	6.7	6.2	7.4
130°	7.8	8.4	8.4	9.1	9.6	9.6	7.8	5.6	5.6	5.6	6.7
132.5°	7.8	7.8	7.8	7.8	8.4	7.8	6.2	5.1	5.1	5.1	6.2
135°	7.4	7.4	7.4	7.4	6.7	6.2	5.1	4.0	4.0	4.5	5.6
137.5°	7.4	7.4	6.7	6.2	6.2	5.1	4.0	3.4	3.4	4.5	5.1
140°	6.7	6.7	6.2	5.6	4.5	4.0	2.9	2.9	2.9	3.4	4.0
142.5°	5.6	5.6	5.6	4.5	3.4	2.2	1.6	1.6	2.2	2.9	3.4
145°	5.1	5.1	4.5	4.0	2.2	1.1	0.5	1.1	1.6	2.2	2.9
147.5°	4.0	4.0	3.4	2.9	1.1	0.5	0.0	0.5	1.1	1.1	1.6
150°	2.9	2.9	2.9	1.6	0.5	0.0	0.0	0.5	0.5	0.5	1.1
152.5°	2.2	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.5	0.5	0.5
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	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°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	147.6	147.1	144.2	141.9	139.1	136.9	134.7	132.9	132.4	131.2	131.8
5°	157.7	155.4	149.8	144.7	139.1	134.0	129.5	126.2	123.3	122.2	121.7
7.5°	175.2	171.8	161.7	152.6	143.6	134.7	127.3	121.7	118.2	116.1	116.1
10°	200.5	193.2	180.3	165.1	149.8	136.9	126.8	118.8	113.7	112.1	112.1
12.5°	231.6	223.7	203.3	180.3	158.9	140.9	127.3	118.8	113.7	111.5	111.0
15°	272.6	260.8	231.0	198.3	167.4	144.2	127.9	119.5	116.1	115.0	115.0
17.5°	321.1	306.4	263.1	218.0	176.8	146.0	129.5	122.8	121.1	121.1	121.1
20°	378.5	357.2	299.1	235.4	183.7	147.6	130.8	125.7	125.7	126.8	127.3
22.5°	440.0	413.0	334.1	251.9	185.9	148.7	130.2	126.8	129.5	132.4	132.9
25°	505.2	467.6	365.6	261.9	187.0	146.0	128.5	127.3	132.9	136.9	138.0
27.5°	574.6	523.4	392.6	265.9	183.7	140.9	125.7	126.2	134.7	140.2	141.5
30°	638.2	575.8	414.1	264.8	176.2	134.7	122.2	124.4	134.7	142.6	144.2
32.5°	704.1	627.6	427.1	259.7	167.4	127.9	118.2	122.8	134.0	143.1	144.7
35°	770.0	673.2	433.3	249.5	157.2	121.7	114.4	120.1	132.4	142.6	143.6
37.5°	836.0	718.3	434.9	236.7	148.1	116.6	111.5	118.2	129.5	141.5	143.1
40°	907.0	762.8	431.5	223.7	139.6	113.2	109.2	116.1	127.3	139.6	141.9
42.5°	986.3	810.0	427.6	210.7	134.0	111.0	107.5	113.7	124.0	138.0	140.9
45°	1074.8	861.8	425.3	200.5	130.8	109.9	107.1	112.1	122.2	136.9	139.6
47.5°	1170.0	927.2	427.6	193.8	128.9	110.4	107.1	111.0	120.1	134.7	138.0
50°	1286.1	1002.1	435.9	188.7	128.5	111.0	107.5	109.9	117.8	131.2	134.7
52.5°	1406.0	1078.8	449.5	187.6	128.9	112.1	108.2	109.2	114.4	126.8	129.5
55°	1530.5	1180.2	472.6	189.3	130.2	113.7	108.8	108.2	111.5	121.1	124.4
57.5°	1671.3	1285.6	501.3	193.2	131.8	115.0	109.2	107.1	108.2	116.1	118.8
60°	1811.2	1392.6	530.7	198.3	135.1	116.6	109.9	106.4	106.4	112.6	115.0
62.5°	1937.9	1486.7	554.9	205.1	138.0	117.8	109.9	105.3	104.8	109.9	112.1
65°	2024.6	1536.2	560.5	208.9	140.9	118.2	108.8	104.3	103.7	107.5	109.9
67.5°	2047.6	1528.2	549.3	210.7	142.6	118.2	108.8	103.0	103.7	107.1	108.8
70°	1957.5	1446.6	512.0	207.2	141.9	117.8	107.5	102.0	103.0	106.4	107.5
72.5°	1742.4	1277.6	454.6	198.9	139.1	115.5	105.3	100.3	102.0	105.9	107.1
75°	1462.4	1058.6	386.5	185.3	134.0	112.6	103.0	98.1	100.8	104.8	105.3
77.5°	1124.9	811.2	316.1	167.9	127.3	108.8	99.7	94.6	98.5	103.0	102.5
80°	798.9	591.4	249.5	149.8	118.2	103.0	95.2	90.6	95.2	99.7	98.5
82.5°	550.4	401.2	199.5	132.4	108.8	96.8	90.1	86.1	91.3	95.2	93.6
85°	360.5	271.0	157.2	116.1	99.7	90.6	84.5	80.6	85.6	89.0	86.7
87.5°	232.7	188.7	125.7	100.8	90.1	83.9	78.3	74.9	79.9	82.9	80.6
90°	161.7	137.4	103.7	87.3	81.0	76.6	72.1	68.7	73.2	75.5	74.4
92.5°	115.5	105.3	86.1	76.6	73.2	69.3	65.3	62.5	67.1	68.7	67.6
95°	90.1	83.9	73.2	67.6	65.9	63.2	59.2	56.4	59.6	60.8	60.2
97.5°	72.1	69.3	63.2	59.6	58.6	56.4	53.4	50.8	53.0	53.4	53.0
100°	58.0	57.0	54.1	52.5	51.8	50.1	47.3	45.0	46.3	45.6	45.6
102.5°	46.3	46.3	45.6	45.0	45.0	43.4	41.1	38.8	38.8	37.8	37.8
105°	36.7	37.8	37.8	38.3	38.8	37.8	35.6	32.7	32.1	30.5	30.5
107.5°	28.7	29.9	31.5	32.1	32.7	31.5	29.9	26.9	25.3	23.6	24.3
110°	22.5	23.6	26.0	26.9	27.6	26.9	24.9	22.5	19.8	18.5	19.1



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CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.4	19.1	21.4	22.5	23.0	22.5	20.3	18.1	15.2	14.6	14.6
115°	14.6	15.8	18.1	19.1	19.1	18.5	16.9	14.1	11.9	11.3	11.9
117.5°	12.3	13.6	15.2	16.3	16.3	15.8	14.1	11.3	9.6	9.6	9.6
120°	10.7	11.9	12.9	14.1	14.1	13.6	11.9	9.1	7.8	7.8	7.8
122.5°	9.6	10.2	11.3	11.9	11.9	11.3	9.6	7.4	6.2	6.7	6.7
125°	8.4	9.1	10.2	10.7	10.2	9.6	7.8	5.6	5.1	5.6	5.6
127.5°	7.8	8.4	9.1	9.1	9.1	7.8	6.7	4.5	4.5	5.1	5.1
130°	7.4	7.4	7.8	7.8	7.4	6.7	5.1	3.4	3.4	4.5	4.5
132.5°	6.7	6.7	7.4	6.7	6.7	5.6	4.0	2.9	3.4	4.0	4.0
135°	5.6	5.6	6.2	6.2	5.1	4.5	2.9	2.2	2.2	2.9	3.4
137.5°	5.1	5.6	5.6	5.1	4.5	3.4	2.2	1.6	2.2	2.2	2.9
140°	4.5	4.5	4.5	4.0	3.4	2.2	1.1	1.1	1.6	1.6	1.6
142.5°	3.4	4.0	4.0	3.4	2.2	1.1	0.5	0.5	1.1	1.1	1.1
145°	2.9	2.9	2.9	2.2	1.6	1.1	0.5	0.5	0.5	0.5	0.5
147.5°	1.6	2.2	2.2	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	1.6	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.5	0.5	0.5	0.5	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)