

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: P179256

Luminaire Tested: **UTLD-F03-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179256
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
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-SL2-HSS-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127.2 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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



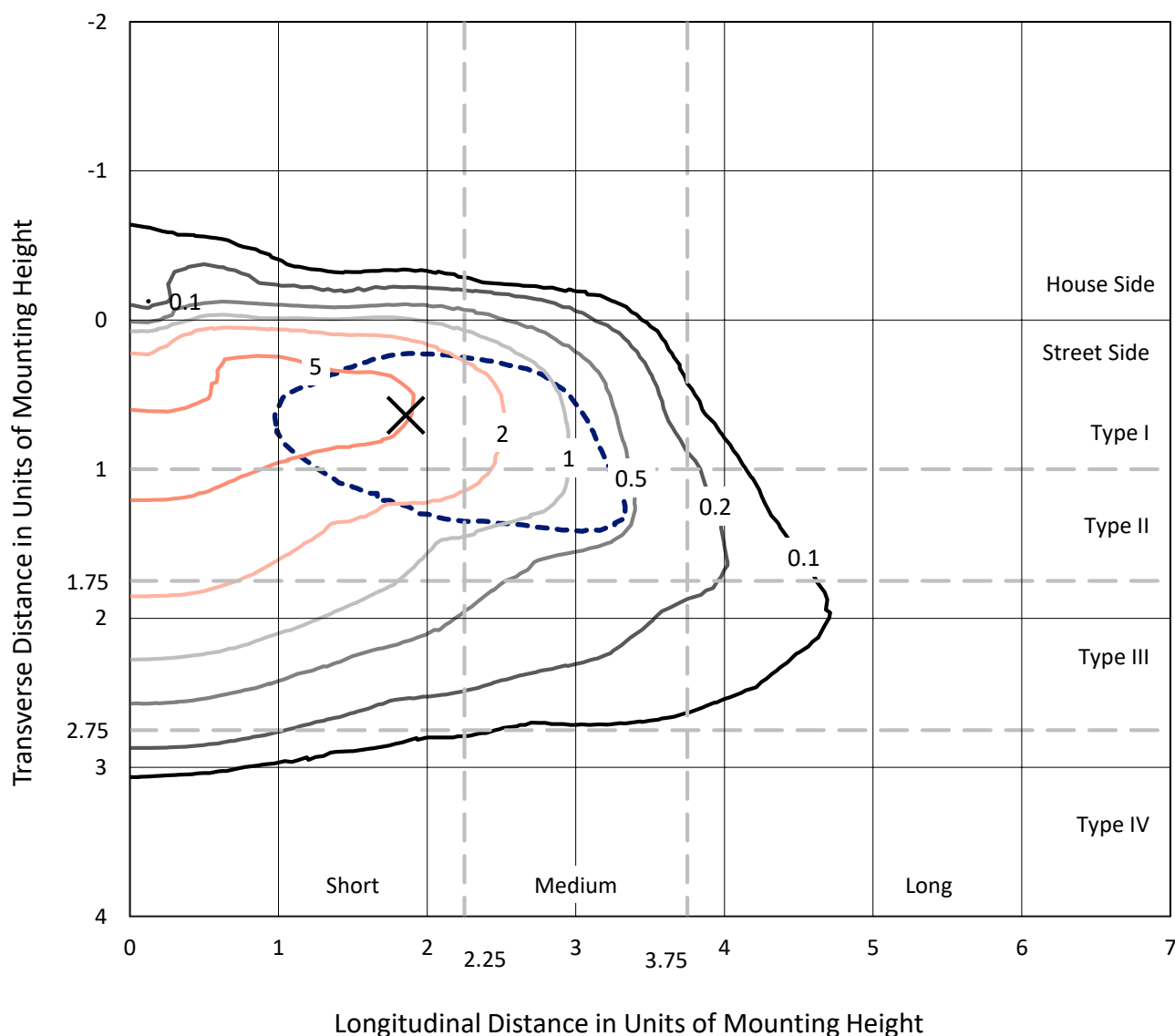
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

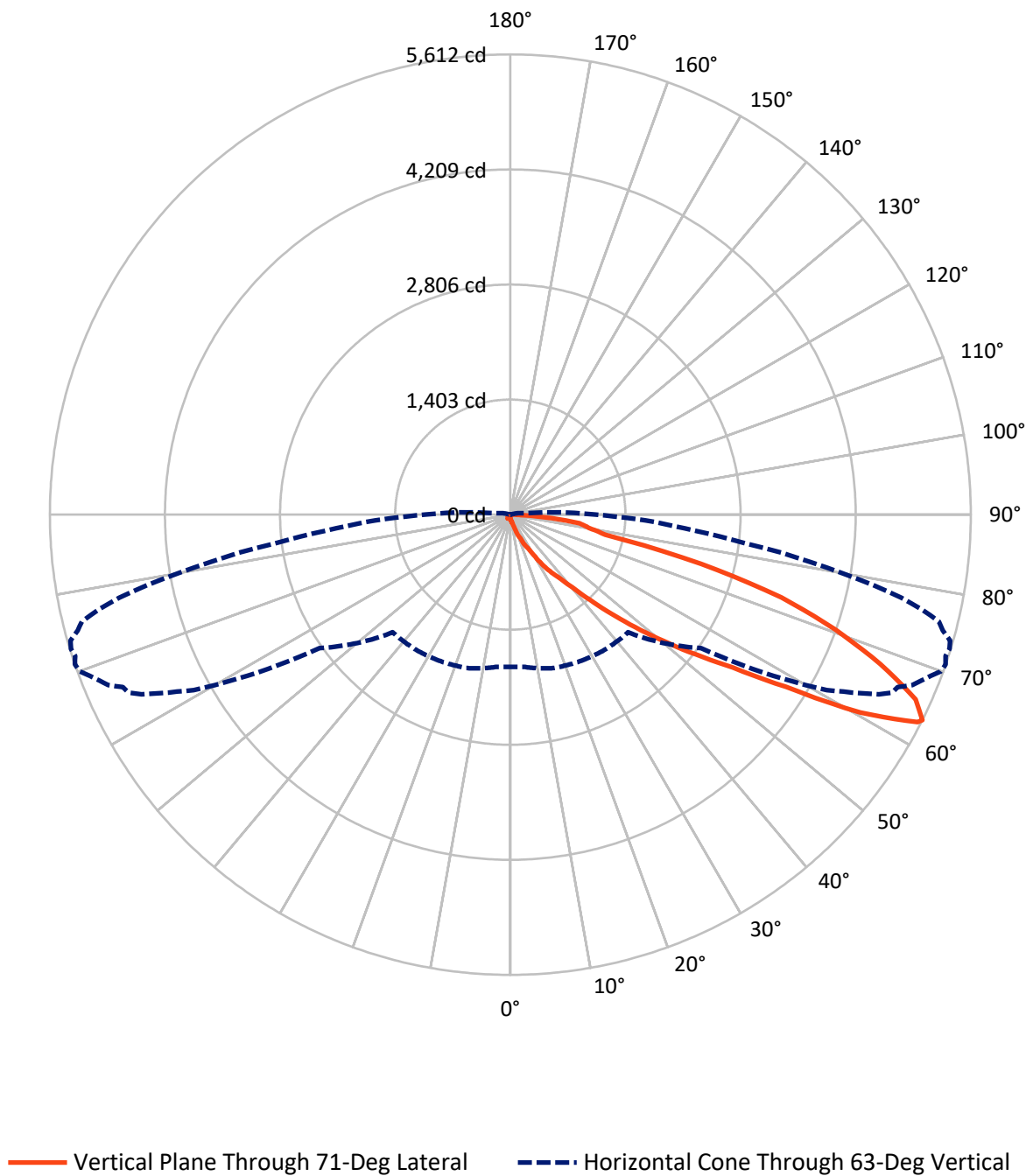


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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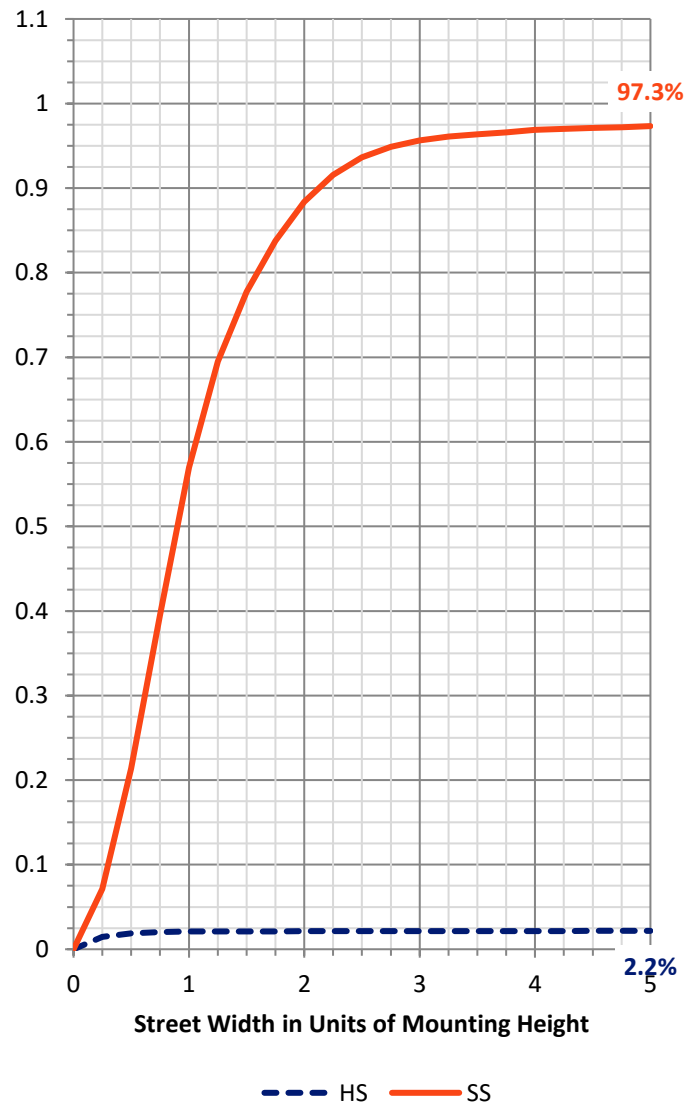
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.5	0.0	91.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4035.7	0.0	4035.7
	% Fixture	97.8	0.0	97.8
Total	Lumens	4127.2	0.0	4127.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	32.7	0.8
20°-30°	100.2	2.4
30°-40°	308.7	7.5
40°-50°	733.4	17.8
50°-60°	1059.6	25.7
60°-70°	1311.2	31.8
70°-80°	497.8	12.1
80°-90°	77.7	1.9
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°	4127.2	100.0
0°-180°	4127.2	100.0

Coefficient of Utilization



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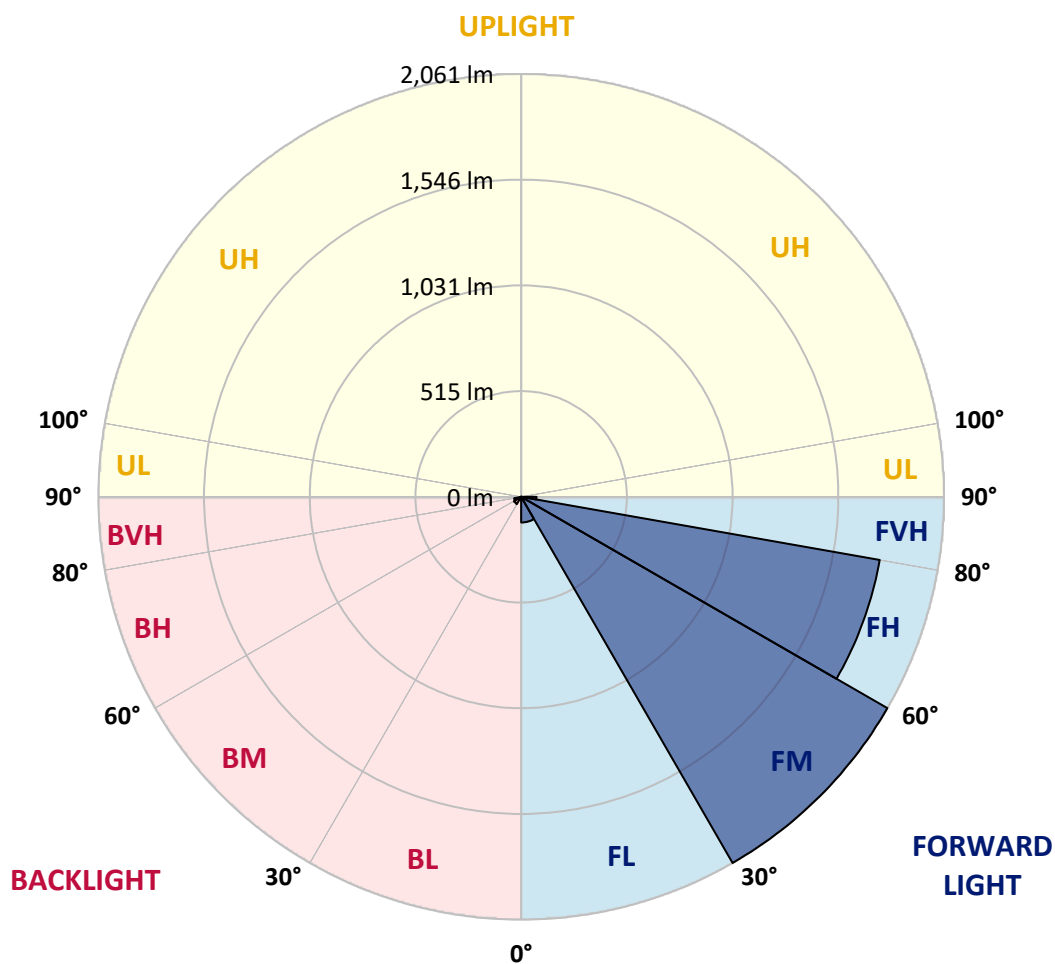
CATALOG NUMBER: UTLD-F03-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.1	3.0			
FM	(30°-60°)	2061.0	49.9			
FH	(60°-80°)	1774.7	43.0			G1/1800
FVH	(80°-90°)	74.9	1.8			G1/100
BL	(0°-30°)	13.6	0.3	B0/110		
BM	(30°-60°)	40.7	1.0	B0/220		
BH	(60°-80°)	34.4	0.8	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2.5°	78.8	77.5	75.0	75.0	73.7	73.7	72.4	71.2	71.2	71.2	69.9
5°	92.8	91.5	87.7	83.9	83.9	81.3	76.2	75.0	73.7	72.4	72.4
7.5°	151.2	149.9	147.4	143.6	137.2	94.0	83.9	82.6	81.3	80.0	78.8
10°	169.0	169.0	167.7	162.6	156.3	146.1	133.4	96.6	94.0	95.3	99.1
12.5°	227.4	221.1	224.9	218.5	184.2	172.8	176.6	163.9	161.4	160.1	124.5
15°	242.7	236.3	224.9	226.2	231.3	245.2	199.5	188.1	181.7	177.9	177.9
17.5°	266.8	266.8	268.1	268.1	257.9	263.0	259.2	230.0	228.7	223.6	222.4
20°	327.8	325.3	289.7	273.2	301.1	307.5	308.8	265.6	256.7	255.4	263.0
22.5°	346.9	344.3	338.0	344.3	308.8	346.9	399.0	397.7	387.5	382.5	350.7
25°	442.2	438.4	415.5	355.8	379.9	381.2	432.0	435.8	433.3	442.2	468.9
27.5°	510.8	515.9	463.8	425.7	400.2	454.9	550.2	561.6	561.6	548.9	550.2
30°	650.6	648.0	590.8	494.3	482.8	489.2	606.1	645.5	678.5	658.2	681.0
32.5°	935.2	922.5	834.8	658.2	578.1	604.8	726.8	773.8	766.2	754.7	775.1
35°	1346.9	1338.0	1157.5	988.5	831.0	768.7	858.9	937.7	921.2	958.0	972.0
37.5°	1636.6	1613.7	1536.2	1365.9	1212.2	1109.2	1147.4	1116.9	1113.1	1138.5	1135.9
40°	1850.0	1851.3	1824.6	1686.1	1574.3	1517.1	1522.2	1409.1	1401.5	1410.4	1392.6
42.5°	1954.2	1963.1	1984.7	1916.1	1870.3	1876.7	1927.5	1832.2	1828.4	1805.5	1736.9
45°	2017.7	2029.2	2095.2	2118.1	2104.1	2167.7	2306.2	2228.7	2235.0	2255.3	2157.5
47.5°	2025.4	2041.9	2128.3	2196.9	2252.8	2381.1	2593.3	2611.1	2630.2	2646.7	2574.3
50°	1950.4	1956.7	2066.0	2165.1	2247.7	2489.1	2811.9	2922.4	2956.7	2956.7	2895.7
52.5°	1814.4	1823.3	1927.5	2035.5	2114.3	2484.0	2952.9	3153.7	3229.9	3232.4	3144.8
55°	1756.0	1766.2	1844.9	1940.2	1979.6	2360.8	3039.3	3363.3	3443.4	3457.3	3405.2
57.5°	1756.0	1767.4	1831.0	1886.9	1907.2	2217.2	3091.4	3608.5	3698.8	3785.2	3782.6
60°	1834.8	1847.5	1898.3	1894.5	1875.4	2115.6	3068.5	3908.4	4054.5	4199.4	4365.8
62.5°	1880.5	1886.9	1956.7	1977.1	1973.3	2040.6	2889.4	4132.0	4358.2	4569.1	4930.0
63°	1855.1	1862.7	1940.2	1977.1	2010.1	2029.2	2839.8	4156.2	4411.6	4598.3	4998.6
65°	1717.9	1719.1	1801.7	1847.5	2071.1	2027.9	2574.3	4109.2	4421.7	4607.2	5053.2
67.5°	1360.8	1368.5	1425.6	1503.1	1710.2	2058.4	2212.1	3570.4	3886.8	4035.5	4532.3
70°	716.6	748.4	795.4	898.3	1181.7	1748.4	1851.3	2630.2	2936.4	3157.5	3728.0
72.5°	217.3	202.0	263.0	385.0	601.0	1209.6	1623.8	1857.6	2034.3	2254.1	2861.4
75°	97.8	100.4	114.4	163.9	263.0	649.3	1419.3	1526.0	1550.1	1625.1	1993.6
77.5°	55.9	57.2	67.3	92.8	137.2	324.0	1074.9	1368.5	1349.4	1376.1	1443.4
80°	36.8	38.1	48.3	66.1	76.2	158.8	609.9	1067.3	1129.6	1198.2	1247.7
82.5°	20.3	20.3	30.5	53.4	49.6	76.2	240.1	698.8	810.7	881.8	1030.5
85°	8.9	10.2	17.8	35.6	30.5	35.6	115.6	237.6	271.9	285.9	355.8
87.5°	2.5	2.5	5.1	12.7	12.7	16.5	34.3	106.7	113.1	122.0	148.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2.5°	69.9	69.9	67.3	66.1	62.3	62.3	59.7	61.0	57.2	55.9	53.4
5°	71.2	71.2	71.2	71.2	69.9	69.9	69.9	69.9	69.9	69.9	68.6
7.5°	77.5	77.5	77.5	77.5	76.2	75.0	72.4	72.4	71.2	71.2	71.2
10°	99.1	97.8	95.3	94.0	92.8	91.5	88.9	90.2	87.7	88.9	86.4
12.5°	118.2	115.6	111.8	108.0	106.7	105.5	102.9	101.6	100.4	102.9	101.6
15°	184.2	183.0	184.2	177.9	144.8	143.6	144.8	142.3	139.8	136.0	130.9
17.5°	219.8	216.0	203.3	198.2	199.5	195.7	185.5	165.2	153.7	148.7	146.1
20°	282.1	283.3	285.9	285.9	280.8	274.5	268.1	266.8	259.2	232.5	222.4
22.5°	338.0	338.0	331.6	325.3	317.7	318.9	310.0	289.7	283.3	275.7	271.9
25°	485.4	477.8	460.0	453.6	447.3	430.7	409.1	397.7	393.9	388.8	372.3
27.5°	548.9	538.7	534.9	527.3	504.4	477.8	468.9	462.5	468.9	438.4	416.8
30°	664.5	663.3	659.4	642.9	615.0	593.4	594.6	588.3	546.4	514.6	494.3
32.5°	782.7	773.8	804.3	773.8	748.4	757.3	745.9	706.5	677.2	644.2	640.4
35°	968.2	968.2	942.8	909.8	913.6	919.9	865.3	824.6	805.6	791.6	763.6
37.5°	1138.5	1130.8	1083.8	1066.0	1086.4	1050.8	989.8	963.1	956.8	932.6	888.2
40°	1369.7	1324.0	1288.4	1284.6	1282.0	1199.5	1165.2	1167.7	1134.7	1086.4	1035.5
42.5°	1687.4	1613.7	1587.0	1589.5	1498.1	1432.0	1419.3	1387.5	1344.3	1289.7	1243.9
45°	2053.3	1982.2	1983.4	1903.4	1787.8	1730.6	1717.9	1668.3	1614.9	1551.4	1485.3
47.5°	2451.0	2400.2	2425.6	2265.5	2163.9	2130.8	2049.5	1972.0	1909.7	1832.2	1749.6
50°	2809.3	2836.0	2780.1	2640.3	2566.6	2522.2	2426.9	2330.3	2250.3	2132.1	2020.3
52.5°	3144.8	3195.6	3107.9	2979.6	2989.8	2904.6	2830.9	2733.1	2626.4	2486.6	2368.4
55°	3480.2	3491.6	3419.2	3377.3	3374.7	3320.1	3287.1	3217.2	3073.6	2932.6	2879.2
57.5°	3903.3	3889.3	3838.5	3904.6	3909.7	3927.5	3963.0	3890.6	3847.4	3744.5	3661.9
60°	4514.5	4503.1	4525.9	4720.3	4759.7	4877.9	4903.3	4905.8	4869.0	4902.0	4701.3
62.5°	5054.5	5100.2	5248.9	5339.1	5431.9	5546.2	5571.6	5524.6	5548.8	5551.3	5395.0
63°	5133.3	5168.9	5322.6	5400.1	5489.1	5584.3	5612.3	5576.7	5598.3	5576.7	5458.6
65°	5167.6	5184.1	5364.5	5344.2	5457.3	5499.2	5428.1	5414.1	5494.1	5379.8	5358.2
67.5°	4660.6	4761.0	4881.7	4881.7	4969.4	4960.5	4865.2	4885.5	4886.8	4842.3	4830.9
70°	3897.0	4100.3	4125.7	4217.2	4278.2	4224.8	4204.5	4218.4	4111.7	4135.8	4029.1
72.5°	3100.3	3318.8	3359.5	3529.8	3547.6	3426.8	3456.1	3372.2	3255.3	3182.9	3035.5
75°	2256.6	2395.1	2515.8	2564.1	2565.4	2451.0	2401.5	2208.3	2036.8	1831.0	1776.3
77.5°	1575.6	1560.3	1606.1	1579.4	1400.2	1343.0	1181.7	1087.6	1000.0	847.5	763.6
80°	1273.2	1259.2	1280.8	1223.6	1146.1	1081.3	965.7	879.3	781.4	715.4	613.7
82.5°	1086.4	1143.6	1157.5	1076.2	1036.8	982.2	848.8	754.7	659.4	574.3	494.3
85°	414.2	494.3	487.9	508.2	509.5	481.6	424.4	336.7	266.8	216.0	175.3
87.5°	160.1	179.2	167.7	166.5	167.7	153.7	130.9	115.6	97.8	78.8	66.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2.5°	52.1	49.6	49.6	47.0	47.0	45.7	45.7	44.5	44.5	43.2	43.2
5°	68.6	68.6	67.3	64.8	58.4	55.9	50.8	47.0	45.7	44.5	43.2
7.5°	71.2	71.2	69.9	69.9	68.6	67.3	66.1	62.3	55.9	50.8	47.0
10°	86.4	83.9	85.1	87.7	86.4	86.4	85.1	83.9	81.3	78.8	63.5
12.5°	100.4	99.1	96.6	91.5	88.9	87.7	87.7	86.4	85.1	83.9	81.3
15°	127.1	123.2	122.0	118.2	115.6	111.8	113.1	111.8	109.3	104.2	92.8
17.5°	141.0	138.5	134.7	136.0	133.4	125.8	113.1	109.3	105.5	101.6	97.8
20°	218.5	214.7	207.1	194.4	179.2	171.5	165.2	158.8	160.1	158.8	148.7
22.5°	255.4	232.5	218.5	208.4	204.6	204.6	199.5	202.0	185.5	180.4	158.8
25°	343.1	326.5	308.8	298.6	293.5	282.1	260.5	245.2	228.7	223.6	207.1
27.5°	410.4	395.2	395.2	378.6	350.7	329.1	307.5	294.8	274.5	260.5	242.7
30°	494.3	475.2	451.1	420.6	393.9	373.6	358.3	327.8	308.8	289.7	254.1
32.5°	617.5	581.9	551.4	523.5	499.4	458.7	434.5	409.1	369.7	329.1	311.3
35°	731.9	687.4	653.1	623.9	574.3	546.4	509.5	452.3	410.4	390.1	349.4
37.5°	843.7	801.8	768.7	711.5	667.1	620.1	559.1	517.1	480.3	429.5	373.6
40°	989.8	942.8	875.5	825.9	767.5	688.7	642.9	592.1	529.8	467.6	420.6
42.5°	1181.7	1106.7	1052.1	989.8	883.1	832.3	770.0	679.8	601.0	545.1	467.6
45°	1412.9	1335.4	1277.0	1155.0	1077.5	1000.0	905.9	800.5	721.7	634.0	568.0
47.5°	1658.2	1604.8	1480.3	1358.3	1282.0	1166.4	1058.4	949.1	839.9	762.4	642.9
50°	1964.4	1829.7	1692.5	1604.8	1481.5	1351.9	1224.9	1086.4	991.1	871.6	756.0
52.5°	2270.6	2085.1	1986.0	1856.4	1688.6	1540.0	1392.6	1257.9	1123.2	994.9	857.7
55°	2683.5	2498.0	2349.4	2162.6	1972.0	1801.7	1649.3	1482.8	1335.4	1170.2	1020.3
57.5°	3438.3	3233.7	3020.2	2740.7	2508.2	2302.4	2096.5	1899.6	1679.8	1501.9	1320.2
60°	4566.6	4351.9	4058.3	3731.8	3372.2	3052.0	2758.5	2463.7	2191.8	1973.3	1692.5
62.5°	5308.6	5087.5	4815.6	4428.1	4048.2	3623.8	3257.9	2848.7	2545.0	2231.2	1972.0
63°	5382.3	5147.3	4874.1	4506.9	4105.4	3707.6	3336.6	2890.6	2579.3	2264.2	1996.1
65°	5269.2	5123.1	4869.0	4561.5	4250.2	3862.7	3457.3	3019.0	2667.0	2346.8	2033.0
67.5°	4708.9	4641.6	4476.4	4308.7	4030.4	3761.0	3390.0	3003.7	2630.2	2326.5	2036.8
70°	3988.5	3895.7	3766.1	3698.8	3506.9	3278.2	3022.8	2720.4	2451.0	2152.4	1889.4
72.5°	2980.9	2797.9	2693.7	2580.6	2458.6	2298.5	2149.9	1979.6	1761.1	1602.2	1338.0
75°	1560.3	1357.0	1218.5	1055.9	925.0	791.6	720.4	672.2	598.5	517.1	457.4
77.5°	632.8	528.6	426.9	363.4	273.2	218.5	186.8	165.2	152.5	136.0	125.8
80°	531.1	424.4	341.8	259.2	190.6	138.5	102.9	80.0	68.6	59.7	54.6
82.5°	429.5	368.5	306.2	241.4	185.5	149.9	110.5	78.8	57.2	45.7	39.4
85°	137.2	120.7	94.0	78.8	64.8	54.6	45.7	36.8	33.0	30.5	28.0
87.5°	57.2	44.5	40.7	36.8	35.6	34.3	34.3	31.8	29.2	25.4	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179256

CATALOG NUMBER: UTLD-F03-LED-E-U-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2.5°	41.9	41.9	40.7	41.9	39.4	36.8	35.6	34.3	33.0	33.0	33.0
5°	43.2	41.9	40.7	39.4	35.6	33.0	30.5	28.0	31.8	28.0	19.1
7.5°	44.5	43.2	40.7	39.4	35.6	31.8	29.2	17.8	11.4	11.4	12.7
10°	59.7	55.9	54.6	50.8	47.0	34.3	21.6	11.4	10.2	15.2	17.8
12.5°	64.8	61.0	57.2	53.4	44.5	36.8	17.8	15.2	19.1	15.2	16.5
15°	87.7	75.0	71.2	67.3	59.7	43.2	20.3	20.3	19.1	16.5	19.1
17.5°	96.6	82.6	78.8	76.2	58.4	28.0	22.9	24.1	19.1	21.6	17.8
20°	139.8	124.5	113.1	108.0	78.8	40.7	31.8	22.9	24.1	19.1	21.6
22.5°	160.1	148.7	137.2	134.7	88.9	44.5	36.8	31.8	22.9	22.9	20.3
25°	198.2	183.0	163.9	147.4	94.0	55.9	44.5	31.8	26.7	21.6	20.3
27.5°	224.9	199.5	183.0	172.8	101.6	58.4	43.2	35.6	26.7	20.3	17.8
30°	235.1	221.1	198.2	172.8	102.9	61.0	45.7	34.3	26.7	20.3	19.1
32.5°	287.2	255.4	222.4	203.3	110.5	64.8	44.5	34.3	25.4	19.1	17.8
35°	307.5	277.0	241.4	214.7	115.6	62.3	43.2	30.5	22.9	17.8	14.0
37.5°	340.5	296.1	261.7	228.7	116.9	58.4	39.4	29.2	20.3	15.2	12.7
40°	364.7	327.8	277.0	240.1	116.9	54.6	36.8	25.4	17.8	12.7	10.2
42.5°	421.8	357.0	306.2	263.0	119.4	49.6	33.0	21.6	15.2	8.9	7.6
45°	482.8	420.6	353.2	301.1	122.0	45.7	29.2	19.1	11.4	6.4	3.8
47.5°	569.2	487.9	411.7	345.6	123.2	41.9	26.7	16.5	8.9	3.8	2.5
50°	651.8	564.2	471.4	404.1	125.8	38.1	22.9	14.0	6.4	2.5	1.3
52.5°	748.4	640.4	546.4	451.1	127.1	35.6	20.3	11.4	3.8	1.3	0.0
55°	885.6	771.3	639.1	538.7	129.6	31.8	16.5	8.9	2.5	1.3	0.0
57.5°	1158.8	1003.8	841.1	696.3	142.3	28.0	14.0	6.4	1.3	1.3	0.0
60°	1491.7	1318.9	1104.2	894.5	167.7	24.1	11.4	3.8	1.3	0.0	0.0
62.5°	1733.1	1510.8	1255.4	1029.2	185.5	20.3	10.2	2.5	1.3	1.3	0.0
63°	1772.5	1532.4	1266.8	1038.1	186.8	20.3	8.9	2.5	1.3	0.0	0.0
65°	1801.7	1552.7	1282.0	1052.1	190.6	17.8	7.6	2.5	1.3	1.3	0.0
67.5°	1777.6	1508.2	1245.2	1025.4	193.1	15.2	6.4	2.5	1.3	1.3	1.3
70°	1612.4	1372.3	1142.3	936.4	179.2	12.7	5.1	2.5	1.3	1.3	1.3
72.5°	1158.8	1033.0	822.1	676.0	137.2	11.4	5.1	3.8	1.3	2.5	2.5
75°	390.1	349.4	291.0	257.9	80.0	7.6	3.8	3.8	1.3	2.5	2.5
77.5°	111.8	104.2	90.2	82.6	40.7	6.4	3.8	3.8	1.3	3.8	3.8
80°	48.3	44.5	39.4	34.3	17.8	5.1	3.8	5.1	1.3	5.1	3.8
82.5°	35.6	31.8	28.0	22.9	10.2	5.1	5.1	6.4	1.3	5.1	5.1
85°	25.4	22.9	19.1	16.5	7.6	5.1	5.1	6.4	2.5	6.4	6.4
87.5°	20.3	17.8	15.2	11.4	7.6	5.1	5.1	7.6	2.5	7.6	6.4
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-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	41.9	41.9	41.9
2.5°	33.0	34.3	34.3
5°	16.5	17.8	17.8
7.5°	14.0	15.2	15.2
10°	19.1	19.1	19.1
12.5°	17.8	19.1	19.1
15°	20.3	21.6	21.6
17.5°	17.8	22.9	24.1
20°	20.3	20.3	20.3
22.5°	20.3	21.6	21.6
25°	19.1	19.1	19.1
27.5°	19.1	19.1	19.1
30°	16.5	19.1	19.1
32.5°	16.5	16.5	16.5
35°	15.2	15.2	15.2
37.5°	12.7	14.0	14.0
40°	10.2	10.2	10.2
42.5°	6.4	6.4	6.4
45°	3.8	3.8	3.8
47.5°	2.5	2.5	2.5
50°	1.3	1.3	1.3
52.5°	1.3	1.3	1.3
55°	0.0	1.3	1.3
57.5°	0.0	0.0	1.3
60°	0.0	0.0	1.3
62.5°	0.0	0.0	1.3
63°	0.0	0.0	1.3
65°	1.3	0.0	1.3
67.5°	1.3	1.3	1.3
70°	1.3	1.3	1.3
72.5°	2.5	1.3	2.5
75°	2.5	2.5	2.5
77.5°	3.8	2.5	2.5
80°	3.8	3.8	2.5
82.5°	5.1	3.8	1.3
85°	5.1	5.1	2.5
87.5°	6.4	6.4	2.5
90°	0.0	0.0	0.0

(END OF REPORT)