

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: P241075

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5237.5 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - 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

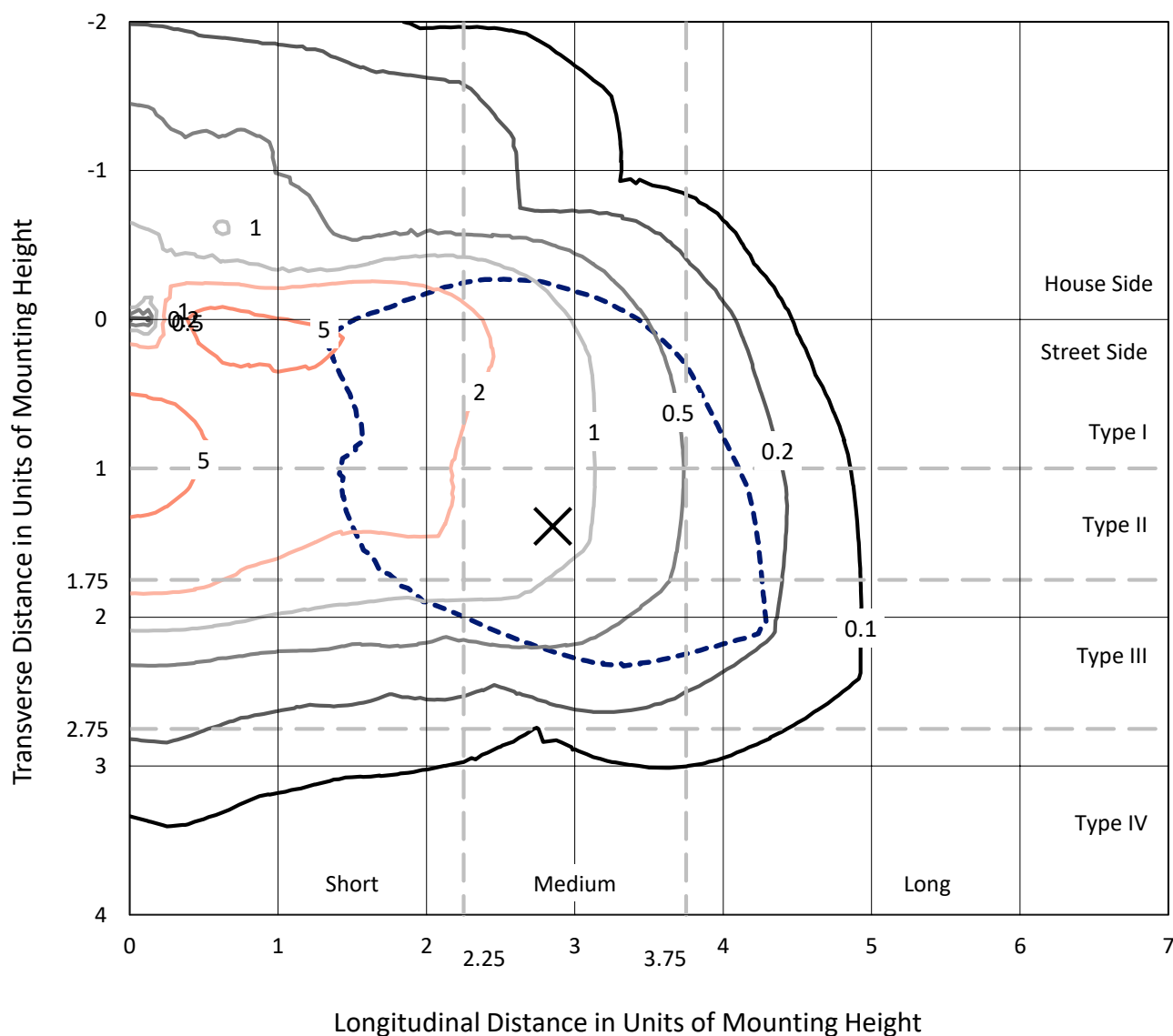


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

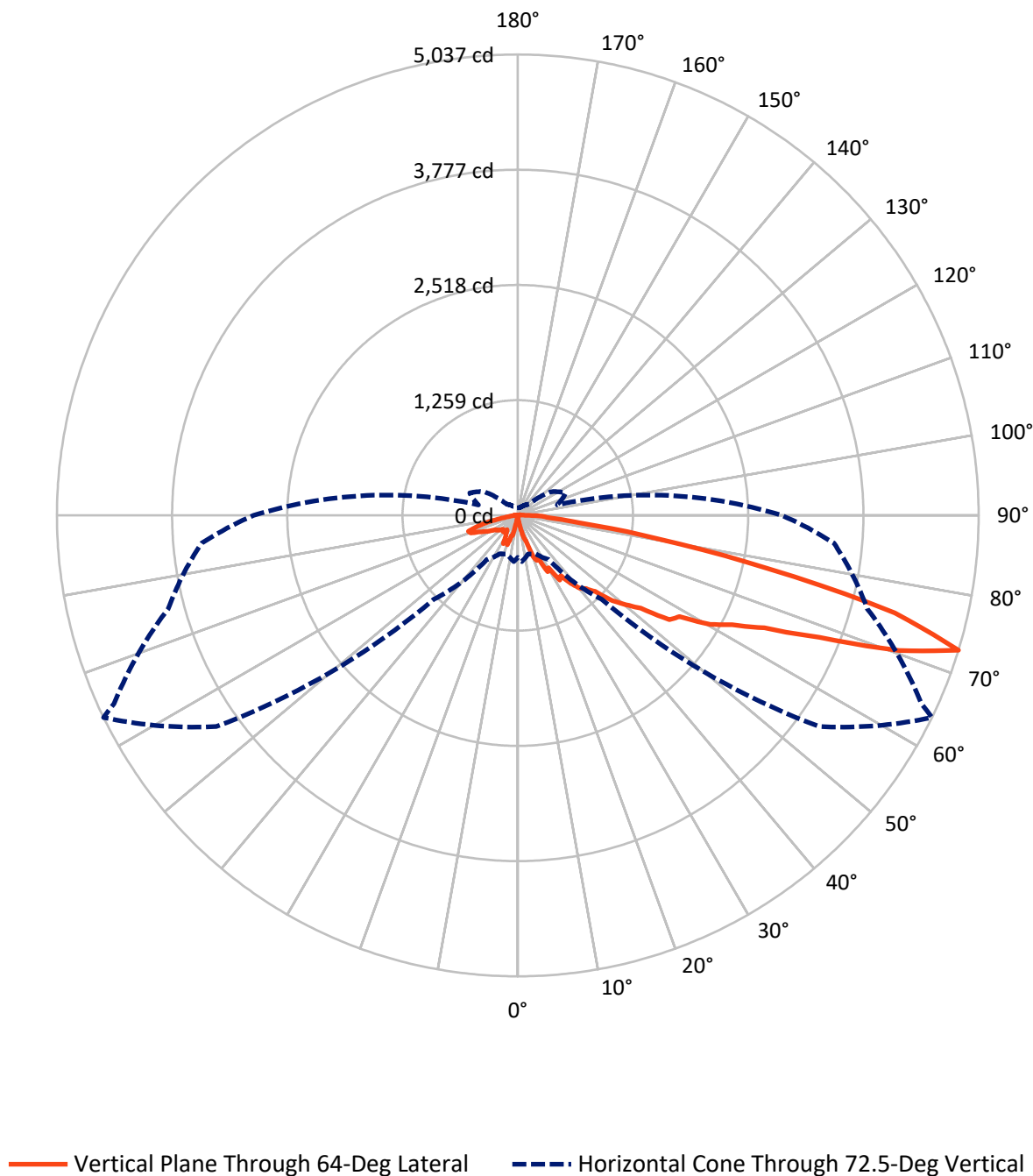


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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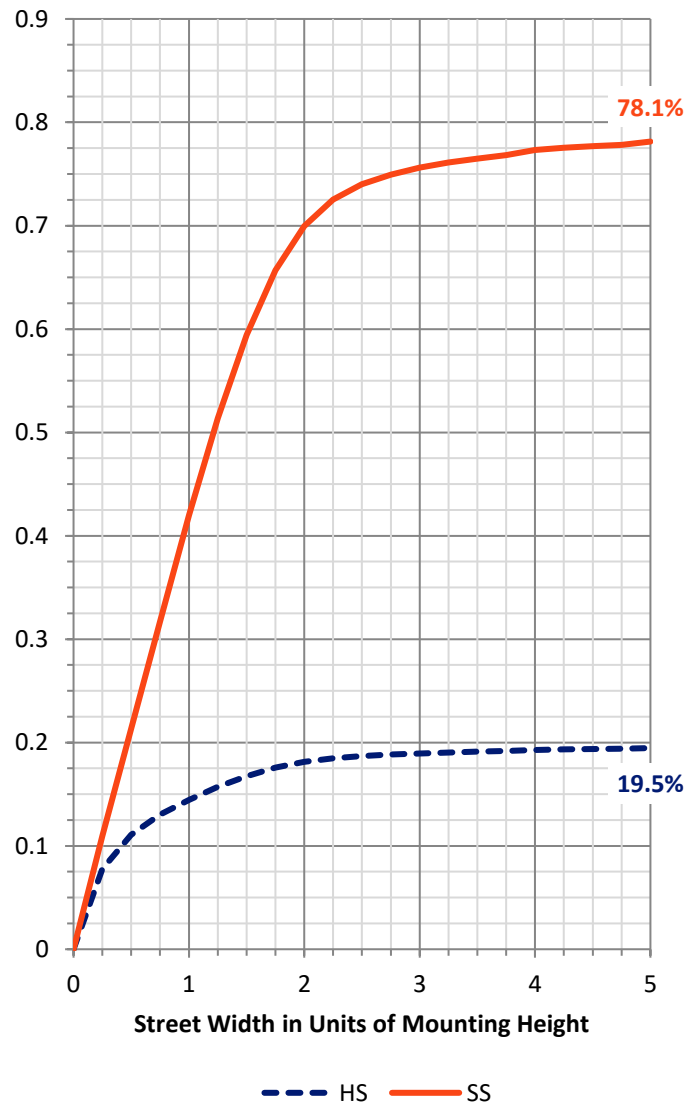
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.8	32.3	1069.0
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4135.1	33.4	4168.4
	% Fixture	79.0	0.6	79.6
Total	Lumens	5171.8	65.6	5237.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.1
10°-20°	69.9	1.3
20°-30°	205.8	3.9
30°-40°	408.1	7.8
40°-50°	704.3	13.4
50°-60°	1138.5	21.7
60°-70°	1442.9	27.5
70°-80°	1033.8	19.7
80°-90°	162.1	3.1
90°-100°	32.7	0.6
100°-110°	14.5	0.3
110°-120°	7.4	0.1
120°-130°	5.5	0.1
130°-140°	3.4	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5171.8	98.7
0°-180°	5237.5	100.0

Coefficient of Utilization



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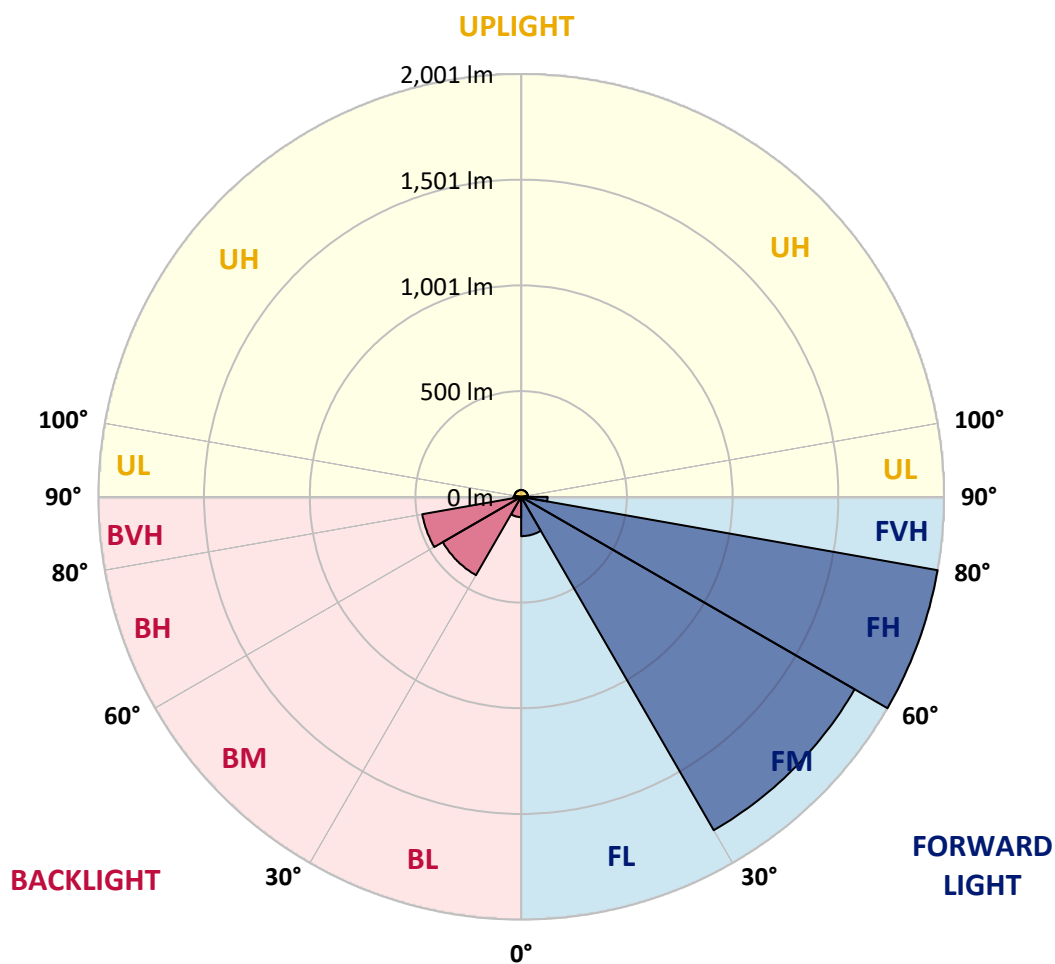
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.2	3.6			
FM	(30°-60°)	1822.6	34.8			
FH	(60°-80°)	2001.5	38.2			G2/5000
FVH	(80°-90°)	124.8	2.4			G2/225
BL	(0°-30°)	95.9	1.8	B0/110		
BM	(30°-60°)	428.3	8.2	B1/1000		
BH	(60°-80°)	475.2	9.1	B1/500		G1/500
BVH	(80°-90°)	37.4	0.7			G1/100
UL	(90°-100°)	32.7	0.6		U2/50	
UH	(100°-180°)	32.3	0.6		U2/50	

BUG Rating: B1-U2-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	36.5	32.5	33.9	29.9	25.2	20.6	17.3	15.2	15.2	14.6	13.3
5°	126.6	129.3	145.3	122.0	110.8	144.5	40.4	23.2	21.9	15.2	12.6
7.5°	169.1	177.1	126.6	105.5	98.8	159.2	118.7	65.0	53.7	19.8	13.9
10°	320.3	298.4	201.6	220.1	204.9	130.6	86.8	88.9	81.5	32.5	22.5
12.5°	286.5	289.8	296.5	269.2	277.2	205.6	105.5	173.1	185.1	208.3	195.6
15°	334.2	320.3	269.2	293.1	279.2	325.0	273.2	254.6	279.9	287.8	239.4
17.5°	453.6	443.7	515.3	351.5	255.3	365.4	325.0	297.8	283.2	315.7	381.4
20°	417.2	417.8	447.6	397.2	412.5	336.2	326.9	480.8	576.9	547.1	531.8
22.5°	628.0	608.8	506.0	394.6	435.7	385.2	459.6	536.4	509.3	496.7	536.4
25°	610.1	617.4	586.9	592.9	436.4	515.3	478.8	512.0	544.4	781.2	880.7
27.5°	750.0	708.9	673.7	614.1	600.8	484.8	462.9	695.6	714.2	783.2	825.6
30°	986.7	966.2	901.8	700.9	627.4	521.2	633.3	665.8	677.7	921.8	1140.6
32.5°	1252.7	1177.1	991.4	917.2	682.4	643.2	596.2	842.2	828.3	1021.9	1152.6
35°	1448.3	1403.2	1228.2	997.4	820.3	687.7	802.4	809.7	880.7	1069.7	1163.2
37.5°	1407.2	1419.8	1347.5	1190.3	902.5	743.4	868.1	943.0	949.6	1158.5	1232.8
40°	1514.0	1521.9	1496.7	1321.0	1041.2	855.5	975.5	1045.8	990.1	1267.9	1317.7
42.5°	1576.3	1588.9	1637.3	1510.7	1174.4	978.1	1144.0	1094.1	1045.1	1362.1	1498.7
45°	1712.2	1705.6	1726.8	1576.3	1372.1	1230.8	1200.9	1185.7	1204.3	1531.3	1673.1
47.5°	1901.9	1928.5	1823.6	1608.2	1520.6	1293.1	1360.7	1390.0	1460.3	1750.1	1850.2
50°	2182.5	2148.6	2023.3	1749.3	1667.1	1375.4	1667.1	1533.2	1496.7	1949.6	2114.7
52.5°	2296.5	2274.6	2096.8	1809.1	1758.7	1531.3	1718.9	1685.1	1672.4	2225.5	2409.3
55°	2341.5	2325.7	2252.0	1819.7	1841.5	1764.0	1971.5	2010.7	1989.4	2400.6	2706.3
57.5°	2222.3	2248.8	2254.1	1862.8	1897.9	1791.2	2368.7	2085.6	2237.5	2620.1	2937.1
60°	2060.4	2061.8	2132.0	1857.5	1950.4	1964.9	2455.0	2416.5	2558.4	2736.2	3000.7
62.5°	1660.6	1707.6	1823.6	1820.3	2023.3	2190.3	2878.7	2630.7	2686.4	2854.2	3200.3
65°	1101.5	1126.7	1267.2	1509.4	1893.3	2370.1	3226.9	2963.6	3042.6	3079.0	3490.8
67.5°	657.1	688.3	708.3	964.2	1581.0	2405.9	3949.0	3554.4	3482.8	3419.2	3782.0
70°	549.1	569.7	512.0	576.9	966.2	2184.4	4297.2	4419.2	4186.4	3879.4	3843.6
72.5°	460.2	505.3	436.4	461.6	588.2	1296.5	4022.7	5036.6	4867.5	3956.4	3467.6
75°	341.6	404.5	363.5	414.5	543.1	665.8	3035.2	4256.1	4203.0	3429.1	2573.6
77.5°	266.6	277.8	227.5	313.0	521.9	550.4	1821.0	2805.7	2760.0	2186.4	1193.7
80°	187.0	191.6	179.7	163.2	403.1	516.0	922.4	1555.7	1458.9	679.0	396.6
82.5°	118.0	126.0	140.6	110.8	195.6	481.4	508.6	685.1	610.1	230.8	196.9
85°	71.0	77.5	86.8	77.5	91.6	368.1	393.9	352.1	321.6	140.6	124.7
87.5°	41.1	43.1	52.4	53.7	68.3	214.2	314.4	262.0	230.1	93.5	80.9
90°	28.5	26.5	26.5	27.8	35.2	93.5	153.9	91.6	92.2	49.1	42.5
92.5°	21.9	21.9	23.8	23.8	33.9	82.2	71.0	49.1	46.4	41.1	33.9
95°	16.6	17.9	17.9	19.2	23.2	25.2	35.2	36.5	36.5	37.1	29.9
97.5°	13.9	15.2	15.2	16.0	18.6	19.2	24.6	31.8	31.8	31.2	24.6
100°	13.3	13.9	13.3	13.3	15.2	14.6	19.8	27.2	28.5	27.2	21.2
102.5°	12.6	13.3	12.0	10.6	13.3	10.6	16.6	24.6	25.2	19.8	16.6
105°	12.6	12.6	10.6	8.6	10.6	8.6	13.9	17.3	17.3	13.9	16.0
107.5°	12.6	12.0	9.3	7.3	8.0	7.3	11.3	11.3	11.3	10.6	15.2
110°	11.3	10.6	8.6	6.6	5.9	5.9	8.0	8.0	8.0	9.3	15.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	9.9	9.3	7.3	5.3	4.6	4.6	5.3	5.9	5.9	8.6	14.6
115°	8.6	8.6	6.6	5.3	4.0	4.0	4.6	5.3	5.3	8.0	13.9
117.5°	8.6	8.6	5.9	4.6	3.3	3.3	4.0	4.6	4.6	8.0	14.6
120°	8.6	8.6	5.9	4.0	3.3	2.7	3.3	4.0	4.0	8.6	15.2
122.5°	8.0	8.0	5.9	4.0	2.7	2.7	2.7	4.0	4.0	8.0	13.9
125°	8.0	8.0	5.3	4.0	2.7	2.7	2.7	3.3	4.0	8.6	13.9
127.5°	7.3	7.3	5.9	4.0	2.7	1.9	2.7	3.3	3.3	8.0	13.3
130°	7.3	7.3	5.3	3.3	1.9	1.9	1.9	2.7	3.3	7.3	12.0
132.5°	6.6	6.6	4.6	3.3	1.9	1.3	1.9	2.7	2.7	6.6	10.6
135°	6.6	6.6	5.3	3.3	1.9	1.3	1.9	2.7	2.7	5.9	9.3
137.5°	5.9	5.9	4.6	3.3	1.9	1.3	1.3	1.9	2.7	5.9	8.6
140°	5.9	5.9	5.3	4.0	1.9	1.3	1.3	1.9	1.9	4.6	6.6
142.5°	6.6	6.6	5.3	3.3	1.9	1.3	1.3	1.3	1.9	3.3	5.3
145°	5.9	5.9	4.6	3.3	1.9	0.6	0.6	1.3	1.9	3.3	4.6
147.5°	5.9	5.9	5.3	3.3	1.3	0.6	0.6	1.3	1.3	2.7	4.0
150°	5.3	5.3	4.0	1.9	0.6	0.0	0.6	1.3	1.3	1.9	3.3
152.5°	4.0	4.0	2.7	1.3	0.0	0.0	0.0	0.6	0.6	1.3	1.9
155°	1.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3
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°	0.0	0.0	0.0	0.0	0.0	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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	13.3	13.3	13.3	13.3	12.6	12.6	12.0	12.0	12.0	12.0	12.0
5°	12.6	12.6	12.6	12.0	11.3	10.6	11.3	10.6	10.6	10.6	10.6
7.5°	13.3	13.3	12.0	11.3	11.3	11.3	14.6	88.2	195.0	167.2	173.7
10°	24.6	23.2	19.8	16.6	15.2	87.6	167.2	153.2	116.7	97.5	100.1
12.5°	243.4	218.8	141.3	98.1	112.7	116.0	104.8	114.8	187.0	171.1	171.8
15°	243.4	249.3	204.3	230.1	199.0	92.9	179.0	213.5	207.6	191.0	200.3
17.5°	411.1	408.5	254.6	234.1	192.3	194.3	168.5	146.6	136.0	134.0	136.0
20°	609.5	508.0	485.4	353.4	216.1	198.2	139.2	118.0	150.6	185.7	190.4
22.5°	536.4	536.4	435.7	315.7	267.3	169.8	151.9	150.6	180.3	178.4	187.0
25°	905.8	787.2	564.4	304.4	233.4	172.5	153.9	139.9	157.1	181.1	179.0
27.5°	835.5	775.2	557.7	366.0	183.0	187.7	141.9	137.9	177.1	190.4	191.6
30°	1054.4	971.5	563.6	275.2	184.3	144.5	131.3	140.6	147.9	160.5	161.8
32.5°	1092.2	988.8	541.1	248.1	194.3	139.2	133.3	132.7	150.6	173.1	175.0
35°	1069.0	949.0	509.9	208.9	195.0	140.6	136.6	151.2	137.9	161.1	164.5
37.5°	1228.2	968.8	460.2	195.0	179.0	144.5	179.0	144.5	143.9	151.2	152.5
40°	1226.2	1013.3	403.9	238.0	179.0	238.0	187.0	150.6	129.3	141.9	142.6
42.5°	1324.9	1038.5	354.1	245.4	192.9	275.9	174.4	146.6	153.9	161.8	169.8
45°	1439.0	1118.1	331.5	220.9	217.5	213.5	181.7	191.0	139.2	223.5	232.7
47.5°	1594.9	1220.2	301.1	216.1	295.1	214.8	346.2	177.7	153.2	264.6	269.9
50°	1827.6	1399.9	303.7	237.4	270.6	230.1	232.7	192.9	206.9	275.2	276.5
52.5°	2075.7	1550.5	285.8	262.0	266.0	282.5	248.1	288.5	203.6	264.6	264.6
55°	2295.2	1772.6	294.4	275.9	277.8	246.0	349.4	212.9	203.0	266.0	272.5
57.5°	2581.6	2010.0	353.4	288.5	285.2	262.6	269.9	263.9	238.8	270.6	274.6
60°	2733.5	2183.1	442.9	324.3	298.4	303.1	319.7	254.0	216.9	316.3	328.9
62.5°	2974.2	2432.5	561.0	367.3	378.7	310.4	272.5	276.5	230.8	252.0	254.6
65°	3252.1	2691.7	619.4	409.8	407.9	344.8	309.0	214.8	149.9	138.6	137.9
67.5°	3460.9	2791.8	567.0	458.3	508.6	330.9	212.2	152.5	115.4	108.7	110.8
70°	3326.3	2563.1	485.4	549.7	514.6	256.7	183.0	121.3	98.8	92.9	96.2
72.5°	2886.1	2071.0	445.6	580.2	451.6	173.1	136.6	106.8	88.9	82.9	84.2
75°	2039.9	1331.0	457.6	491.4	321.0	125.3	118.0	88.9	78.9	71.0	71.0
77.5°	895.9	570.3	358.7	354.1	205.6	99.4	100.1	73.7	68.3	61.0	61.0
80°	360.8	301.8	210.8	204.9	137.3	78.3	79.6	61.0	61.7	51.8	48.4
82.5°	191.0	172.5	117.3	110.1	98.1	60.4	56.4	52.4	51.8	42.5	37.1
85°	125.3	113.4	76.9	71.6	72.9	44.4	47.1	49.7	45.7	35.2	24.6
87.5°	77.5	76.9	54.4	51.8	54.4	31.8	38.5	40.4	38.5	26.5	16.0
90°	36.5	39.8	36.5	35.8	35.8	15.2	29.9	31.8	31.2	21.2	12.6
92.5°	28.5	32.5	33.9	34.5	34.5	16.0	31.2	33.1	31.8	21.9	13.9
95°	24.6	28.5	33.1	33.1	32.5	12.6	29.2	32.5	30.5	20.6	13.3
97.5°	20.6	23.8	28.5	28.5	31.2	10.6	27.2	31.2	30.5	21.9	13.9
100°	19.2	22.5	25.2	25.9	28.5	9.9	24.6	27.8	27.2	17.9	14.6
102.5°	17.9	19.2	19.8	20.6	21.2	9.3	19.2	21.2	20.6	13.3	13.3
105°	16.6	16.6	14.6	13.9	13.9	8.6	12.0	14.6	12.0	10.6	12.0
107.5°	16.6	16.0	12.0	10.6	10.6	8.0	9.3	9.3	8.0	10.6	11.3
110°	16.6	15.2	10.6	9.3	8.6	7.3	7.3	6.6	6.6	10.6	11.3



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CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.0	14.6	9.3	8.0	8.0	6.6	5.9	5.3	5.9	10.6	12.0
115°	15.2	13.9	8.6	8.0	7.3	5.9	5.3	4.0	5.9	11.3	12.6
117.5°	15.2	13.9	8.6	7.3	6.6	5.3	4.6	4.0	5.9	11.3	12.6
120°	16.0	13.9	8.6	6.6	5.9	4.6	4.0	4.0	5.9	11.3	12.6
122.5°	15.2	13.3	8.0	5.9	5.3	4.6	4.0	4.0	5.9	11.3	12.0
125°	14.6	13.3	8.0	5.3	4.6	4.0	3.3	3.3	6.6	11.3	12.0
127.5°	13.9	12.6	7.3	4.6	4.0	4.0	3.3	3.3	6.6	10.6	11.3
130°	12.6	11.3	7.3	4.6	3.3	3.3	2.7	2.7	6.6	10.6	11.3
132.5°	11.3	10.6	6.6	4.0	2.7	2.7	2.7	2.7	5.9	9.3	9.9
135°	9.9	8.6	5.9	3.3	2.7	1.9	1.9	1.9	5.3	8.0	8.6
137.5°	8.6	8.0	5.3	3.3	1.9	1.9	1.3	1.3	4.6	7.3	8.0
140°	7.3	6.6	4.6	2.7	1.9	1.9	1.3	1.3	3.3	5.3	5.9
142.5°	5.3	5.3	4.0	2.7	1.9	1.3	1.3	1.3	3.3	4.6	5.3
145°	4.6	4.6	4.0	2.7	1.9	1.3	0.6	0.6	1.9	3.3	3.3
147.5°	4.0	4.0	3.3	2.7	1.3	0.6	0.6	0.6	1.3	1.9	1.9
150°	3.3	3.3	2.7	1.9	1.3	0.6	0.0	0.0	0.6	1.3	1.3
152.5°	1.9	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	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)