

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: P179245

Luminaire Tested: **UTLD-F02-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179245
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-F02-LED-E-U-SL2-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2681.4 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 55
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

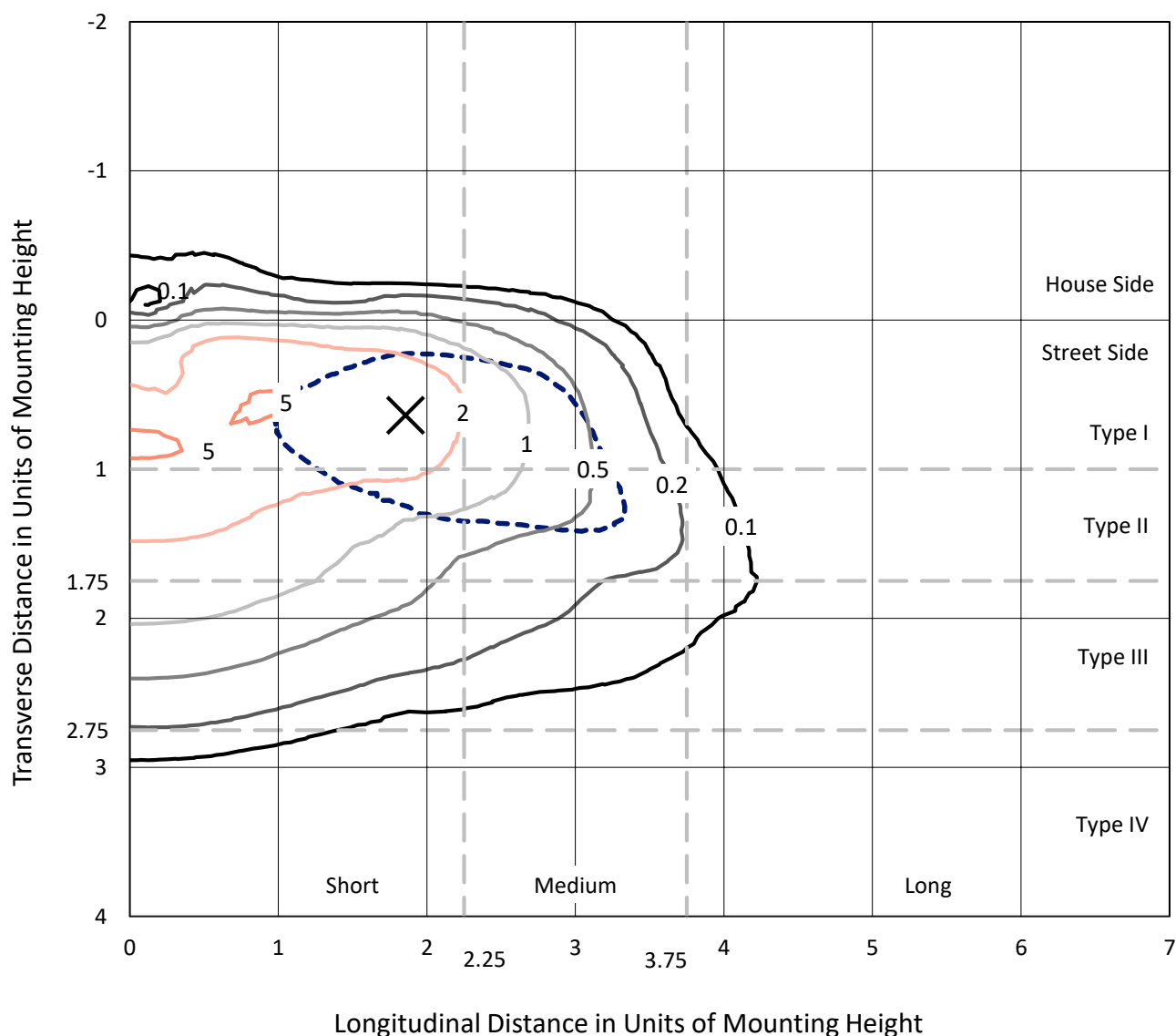


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

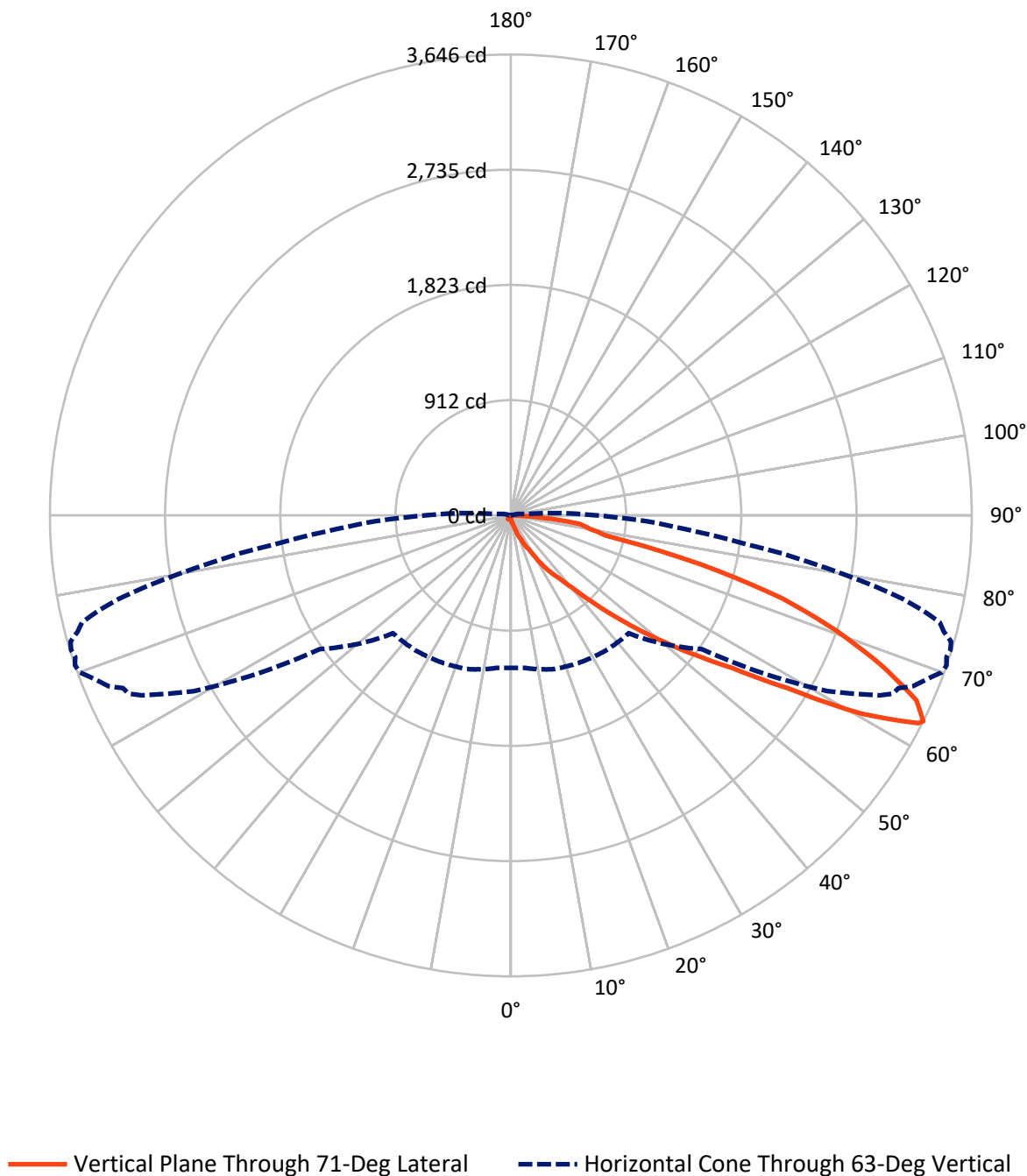


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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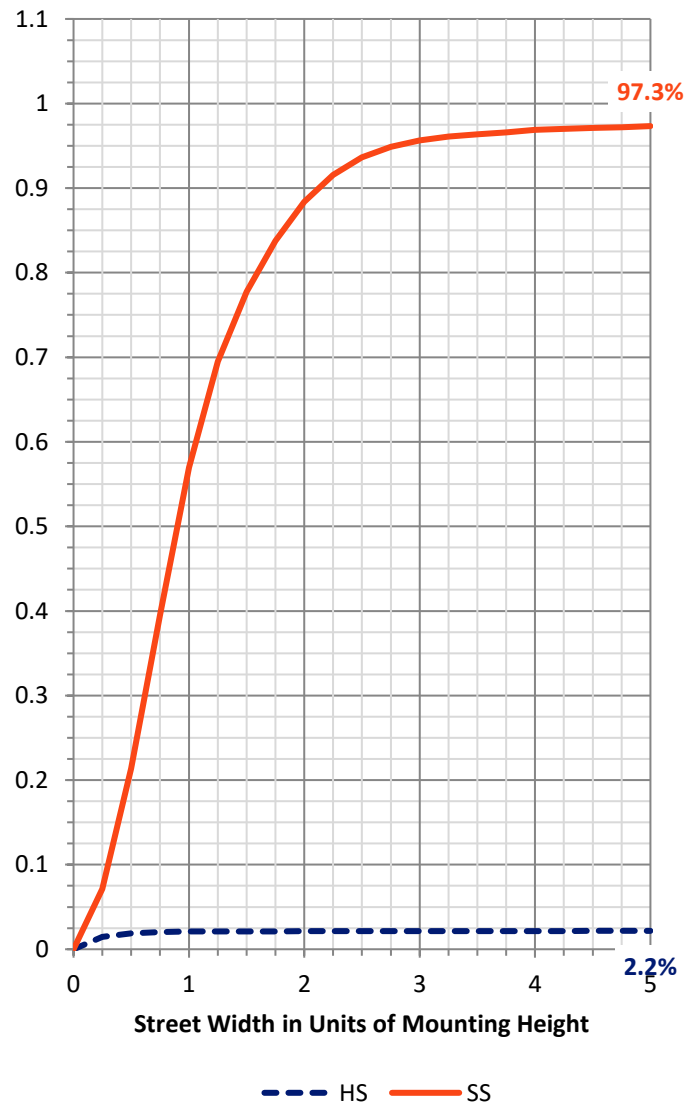
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	59.5	0.0	59.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2622.0	0.0	2622.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	2681.4	0.0	2681.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	21.3	0.8
20°-30°	65.1	2.4
30°-40°	200.5	7.5
40°-50°	476.5	17.8
50°-60°	688.4	25.7
60°-70°	851.9	31.8
70°-80°	323.5	12.1
80°-90°	50.5	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°	2681.4	100.0
0°-180°	2681.4	100.0

Coefficient of Utilization



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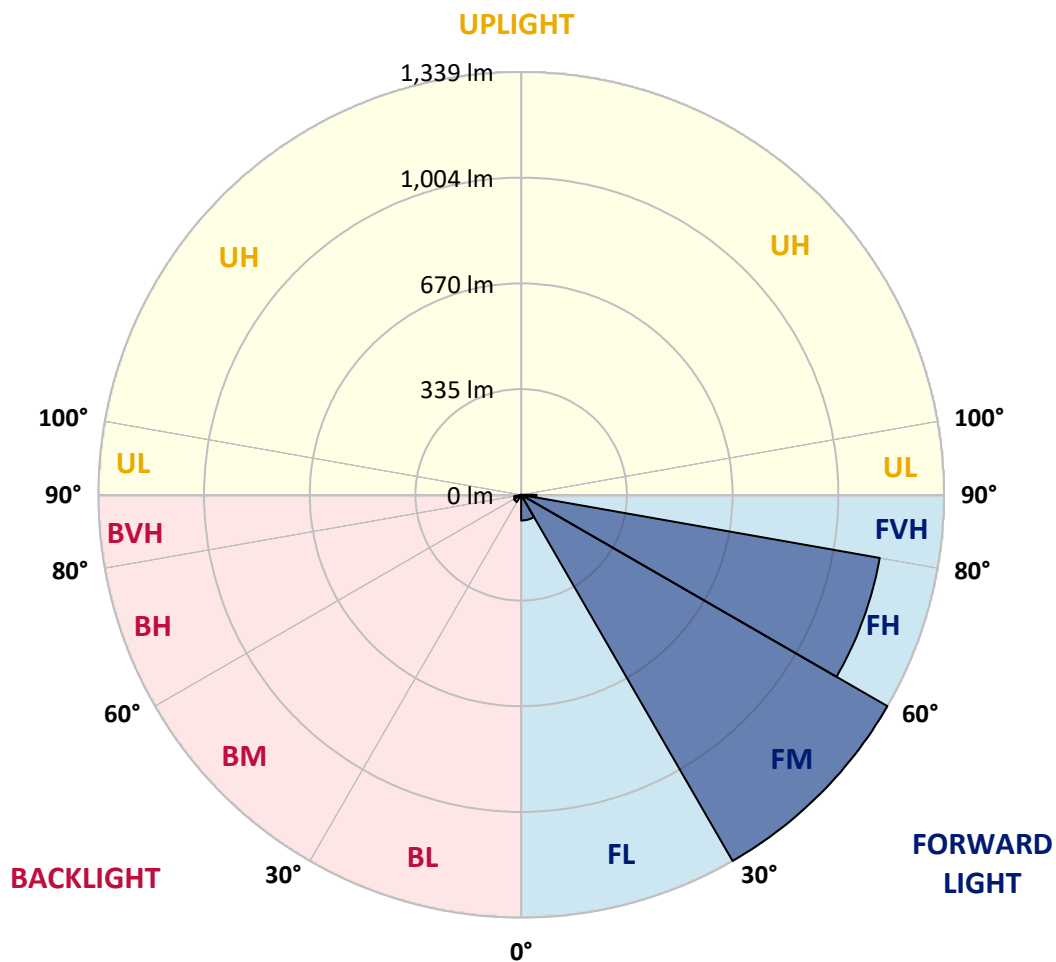
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.3	3.0			
FM	(30°-60°)	1339.1	49.9			
FH	(60°-80°)	1153.0	43.0			G1/1800
FVH	(80°-90°)	48.7	1.8			G1/100
BL	(0°-30°)	8.9	0.3	B0/110		
BM	(30°-60°)	26.4	1.0	B0/220		
BH	(60°-80°)	22.4	0.8	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	51.2	50.4	48.7	48.7	47.9	47.9	47.1	46.2	46.2	46.2	45.4
5°	60.3	59.4	57.0	54.5	54.5	52.8	49.5	48.7	47.9	47.1	47.1
7.5°	98.2	97.4	95.8	93.3	89.2	61.1	54.5	53.7	52.8	52.0	51.2
10°	109.8	109.8	109.0	105.7	101.5	94.9	86.7	62.7	61.1	61.9	64.4
12.5°	147.8	143.6	146.1	142.0	119.7	112.3	114.7	106.5	104.8	104.0	80.9
15°	157.7	153.5	146.1	146.9	150.2	159.3	129.6	122.2	118.1	115.6	115.6
17.5°	173.4	173.4	174.2	174.2	167.6	170.9	168.4	149.4	148.6	145.3	144.5
20°	213.0	211.3	188.2	177.5	195.6	199.8	200.6	172.5	166.8	165.9	170.9
22.5°	225.4	223.7	219.6	223.7	200.6	225.4	259.2	258.4	251.8	248.5	227.8
25°	287.3	284.8	269.9	231.1	246.8	247.7	280.7	283.2	281.5	287.3	304.6
27.5°	331.9	335.2	301.3	276.6	260.0	295.5	357.5	364.9	364.9	356.6	357.5
30°	422.7	421.0	383.9	321.1	313.7	317.8	393.8	419.4	440.8	427.6	442.5
32.5°	607.6	599.3	542.4	427.6	375.6	392.9	472.2	502.7	497.8	490.4	503.6
35°	875.1	869.3	752.1	642.3	539.9	499.4	558.1	609.2	598.5	622.4	631.5
37.5°	1063.3	1048.4	998.1	887.4	787.6	720.7	745.4	725.6	723.2	739.7	738.0
40°	1202.0	1202.8	1185.5	1095.5	1022.8	985.7	989.0	915.5	910.6	916.3	904.8
42.5°	1269.7	1275.4	1289.5	1244.9	1215.2	1219.3	1252.3	1190.4	1187.9	1173.1	1128.5
45°	1310.9	1318.4	1361.3	1376.2	1367.1	1408.3	1498.3	1448.0	1452.1	1465.3	1401.7
47.5°	1315.9	1326.6	1382.8	1427.3	1463.7	1547.0	1684.9	1696.5	1708.8	1719.6	1672.5
50°	1267.2	1271.3	1342.3	1406.7	1460.4	1617.2	1826.9	1898.7	1921.0	1921.0	1881.4
52.5°	1178.8	1184.6	1252.3	1322.5	1373.7	1613.9	1918.5	2049.0	2098.5	2100.1	2043.2
55°	1140.9	1147.5	1198.7	1260.6	1286.2	1533.8	1974.7	2185.2	2237.2	2246.3	2212.4
57.5°	1140.9	1148.3	1189.6	1225.9	1239.1	1440.5	2008.5	2344.5	2403.1	2459.2	2457.6
60°	1192.1	1200.3	1233.3	1230.9	1218.5	1374.5	1993.6	2539.3	2634.3	2728.4	2836.5
62.5°	1221.8	1225.9	1271.3	1284.5	1282.0	1325.8	1877.2	2684.6	2831.6	2968.6	3203.0
63°	1205.3	1210.2	1260.6	1284.5	1306.0	1318.4	1845.0	2700.3	2866.2	2987.6	3247.6
65°	1116.1	1116.9	1170.6	1200.3	1345.6	1317.5	1672.5	2669.7	2872.8	2993.4	3283.1
67.5°	884.1	889.1	926.2	976.6	1111.2	1337.4	1437.2	2319.7	2525.3	2621.9	2944.6
70°	465.6	486.2	516.8	583.6	767.7	1135.9	1202.8	1708.8	1907.8	2051.4	2422.1
72.5°	141.2	131.3	170.9	250.1	390.5	785.9	1055.0	1206.9	1321.7	1464.5	1859.1
75°	63.6	65.2	74.3	106.5	170.9	421.8	922.1	991.5	1007.1	1055.8	1295.2
77.5°	36.3	37.1	43.8	60.3	89.2	210.5	698.4	889.1	876.7	894.0	937.8
80°	23.9	24.8	31.4	42.9	49.5	103.2	396.3	693.4	733.9	778.5	810.7
82.5°	13.2	13.2	19.8	34.7	32.2	49.5	156.0	454.0	526.7	572.9	669.5
85°	5.8	6.6	11.6	23.1	19.8	23.1	75.1	154.4	176.7	185.7	231.1
87.5°	1.7	1.7	3.3	8.3	8.3	10.7	22.3	69.3	73.5	79.3	96.6
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	45.4	45.4	43.8	42.9	40.5	40.5	38.8	39.6	37.1	36.3	34.7
5°	46.2	46.2	46.2	46.2	45.4	45.4	45.4	45.4	45.4	45.4	44.6
7.5°	50.4	50.4	50.4	50.4	49.5	48.7	47.1	47.1	46.2	46.2	46.2
10°	64.4	63.6	61.9	61.1	60.3	59.4	57.8	58.6	57.0	57.8	56.1
12.5°	76.8	75.1	72.6	70.2	69.3	68.5	66.9	66.0	65.2	66.9	66.0
15°	119.7	118.9	119.7	115.6	94.1	93.3	94.1	92.5	90.8	88.3	85.0
17.5°	142.8	140.3	132.1	128.8	129.6	127.1	120.5	107.3	99.9	96.6	94.9
20°	183.3	184.1	185.7	185.7	182.4	178.3	174.2	173.4	168.4	151.1	144.5
22.5°	219.6	219.6	215.5	211.3	206.4	207.2	201.4	188.2	184.1	179.1	176.7
25°	315.4	310.4	298.8	294.7	290.6	279.9	265.8	258.4	255.9	252.6	241.9
27.5°	356.6	350.0	347.5	342.6	327.7	310.4	304.6	300.5	304.6	284.8	270.8
30°	431.7	430.9	428.4	417.7	399.6	385.5	386.3	382.2	355.0	334.3	321.1
32.5°	508.5	502.7	522.6	502.7	486.2	492.0	484.6	459.0	440.0	418.5	416.1
35°	629.0	629.0	612.5	591.1	593.6	597.7	562.2	535.8	523.4	514.3	496.1
37.5°	739.7	734.7	704.2	692.6	705.8	682.7	643.1	625.7	621.6	605.9	577.0
40°	889.9	860.2	837.1	834.6	833.0	779.3	757.0	758.7	737.2	705.8	672.8
42.5°	1096.3	1048.4	1031.1	1032.7	973.3	930.4	922.1	901.5	873.4	837.9	808.2
45°	1334.0	1287.8	1288.6	1236.6	1161.5	1124.4	1116.1	1083.9	1049.2	1008.0	965.0
47.5°	1592.4	1559.4	1575.9	1471.9	1405.9	1384.4	1331.6	1281.2	1240.8	1190.4	1136.7
50°	1825.2	1842.6	1806.2	1715.4	1667.6	1638.7	1576.8	1514.0	1462.0	1385.2	1312.6
52.5°	2043.2	2076.2	2019.2	1935.9	1942.5	1887.1	1839.3	1775.7	1706.4	1615.6	1538.8
55°	2261.1	2268.5	2221.5	2194.2	2192.6	2157.1	2135.6	2090.2	1996.9	1905.3	1870.6
57.5°	2536.0	2526.9	2493.9	2536.8	2540.1	2551.7	2574.8	2527.8	2499.7	2432.8	2379.2
60°	2933.1	2925.7	2940.5	3066.8	3092.4	3169.2	3185.7	3187.4	3163.4	3184.9	3054.4
62.5°	3283.9	3313.7	3410.2	3468.9	3529.1	3603.4	3619.9	3589.4	3605.1	3606.7	3505.2
63°	3335.1	3358.2	3458.1	3508.5	3566.3	3628.2	3646.3	3623.2	3637.3	3623.2	3546.5
65°	3357.4	3368.1	3485.4	3472.2	3545.6	3572.9	3526.6	3517.6	3569.6	3495.3	3481.2
67.5°	3028.0	3093.2	3171.7	3171.7	3228.6	3222.8	3160.9	3174.1	3175.0	3146.1	3138.6
70°	2531.9	2664.0	2680.5	2739.9	2779.5	2744.9	2731.7	2740.7	2671.4	2687.1	2617.7
72.5°	2014.3	2156.3	2182.7	2293.3	2304.9	2226.4	2245.4	2190.9	2115.0	2067.9	1972.2
75°	1466.1	1556.1	1634.5	1665.9	1666.7	1592.4	1560.2	1434.8	1323.3	1189.6	1154.1
77.5°	1023.7	1013.7	1043.5	1026.1	909.7	872.6	767.7	706.6	649.7	550.6	496.1
80°	827.2	818.1	832.1	795.0	744.6	702.5	627.4	571.3	507.7	464.8	398.7
82.5°	705.8	743.0	752.1	699.2	673.6	638.1	551.5	490.4	428.4	373.1	321.1
85°	269.1	321.1	317.0	330.2	331.0	312.9	275.7	218.8	173.4	140.3	113.9
87.5°	104.0	116.4	109.0	108.1	109.0	99.9	85.0	75.1	63.6	51.2	42.9
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	33.8	32.2	32.2	30.5	30.5	29.7	29.7	28.9	28.9	28.1	28.1
5°	44.6	44.6	43.8	42.1	38.0	36.3	33.0	30.5	29.7	28.9	28.1
7.5°	46.2	46.2	45.4	45.4	44.6	43.8	42.9	40.5	36.3	33.0	30.5
10°	56.1	54.5	55.3	57.0	56.1	56.1	55.3	54.5	52.8	51.2	41.3
12.5°	65.2	64.4	62.7	59.4	57.8	57.0	57.0	56.1	55.3	54.5	52.8
15°	82.6	80.1	79.3	76.8	75.1	72.6	73.5	72.6	71.0	67.7	60.3
17.5°	91.6	90.0	87.5	88.3	86.7	81.7	73.5	71.0	68.5	66.0	63.6
20°	142.0	139.5	134.6	126.3	116.4	111.4	107.3	103.2	104.0	103.2	96.6
22.5°	165.9	151.1	142.0	135.4	132.9	132.9	129.6	131.3	120.5	117.2	103.2
25°	222.9	212.2	200.6	194.0	190.7	183.3	169.2	159.3	148.6	145.3	134.6
27.5°	266.6	256.7	256.7	246.0	227.8	213.8	199.8	191.5	178.3	169.2	157.7
30°	321.1	308.7	293.1	273.2	255.9	242.7	232.8	213.0	200.6	188.2	165.1
32.5°	401.2	378.1	358.3	340.1	324.4	298.0	282.3	265.8	240.2	213.8	202.3
35°	475.5	446.6	424.3	405.3	373.1	355.0	331.0	293.9	266.6	253.4	227.0
37.5°	548.1	520.9	499.4	462.3	433.4	402.9	363.2	336.0	312.0	279.0	242.7
40°	643.1	612.5	568.8	536.6	498.6	447.4	417.7	384.7	344.2	303.8	273.2
42.5°	767.7	719.0	683.5	643.1	573.7	540.7	500.3	441.7	390.5	354.2	303.8
45°	918.0	867.6	829.7	750.4	700.0	649.7	588.6	520.1	468.9	411.9	369.0
47.5°	1077.3	1042.6	961.7	882.5	833.0	757.8	687.7	616.7	545.7	495.3	417.7
50°	1276.3	1188.8	1099.6	1042.6	962.6	878.4	795.8	705.8	643.9	566.3	491.2
52.5°	1475.2	1354.7	1290.3	1206.1	1097.1	1000.5	904.8	817.3	729.8	646.4	557.2
55°	1743.5	1623.0	1526.4	1405.0	1281.2	1170.6	1071.5	963.4	867.6	760.3	662.9
57.5°	2233.9	2101.0	1962.3	1780.7	1629.6	1495.9	1362.1	1234.2	1091.3	975.8	857.7
60°	2966.9	2827.4	2636.7	2424.6	2190.9	1982.9	1792.2	1600.7	1424.0	1282.0	1099.6
62.5°	3449.0	3305.4	3128.7	2877.0	2630.1	2354.4	2116.6	1850.8	1653.5	1449.6	1281.2
63°	3496.9	3344.2	3166.7	2928.1	2667.3	2408.9	2167.8	1878.1	1675.8	1471.1	1296.9
65°	3423.5	3328.5	3163.4	2963.6	2761.4	2509.6	2246.3	1961.4	1732.8	1524.7	1320.8
67.5°	3059.4	3015.6	2908.3	2799.4	2618.6	2443.6	2202.5	1951.5	1708.8	1511.5	1323.3
70°	2591.3	2531.1	2446.9	2403.1	2278.4	2129.9	1963.9	1767.4	1592.4	1398.4	1227.6
72.5°	1936.7	1817.8	1750.1	1676.6	1597.4	1493.4	1396.8	1286.2	1144.2	1041.0	869.3
75°	1013.7	881.7	791.7	686.0	601.0	514.3	468.1	436.7	388.8	336.0	297.2
77.5°	411.1	343.4	277.4	236.1	177.5	142.0	121.4	107.3	99.1	88.3	81.7
80°	345.1	275.7	222.1	168.4	123.8	90.0	66.9	52.0	44.6	38.8	35.5
82.5°	279.0	239.4	199.0	156.8	120.5	97.4	71.8	51.2	37.1	29.7	25.6
85°	89.2	78.4	61.1	51.2	42.1	35.5	29.7	23.9	21.5	19.8	18.2
87.5°	37.1	28.9	26.4	23.9	23.1	22.3	22.3	20.6	19.0	16.5	14.9
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	27.2	27.2	26.4	27.2	25.6	23.9	23.1	22.3	21.5	21.5	21.5
5°	28.1	27.2	26.4	25.6	23.1	21.5	19.8	18.2	20.6	18.2	12.4
7.5°	28.9	28.1	26.4	25.6	23.1	20.6	19.0	11.6	7.4	7.4	8.3
10°	38.8	36.3	35.5	33.0	30.5	22.3	14.0	7.4	6.6	9.9	11.6
12.5°	42.1	39.6	37.1	34.7	28.9	23.9	11.6	9.9	12.4	9.9	10.7
15°	57.0	48.7	46.2	43.8	38.8	28.1	13.2	13.2	12.4	10.7	12.4
17.5°	62.7	53.7	51.2	49.5	38.0	18.2	14.9	15.7	12.4	14.0	11.6
20°	90.8	80.9	73.5	70.2	51.2	26.4	20.6	14.9	15.7	12.4	14.0
22.5°	104.0	96.6	89.2	87.5	57.8	28.9	23.9	20.6	14.9	14.9	13.2
25°	128.8	118.9	106.5	95.8	61.1	36.3	28.9	20.6	17.3	14.0	13.2
27.5°	146.1	129.6	118.9	112.3	66.0	38.0	28.1	23.1	17.3	13.2	11.6
30°	152.7	143.6	128.8	112.3	66.9	39.6	29.7	22.3	17.3	13.2	12.4
32.5°	186.6	165.9	144.5	132.1	71.8	42.1	28.9	22.3	16.5	12.4	11.6
35°	199.8	180.0	156.8	139.5	75.1	40.5	28.1	19.8	14.9	11.6	9.1
37.5°	221.2	192.3	170.1	148.6	75.9	38.0	25.6	19.0	13.2	9.9	8.3
40°	236.9	213.0	180.0	156.0	75.9	35.5	23.9	16.5	11.6	8.3	6.6
42.5°	274.1	232.0	199.0	170.9	77.6	32.2	21.5	14.0	9.9	5.8	5.0
45°	313.7	273.2	229.5	195.6	79.3	29.7	19.0	12.4	7.4	4.1	2.5
47.5°	369.8	317.0	267.5	224.5	80.1	27.2	17.3	10.7	5.8	2.5	1.7
50°	423.5	366.5	306.3	262.5	81.7	24.8	14.9	9.1	4.1	1.7	0.8
52.5°	486.2	416.1	355.0	293.1	82.6	23.1	13.2	7.4	2.5	0.8	0.0
55°	575.4	501.1	415.2	350.0	84.2	20.6	10.7	5.8	1.7	0.8	0.0
57.5°	752.9	652.2	546.5	452.4	92.5	18.2	9.1	4.1	0.8	0.8	0.0
60°	969.2	856.9	717.4	581.2	109.0	15.7	7.4	2.5	0.8	0.0	0.0
62.5°	1126.0	981.5	815.6	668.7	120.5	13.2	6.6	1.7	0.8	0.8	0.0
63°	1151.6	995.6	823.0	674.5	121.4	13.2	5.8	1.7	0.8	0.0	0.0
65°	1170.6	1008.8	833.0	683.5	123.8	11.6	5.0	1.7	0.8	0.8	0.0
67.5°	1154.9	979.9	809.0	666.2	125.5	9.9	4.1	1.7	0.8	0.8	0.8
70°	1047.6	891.6	742.1	608.4	116.4	8.3	3.3	1.7	0.8	0.8	0.8
72.5°	752.9	671.2	534.1	439.2	89.2	7.4	3.3	2.5	0.8	1.7	1.7
75°	253.4	227.0	189.0	167.6	52.0	5.0	2.5	2.5	0.8	1.7	1.7
77.5°	72.6	67.7	58.6	53.7	26.4	4.1	2.5	2.5	0.8	2.5	2.5
80°	31.4	28.9	25.6	22.3	11.6	3.3	2.5	3.3	0.8	3.3	2.5
82.5°	23.1	20.6	18.2	14.9	6.6	3.3	3.3	4.1	0.8	3.3	3.3
85°	16.5	14.9	12.4	10.7	5.0	3.3	3.3	4.1	1.7	4.1	4.1
87.5°	13.2	11.6	9.9	7.4	5.0	3.3	3.3	5.0	1.7	5.0	4.1
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: P179245

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	27.2	27.2	27.2
2.5°	21.5	22.3	22.3
5°	10.7	11.6	11.6
7.5°	9.1	9.9	9.9
10°	12.4	12.4	12.4
12.5°	11.6	12.4	12.4
15°	13.2	14.0	14.0
17.5°	11.6	14.9	15.7
20°	13.2	13.2	13.2
22.5°	13.2	14.0	14.0
25°	12.4	12.4	12.4
27.5°	12.4	12.4	12.4
30°	10.7	12.4	12.4
32.5°	10.7	10.7	10.7
35°	9.9	9.9	9.9
37.5°	8.3	9.1	9.1
40°	6.6	6.6	6.6
42.5°	4.1	4.1	4.1
45°	2.5	2.5	2.5
47.5°	1.7	1.7	1.7
50°	0.8	0.8	0.8
52.5°	0.8	0.8	0.8
55°	0.0	0.8	0.8
57.5°	0.0	0.0	0.8
60°	0.0	0.0	0.8
62.5°	0.0	0.0	0.8
63°	0.0	0.0	0.8
65°	0.8	0.0	0.8
67.5°	0.8	0.8	0.8
70°	0.8	0.8	0.8
72.5°	1.7	0.8	1.7
75°	1.7	1.7	1.7
77.5°	2.5	1.7	1.7
80°	2.5	2.5	1.7
82.5°	3.3	2.5	0.8
85°	3.3	3.3	1.7
87.5°	4.1	4.1	1.7
90°	0.0	0.0	0.0

(END OF REPORT)