

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: P157206

Luminaire Tested: **UTLD-F03-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157206
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-F03-LED-E-U-T4-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6701.1 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

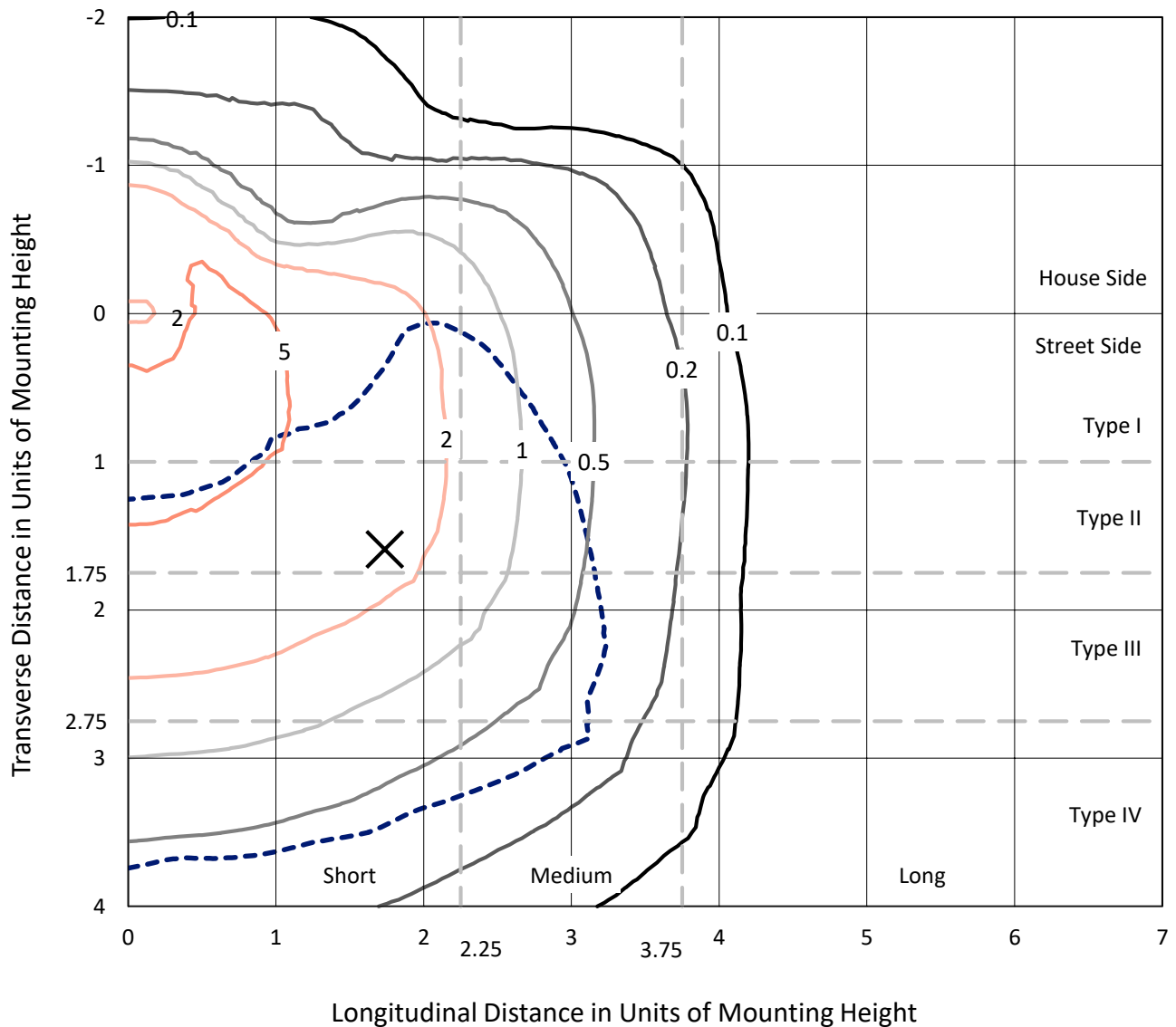
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

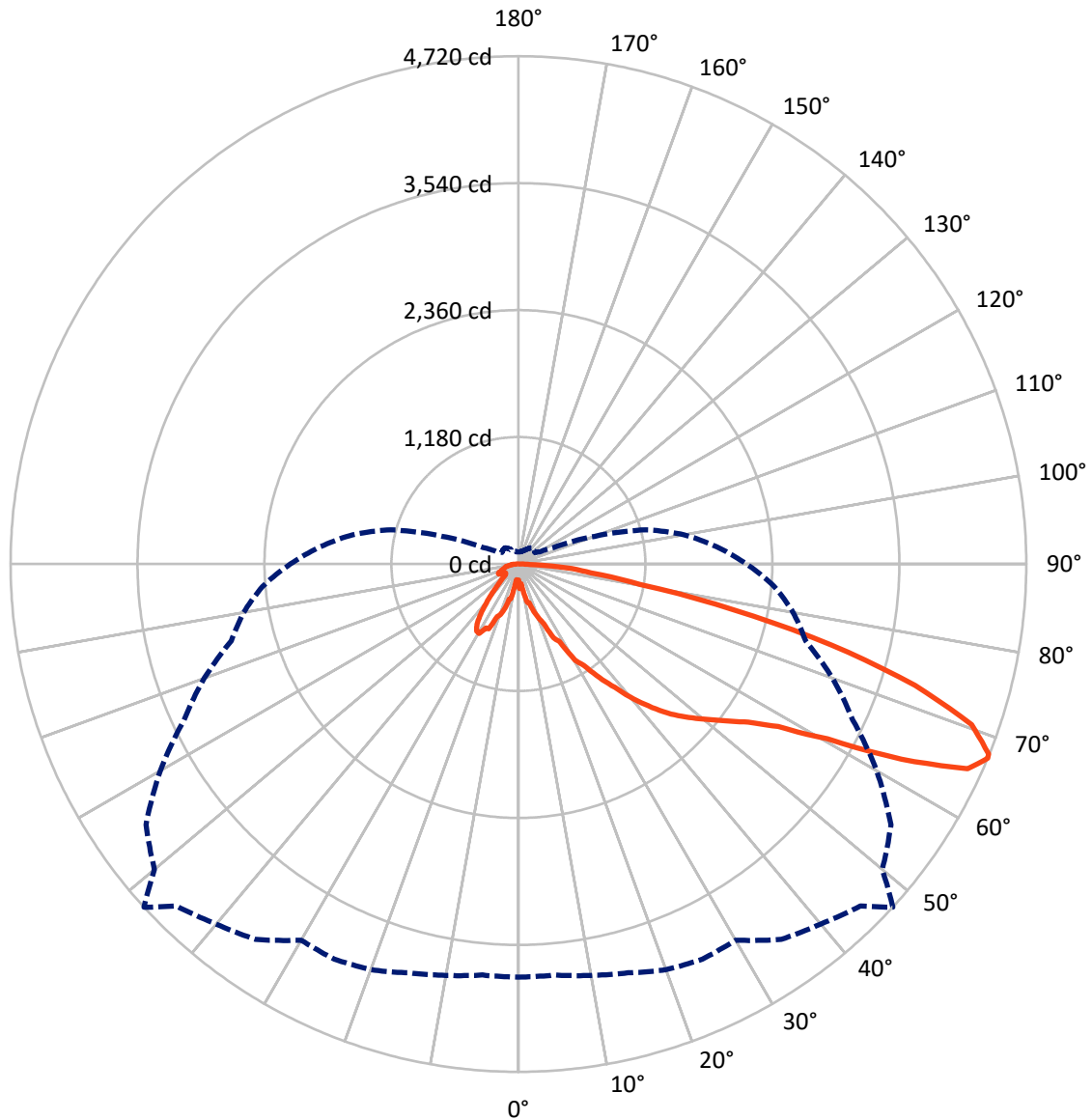


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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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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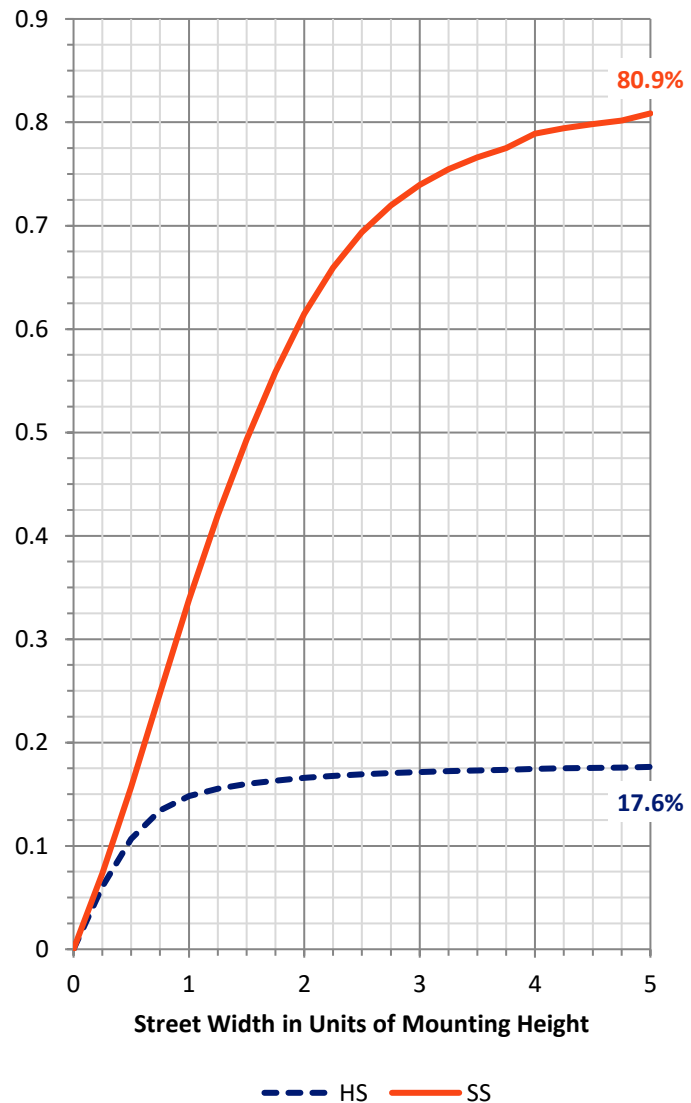
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1202.8	0.0	1202.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	5498.3	0.0	5498.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	6701.1	0.0	6701.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	0.3
10°-20°	109.9	1.6
20°-30°	323.9	4.8
30°-40°	636.8	9.5
40°-50°	889.1	13.3
50°-60°	1239.6	18.5
60°-70°	1986.4	29.6
70°-80°	1274.3	19.0
80°-90°	221.7	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°	6701.1	100.0
0°-180°	6701.1	100.0



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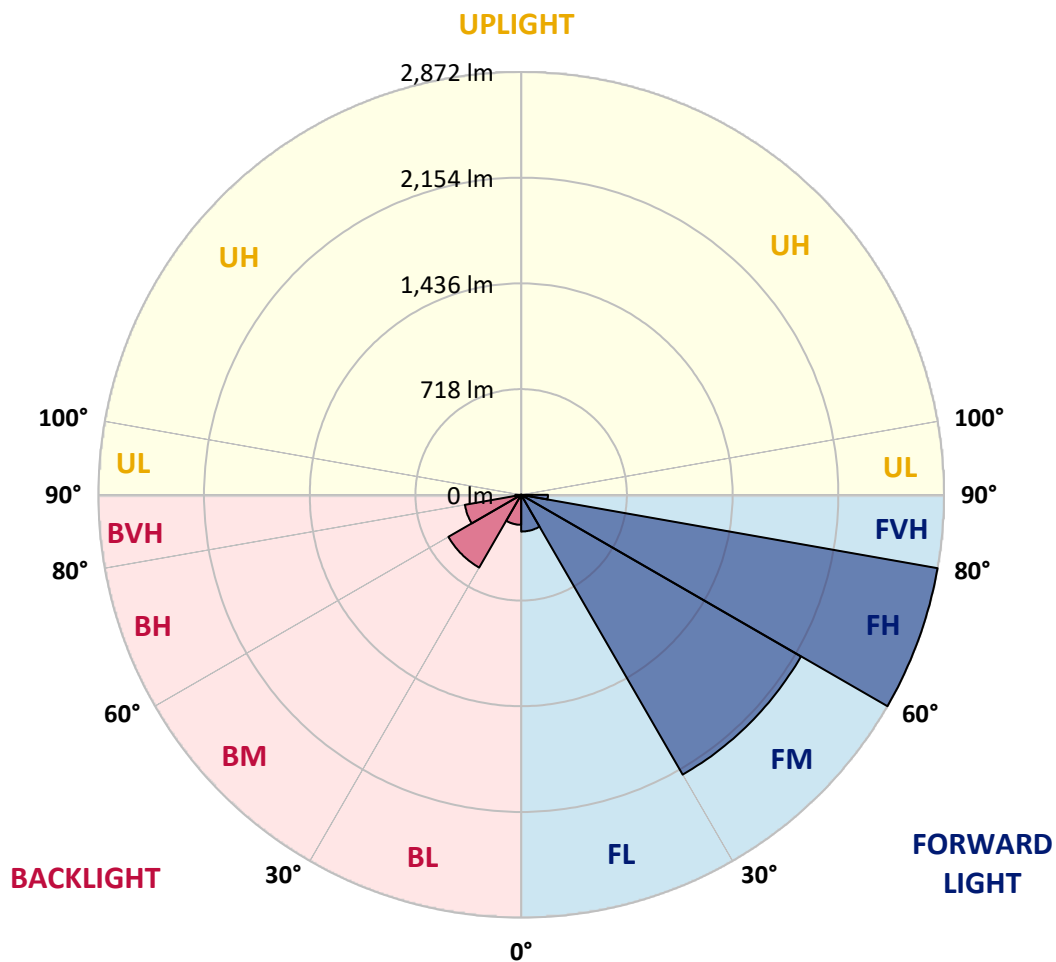
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.6	3.7			
FM (30°-60°)	2194.8	32.8			
FH (60°-80°)	2872.2	42.9			G2/5000
FVH (80°-90°)	181.7	2.7			G2/225
BL (0°-30°)	203.7	3.0	B1/500		
BM (30°-60°)	570.7	8.5	B1/1000		
BH (60°-80°)	388.4	5.8	B1/500		G1/500
BVH (80°-90°)	40.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7
2.5°	231.3	232.5	231.3	232.5	232.5	231.3	231.3	231.3	235.1	223.6	228.7
5°	183.0	184.2	184.2	184.2	184.2	184.2	185.5	189.3	185.5	186.8	186.8
7.5°	279.5	282.1	282.1	279.5	280.8	280.8	279.5	199.5	193.1	189.3	185.5
10°	285.9	288.4	288.4	283.3	284.6	285.9	285.9	284.6	282.1	273.2	271.9
12.5°	387.5	388.8	387.5	386.3	383.7	371.0	340.5	296.1	282.1	357.0	363.4
15°	415.5	414.2	411.7	405.3	401.5	395.2	387.5	451.1	443.4	383.7	376.1
17.5°	527.3	527.3	524.8	523.5	507.0	501.9	486.6	477.8	468.9	456.2	463.8
20°	639.1	632.8	576.9	546.4	527.3	584.5	583.2	566.7	580.7	533.7	532.4
22.5°	679.8	676.0	670.9	654.4	649.3	688.7	650.6	639.1	651.8	602.3	601.0
25°	838.6	837.3	814.5	801.8	762.4	742.0	756.0	745.9	710.3	709.0	761.1
27.5°	907.2	898.3	881.8	860.2	899.6	883.1	885.6	799.2	866.6	832.3	818.3
30°	1083.8	1087.6	1058.4	1068.6	1059.7	980.9	955.5	979.6	975.8	949.1	1034.3
32.5°	1304.9	1303.6	1271.9	1214.7	1137.2	1122.0	1137.2	1115.6	1108.0	1102.9	1128.3
35°	1548.9	1531.1	1421.8	1395.1	1351.9	1320.2	1307.5	1252.8	1275.7	1213.4	1298.6
37.5°	1667.0	1669.6	1627.7	1627.7	1581.9	1534.9	1476.5	1482.8	1433.3	1395.1	1454.9
40°	1842.4	1848.7	1809.4	1787.8	1767.4	1693.7	1654.3	1625.1	1623.8	1589.5	1650.5
42.5°	1927.5	1937.7	1902.1	1890.7	1904.6	1856.4	1792.8	1791.6	1799.2	1752.2	1823.3
45°	2015.2	2027.9	1991.1	2006.3	1991.1	1983.4	1898.3	1941.5	1963.1	1911.0	1988.5
47.5°	2118.1	2134.6	2120.7	2111.8	2096.5	2096.5	2034.3	2063.5	2095.2	2050.8	2132.1
50°	2246.4	2257.9	2242.6	2238.8	2215.9	2212.1	2171.5	2191.8	2217.2	2171.5	2268.0
52.5°	2416.7	2419.2	2409.1	2386.2	2351.9	2359.5	2335.4	2336.7	2346.8	2316.3	2423.1
55°	2631.4	2634.0	2632.7	2579.3	2611.1	2552.7	2513.3	2520.9	2515.8	2491.7	2593.3
57.5°	2899.5	2916.1	2923.7	2876.7	2905.9	2797.9	2775.0	2761.0	2778.8	2724.2	2848.7
60°	3326.5	3351.9	3339.2	3331.5	3308.7	3208.3	3179.1	3219.7	3200.7	3152.4	3301.1
62.5°	3874.1	3867.7	3899.5	3894.4	3900.8	3800.4	3731.8	3830.9	3863.9	3883.0	3996.1
65°	4015.1	4016.4	4057.1	4067.2	4116.8	4106.6	4059.6	4232.4	4288.3	4368.4	4588.2
67°	3839.8	3834.7	3883.0	3933.8	4012.6	4052.0	4036.7	4259.1	4368.4	4495.4	4720.3
67.5°	3785.2	3775.0	3827.1	3893.2	3974.5	4022.8	4011.3	4241.3	4355.7	4494.2	4714.0
70°	3428.1	3392.5	3458.6	3547.6	3621.2	3731.8	3736.9	3955.4	4114.2	4262.9	4467.5
72.5°	2970.7	2923.7	2983.4	3050.7	3105.4	3233.7	3241.3	3383.6	3546.3	3667.0	3856.3
75°	2358.3	2297.3	2353.2	2386.2	2406.5	2510.7	2519.6	2644.1	2763.6	2856.3	3002.5
77.5°	1458.7	1418.0	1463.7	1518.4	1587.0	1632.7	1658.2	1734.4	1865.3	1969.5	2048.2
80°	730.6	759.8	808.1	881.8	939.0	1019.0	1052.1	1057.2	1111.8	1104.2	1153.7
82.5°	508.2	540.0	608.6	655.6	673.4	698.8	739.5	726.8	689.9	683.6	678.5
85°	129.6	202.0	371.0	449.8	467.6	494.3	531.1	552.7	495.5	448.5	457.4
87.5°	35.6	43.2	127.1	188.1	203.3	149.9	194.4	232.5	151.2	100.4	105.5
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°	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7
2.5°	205.8	183.0	172.8	157.6	153.7	152.5	149.9	149.9	148.7	148.7	148.7
5°	190.6	210.9	228.7	233.8	223.6	166.5	161.4	152.5	151.2	151.2	152.5
7.5°	186.8	189.3	190.6	183.0	213.5	214.7	155.0	152.5	152.5	152.5	153.7
10°	271.9	202.0	254.1	263.0	269.4	313.8	310.0	235.1	226.2	231.3	238.9
12.5°	365.9	376.1	335.4	271.9	278.3	280.8	315.1	244.0	230.0	238.9	288.4
15°	374.8	373.6	391.3	438.4	381.2	369.7	393.9	338.0	335.4	315.1	368.5
17.5°	531.1	454.9	442.2	446.0	407.9	390.1	362.1	392.6	355.8	345.6	338.0
20°	551.4	505.7	482.8	562.9	612.4	560.3	532.4	541.3	509.5	490.5	486.6
22.5°	599.7	653.1	674.7	623.9	623.9	616.2	672.2	631.5	613.7	593.4	584.5
25°	781.4	695.0	762.4	817.0	790.3	770.0	728.1	742.0	684.9	683.6	658.2
27.5°	855.1	905.9	881.8	886.9	845.0	909.8	881.8	851.3	797.9	787.8	800.5
30°	1044.4	992.3	1015.2	1033.0	1013.9	1010.1	980.9	937.7	899.6	871.6	867.8
32.5°	1122.0	1157.5	1147.4	1125.8	1189.3	1208.4	1190.6	1088.9	1054.6	982.2	982.2
35°	1275.7	1257.9	1346.9	1325.2	1299.8	1275.7	1259.2	1189.3	1114.3	1038.1	1017.8
37.5°	1444.7	1463.7	1461.2	1419.3	1376.1	1331.6	1313.8	1246.5	1162.6	1094.0	1002.5
40°	1618.8	1583.2	1565.4	1528.5	1449.8	1410.4	1383.7	1345.6	1217.2	1139.7	1006.3
42.5°	1781.4	1757.3	1673.4	1618.8	1561.6	1504.4	1429.4	1398.9	1269.3	1170.2	993.6
45°	1931.3	1889.4	1799.2	1729.3	1635.3	1589.5	1484.1	1426.9	1326.5	1172.8	959.3
47.5°	2057.1	2013.9	1922.4	1804.3	1717.9	1651.8	1552.7	1503.1	1381.2	1202.0	959.3
50°	2179.1	2129.5	2030.4	1864.0	1786.5	1675.9	1622.6	1552.7	1449.8	1245.2	988.5
52.5°	2312.5	2252.8	2134.6	1945.3	1856.4	1748.4	1691.2	1632.7	1538.7	1304.9	1036.8
55°	2477.7	2406.5	2252.8	2069.8	1942.8	1844.9	1790.3	1729.3	1631.5	1373.5	1096.5
57.5°	2715.3	2614.9	2433.2	2265.5	2110.5	2026.6	1949.1	1865.3	1780.1	1494.2	1194.4
60°	3121.9	3012.6	2778.8	2627.6	2458.6	2346.8	2223.6	2157.5	2026.6	1724.2	1355.7
62.5°	3797.9	3658.1	3437.0	3152.4	2911.0	2683.5	2555.2	2459.9	2265.5	1926.2	1562.9
65°	4299.8	4105.4	3809.3	3442.1	3152.4	2813.1	2688.6	2492.9	2260.4	1940.2	1622.6
67°	4415.4	4226.1	3844.9	3428.1	3107.9	2763.6	2593.3	2387.5	2119.4	1847.5	1565.4
67.5°	4412.8	4227.3	3825.8	3404.0	3082.5	2738.2	2555.2	2345.6	2072.4	1818.2	1547.6
70°	4160.0	4010.1	3576.8	3151.1	2815.7	2496.8	2256.6	2059.7	1800.5	1598.4	1363.4
72.5°	3541.2	3449.7	3052.0	2665.7	2355.7	2088.9	1905.9	1710.2	1476.5	1320.2	1149.9
75°	2764.9	2635.3	2250.3	1949.1	1698.8	1520.9	1374.8	1199.5	1015.2	925.0	860.2
77.5°	1842.4	1715.3	1355.7	1059.7	881.8	731.9	620.1	495.5	385.0	395.2	425.7
80°	1001.2	899.6	648.0	467.6	381.2	308.8	259.2	198.2	144.8	174.1	198.2
82.5°	608.6	533.7	414.2	324.0	265.6	224.9	183.0	136.0	104.2	118.2	143.6
85°	423.1	373.6	296.1	232.5	189.3	151.2	118.2	87.7	82.6	90.2	102.9
87.5°	141.0	175.3	133.4	108.0	104.2	94.0	78.8	63.5	49.6	62.3	80.0
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°	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7	148.7
2.5°	149.9	151.2	157.6	161.4	161.4	157.6	183.0	180.4	219.8	222.4	232.5
5°	162.6	163.9	213.5	231.3	232.5	200.8	156.3	149.9	147.4	146.1	149.9
7.5°	184.2	214.7	194.4	139.8	144.8	144.8	147.4	146.1	147.4	174.1	238.9
10°	308.8	231.3	218.5	186.8	151.2	162.6	235.1	236.3	240.1	250.3	251.6
12.5°	271.9	237.6	223.6	224.9	310.0	332.9	321.5	245.2	249.0	255.4	298.6
15°	315.1	311.3	329.1	325.3	316.4	336.7	332.9	397.7	409.1	349.4	350.7
17.5°	322.7	325.3	400.2	410.4	402.8	440.9	416.8	411.7	420.6	414.2	393.9
20°	486.6	541.3	524.8	442.2	456.2	505.7	493.0	423.1	484.1	489.2	453.6
22.5°	509.5	557.8	573.0	620.1	617.5	518.4	533.7	557.8	507.0	484.1	528.6
25°	683.6	730.6	754.7	687.4	622.6	677.2	648.0	555.3	578.1	540.0	540.0
27.5°	850.0	781.4	804.3	773.8	794.1	683.6	650.6	688.7	573.0	583.2	594.6
30°	886.9	870.4	886.9	850.0	796.7	777.6	706.5	674.7	683.6	598.5	590.8
32.5°	949.1	919.9	889.4	823.4	815.7	758.6	709.0	696.3	632.8	601.0	595.9
35°	941.5	874.2	852.6	810.7	750.9	705.2	656.9	621.3	574.3	565.4	559.1
37.5°	917.4	813.2	753.5	712.8	662.0	618.8	550.2	526.0	509.5	493.0	485.4
40°	880.5	749.7	649.3	587.0	534.9	489.2	444.7	421.8	410.4	416.8	424.4
42.5°	815.7	676.0	537.5	466.3	411.7	374.8	345.6	335.4	331.6	338.0	350.7
45°	764.9	583.2	433.3	352.0	306.2	282.1	261.7	254.1	259.2	264.3	270.6
47.5°	742.0	512.1	346.9	265.6	230.0	217.3	204.6	198.2	200.8	204.6	209.7
50°	735.7	471.4	289.7	209.7	185.5	172.8	163.9	161.4	162.6	161.4	163.9
52.5°	737.0	471.4	263.0	184.2	162.6	152.5	144.8	142.3	138.5	137.2	138.5
55°	763.6	484.1	256.7	179.2	158.8	147.4	139.8	138.5	133.4	129.6	128.3
57.5°	845.0	529.8	271.9	189.3	165.2	155.0	147.4	146.1	141.0	134.7	132.1
60°	1006.3	630.2	312.6	212.2	181.7	172.8	167.7	166.5	158.8	149.9	142.3
62.5°	1175.3	740.8	362.1	236.3	200.8	198.2	199.5	196.9	186.8	167.7	153.7
65°	1250.3	784.0	381.2	238.9	200.8	205.8	209.7	210.9	194.4	171.5	153.7
67°	1227.4	753.5	362.1	223.6	188.1	193.1	194.4	195.7	179.2	160.1	143.6
67.5°	1216.0	740.8	355.8	221.1	186.8	190.6	189.3	189.3	174.1	157.6	141.0
70°	1097.8	654.4	313.8	204.6	174.1	169.0	158.8	158.8	147.4	138.5	129.6
72.5°	931.4	555.3	273.2	194.4	165.2	151.2	139.8	138.5	130.9	127.1	122.0
75°	711.5	432.0	240.1	184.2	156.3	139.8	127.1	128.3	120.7	119.4	116.9
77.5°	423.1	293.5	208.4	171.5	148.7	132.1	118.2	120.7	111.8	110.5	110.5
80°	210.9	195.7	172.8	148.7	129.6	116.9	102.9	102.9	96.6	95.3	99.1
82.5°	158.8	147.4	128.3	113.1	101.6	87.7	68.6	76.2	76.2	78.8	81.3
85°	118.2	105.5	91.5	80.0	73.7	66.1	53.4	58.4	59.7	64.8	67.3
87.5°	88.9	75.0	63.5	58.4	55.9	50.8	39.4	47.0	48.3	48.3	50.8
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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CATALOG NUMBER: UTLD-F03-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	148.7	148.7	148.7	148.7	148.7
2.5°	233.8	231.3	228.7	227.4	227.4
5°	147.4	143.6	143.6	143.6	142.3
7.5°	245.2	249.0	247.8	247.8	246.5
10°	251.6	250.3	251.6	250.3	251.6
12.5°	343.1	353.2	359.6	362.1	359.6
15°	362.1	360.9	362.1	363.4	362.1
17.5°	437.1	448.5	451.1	449.8	449.8
20°	430.7	440.9	442.2	448.5	442.2
22.5°	507.0	504.4	510.8	508.2	505.7
25°	532.4	509.5	565.4	569.2	565.4
27.5°	592.1	554.0	559.1	559.1	554.0
30°	615.0	598.5	602.3	607.4	606.1
32.5°	569.2	575.6	622.6	631.5	630.2
35°	560.3	569.2	562.9	570.5	595.9
37.5°	526.0	531.1	541.3	550.2	551.4
40°	458.7	479.0	494.3	500.6	505.7
42.5°	365.9	387.5	401.5	407.9	402.8
45°	284.6	298.6	310.0	313.8	310.0
47.5°	218.5	223.6	227.4	228.7	232.5
50°	167.7	167.7	169.0	166.5	166.5
52.5°	141.0	137.2	137.2	134.7	134.7
55°	128.3	125.8	124.5	122.0	122.0
57.5°	128.3	123.2	119.4	115.6	115.6
60°	133.4	124.5	116.9	113.1	111.8
62.5°	138.5	127.1	116.9	111.8	110.5
65°	136.0	125.8	116.9	111.8	110.5
67°	130.9	123.2	116.9	111.8	111.8
67.5°	129.6	123.2	116.9	111.8	110.5
70°	124.5	122.0	115.6	110.5	109.3
72.5°	119.4	116.9	110.5	105.5	104.2
75°	114.4	110.5	105.5	101.6	100.4
77.5°	108.0	102.9	97.8	92.8	90.2
80°	97.8	91.5	85.1	81.3	76.2
82.5°	82.6	81.3	73.7	68.6	63.5
85°	68.6	67.3	62.3	55.9	49.6
87.5°	52.1	53.4	49.6	43.2	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)