

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: P240535

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240535
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 5072.8 lumens
Efficiency: N/A
Efficacy: 93.9 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

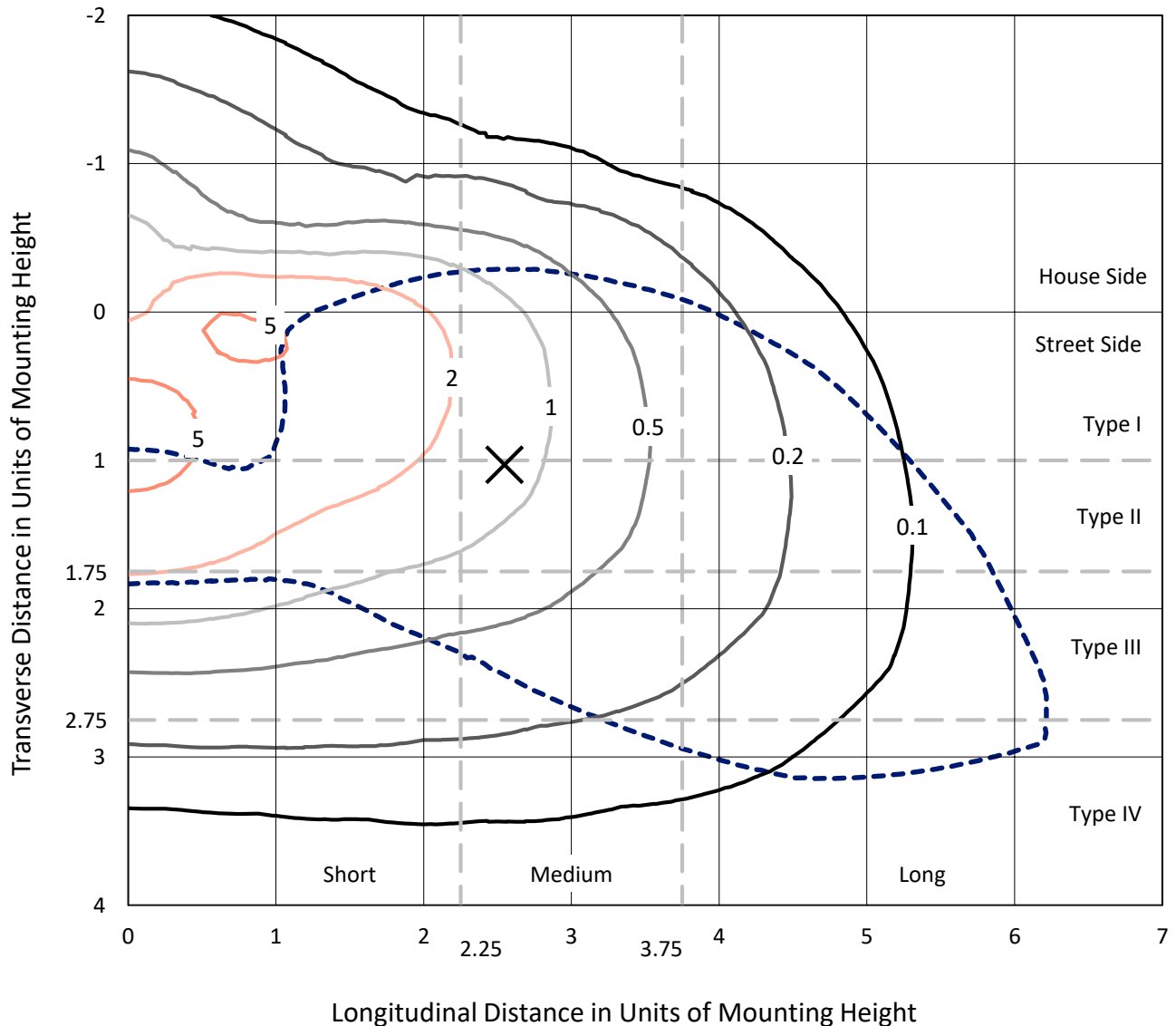


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

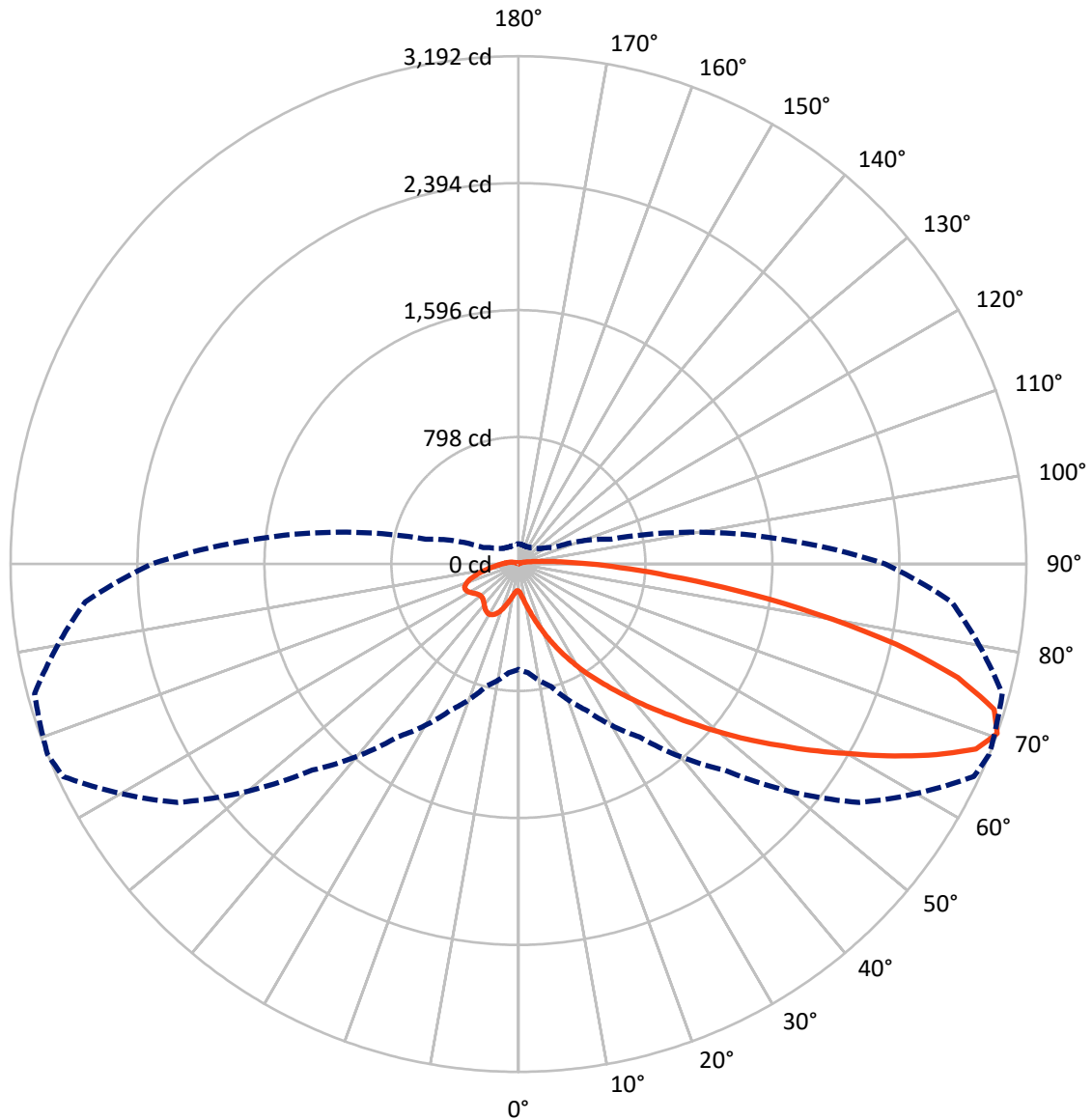


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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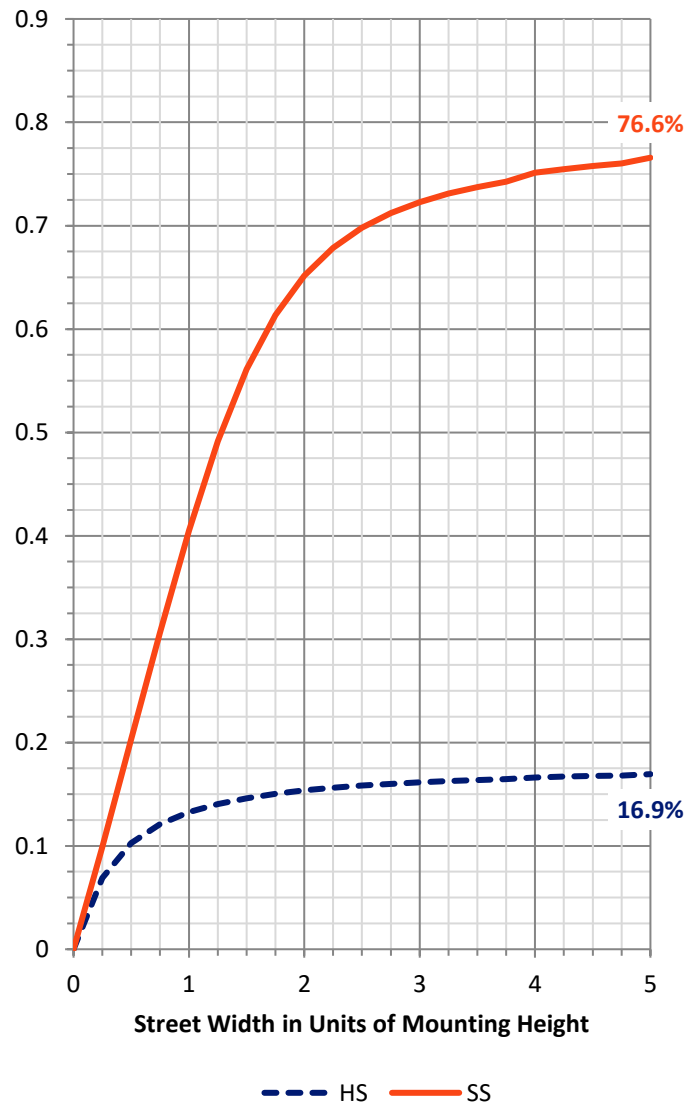
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.7	82.3	979.0
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	3981.0	112.8	4093.7
	% Fixture	78.5	2.2	80.7
Total	Lumens	4877.6	195.1	5072.8
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.4
10°-20°	80.5	1.6
20°-30°	203.6	4.0
30°-40°	394.7	7.8
40°-50°	665.4	13.1
50°-60°	994.9	19.6
60°-70°	1206.3	23.8
70°-80°	941.2	18.6
80°-90°	372.4	7.3
90°-100°	114.0	2.2
100°-110°	44.8	0.9
110°-120°	19.9	0.4
120°-130°	9.8	0.2
130°-140°	4.8	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4877.6	96.2
0°-180°	5072.8	100.0

Coefficient of Utilization



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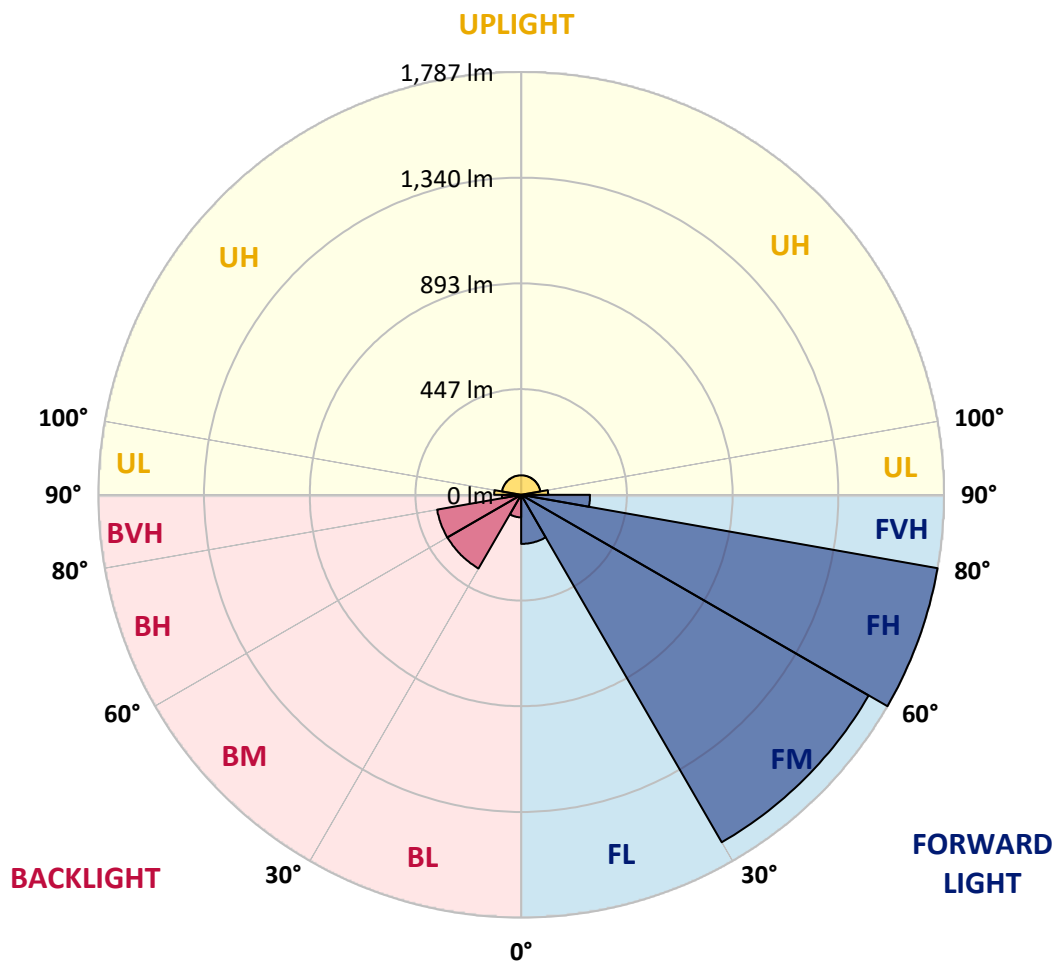
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.4	4.1			
FM	(30°-60°)	1695.5	33.4			
FH	(60°-80°)	1786.9	35.2			G1/1800
FVH	(80°-90°)	291.1	5.7			G3/500
BL	(0°-30°)	95.3	1.9	B0/110		
BM	(30°-60°)	359.4	7.1	B1/1000		
BH	(60°-80°)	360.6	7.1	B1/500		G1/500
BVH	(80°-90°)	81.3	1.6			G1/100
UL	(90°-100°)	114.0	2.2		U3/500	
UH	(100°-180°)	82.3	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°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
2.5°	189.7	190.4	190.4	188.3	187.7	185.7	182.4	181.1	179.7	178.4	175.7
5°	214.9	214.9	213.6	211.5	208.9	206.9	203.6	199.7	199.0	194.4	189.7
7.5°	243.4	244.1	244.7	241.4	237.4	234.2	230.2	224.8	223.5	218.9	210.2
10°	281.2	281.8	280.5	277.2	271.9	267.9	263.3	258.0	256.0	252.1	240.1
12.5°	326.9	326.3	322.3	317.7	311.7	307.1	301.1	297.2	295.8	291.8	279.3
15°	375.4	378.1	373.4	362.7	355.5	348.2	345.6	345.6	346.9	342.2	330.3
17.5°	437.7	439.8	431.8	417.2	405.2	397.3	394.7	400.0	401.9	403.9	393.3
20°	510.0	510.7	498.1	477.5	456.3	446.3	447.0	459.6	464.2	471.6	459.0
22.5°	598.2	592.9	575.0	543.2	512.7	496.7	502.7	527.9	531.9	547.2	540.5
25°	690.4	689.8	659.9	617.5	573.1	552.5	562.4	593.6	604.9	628.1	619.5
27.5°	796.6	793.9	755.4	703.0	642.6	612.1	620.7	665.2	678.5	717.6	708.3
30°	909.3	909.9	864.8	791.9	717.0	674.5	679.9	741.4	758.7	803.8	801.2
32.5°	1043.9	1035.9	985.5	890.1	797.9	740.2	747.5	819.1	842.9	896.7	888.7
35°	1179.3	1169.2	1102.2	997.5	882.1	813.8	817.1	901.9	927.2	996.9	981.5
37.5°	1303.9	1298.6	1231.6	1110.9	976.3	895.4	899.4	990.8	1022.6	1100.3	1081.7
40°	1437.9	1437.9	1369.5	1238.3	1081.1	983.6	989.5	1089.6	1128.1	1213.0	1181.8
42.5°	1579.8	1575.1	1502.8	1354.3	1185.2	1078.4	1090.4	1201.0	1244.2	1334.4	1302.5
45°	1719.8	1709.8	1634.9	1480.3	1289.3	1185.2	1203.1	1323.1	1368.2	1483.0	1438.6
47.5°	1840.5	1829.9	1756.2	1593.8	1398.8	1296.0	1321.1	1465.1	1512.8	1649.4	1581.8
50°	1926.6	1923.4	1851.7	1683.9	1496.3	1410.0	1463.0	1616.3	1673.3	1811.2	1747.6
52.5°	1977.1	1971.1	1914.0	1765.5	1593.8	1528.1	1609.0	1780.8	1841.1	1989.6	1915.4
55°	1965.8	1961.8	1921.4	1808.6	1670.0	1641.4	1770.8	1963.8	2020.2	2180.7	2092.4
57.5°	1876.9	1882.2	1870.3	1811.2	1726.3	1758.9	1936.7	2156.8	2216.5	2373.0	2278.8
60°	1718.5	1716.4	1750.3	1760.2	1748.9	1860.3	2136.9	2377.0	2422.8	2580.6	2460.6
62.5°	1484.3	1479.0	1552.6	1647.5	1732.4	1945.9	2317.3	2611.8	2657.5	2784.9	2628.4
65°	1197.2	1221.0	1313.2	1469.7	1650.1	1978.4	2492.4	2851.2	2889.0	2956.6	2760.3
67.5°	907.3	930.5	1049.9	1248.2	1512.8	1940.6	2603.8	3066.1	3102.5	3120.5	2818.0
70°	662.6	685.1	797.9	1015.4	1326.5	1831.2	2612.4	3159.0	3192.1	3148.3	2733.1
72.5°	471.6	483.4	580.3	786.5	1114.2	1639.5	2503.7	3099.2	3126.4	3005.0	2509.0
75°	333.6	338.9	422.5	598.2	907.3	1422.6	2245.0	2831.9	2853.2	2700.7	2133.6
77.5°	227.5	239.5	305.8	456.3	727.5	1167.9	1902.8	2428.1	2428.1	2234.4	1687.9
80°	161.1	171.1	219.5	340.8	569.7	935.8	1537.4	1929.3	1898.8	1679.3	1216.4
82.5°	116.1	124.0	162.4	260.0	442.3	739.5	1166.6	1428.6	1386.8	1171.9	803.8
85°	84.2	92.2	123.4	191.0	338.9	573.7	874.1	992.2	951.0	776.6	521.9
87.5°	61.7	67.0	92.2	143.9	256.7	434.4	641.3	673.8	637.4	502.1	334.9
90°	43.8	48.4	70.3	108.7	192.3	326.3	450.3	442.3	402.5	315.7	221.5
92.5°	31.8	35.2	52.4	82.9	143.2	239.5	309.7	285.8	263.3	203.0	153.9
95°	23.8	26.5	41.1	64.3	105.5	168.5	208.9	187.7	170.4	138.6	113.4
97.5°	19.2	21.2	33.9	51.8	81.5	122.7	144.5	124.0	116.1	100.1	87.6
100°	16.6	17.9	28.5	43.1	64.3	92.2	102.1	86.8	82.2	75.6	68.3
102.5°	15.2	16.0	25.2	37.1	52.4	68.9	73.7	65.0	61.7	57.7	53.7
105°	13.9	14.6	22.5	32.5	44.4	53.7	56.4	49.7	47.8	43.8	41.1
107.5°	13.3	13.3	19.9	28.5	37.8	44.4	44.4	39.2	37.1	33.1	31.8
110°	12.6	12.6	17.9	25.9	32.5	37.8	36.5	31.2	29.2	25.2	24.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	12.0	12.0	16.6	22.5	28.5	31.8	30.5	25.2	23.2	19.2	19.2
115°	11.3	11.3	14.6	19.9	25.2	27.2	25.9	20.6	19.2	15.2	16.0
117.5°	11.3	11.3	13.9	17.9	21.9	23.8	21.9	16.6	15.2	12.6	13.9
120°	10.6	10.6	12.6	16.0	19.2	20.6	18.6	13.9	12.6	10.6	12.0
122.5°	10.6	10.6	12.0	13.9	17.3	17.9	16.0	12.0	10.6	9.3	10.6
125°	9.9	9.9	11.3	12.6	14.6	15.2	13.3	9.9	9.3	8.6	9.3
127.5°	9.9	9.9	10.6	11.3	13.3	13.3	11.3	8.0	8.0	7.3	8.6
130°	9.3	9.9	9.9	10.6	11.3	11.3	9.3	6.6	6.6	6.6	8.0
132.5°	9.3	9.3	9.3	9.3	9.9	9.3	7.3	5.9	5.9	5.9	7.3
135°	8.6	8.6	8.6	8.6	8.0	7.3	5.9	4.6	4.6	5.3	6.6
137.5°	8.6	8.6	8.0	7.3	7.3	5.9	4.6	4.0	4.0	5.3	5.9
140°	8.0	8.0	7.3	6.6	5.3	4.6	3.3	3.3	3.3	4.0	4.6
142.5°	6.6	6.6	6.6	5.3	4.0	2.7	1.9	1.9	2.7	3.3	4.0
145°	5.9	5.9	5.3	4.6	2.7	1.3	0.6	1.3	1.9	2.7	3.3
147.5°	4.6	4.6	4.0	3.3	1.3	0.6	0.0	0.6	1.3	1.3	1.9
150°	3.3	3.3	3.3	1.9	0.6	0.0	0.0	0.6	0.6	0.6	1.3
152.5°	2.7	2.7	1.9	1.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6
155°	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	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°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
2.5°	173.8	173.1	169.8	167.2	163.8	161.1	158.6	156.5	155.9	154.6	155.2
5°	185.7	183.0	176.5	170.4	163.8	157.8	152.5	148.5	145.3	143.9	143.2
7.5°	206.2	202.2	190.4	179.7	169.1	158.6	149.9	143.2	139.3	136.7	136.7
10°	236.1	227.5	212.3	194.4	176.5	161.1	149.2	139.9	134.0	132.0	132.0
12.5°	272.6	263.3	239.5	212.3	187.0	165.8	149.9	139.9	134.0	131.3	130.6
15°	321.0	307.1	271.9	233.4	197.0	169.8	150.6	140.6	136.7	135.3	135.3
17.5°	378.1	360.8	309.7	256.7	208.3	171.8	152.5	144.5	142.6	142.6	142.6
20°	445.7	420.4	352.2	277.2	216.3	173.8	153.9	147.9	147.9	149.2	149.9
22.5°	518.0	486.1	393.3	296.5	218.9	175.1	153.2	149.2	152.5	155.9	156.5
25°	594.9	550.4	430.5	308.4	220.1	171.8	151.2	149.9	156.5	161.1	162.4
27.5°	676.5	616.1	462.3	313.0	216.3	165.8	147.9	148.5	158.6	165.1	166.4
30°	751.5	677.8	487.4	311.7	207.6	158.6	143.9	146.6	158.6	167.8	169.8
32.5°	829.0	738.9	502.7	305.8	197.0	150.6	139.3	144.5	157.8	168.5	170.4
35°	906.6	792.6	510.0	293.8	185.1	143.2	134.6	141.3	155.9	167.8	169.1
37.5°	984.2	845.6	512.0	278.5	174.4	137.3	131.3	139.3	152.5	166.4	168.5
40°	1067.8	898.0	508.0	263.3	164.5	133.3	128.7	136.7	149.9	164.5	167.2
42.5°	1161.3	953.7	503.4	248.1	157.8	130.6	126.6	134.0	145.9	162.4	165.8
45°	1265.4	1014.8	500.7	236.1	153.9	129.3	126.0	132.0	143.9	161.1	164.5
47.5°	1377.5	1091.7	503.4	228.1	151.9	130.0	126.0	130.6	141.3	158.6	162.4
50°	1514.2	1179.9	513.3	222.2	151.2	130.6	126.6	129.3	138.6	154.6	158.6
52.5°	1655.4	1270.1	529.3	220.9	151.9	132.0	127.4	128.7	134.6	149.2	152.5
55°	1801.9	1389.5	556.5	222.8	153.2	134.0	128.0	127.4	131.3	142.6	146.6
57.5°	1967.7	1513.5	590.2	227.5	155.2	135.3	128.7	126.0	127.4	136.7	139.9
60°	2132.2	1639.5	624.7	233.4	159.2	137.3	129.3	125.3	125.3	132.7	135.3
62.5°	2281.5	1750.3	653.3	241.4	162.4	138.6	129.3	124.0	123.4	129.3	132.0
65°	2383.6	1808.6	659.9	246.0	165.8	139.3	128.0	122.7	122.0	126.6	129.3
67.5°	2410.8	1799.4	646.6	248.1	167.8	139.3	128.0	121.3	122.0	126.0	128.0
70°	2304.7	1703.1	602.8	244.1	167.2	138.6	126.6	120.1	121.3	125.3	126.6
72.5°	2051.3	1504.1	535.2	234.2	163.8	136.0	124.0	118.0	120.1	124.7	126.0
75°	1721.7	1246.2	455.0	218.2	157.8	132.7	121.3	115.4	118.8	123.4	124.0
77.5°	1324.4	955.0	372.0	197.6	149.9	128.0	117.4	111.4	116.1	121.3	120.7
80°	940.5	696.4	293.8	176.5	139.3	121.3	112.1	106.8	112.1	117.4	116.1
82.5°	647.9	472.2	234.8	155.9	128.0	114.1	106.1	101.5	107.4	112.1	110.1
85°	424.4	319.1	185.1	136.7	117.4	106.8	99.5	94.8	100.8	104.8	102.1
87.5°	273.9	222.2	147.9	118.8	106.1	98.8	92.2	88.2	94.2	97.5	94.8
90°	190.4	161.8	122.0	102.8	95.5	90.2	84.9	80.9	86.2	88.9	87.6
92.5°	136.0	124.0	101.5	90.2	86.2	81.5	76.9	73.7	79.0	80.9	79.6
95°	106.1	98.8	86.2	79.6	77.6	74.3	69.7	66.3	70.3	71.6	71.0
97.5°	84.9	81.5	74.3	70.3	68.9	66.3	63.0	59.7	62.3	63.0	62.3
100°	68.3	67.0	63.6	61.7	61.0	59.0	55.8	53.1	54.4	53.7	53.7
102.5°	54.4	54.4	53.7	53.1	53.1	51.0	48.4	45.7	45.7	44.4	44.4
105°	43.1	44.4	44.4	45.1	45.7	44.4	41.7	38.5	37.8	35.8	35.8
107.5°	33.9	35.2	37.1	37.8	38.5	37.1	35.2	31.8	29.9	27.8	28.5
110°	26.5	27.8	30.5	31.8	32.5	31.8	29.2	26.5	23.2	21.9	22.5



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.6	22.5	25.2	26.5	27.2	26.5	23.8	21.2	17.9	17.3	17.3
115°	17.3	18.6	21.2	22.5	22.5	21.9	19.9	16.6	13.9	13.3	13.9
117.5°	14.6	16.0	17.9	19.2	19.2	18.6	16.6	13.3	11.3	11.3	11.3
120°	12.6	13.9	15.2	16.6	16.6	16.0	13.9	10.6	9.3	9.3	9.3
122.5°	11.3	12.0	13.3	13.9	13.9	13.3	11.3	8.6	7.3	8.0	8.0
125°	9.9	10.6	12.0	12.6	12.0	11.3	9.3	6.6	5.9	6.6	6.6
127.5°	9.3	9.9	10.6	10.6	10.6	9.3	8.0	5.3	5.3	5.9	5.9
130°	8.6	8.6	9.3	9.3	8.6	8.0	5.9	4.0	4.0	5.3	5.3
132.5°	8.0	8.0	8.6	8.0	8.0	6.6	4.6	3.3	4.0	4.6	4.6
135°	6.6	6.6	7.3	7.3	5.9	5.3	3.3	2.7	2.7	3.3	4.0
137.5°	5.9	6.6	6.6	5.9	5.3	4.0	2.7	1.9	2.7	2.7	3.3
140°	5.3	5.3	5.3	4.6	4.0	2.7	1.3	1.3	1.9	1.9	1.9
142.5°	4.0	4.6	4.6	4.0	2.7	1.3	0.6	0.6	1.3	1.3	1.3
145°	3.3	3.3	3.3	2.7	1.9	1.3	0.6	0.6	0.6	0.6	0.6
147.5°	1.9	2.7	2.7	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0
150°	1.3	1.3	1.9	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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	0.6	0.6	0.6	0.6	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)