

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: P179255

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179255
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.2 lumens
Efficiency: N/A
Efficacy: 51.4 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

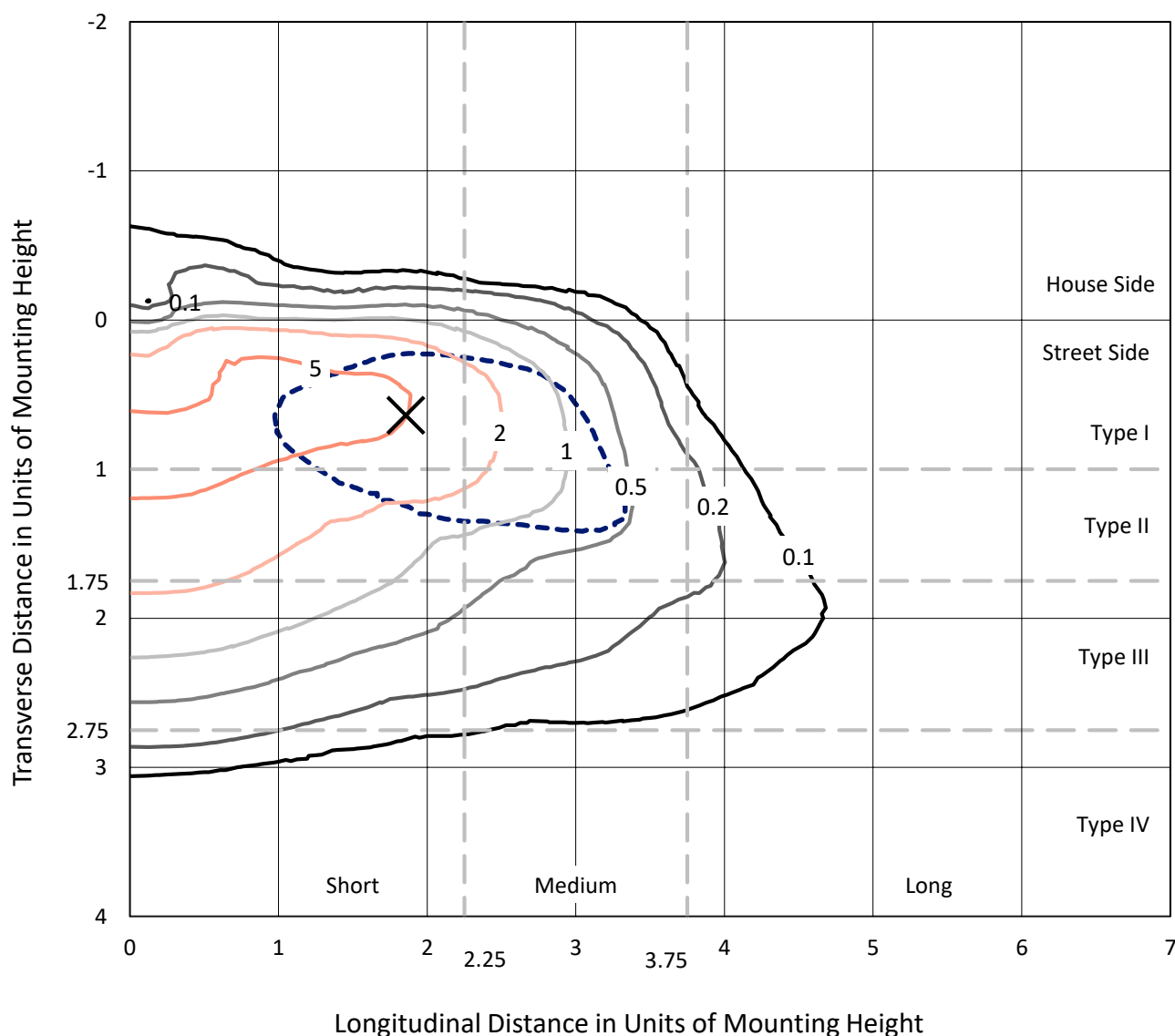


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

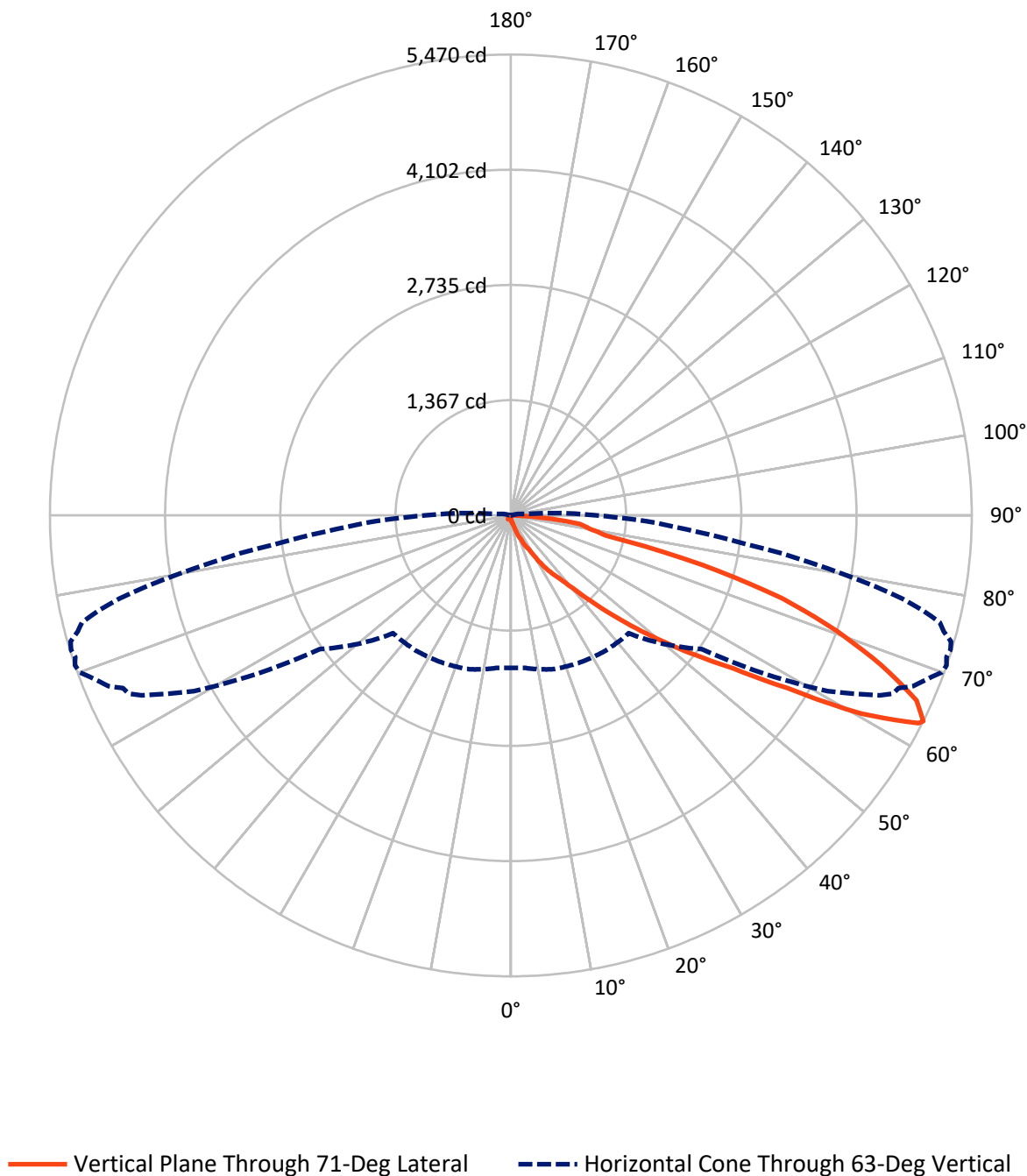


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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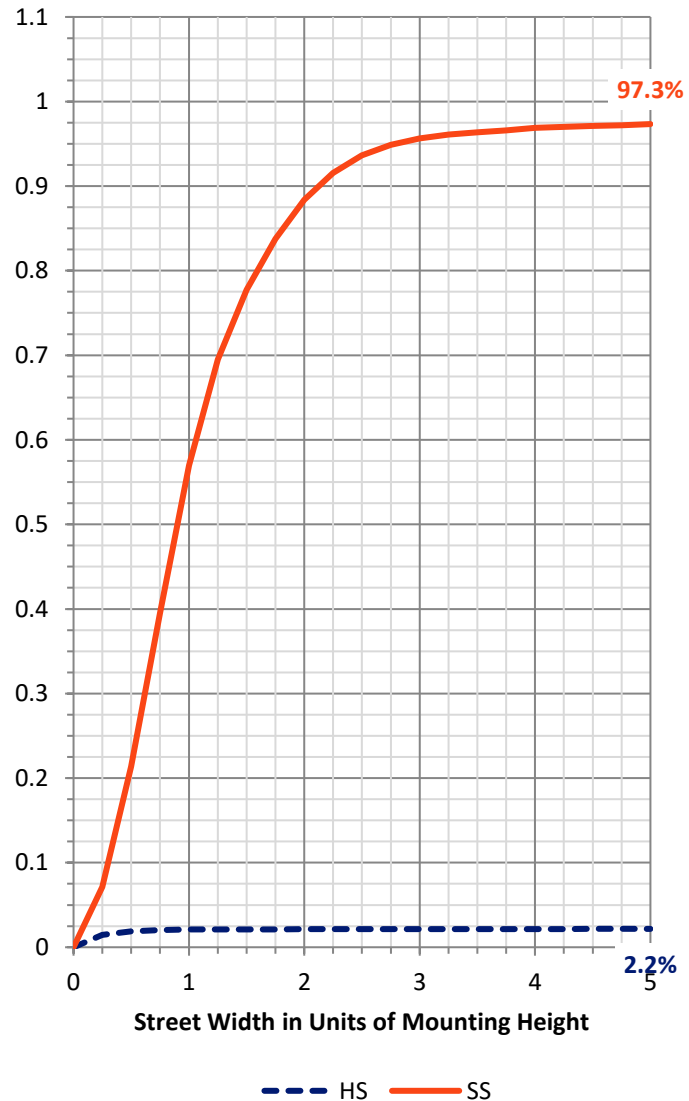
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	89.2	0.0	89.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3933.0	0.0	3933.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	4022.2	0.0	4022.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	31.9	0.8
20°-30°	97.6	2.4
30°-40°	300.8	7.5
40°-50°	714.7	17.8
50°-60°	1032.7	25.7
60°-70°	1277.9	31.8
70°-80°	485.2	12.1
80°-90°	75.7	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°	4022.2	100.0
0°-180°	4022.2	100.0

Coefficient of Utilization



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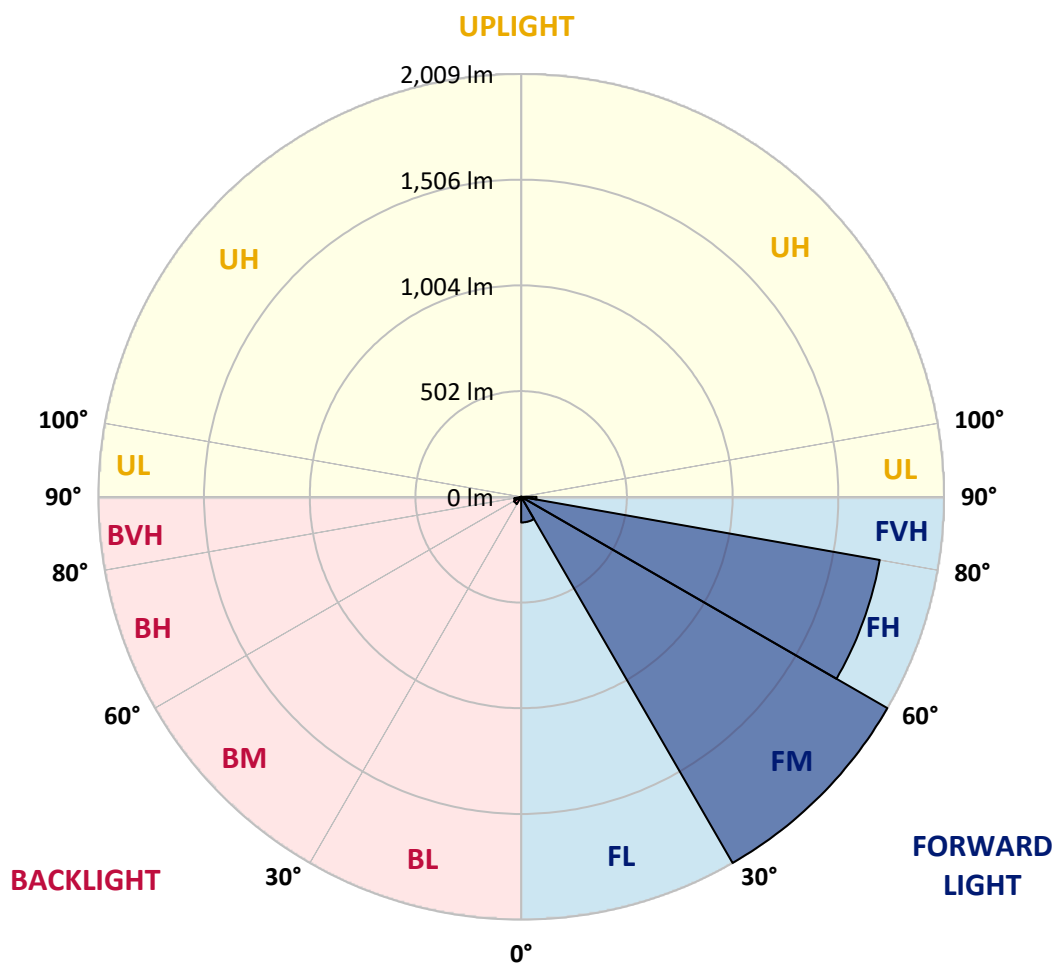
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.9	3.0			
FM	(30°-60°)	2008.6	49.9			
FH	(60°-80°)	1729.5	43.0			G1/1800
FVH	(80°-90°)	73.0	1.8			G1/100
BL	(0°-30°)	13.3	0.3	B0/110		
BM	(30°-60°)	39.6	1.0	B0/220		
BH	(60°-80°)	33.5	0.8	B0/110		G0/110
BVH	(80°-90°)	2.7	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°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	76.8	75.5	73.1	73.1	71.8	71.8	70.6	69.3	69.3	69.3	68.1
5°	90.4	89.2	85.4	81.7	81.7	79.3	74.3	73.1	71.8	70.6	70.6
7.5°	147.4	146.1	143.6	139.9	133.7	91.6	81.7	80.5	79.3	78.0	76.8
10°	164.7	164.7	163.5	158.5	152.3	142.4	130.0	94.1	91.6	92.9	96.6
12.5°	221.7	215.5	219.2	213.0	179.6	168.4	172.1	159.7	157.3	156.0	121.4
15°	236.5	230.3	219.2	220.4	225.4	239.0	194.4	183.3	177.1	173.4	173.4
17.5°	260.0	260.0	261.3	261.3	251.4	256.3	252.6	224.1	222.9	217.9	216.7
20°	319.5	317.0	282.3	266.2	293.5	299.7	300.9	258.8	250.1	248.9	256.3
22.5°	338.1	335.6	329.4	335.6	300.9	338.1	388.8	387.6	377.7	372.7	341.8
25°	430.9	427.2	404.9	346.7	370.2	371.5	421.0	424.7	422.3	430.9	456.9
27.5°	497.8	502.7	452.0	414.8	390.1	443.3	536.2	547.3	547.3	534.9	536.2
30°	634.0	631.5	575.8	481.7	470.5	476.7	590.7	629.0	661.2	641.4	663.7
32.5°	911.4	899.0	813.6	641.4	563.4	589.4	708.3	754.1	746.7	735.5	755.4
35°	1312.6	1303.9	1128.1	963.4	809.8	749.2	837.1	913.9	897.8	933.7	947.3
37.5°	1594.9	1572.6	1497.1	1331.2	1181.3	1081.0	1118.2	1088.5	1084.7	1109.5	1107.0
40°	1802.9	1804.2	1778.2	1643.2	1534.2	1478.5	1483.5	1373.3	1365.8	1374.5	1357.2
42.5°	1904.5	1913.2	1934.2	1867.3	1822.8	1829.0	1878.5	1785.6	1781.9	1759.6	1692.7
45°	1966.4	1977.5	2041.9	2064.2	2050.6	2112.5	2247.5	2172.0	2178.1	2198.0	2102.6
47.5°	1973.8	1989.9	2074.1	2141.0	2195.5	2320.6	2527.3	2544.7	2563.3	2579.4	2508.8
50°	1900.8	1907.0	2013.5	2110.0	2190.5	2425.8	2740.3	2848.1	2881.5	2881.5	2822.1
52.5°	1768.3	1776.9	1878.5	1983.7	2060.5	2420.9	2877.8	3073.4	3147.7	3150.2	3064.8
55°	1711.3	1721.2	1798.0	1890.9	1929.3	2300.7	2962.0	3277.7	3355.8	3369.4	3318.6
57.5°	1711.3	1722.5	1784.4	1838.9	1858.7	2160.8	3012.8	3516.7	3604.7	3688.9	3686.4
60°	1788.1	1800.5	1850.0	1846.3	1827.7	2061.7	2990.5	3809.0	3951.4	4092.5	4254.8
62.5°	1832.7	1838.9	1907.0	1926.8	1923.1	1988.7	2815.9	4026.9	4247.3	4452.9	4804.6
63°	1807.9	1815.3	1890.9	1926.8	1959.0	1977.5	2767.6	4050.4	4299.3	4481.4	4871.4
65°	1674.2	1675.4	1755.9	1800.5	2018.4	1976.3	2508.8	4004.6	4309.2	4490.0	4924.7
67.5°	1326.2	1333.6	1389.4	1464.9	1666.7	2006.0	2155.9	3479.6	3787.9	3932.8	4417.0
70°	698.4	729.4	775.2	875.5	1151.6	1703.9	1804.2	2563.3	2861.7	3077.1	3633.1
72.5°	211.7	196.9	256.3	375.2	585.7	1178.8	1582.5	1810.4	1982.5	2196.7	2788.6
75°	95.3	97.8	111.4	159.7	256.3	632.8	1383.2	1487.2	1510.7	1583.8	1942.9
77.5°	54.5	55.7	65.6	90.4	133.7	315.8	1047.6	1333.6	1315.1	1341.1	1406.7
80°	35.9	37.1	47.1	64.4	74.3	154.8	594.4	1040.2	1100.8	1167.7	1216.0
82.5°	19.8	19.8	29.7	52.0	48.3	74.3	234.0	681.1	790.0	859.4	1004.3
85°	8.7	9.9	17.3	34.7	29.7	34.7	112.7	231.6	265.0	278.6	346.7
87.5°	2.5	2.5	5.0	12.4	12.4	16.1	33.4	104.0	110.2	118.9	144.9
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	68.1	68.1	65.6	64.4	60.7	60.7	58.2	59.4	55.7	54.5	52.0
5°	69.3	69.3	69.3	69.3	68.1	68.1	68.1	68.1	68.1	68.1	66.9
7.5°	75.5	75.5	75.5	75.5	74.3	73.1	70.6	70.6	69.3	69.3	69.3
10°	96.6	95.3	92.9	91.6	90.4	89.2	86.7	87.9	85.4	86.7	84.2
12.5°	115.2	112.7	109.0	105.3	104.0	102.8	100.3	99.1	97.8	100.3	99.1
15°	179.6	178.3	179.6	173.4	141.2	139.9	141.2	138.7	136.2	132.5	127.5
17.5°	214.2	210.5	198.1	193.2	194.4	190.7	180.8	161.0	149.8	144.9	142.4
20°	274.9	276.1	278.6	278.6	273.7	267.5	261.3	260.0	252.6	226.6	216.7
22.5°	329.4	329.4	323.2	317.0	309.6	310.8	302.1	282.3	276.1	268.7	265.0
25°	473.0	465.6	448.3	442.1	435.9	419.8	398.7	387.6	383.9	378.9	362.8
27.5°	534.9	525.0	521.3	513.9	491.6	465.6	456.9	450.7	456.9	427.2	406.2
30°	647.6	646.4	642.7	626.6	599.3	578.3	579.5	573.3	532.5	501.5	481.7
32.5°	762.8	754.1	783.8	754.1	729.4	738.0	726.9	688.5	660.0	627.8	624.1
35°	943.6	943.6	918.8	886.6	890.3	896.5	843.3	803.6	785.1	771.5	744.2
37.5°	1109.5	1102.1	1056.3	1038.9	1058.7	1024.1	964.6	938.6	932.4	908.9	865.6
40°	1334.9	1290.3	1255.6	1251.9	1249.4	1168.9	1135.5	1138.0	1105.8	1058.7	1009.2
42.5°	1644.4	1572.6	1546.6	1549.1	1459.9	1395.5	1383.2	1352.2	1310.1	1256.9	1212.3
45°	2001.1	1931.7	1933.0	1855.0	1742.3	1686.5	1674.2	1625.9	1573.9	1511.9	1447.6
47.5°	2388.7	2339.1	2363.9	2207.9	2108.8	2076.6	1997.4	1921.8	1861.1	1785.6	1705.1
50°	2737.9	2763.9	2709.4	2573.2	2501.3	2458.0	2365.1	2271.0	2193.0	2077.8	1968.9
52.5°	3064.8	3114.3	3028.9	2903.8	2913.7	2830.7	2758.9	2663.6	2559.5	2423.3	2308.2
55°	3391.7	3402.8	3332.2	3291.4	3288.9	3235.6	3203.4	3135.3	2995.4	2858.0	2806.0
57.5°	3804.0	3790.4	3740.9	3805.3	3810.2	3827.5	3862.2	3791.6	3749.5	3649.2	3568.7
60°	4399.6	4388.5	4410.8	4600.2	4638.6	4753.8	4778.6	4781.0	4745.1	4777.3	4581.7
62.5°	4925.9	4970.5	5115.4	5203.3	5293.7	5405.1	5429.9	5384.1	5407.6	5410.1	5257.8
63°	5002.7	5037.4	5187.2	5262.7	5349.4	5442.3	5469.5	5434.8	5455.9	5434.8	5319.7
65°	5036.1	5052.2	5228.0	5208.2	5318.4	5359.3	5290.0	5276.3	5354.4	5242.9	5221.9
67.5°	4542.0	4639.9	4757.5	4757.5	4842.9	4834.3	4741.4	4761.2	4762.5	4719.1	4708.0
70°	3797.8	3996.0	4020.7	4109.9	4169.3	4117.3	4097.5	4111.1	4007.1	4030.6	3926.6
72.5°	3021.4	3234.4	3274.0	3440.0	3457.3	3339.7	3368.1	3286.4	3172.5	3101.9	2958.3
75°	2199.2	2334.2	2451.8	2498.9	2500.1	2388.7	2340.4	2152.1	1985.0	1784.4	1731.1
77.5°	1535.5	1520.6	1565.2	1539.2	1364.6	1308.9	1151.6	1060.0	974.5	825.9	744.2
80°	1240.8	1227.1	1248.2	1192.5	1116.9	1053.8	941.1	856.9	761.5	697.2	598.1
82.5°	1058.7	1114.5	1128.1	1048.8	1010.4	957.2	827.2	735.5	642.7	559.7	481.7
85°	403.7	481.7	475.5	495.3	496.6	469.3	413.6	328.1	260.0	210.5	170.9
87.5°	156.0	174.6	163.5	162.2	163.5	149.8	127.5	112.7	95.3	76.8	64.4
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	50.8	48.3	48.3	45.8	45.8	44.6	44.6	43.3	43.3	42.1	42.1
5°	66.9	66.9	65.6	63.2	57.0	54.5	49.5	45.8	44.6	43.3	42.1
7.5°	69.3	69.3	68.1	68.1	66.9	65.6	64.4	60.7	54.5	49.5	45.8
10°	84.2	81.7	83.0	85.4	84.2	84.2	83.0	81.7	79.3	76.8	61.9
12.5°	97.8	96.6	94.1	89.2	86.7	85.4	85.4	84.2	83.0	81.7	79.3
15°	123.8	120.1	118.9	115.2	112.7	109.0	110.2	109.0	106.5	101.5	90.4
17.5°	137.4	135.0	131.3	132.5	130.0	122.6	110.2	106.5	102.8	99.1	95.3
20°	213.0	209.3	201.8	189.5	174.6	167.2	161.0	154.8	156.0	154.8	144.9
22.5°	248.9	226.6	213.0	203.1	199.4	199.4	194.4	196.9	180.8	175.8	154.8
25°	334.3	318.2	300.9	291.0	286.0	274.9	253.8	239.0	222.9	217.9	201.8
27.5°	400.0	385.1	385.1	369.0	341.8	320.7	299.7	287.3	267.5	253.8	236.5
30°	481.7	463.1	439.6	409.9	383.9	364.1	349.2	319.5	300.9	282.3	247.7
32.5°	601.8	567.1	537.4	510.2	486.6	447.0	423.5	398.7	360.3	320.7	303.4
35°	713.3	669.9	636.5	608.0	559.7	532.5	496.6	440.8	400.0	380.2	340.5
37.5°	822.2	781.4	749.2	693.4	650.1	604.3	544.8	504.0	468.1	418.5	364.1
40°	964.6	918.8	853.2	804.9	747.9	671.2	626.6	577.0	516.4	455.7	409.9
42.5°	1151.6	1078.5	1025.3	964.6	860.6	811.1	750.4	662.5	585.7	531.2	455.7
45°	1377.0	1301.4	1244.5	1125.6	1050.1	974.5	882.9	780.1	703.3	617.9	553.5
47.5°	1616.0	1564.0	1442.6	1323.7	1249.4	1136.7	1031.5	925.0	818.5	743.0	626.6
50°	1914.4	1783.1	1649.4	1564.0	1443.8	1317.5	1193.7	1058.7	965.9	849.5	736.8
52.5°	2212.8	2032.0	1935.4	1809.1	1645.7	1500.8	1357.2	1225.9	1094.6	969.6	835.8
55°	2615.3	2434.5	2289.6	2107.6	1921.8	1755.9	1607.3	1445.1	1301.4	1140.5	994.3
57.5°	3350.8	3151.4	2943.4	2671.0	2444.4	2243.8	2043.2	1851.2	1637.0	1463.7	1286.6
60°	4450.4	4241.1	3955.1	3636.9	3286.4	2974.4	2688.3	2401.0	2136.0	1923.1	1649.4
62.5°	5173.6	4958.1	4693.1	4315.4	3945.2	3531.6	3175.0	2776.2	2480.3	2174.4	1921.8
63°	5245.4	5016.3	4750.1	4392.2	4000.9	3613.3	3251.7	2817.1	2513.7	2206.6	1945.3
65°	5135.2	4992.8	4745.1	4445.5	4142.1	3764.4	3369.4	2942.2	2599.2	2287.1	1981.3
67.5°	4589.1	4523.5	4362.5	4199.0	3927.8	3665.3	3303.8	2927.3	2563.3	2267.3	1985.0
70°	3887.0	3796.6	3670.3	3604.7	3417.7	3194.8	2945.9	2651.2	2388.7	2097.7	1841.3
72.5°	2905.0	2726.7	2625.2	2515.0	2396.1	2240.1	2095.2	1929.3	1716.3	1561.5	1303.9
75°	1520.6	1322.5	1187.5	1029.0	901.5	771.5	702.1	655.1	583.2	504.0	445.8
77.5°	616.7	515.1	416.1	354.2	266.2	213.0	182.0	161.0	148.6	132.5	122.6
80°	517.6	413.6	333.1	252.6	185.7	135.0	100.3	78.0	66.9	58.2	53.2
82.5°	418.5	359.1	298.4	235.3	180.8	146.1	107.7	76.8	55.7	44.6	38.4
85°	133.7	117.6	91.6	76.8	63.2	53.2	44.6	35.9	32.2	29.7	27.2
87.5°	55.7	43.3	39.6	35.9	34.7	33.4	33.4	31.0	28.5	24.8	22.3
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: P179255

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

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	40.9	40.9	39.6	40.9	38.4	35.9	34.7	33.4	32.2	32.2	32.2
5°	42.1	40.9	39.6	38.4	34.7	32.2	29.7	27.2	31.0	27.2	18.6
7.5°	43.3	42.1	39.6	38.4	34.7	31.0	28.5	17.3	11.1	11.1	12.4
10°	58.2	54.5	53.2	49.5	45.8	33.4	21.1	11.1	9.9	14.9	17.3
12.5°	63.2	59.4	55.7	52.0	43.3	35.9	17.3	14.9	18.6	14.9	16.1
15°	85.4	73.1	69.3	65.6	58.2	42.1	19.8	19.8	18.6	16.1	18.6
17.5°	94.1	80.5	76.8	74.3	57.0	27.2	22.3	23.5	18.6	21.1	17.3
20°	136.2	121.4	110.2	105.3	76.8	39.6	31.0	22.3	23.5	18.6	21.1
22.5°	156.0	144.9	133.7	131.3	86.7	43.3	35.9	31.0	22.3	22.3	19.8
25°	193.2	178.3	159.7	143.6	91.6	54.5	43.3	31.0	26.0	21.1	19.8
27.5°	219.2	194.4	178.3	168.4	99.1	57.0	42.1	34.7	26.0	19.8	17.3
30°	229.1	215.5	193.2	168.4	100.3	59.4	44.6	33.4	26.0	19.8	18.6
32.5°	279.9	248.9	216.7	198.1	107.7	63.2	43.3	33.4	24.8	18.6	17.3
35°	299.7	269.9	235.3	209.3	112.7	60.7	42.1	29.7	22.3	17.3	13.6
37.5°	331.9	288.5	255.1	222.9	113.9	57.0	38.4	28.5	19.8	14.9	12.4
40°	355.4	319.5	269.9	234.0	113.9	53.2	35.9	24.8	17.3	12.4	9.9
42.5°	411.1	348.0	298.4	256.3	116.4	48.3	32.2	21.1	14.9	8.7	7.4
45°	470.5	409.9	344.2	293.5	118.9	44.6	28.5	18.6	11.1	6.2	3.7
47.5°	554.8	475.5	401.2	336.8	120.1	40.9	26.0	16.1	8.7	3.7	2.5
50°	635.2	549.8	459.4	393.8	122.6	37.1	22.3	13.6	6.2	2.5	1.2
52.5°	729.4	624.1	532.5	439.6	123.8	34.7	19.8	11.1	3.7	1.2	0.0
55°	863.1	751.6	622.9	525.0	126.3	31.0	16.1	8.7	2.5	1.2	0.0
57.5°	1129.3	978.2	819.7	678.6	138.7	27.2	13.6	6.2	1.2	1.2	0.0
60°	1453.7	1285.3	1076.1	871.8	163.5	23.5	11.1	3.7	1.2	0.0	0.0
62.5°	1689.0	1472.3	1223.4	1003.0	180.8	19.8	9.9	2.5	1.2	1.2	0.0
63°	1727.4	1493.4	1234.6	1011.7	182.0	19.8	8.7	2.5	1.2	0.0	0.0
65°	1755.9	1513.2	1249.4	1025.3	185.7	17.3	7.4	2.5	1.2	1.2	0.0
67.5°	1732.4	1469.8	1213.5	999.3	188.2	14.9	6.2	2.5	1.2	1.2	1.2
70°	1571.4	1337.4	1113.2	912.6	174.6	12.4	5.0	2.5	1.2	1.2	1.2
72.5°	1129.3	1006.7	801.2	658.8	133.7	11.1	5.0	3.7	1.2	2.5	2.5
75°	380.2	340.5	283.6	251.4	78.0	7.4	3.7	3.7	1.2	2.5	2.5
77.5°	109.0	101.5	87.9	80.5	39.6	6.2	3.7	3.7	1.2	3.7	3.7
80°	47.1	43.3	38.4	33.4	17.3	5.0	3.7	5.0	1.2	5.0	3.7
82.5°	34.7	31.0	27.2	22.3	9.9	5.0	5.0	6.2	1.2	5.0	5.0
85°	24.8	22.3	18.6	16.1	7.4	5.0	5.0	6.2	2.5	6.2	6.2
87.5°	19.8	17.3	14.9	11.1	7.4	5.0	5.0	7.4	2.5	7.4	6.2
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: P179255

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

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	40.9	40.9	40.9
2.5°	32.2	33.4	33.4
5°	16.1	17.3	17.3
7.5°	13.6	14.9	14.9
10°	18.6	18.6	18.6
12.5°	17.3	18.6	18.6
15°	19.8	21.1	21.1
17.5°	17.3	22.3	23.5
20°	19.8	19.8	19.8
22.5°	19.8	21.1	21.1
25°	18.6	18.6	18.6
27.5°	18.6	18.6	18.6
30°	16.1	18.6	18.6
32.5°	16.1	16.1	16.1
35°	14.9	14.9	14.9
37.5°	12.4	13.6	13.6
40°	9.9	9.9	9.9
42.5°	6.2	6.2	6.2
45°	3.7	3.7	3.7
47.5°	2.5	2.5	2.5
50°	1.2	1.2	1.2
52.5°	1.2	1.2	1.2
55°	0.0	1.2	1.2
57.5°	0.0	0.0	1.2
60°	0.0	0.0	1.2
62.5°	0.0	0.0	1.2
63°	0.0	0.0	1.2
65°	1.2	0.0	1.2
67.5°	1.2	1.2	1.2
70°	1.2	1.2	1.2
72.5°	2.5	1.2	2.5
75°	2.5	2.5	2.5
77.5°	3.7	2.5	2.5
80°	3.7	3.7	2.5
82.5°	5.0	3.7	1.2
85°	5.0	5.0	2.5
87.5°	6.2	6.2	2.5
90°	0.0	0.0	0.0

(END OF REPORT)