

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: P179250

Luminaire Tested: **UTLD-E03-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179250
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-E03-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: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4872.2 lumens
Efficiency: N/A
Efficacy: 64.8 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 - G2

Input Watts (W): 75.2
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

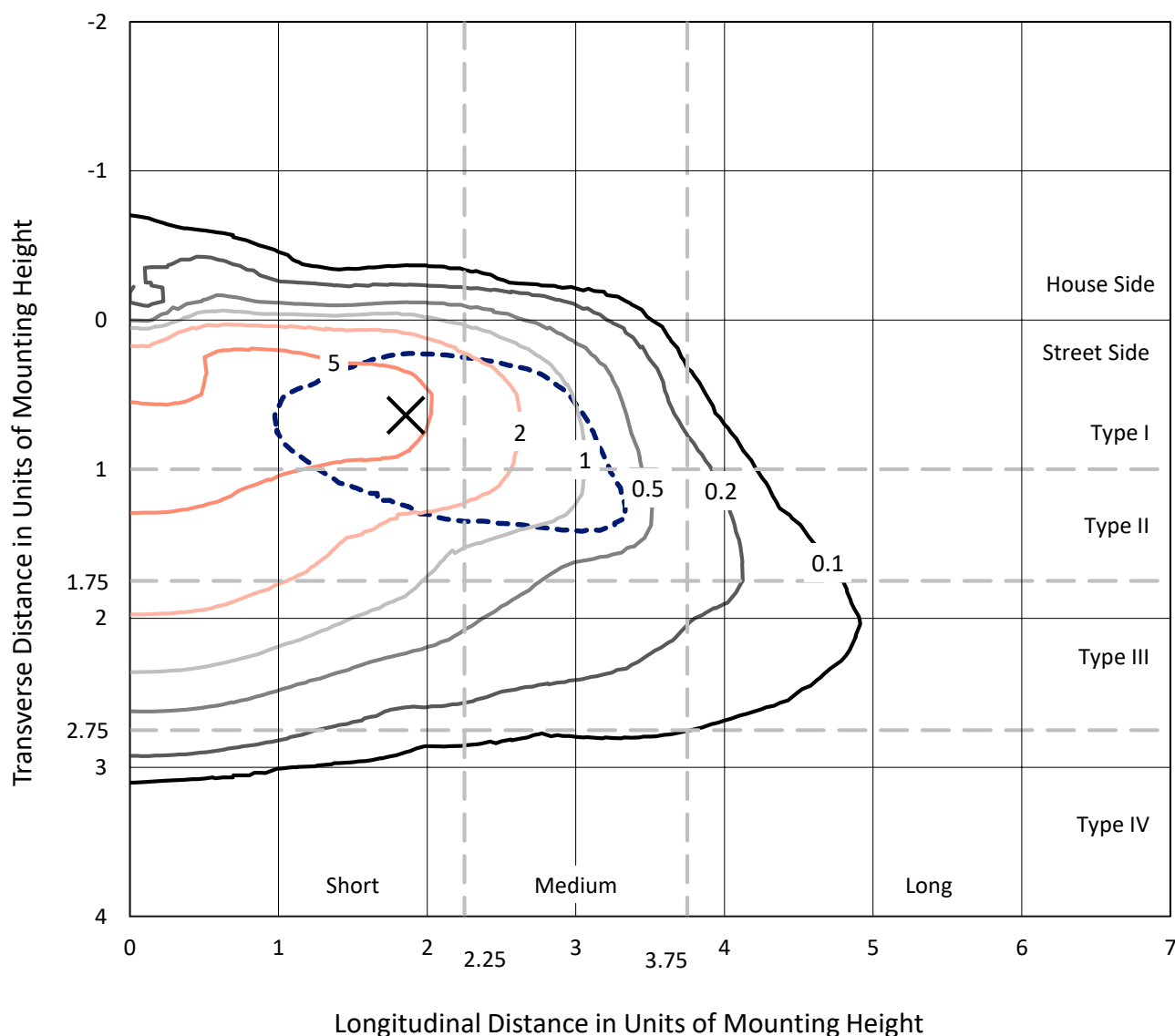


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

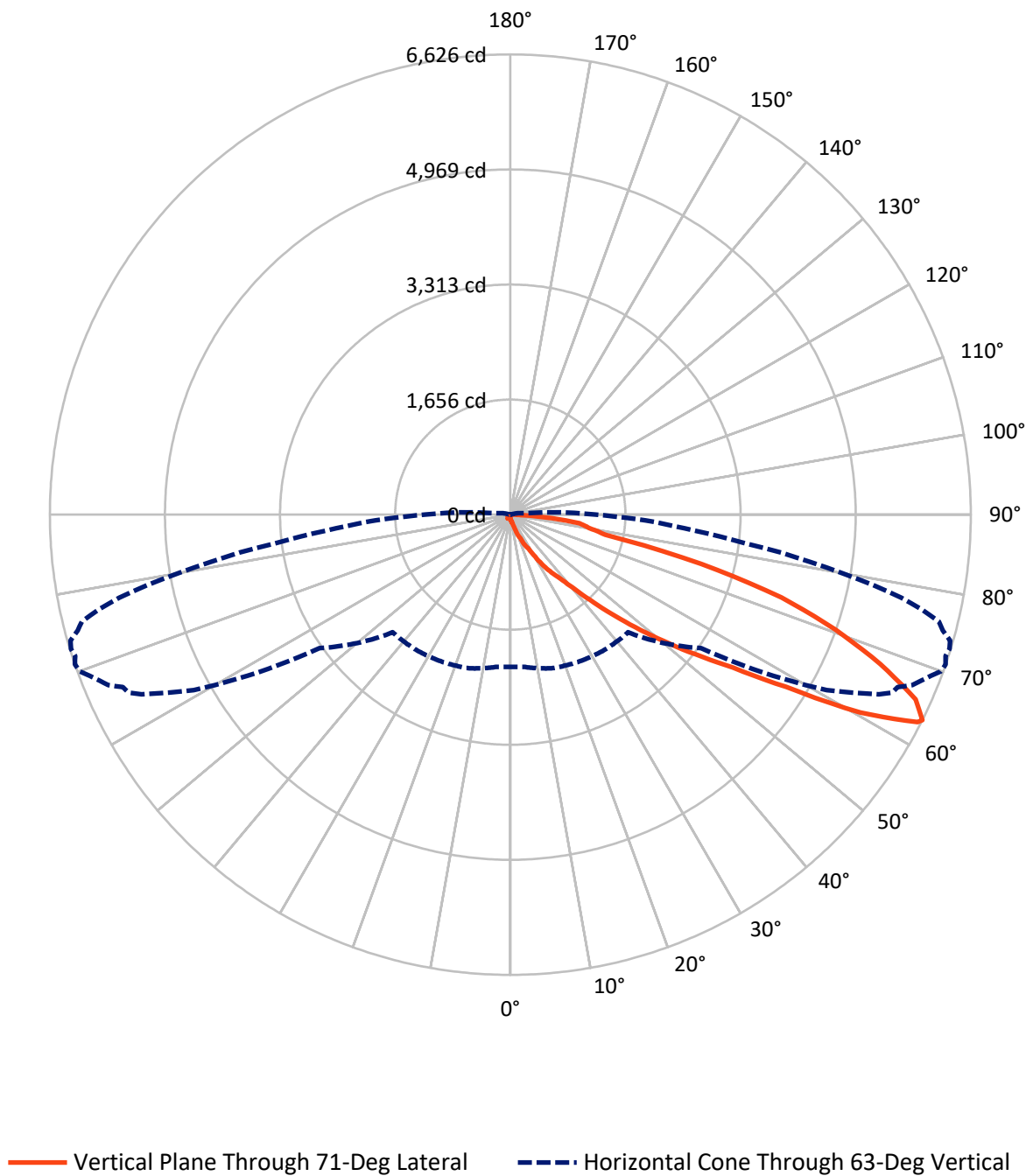


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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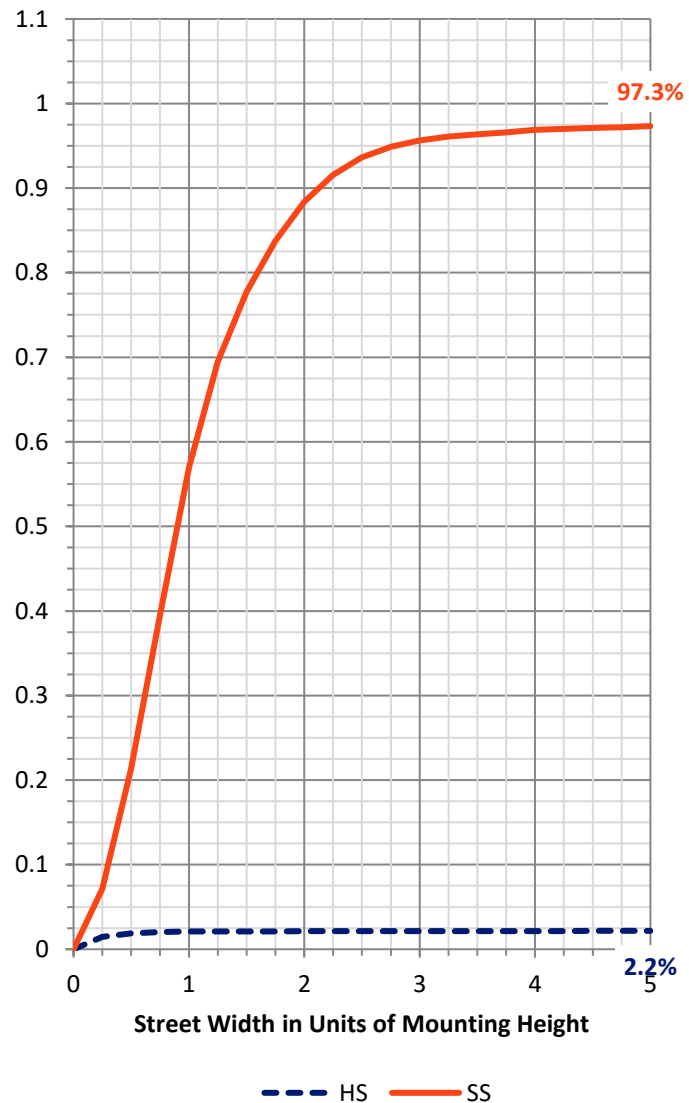
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	108.0	0.0	108.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4764.2	0.0	4764.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	4872.2	0.0	4872.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	38.6	0.8
20°-30°	118.3	2.4
30°-40°	364.4	7.5
40°-50°	865.8	17.8
50°-60°	1250.9	25.7
60°-70°	1548.0	31.8
70°-80°	587.7	12.1
80°-90°	91.7	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°	4872.2	100.0
0°-180°	4872.2	100.0

Coefficient of Utilization



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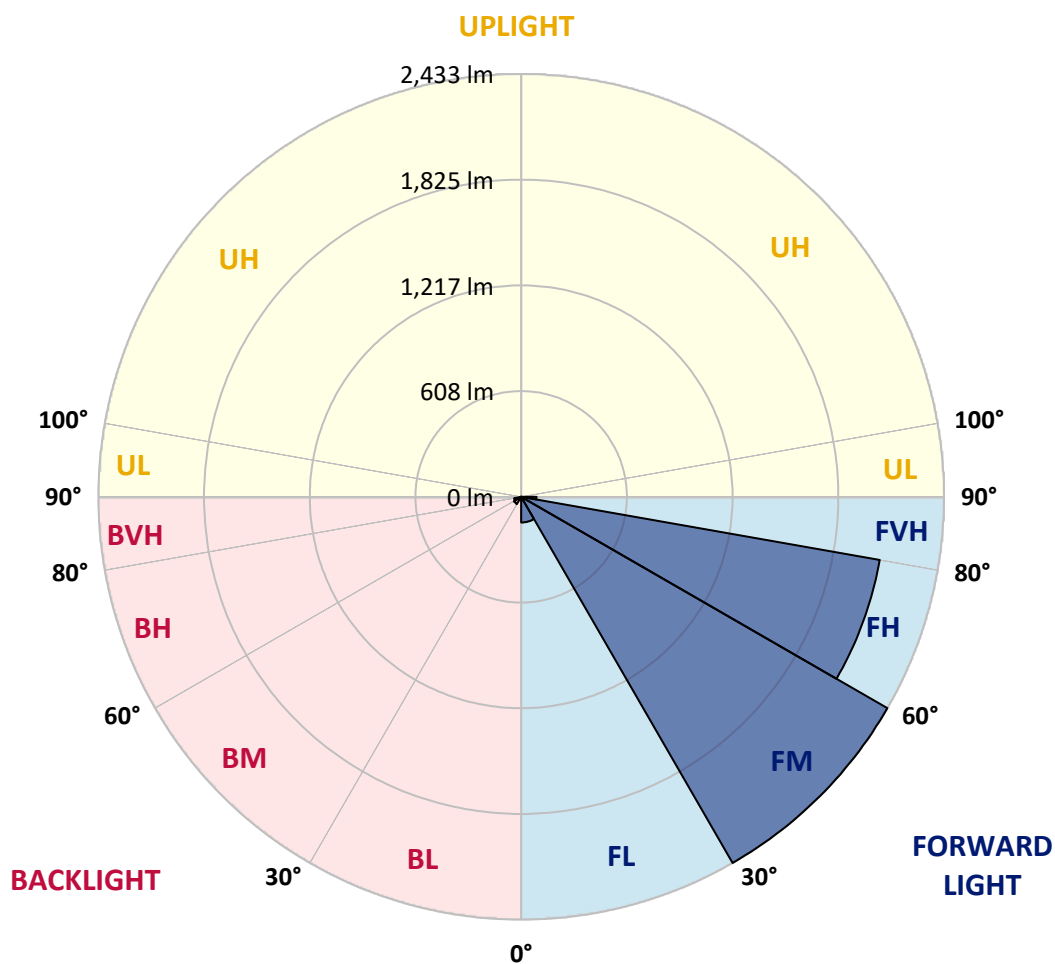
CATALOG NUMBER: UTLD-E03-LED-E-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.7	3.0			
FM	(30°-60°)	2433.1	49.9			
FH	(60°-80°)	2095.0	43.0			G2/5000
FVH	(80°-90°)	88.4	1.8			G1/100
BL	(0°-30°)	16.1	0.3	B0/110		
BM	(30°-60°)	48.0	1.0	B0/220		
BH	(60°-80°)	40.6	0.8	B0/110		G0/110
BVH	(80°-90°)	3.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	93.0	91.5	88.5	88.5	87.0	87.0	85.5	84.0	84.0	84.0	82.5
5°	109.5	108.0	103.5	99.0	99.0	96.0	90.0	88.5	87.0	85.5	85.5
7.5°	178.5	177.0	174.0	169.5	162.0	111.0	99.0	97.5	96.0	94.5	93.0
10°	199.5	199.5	198.0	192.0	184.5	172.5	157.5	114.0	111.0	112.5	117.0
12.5°	268.5	261.0	265.5	258.0	217.5	204.0	208.5	193.5	190.5	189.0	147.0
15°	286.5	279.0	265.5	267.0	273.0	289.5	235.5	222.0	214.5	210.0	210.0
17.5°	315.0	315.0	316.5	316.5	304.5	310.5	306.0	271.5	270.0	264.0	262.5
20°	387.0	384.0	342.0	322.5	355.5	363.0	364.5	313.5	303.0	301.5	310.5
22.5°	409.5	406.5	399.0	406.5	364.5	409.5	471.0	469.5	457.5	451.5	414.0
25°	522.0	517.5	490.5	420.0	448.5	450.0	510.0	514.5	511.5	522.0	553.5
27.5°	603.0	609.0	547.5	502.5	472.5	537.0	649.5	663.0	663.0	648.0	649.5
30°	768.0	765.0	697.5	583.5	570.0	577.5	715.5	762.0	801.0	777.0	804.0
32.5°	1104.0	1089.0	985.5	777.0	682.5	714.0	858.0	913.5	904.5	891.0	915.0
35°	1590.0	1579.5	1366.5	1167.0	981.0	907.5	1014.0	1107.0	1087.5	1131.0	1147.5
37.5°	1932.0	1905.0	1813.5	1612.5	1431.0	1309.5	1354.5	1318.5	1314.0	1344.0	1341.0
40°	2184.0	2185.5	2154.0	1990.5	1858.5	1791.0	1797.0	1663.5	1654.5	1665.0	1644.0
42.5°	2307.0	2317.5	2343.0	2262.0	2208.0	2215.5	2275.5	2163.0	2158.5	2131.5	2050.5
45°	2382.0	2395.5	2473.5	2500.5	2484.0	2559.0	2722.5	2631.0	2638.5	2662.5	2547.0
47.5°	2391.0	2410.5	2512.5	2593.5	2659.5	2811.0	3061.5	3082.5	3105.0	3124.5	3039.0
50°	2302.5	2310.0	2439.0	2556.0	2653.5	2938.5	3319.5	3450.0	3490.5	3490.5	3418.5
52.5°	2142.0	2152.5	2275.5	2403.0	2496.0	2932.5	3486.0	3723.0	3813.0	3816.0	3712.5
55°	2073.0	2085.0	2178.0	2290.5	2337.0	2787.0	3588.0	3970.5	4065.0	4081.5	4020.0
57.5°	2073.0	2086.5	2161.5	2227.5	2251.5	2617.5	3649.5	4260.0	4366.5	4468.5	4465.5
60°	2166.0	2181.0	2241.0	2236.5	2214.0	2497.5	3622.5	4614.0	4786.5	4957.5	5154.0
62.5°	2220.0	2227.5	2310.0	2334.0	2329.5	2409.0	3411.0	4878.0	5145.0	5394.0	5820.0
63°	2190.0	2199.0	2290.5	2334.0	2373.0	2395.5	3352.5	4906.5	5208.0	5428.5	5901.0
65°	2028.0	2029.5	2127.0	2181.0	2445.0	2394.0	3039.0	4851.0	5220.0	5439.0	5965.5
67.5°	1606.5	1615.5	1683.0	1774.5	2019.0	2430.0	2611.5	4215.0	4588.5	4764.0	5350.5
70°	846.0	883.5	939.0	1060.5	1395.0	2064.0	2185.5	3105.0	3466.5	3727.5	4401.0
72.5°	256.5	238.5	310.5	454.5	709.5	1428.0	1917.0	2193.0	2401.5	2661.0	3378.0
75°	115.5	118.5	135.0	193.5	310.5	766.5	1675.5	1801.5	1830.0	1918.5	2353.5
77.5°	66.0	67.5	79.5	109.5	162.0	382.5	1269.0	1615.5	1593.0	1624.5	1704.0
80°	43.5	45.0	57.0	78.0	90.0	187.5	720.0	1260.0	1333.5	1414.5	1473.0
82.5°	24.0	24.0	36.0	63.0	58.5	90.0	283.5	825.0	957.0	1041.0	1216.5
85°	10.5	12.0	21.0	42.0	36.0	42.0	136.5	280.5	321.0	337.5	420.0
87.5°	3.0	3.0	6.0	15.0	15.0	19.5	40.5	126.0	133.5	144.0	175.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	82.5	82.5	79.5	78.0	73.5	73.5	70.5	72.0	67.5	66.0	63.0
5°	84.0	84.0	84.0	84.0	82.5	82.5	82.5	82.5	82.5	82.5	81.0
7.5°	91.5	91.5	91.5	91.5	90.0	88.5	85.5	85.5	84.0	84.0	84.0
10°	117.0	115.5	112.5	111.0	109.5	108.0	105.0	106.5	103.5	105.0	102.0
12.5°	139.5	136.5	132.0	127.5	126.0	124.5	121.5	120.0	118.5	121.5	120.0
15°	217.5	216.0	217.5	210.0	171.0	169.5	171.0	168.0	165.0	160.5	154.5
17.5°	259.5	255.0	240.0	234.0	235.5	231.0	219.0	195.0	181.5	175.5	172.5
20°	333.0	334.5	337.5	337.5	331.5	324.0	316.5	315.0	306.0	274.5	262.5
22.5°	399.0	399.0	391.5	384.0	375.0	376.5	366.0	342.0	334.5	325.5	321.0
25°	573.0	564.0	543.0	535.5	528.0	508.5	483.0	469.5	465.0	459.0	439.5
27.5°	648.0	636.0	631.5	622.5	595.5	564.0	553.5	546.0	553.5	517.5	492.0
30°	784.5	783.0	778.5	759.0	726.0	700.5	702.0	694.5	645.0	607.5	583.5
32.5°	924.0	913.5	949.5	913.5	883.5	894.0	880.5	834.0	799.5	760.5	756.0
35°	1143.0	1143.0	1113.0	1074.0	1078.5	1086.0	1021.5	973.5	951.0	934.5	901.5
37.5°	1344.0	1335.0	1279.5	1258.5	1282.5	1240.5	1168.5	1137.0	1129.5	1101.0	1048.5
40°	1617.0	1563.0	1521.0	1516.5	1513.5	1416.0	1375.5	1378.5	1339.5	1282.5	1222.5
42.5°	1992.0	1905.0	1873.5	1876.5	1768.5	1690.5	1675.5	1638.0	1587.0	1522.5	1468.5
45°	2424.0	2340.0	2341.5	2247.0	2110.5	2043.0	2028.0	1969.5	1906.5	1831.5	1753.5
47.5°	2893.5	2833.5	2863.5	2674.5	2554.5	2515.5	2419.5	2328.0	2254.5	2163.0	2065.5
50°	3316.5	3348.0	3282.0	3117.0	3030.0	2977.5	2865.0	2751.0	2656.5	2517.0	2385.0
52.5°	3712.5	3772.5	3669.0	3517.5	3529.5	3429.0	3342.0	3226.5	3100.5	2935.5	2796.0
55°	4108.5	4122.0	4036.5	3987.0	3984.0	3919.5	3880.5	3798.0	3628.5	3462.0	3399.0
57.5°	4608.0	4591.5	4531.5	4609.5	4615.5	4636.5	4678.5	4593.0	4542.0	4420.5	4323.0
60°	5329.5	5316.0	5343.0	5572.5	5619.0	5758.5	5788.5	5791.5	5748.0	5787.0	5550.0
62.5°	5967.0	6021.0	6196.5	6303.0	6412.5	6547.5	6577.5	6522.0	6550.5	6553.5	6369.0
63°	6060.0	6102.0	6283.5	6375.0	6480.0	6592.5	6625.5	6583.5	6609.0	6583.5	6444.0
65°	6100.5	6120.0	6333.0	6309.0	6442.5	6492.0	6408.0	6391.5	6486.0	6351.0	6325.5
67.5°	5502.0	5620.5	5763.0	5763.0	5866.5	5856.0	5743.5	5767.5	5769.0	5716.5	5703.0
70°	4600.5	4840.5	4870.5	4978.5	5050.5	4987.5	4963.5	4980.0	4854.0	4882.5	4756.5
72.5°	3660.0	3918.0	3966.0	4167.0	4188.0	4045.5	4080.0	3981.0	3843.0	3757.5	3583.5
75°	2664.0	2827.5	2970.0	3027.0	3028.5	2893.5	2835.0	2607.0	2404.5	2161.5	2097.0
77.5°	1860.0	1842.0	1896.0	1864.5	1653.0	1585.5	1395.0	1284.0	1180.5	1000.5	901.5
80°	1503.0	1486.5	1512.0	1444.5	1353.0	1276.5	1140.0	1038.0	922.5	844.5	724.5
82.5°	1282.5	1350.0	1366.5	1270.5	1224.0	1159.5	1002.0	891.0	778.5	678.0	583.5
85°	489.0	583.5	576.0	600.0	601.5	568.5	501.0	397.5	315.0	255.0	207.0
87.5°	189.0	211.5	198.0	196.5	198.0	181.5	154.5	136.5	115.5	93.0	78.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	61.5	58.5	58.5	55.5	55.5	54.0	54.0	52.5	52.5	51.0	51.0
5°	81.0	81.0	79.5	76.5	69.0	66.0	60.0	55.5	54.0	52.5	51.0
7.5°	84.0	84.0	82.5	82.5	81.0	79.5	78.0	73.5	66.0	60.0	55.5
10°	102.0	99.0	100.5	103.5	102.0	102.0	100.5	99.0	96.0	93.0	75.0
12.5°	118.5	117.0	114.0	108.0	105.0	103.5	103.5	102.0	100.5	99.0	96.0
15°	150.0	145.5	144.0	139.5	136.5	132.0	133.5	132.0	129.0	123.0	109.5
17.5°	166.5	163.5	159.0	160.5	157.5	148.5	133.5	129.0	124.5	120.0	115.5
20°	258.0	253.5	244.5	229.5	211.5	202.5	195.0	187.5	189.0	187.5	175.5
22.5°	301.5	274.5	258.0	246.0	241.5	241.5	235.5	238.5	219.0	213.0	187.5
25°	405.0	385.5	364.5	352.5	346.5	333.0	307.5	289.5	270.0	264.0	244.5
27.5°	484.5	466.5	466.5	447.0	414.0	388.5	363.0	348.0	324.0	307.5	286.5
30°	583.5	561.0	532.5	496.5	465.0	441.0	423.0	387.0	364.5	342.0	300.0
32.5°	729.0	687.0	651.0	618.0	589.5	541.5	513.0	483.0	436.5	388.5	367.5
35°	864.0	811.5	771.0	736.5	678.0	645.0	601.5	534.0	484.5	460.5	412.5
37.5°	996.0	946.5	907.5	840.0	787.5	732.0	660.0	610.5	567.0	507.0	441.0
40°	1168.5	1113.0	1033.5	975.0	906.0	813.0	759.0	699.0	625.5	552.0	496.5
42.5°	1395.0	1306.5	1242.0	1168.5	1042.5	982.5	909.0	802.5	709.5	643.5	552.0
45°	1668.0	1576.5	1507.5	1363.5	1272.0	1180.5	1069.5	945.0	852.0	748.5	670.5
47.5°	1957.5	1894.5	1747.5	1603.5	1513.5	1377.0	1249.5	1120.5	991.5	900.0	759.0
50°	2319.0	2160.0	1998.0	1894.5	1749.0	1596.0	1446.0	1282.5	1170.0	1029.0	892.5
52.5°	2680.5	2461.5	2344.5	2191.5	1993.5	1818.0	1644.0	1485.0	1326.0	1174.5	1012.5
55°	3168.0	2949.0	2773.5	2553.0	2328.0	2127.0	1947.0	1750.5	1576.5	1381.5	1204.5
57.5°	4059.0	3817.5	3565.5	3235.5	2961.0	2718.0	2475.0	2242.5	1983.0	1773.0	1558.5
60°	5391.0	5137.5	4791.0	4405.5	3981.0	3603.0	3256.5	2908.5	2587.5	2329.5	1998.0
62.5°	6267.0	6006.0	5685.0	5227.5	4779.0	4278.0	3846.0	3363.0	3004.5	2634.0	2328.0
63°	6354.0	6076.5	5754.0	5320.5	4846.5	4377.0	3939.0	3412.5	3045.0	2673.0	2356.5
65°	6220.5	6048.0	5748.0	5385.0	5017.5	4560.0	4081.5	3564.0	3148.5	2770.5	2400.0
67.5°	5559.0	5479.5	5284.5	5086.5	4758.0	4440.0	4002.0	3546.0	3105.0	2746.5	2404.5
70°	4708.5	4599.0	4446.0	4366.5	4140.0	3870.0	3568.5	3211.5	2893.5	2541.0	2230.5
72.5°	3519.0	3303.0	3180.0	3046.5	2902.5	2713.5	2538.0	2337.0	2079.0	1891.5	1579.5
75°	1842.0	1602.0	1438.5	1246.5	1092.0	934.5	850.5	793.5	706.5	610.5	540.0
77.5°	747.0	624.0	504.0	429.0	322.5	258.0	220.5	195.0	180.0	160.5	148.5
80°	627.0	501.0	403.5	306.0	225.0	163.5	121.5	94.5	81.0	70.5	64.5
82.5°	507.0	435.0	361.5	285.0	219.0	177.0	130.5	93.0	67.5	54.0	46.5
85°	162.0	142.5	111.0	93.0	76.5	64.5	54.0	43.5	39.0	36.0	33.0
87.5°	67.5	52.5	48.0	43.5	42.0	40.5	40.5	37.5	34.5	30.0	27.0
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: P179250

CATALOG NUMBER: UTLD-E03-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	49.5	49.5	48.0	49.5	46.5	43.5	42.0	40.5	39.0	39.0	39.0
5°	51.0	49.5	48.0	46.5	42.0	39.0	36.0	33.0	37.5	33.0	22.5
7.5°	52.5	51.0	48.0	46.5	42.0	37.5	34.5	21.0	13.5	13.5	15.0
10°	70.5	66.0	64.5	60.0	55.5	40.5	25.5	13.5	12.0	18.0	21.0
12.5°	76.5	72.0	67.5	63.0	52.5	43.5	21.0	18.0	22.5	18.0	19.5
15°	103.5	88.5	84.0	79.5	70.5	51.0	24.0	24.0	22.5	19.5	22.5
17.5°	114.0	97.5	93.0	90.0	69.0	33.0	27.0	28.5	22.5	25.5	21.0
20°	165.0	147.0	133.5	127.5	93.0	48.0	37.5	27.0	28.5	22.5	25.5
22.5°	189.0	175.5	162.0	159.0	105.0	52.5	43.5	37.5	27.0	27.0	24.0
25°	234.0	216.0	193.5	174.0	111.0	66.0	52.5	37.5	31.5	25.5	24.0
27.5°	265.5	235.5	216.0	204.0	120.0	69.0	51.0	42.0	31.5	24.0	21.0
30°	277.5	261.0	234.0	204.0	121.5	72.0	54.0	40.5	31.5	24.0	22.5
32.5°	339.0	301.5	262.5	240.0	130.5	76.5	52.5	40.5	30.0	22.5	21.0
35°	363.0	327.0	285.0	253.5	136.5	73.5	51.0	36.0	27.0	21.0	16.5
37.5°	402.0	349.5	309.0	270.0	138.0	69.0	46.5	34.5	24.0	18.0	15.0
40°	430.5	387.0	327.0	283.5	138.0	64.5	43.5	30.0	21.0	15.0	12.0
42.5°	498.0	421.5	361.5	310.5	141.0	58.5	39.0	25.5	18.0	10.5	9.0
45°	570.0	496.5	417.0	355.5	144.0	54.0	34.5	22.5	13.5	7.5	4.5
47.5°	672.0	576.0	486.0	408.0	145.5	49.5	31.5	19.5	10.5	4.5	3.0
50°	769.5	666.0	556.5	477.0	148.5	45.0	27.0	16.5	7.5	3.0	1.5
52.5°	883.5	756.0	645.0	532.5	150.0	42.0	24.0	13.5	4.5	1.5	0.0
55°	1045.5	910.5	754.5	636.0	153.0	37.5	19.5	10.5	3.0	1.5	0.0
57.5°	1368.0	1185.0	993.0	822.0	168.0	33.0	16.5	7.5	1.5	1.5	0.0
60°	1761.0	1557.0	1303.5	1056.0	198.0	28.5	13.5	4.5	1.5	0.0	0.0
62.5°	2046.0	1783.5	1482.0	1215.0	219.0	24.0	12.0	3.0	1.5	1.5	0.0
63°	2092.5	1809.0	1495.5	1225.5	220.5	24.0	10.5	3.0	1.5	0.0	0.0
65°	2127.0	1833.0	1513.5	1242.0	225.0	21.0	9.0	3.0	1.5	1.5	0.0
67.5°	2098.5	1780.5	1470.0	1210.5	228.0	18.0	7.5	3.0	1.5	1.5	1.5
70°	1903.5	1620.0	1348.5	1105.5	211.5	15.0	6.0	3.0	1.5	1.5	1.5
72.5°	1368.0	1219.5	970.5	798.0	162.0	13.5	6.0	4.5	1.5	3.0	3.0
75°	460.5	412.5	343.5	304.5	94.5	9.0	4.5	4.5	1.5	3.0	3.0
77.5°	132.0	123.0	106.5	97.5	48.0	7.5	4.5	4.5	1.5	4.5	4.5
80°	57.0	52.5	46.5	40.5	21.0	6.0	4.5	6.0	1.5	6.0	4.5
82.5°	42.0	37.5	33.0	27.0	12.0	6.0	6.0	7.5	1.5	6.0	6.0
85°	30.0	27.0	22.5	19.5	9.0	6.0	6.0	7.5	3.0	7.5	7.5
87.5°	24.0	21.0	18.0	13.5	9.0	6.0	6.0	9.0	3.0	9.0	7.5
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: P179250

CATALOG NUMBER: UTLD-E03-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	49.5	49.5	49.5
2.5°	39.0	40.5	40.5
5°	19.5	21.0	21.0
7.5°	16.5	18.0	18.0
10°	22.5	22.5	22.5
12.5°	21.0	22.5	22.5
15°	24.0	25.5	25.5
17.5°	21.0	27.0	28.5
20°	24.0	24.0	24.0
22.5°	24.0	25.5	25.5
25°	22.5	22.5	22.5
27.5°	22.5	22.5	22.5
30°	19.5	22.5	22.5
32.5°	19.5	19.5	19.5
35°	18.0	18.0	18.0
37.5°	15.0	16.5	16.5
40°	12.0	12.0	12.0
42.5°	7.5	7.5	7.5
45°	4.5	4.5	4.5
47.5°	3.0	3.0	3.0
50°	1.5	1.5	1.5
52.5°	1.5	1.5	1.5
55°	0.0	1.5	1.5
57.5°	0.0	0.0	1.5
60°	0.0	0.0	1.5
62.5°	0.0	0.0	1.5
63°	0.0	0.0	1.5
65°	1.5	0.0	1.5
67.5°	1.5	1.5	1.5
70°	1.5	1.5	1.5
72.5°	3.0	1.5	3.0
75°	3.0	3.0	3.0
77.5°	4.5	3.0	3.0
80°	4.5	4.5	3.0
82.5°	6.0	4.5	1.5
85°	6.0	6.0	3.0
87.5°	7.5	7.5	3.0
90°	0.0	0.0	0.0

(END OF REPORT)