

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: P157193

Luminaire Tested: **UTLD-F02-LED-E-U-T4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157193  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F02-LED-E-U-T4-8030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3674.5 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

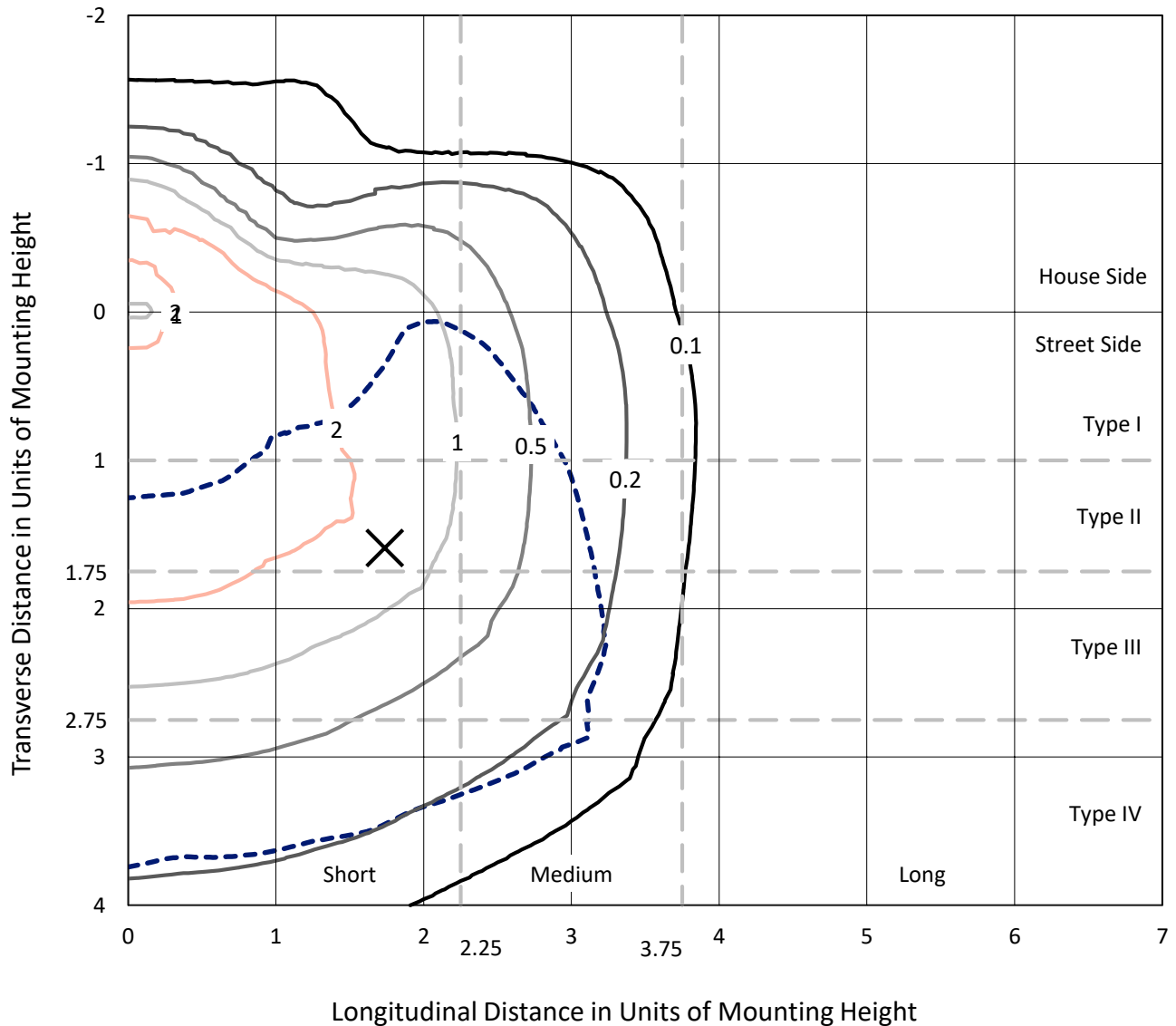
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

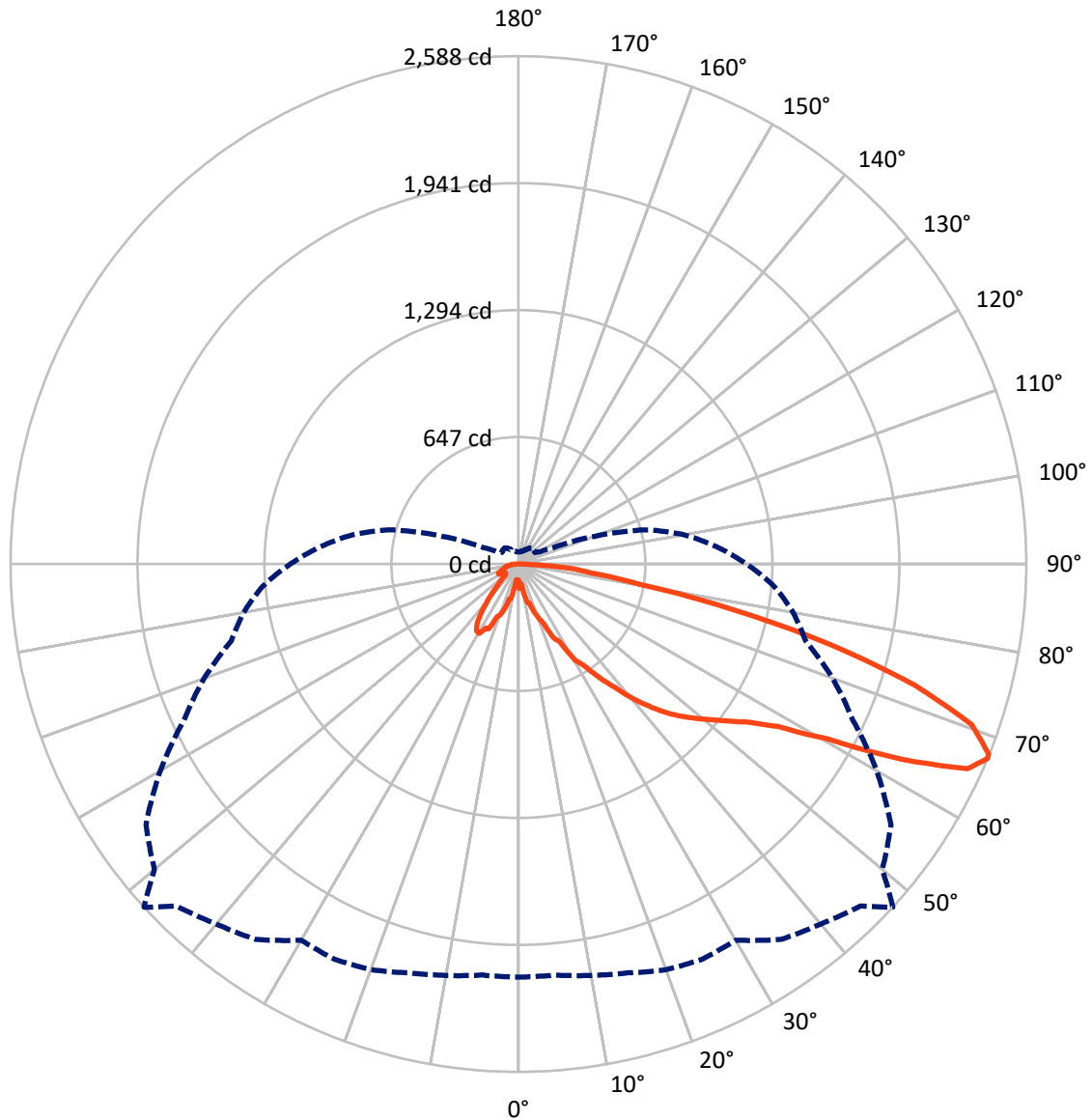
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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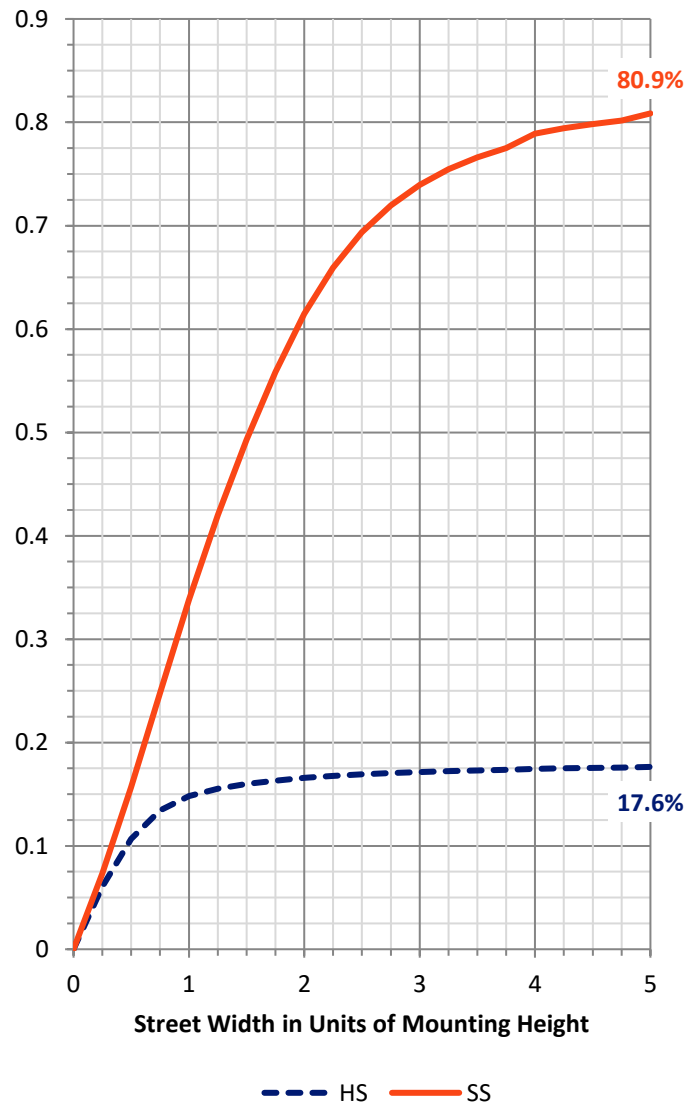
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	659.5	0.0	659.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	3015.0	0.0	3015.0
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	3674.5	0.0	3674.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.7	0.3
10°-20°	60.3	1.6
20°-30°	177.6	4.8
30°-40°	349.2	9.5
40°-50°	487.6	13.3
50°-60°	679.7	18.5
60°-70°	1089.2	29.6
70°-80°	698.7	19.0
80°-90°	121.5	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3674.5	100.0
0°-180°	3674.5	100.0



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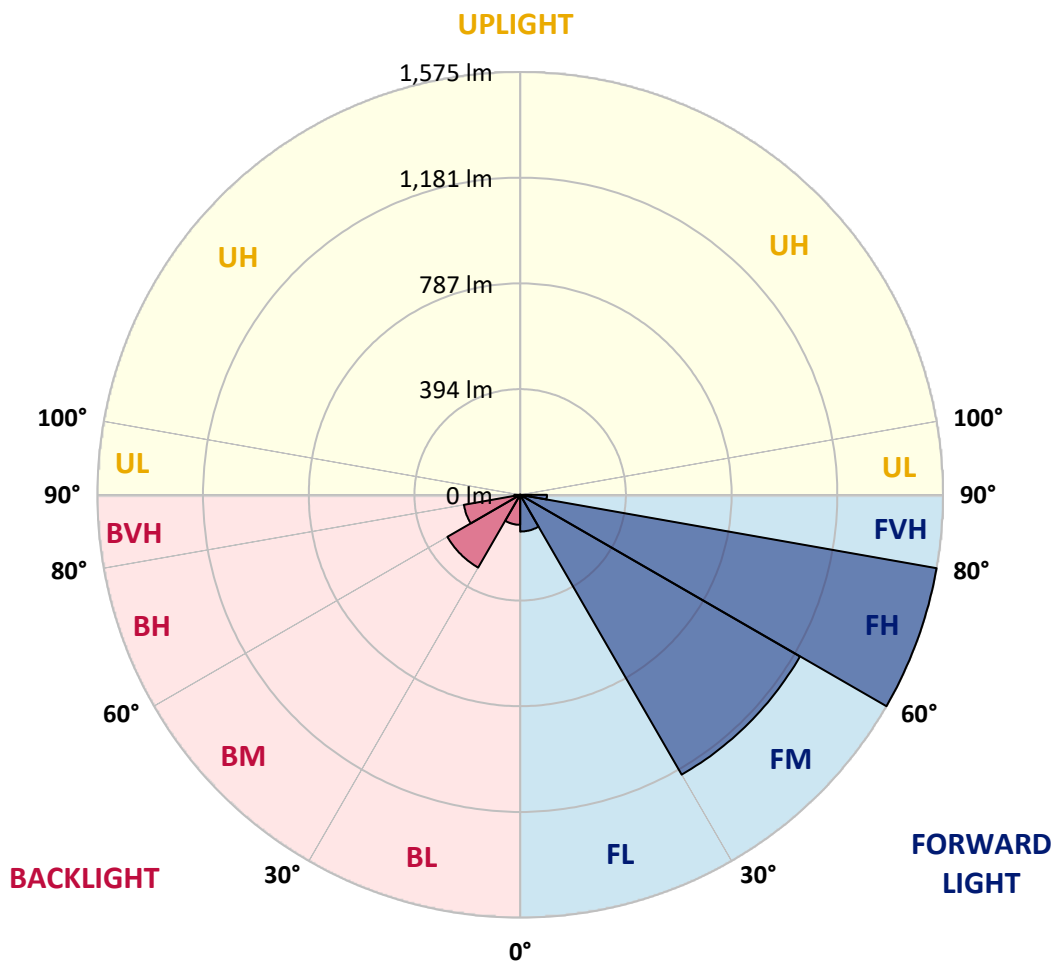
CATALOG NUMBER: UTLD-F02-LED-E-U-T4-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.9	3.7			
FM (30°-60°)	1203.5	32.8			
FH (60°-80°)	1575.0	42.9			G1/1800
FVH (80°-90°)	99.6	2.7			G1/100
BL (0°-30°)	111.7	3.0	B1/500		
BM (30°-60°)	312.9	8.5	B1/1000		
BH (60°-80°)	213.0	5.8	B1/500		G1/500
BVH (80°-90°)	21.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
2.5°	126.8	127.5	126.8	127.5	127.5	126.8	126.8	126.8	128.9	122.6	125.4
5°	100.3	101.0	101.0	101.0	101.0	101.0	101.7	103.8	101.7	102.4	102.4
7.5°	153.3	154.7	154.7	153.3	154.0	154.0	153.3	109.4	105.9	103.8	101.7
10°	156.8	158.2	158.2	155.4	156.1	156.8	156.8	156.1	154.7	149.8	149.1
12.5°	212.5	213.2	212.5	211.8	210.4	203.4	186.7	162.3	154.7	195.8	199.3
15°	227.8	227.1	225.7	222.3	220.2	216.7	212.5	247.3	243.2	210.4	206.2
17.5°	289.1	289.1	287.8	287.1	278.0	275.2	266.8	262.0	257.1	250.1	254.3
20°	350.5	347.0	316.3	299.6	289.1	320.5	319.8	310.7	318.4	292.6	291.9
22.5°	372.8	370.7	367.9	358.8	356.0	377.6	356.7	350.5	357.4	330.3	329.6
25°	459.8	459.1	446.6	439.6	418.0	406.9	414.6	409.0	389.5	388.8	417.3
27.5°	497.5	492.6	483.5	471.7	493.3	484.2	485.6	438.2	475.2	456.4	448.7
30°	594.3	596.4	580.4	586.0	581.1	537.9	523.9	537.2	535.1	520.5	567.1
32.5°	715.5	714.9	697.4	666.1	623.6	615.2	623.6	611.7	607.6	604.8	618.7
35°	849.3	839.6	779.6	765.0	741.3	723.9	716.9	687.0	699.5	665.4	712.1
37.5°	914.1	915.5	892.5	892.5	867.4	841.7	809.6	813.1	785.9	765.0	797.8
40°	1010.3	1013.8	992.2	980.3	969.2	928.7	907.1	891.1	890.4	871.6	905.1
42.5°	1056.9	1062.5	1043.0	1036.7	1044.4	1017.9	983.1	982.4	986.6	960.8	999.8
45°	1105.0	1112.0	1091.8	1100.1	1091.8	1087.6	1040.9	1064.6	1076.5	1047.9	1090.4
47.5°	1161.5	1170.5	1162.9	1158.0	1149.6	1149.6	1115.5	1131.5	1148.9	1124.5	1169.1
50°	1231.8	1238.1	1229.7	1227.6	1215.1	1213.0	1190.7	1201.9	1215.8	1190.7	1243.7
52.5°	1325.2	1326.6	1321.0	1308.5	1289.7	1293.8	1280.6	1281.3	1286.9	1270.1	1328.7
55°	1442.9	1444.3	1443.6	1414.4	1431.8	1399.7	1378.1	1382.3	1379.5	1366.3	1422.0
57.5°	1590.0	1599.0	1603.2	1577.4	1593.4	1534.2	1521.7	1514.0	1523.8	1493.8	1562.1
60°	1824.1	1838.0	1831.0	1826.8	1814.3	1759.3	1743.2	1765.5	1755.1	1728.6	1810.1
62.5°	2124.3	2120.9	2138.3	2135.5	2139.0	2083.9	2046.3	2100.7	2118.8	2129.2	2191.2
65°	2201.7	2202.4	2224.7	2230.3	2257.4	2251.8	2226.1	2320.8	2351.5	2395.4	2515.9
67°	2105.5	2102.7	2129.2	2157.1	2200.3	2221.9	2213.5	2335.5	2395.4	2465.1	2588.4
67.5°	2075.6	2070.0	2098.6	2134.8	2179.4	2205.9	2199.6	2325.7	2388.4	2464.4	2584.9
70°	1879.8	1860.3	1896.5	1945.3	1985.7	2046.3	2049.1	2168.9	2256.0	2337.5	2449.7
72.5°	1629.0	1603.2	1635.9	1672.9	1702.8	1773.2	1777.4	1855.4	1944.6	2010.8	2114.6
75°	1293.1	1259.7	1290.4	1308.5	1319.6	1376.7	1381.6	1449.9	1515.4	1566.3	1646.4
77.5°	799.9	777.6	802.6	832.6	870.2	895.3	909.2	951.0	1022.8	1079.9	1123.1
80°	400.6	416.6	443.1	483.5	514.9	558.8	576.9	579.7	609.6	605.5	632.6
82.5°	278.7	296.1	333.7	359.5	369.3	383.2	405.5	398.5	378.3	374.8	372.1
85°	71.1	110.8	203.4	246.6	256.4	271.0	291.2	303.1	271.7	245.9	250.8
87.5°	19.5	23.7	69.7	103.1	111.5	82.2	106.6	127.5	82.9	55.0	57.8
90°	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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
2.5°	112.9	100.3	94.8	86.4	84.3	83.6	82.2	82.2	81.5	81.5	81.5
5°	104.5	115.7	125.4	128.2	122.6	91.3	88.5	83.6	82.9	82.9	83.6
7.5°	102.4	103.8	104.5	100.3	117.1	117.7	85.0	83.6	83.6	83.6	84.3
10°	149.1	110.8	139.3	144.2	147.7	172.1	170.0	128.9	124.0	126.8	131.0
12.5°	200.7	206.2	183.9	149.1	152.6	154.0	172.8	133.8	126.1	131.0	158.2
15°	205.5	204.8	214.6	240.4	209.0	202.8	216.0	185.3	183.9	172.8	202.1
17.5°	291.2	249.4	242.5	244.6	223.7	213.9	198.6	215.3	195.1	189.5	185.3
20°	302.4	277.3	264.8	308.7	335.8	307.3	291.9	296.8	279.4	268.9	266.8
22.5°	328.9	358.1	370.0	342.1	342.1	337.9	368.6	346.3	336.5	325.4	320.5
25°	428.5	381.1	418.0	448.0	433.4	422.2	399.2	406.9	375.5	374.8	360.9
27.5°	468.9	496.8	483.5	486.3	463.3	498.9	483.5	466.8	437.5	432.0	438.9
30°	572.7	544.2	556.7	566.4	556.0	553.9	537.9	514.2	493.3	478.0	475.9
32.5°	615.2	634.7	629.2	617.3	652.1	662.6	652.8	597.1	578.3	538.6	538.6
35°	699.5	689.8	738.5	726.7	712.8	699.5	690.5	652.1	611.0	569.2	558.1
37.5°	792.2	802.6	801.2	778.3	754.6	730.2	720.4	683.5	637.5	599.9	549.7
40°	887.6	868.1	858.4	838.2	795.0	773.4	758.7	737.8	667.5	625.0	551.8
42.5°	976.8	963.6	917.6	887.6	856.3	824.9	783.8	767.1	696.0	641.7	544.8
45°	1059.0	1036.0	986.6	948.3	896.7	871.6	813.8	782.4	727.4	643.1	526.0
47.5°	1128.0	1104.3	1054.2	989.4	942.0	905.8	851.4	824.2	757.4	659.1	526.0
50°	1194.9	1167.7	1113.4	1022.1	979.6	919.0	889.7	851.4	795.0	682.8	542.1
52.5°	1268.1	1235.3	1170.5	1066.7	1017.9	958.7	927.4	895.3	843.7	715.5	568.5
55°	1358.6	1319.6	1235.3	1135.0	1065.3	1011.7	981.7	948.3	894.6	753.2	601.3
57.5°	1488.9	1433.9	1334.2	1242.3	1157.3	1111.3	1068.8	1022.8	976.1	819.4	654.9
60°	1711.9	1652.0	1523.8	1440.8	1348.2	1286.9	1219.3	1183.1	1111.3	945.5	743.4
62.5°	2082.5	2005.9	1884.7	1728.6	1596.2	1471.5	1401.1	1348.9	1242.3	1056.3	857.0
65°	2357.8	2251.2	2088.8	1887.5	1728.6	1542.6	1474.3	1367.0	1239.5	1063.9	889.7
67°	2421.2	2317.3	2108.3	1879.8	1704.2	1515.4	1422.0	1309.2	1162.2	1013.1	858.4
67.5°	2419.8	2318.0	2097.9	1866.6	1690.3	1501.5	1401.1	1286.2	1136.4	997.0	848.6
70°	2281.1	2198.9	1961.3	1727.9	1544.0	1369.1	1237.4	1129.4	987.3	876.5	747.6
72.5°	1941.8	1891.6	1673.6	1461.8	1291.7	1145.4	1045.1	937.8	809.6	723.9	630.5
75°	1516.1	1445.0	1233.9	1068.8	931.5	834.0	753.9	657.7	556.7	507.2	471.7
77.5°	1010.3	940.6	743.4	581.1	483.5	401.3	340.0	271.7	211.1	216.7	233.4
80°	549.0	493.3	355.3	256.4	209.0	169.3	142.1	108.7	79.4	95.5	108.7
82.5°	333.7	292.6	227.1	177.7	145.6	123.3	100.3	74.6	57.1	64.8	78.7
85°	232.0	204.8	162.3	127.5	103.8	82.9	64.8	48.1	45.3	49.5	56.4
87.5°	77.3	96.1	73.2	59.2	57.1	51.6	43.2	34.8	27.2	34.1	43.9
90°	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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
2.5°	82.2	82.9	86.4	88.5	88.5	86.4	100.3	98.9	120.5	121.9	127.5
5°	89.2	89.9	117.1	126.8	127.5	110.1	85.7	82.2	80.8	80.1	82.2
7.5°	101.0	117.7	106.6	76.6	79.4	79.4	80.8	80.1	80.8	95.5	131.0
10°	169.3	126.8	119.8	102.4	82.9	89.2	128.9	129.6	131.7	137.3	138.0
12.5°	149.1	130.3	122.6	123.3	170.0	182.5	176.3	134.5	136.6	140.0	163.7
15°	172.8	170.7	180.5	178.4	173.5	184.6	182.5	218.1	224.3	191.6	192.3
17.5°	177.0	178.4	219.5	225.0	220.9	241.8	228.5	225.7	230.6	227.1	216.0
20°	266.8	296.8	287.8	242.5	250.1	277.3	270.3	232.0	265.5	268.2	248.7
22.5°	279.4	305.9	314.2	340.0	338.6	284.3	292.6	305.9	278.0	265.5	289.8
25°	374.8	400.6	413.9	376.9	341.4	371.4	355.3	304.5	317.0	296.1	296.1
27.5°	466.1	428.5	441.0	424.3	435.5	374.8	356.7	377.6	314.2	319.8	326.1
30°	486.3	477.3	486.3	466.1	436.9	426.4	387.4	370.0	374.8	328.2	324.0
32.5°	520.5	504.4	487.7	451.5	447.3	416.0	388.8	381.8	347.0	329.6	326.8
35°	516.3	479.4	467.5	444.5	411.8	386.7	360.2	340.7	314.9	310.0	306.6
37.5°	503.0	445.9	413.2	390.9	363.0	339.3	301.7	288.4	279.4	270.3	266.2
40°	482.8	411.1	356.0	321.9	293.3	268.2	243.9	231.3	225.0	228.5	232.7
42.5°	447.3	370.7	294.7	255.7	225.7	205.5	189.5	183.9	181.8	185.3	192.3
45°	419.4	319.8	237.6	193.0	167.9	154.7	143.5	139.3	142.1	144.9	148.4
47.5°	406.9	280.8	190.2	145.6	126.1	119.1	112.2	108.7	110.1	112.2	115.0
50°	403.4	258.5	158.9	115.0	101.7	94.8	89.9	88.5	89.2	88.5	89.9
52.5°	404.1	258.5	144.2	101.0	89.2	83.6	79.4	78.0	75.9	75.2	75.9
55°	418.7	265.5	140.7	98.2	87.1	80.8	76.6	75.9	73.2	71.1	70.4
57.5°	463.3	290.5	149.1	103.8	90.6	85.0	80.8	80.1	77.3	73.9	72.5
60°	551.8	345.6	171.4	116.4	99.6	94.8	92.0	91.3	87.1	82.2	78.0
62.5°	644.5	406.2	198.6	129.6	110.1	108.7	109.4	108.0	102.4	92.0	84.3
65°	685.6	429.9	209.0	131.0	110.1	112.9	115.0	115.7	106.6	94.1	84.3
67°	673.0	413.2	198.6	122.6	103.1	105.9	106.6	107.3	98.2	87.8	78.7
67.5°	666.8	406.2	195.1	121.2	102.4	104.5	103.8	103.8	95.5	86.4	77.3
70°	602.0	358.8	172.1	112.2	95.5	92.7	87.1	87.1	80.8	75.9	71.1
72.5°	510.7	304.5	149.8	106.6	90.6	82.9	76.6	75.9	71.8	69.7	66.9
75°	390.2	236.9	131.7	101.0	85.7	76.6	69.7	70.4	66.2	65.5	64.1
77.5°	232.0	160.9	114.3	94.1	81.5	72.5	64.8	66.2	61.3	60.6	60.6
80°	115.7	107.3	94.8	81.5	71.1	64.1	56.4	56.4	53.0	52.3	54.3
82.5°	87.1	80.8	70.4	62.0	55.7	48.1	37.6	41.8	41.8	43.2	44.6
85°	64.8	57.8	50.2	43.9	40.4	36.2	29.3	32.0	32.7	35.5	36.9
87.5°	48.8	41.1	34.8	32.0	30.7	27.9	21.6	25.8	26.5	26.5	27.9
90°	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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CATALOG NUMBER: UTLD-F02-LED-E-U-T4-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	81.5	81.5	81.5	81.5	81.5
2.5°	128.2	126.8	125.4	124.7	124.7
5°	80.8	78.7	78.7	78.7	78.0
7.5°	134.5	136.6	135.9	135.9	135.2
10°	138.0	137.3	138.0	137.3	138.0
12.5°	188.1	193.7	197.2	198.6	197.2
15°	198.6	197.9	198.6	199.3	198.6
17.5°	239.7	245.9	247.3	246.6	246.6
20°	236.2	241.8	242.5	245.9	242.5
22.5°	278.0	276.6	280.1	278.7	277.3
25°	291.9	279.4	310.0	312.1	310.0
27.5°	324.7	303.8	306.6	306.6	303.8
30°	337.2	328.2	330.3	333.0	332.3
32.5°	312.1	315.6	341.4	346.3	345.6
35°	307.3	312.1	308.7	312.8	326.8
37.5°	288.4	291.2	296.8	301.7	302.4
40°	251.5	262.7	271.0	274.5	277.3
42.5°	200.7	212.5	220.2	223.7	220.9
45°	156.1	163.7	170.0	172.1	170.0
47.5°	119.8	122.6	124.7	125.4	127.5
50°	92.0	92.0	92.7	91.3	91.3
52.5°	77.3	75.2	75.2	73.9	73.9
55°	70.4	69.0	68.3	66.9	66.9
57.5°	70.4	67.6	65.5	63.4	63.4
60°	73.2	68.3	64.1	62.0	61.3
62.5°	75.9	69.7	64.1	61.3	60.6
65°	74.6	69.0	64.1	61.3	60.6
67°	71.8	67.6	64.1	61.3	61.3
67.5°	71.1	67.6	64.1	61.3	60.6
70°	68.3	66.9	63.4	60.6	59.9
72.5°	65.5	64.1	60.6	57.8	57.1
75°	62.7	60.6	57.8	55.7	55.0
77.5°	59.2	56.4	53.6	50.9	49.5
80°	53.6	50.2	46.7	44.6	41.8
82.5°	45.3	44.6	40.4	37.6	34.8
85°	37.6	36.9	34.1	30.7	27.2
87.5°	28.6	29.3	27.2	23.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

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