

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: P179305

Luminaire Tested: **UTLD-F02-LED-E-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179305
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34323)
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-SL4-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 2951.3 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-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



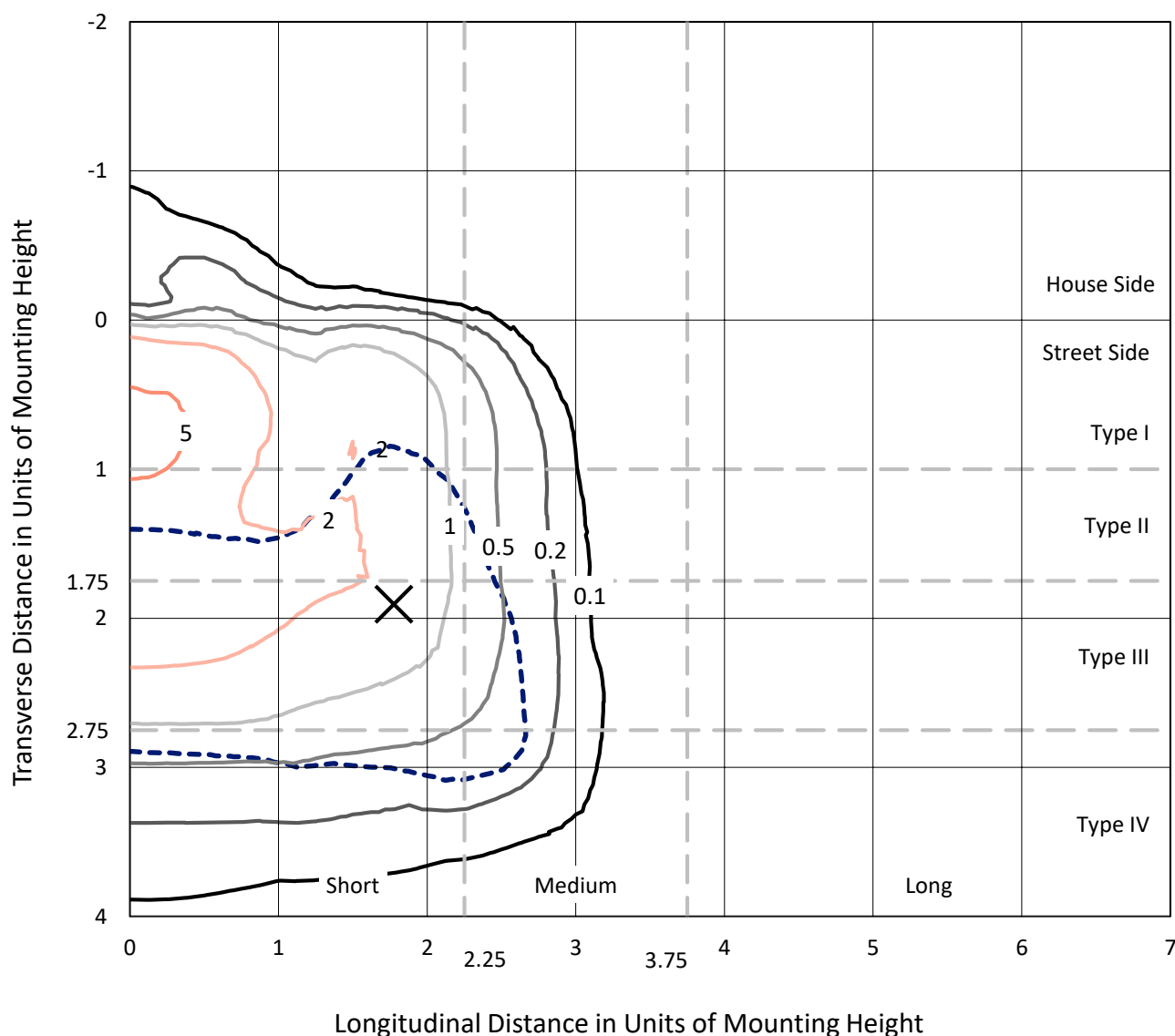
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

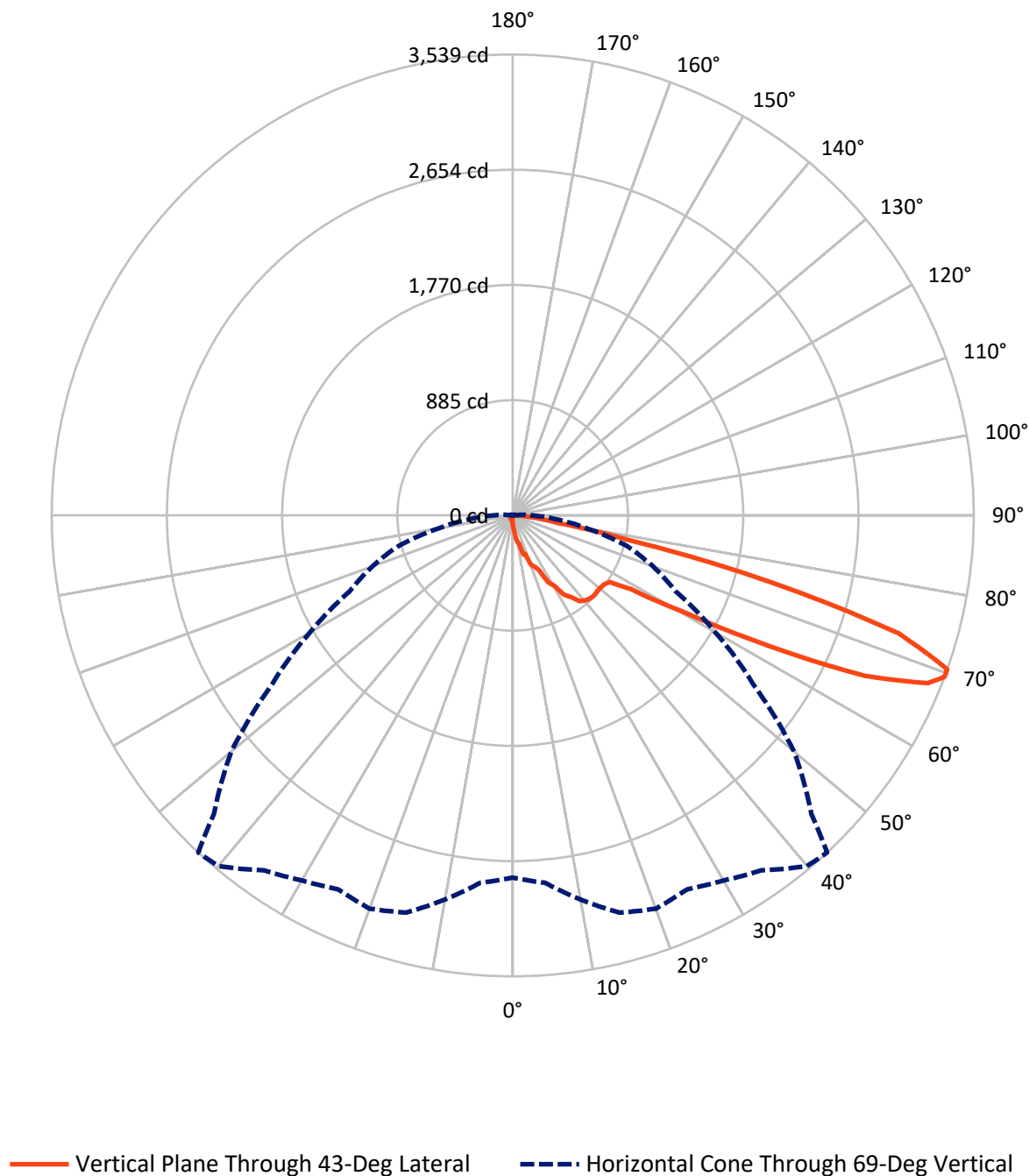


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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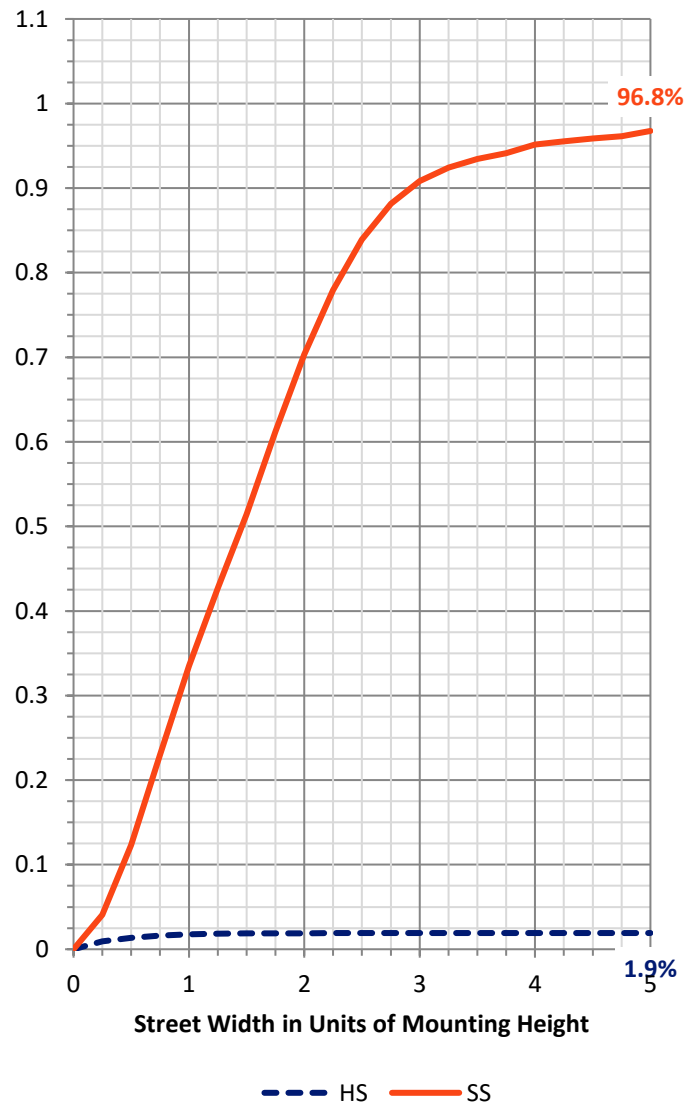
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	57.2	0.0	57.2
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2894.0	0.0	2894.0
	% Fixture	98.1	0.0	98.1
Total	Lumens	2951.3	0.0	2951.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.3
10°-20°	40.9	1.4
20°-30°	113.1	3.8
30°-40°	237.0	8.0
40°-50°	342.2	11.6
50°-60°	531.0	18.0
60°-70°	1121.0	38.0
70°-80°	498.6	16.9
80°-90°	59.2	2.0
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°	2951.3	100.0
0°-180°	2951.3	100.0

Coefficient of Utilization



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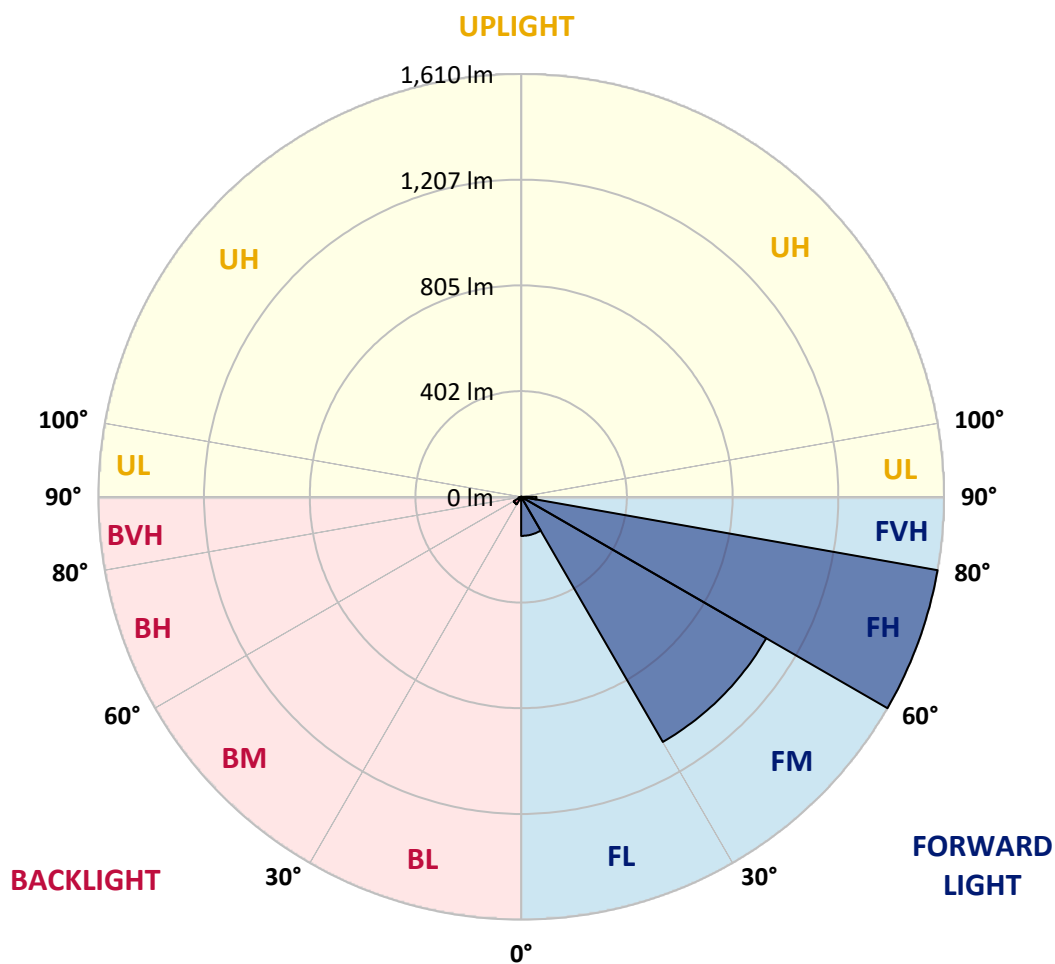
CATALOG NUMBER: UTLD-F02-LED-E-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.7	5.0			
FM	(30°-60°)	1077.5	36.5			
FH	(60°-80°)	1609.6	54.5			G1/1800
FVH	(80°-90°)	58.2	2.0			G1/100
BL	(0°-30°)	13.6	0.5	B0/110		
BM	(30°-60°)	32.7	1.1	B0/220		
BH	(60°-80°)	10.1	0.3	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	43°	45°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	109.0	109.0	108.1	107.3	104.8	104.0	101.5	99.9	100.7	99.9	99.1
5°	139.5	137.0	133.7	128.8	127.1	124.7	123.0	118.9	117.2	116.4	114.7
7.5°	231.1	225.4	222.1	221.2	218.8	216.3	209.7	203.9	198.1	176.7	146.1
10°	248.5	249.3	250.1	245.2	246.8	238.6	230.3	225.4	222.1	209.7	202.3
12.5°	326.9	322.0	321.1	324.4	317.0	312.9	303.8	288.9	239.4	222.9	228.7
15°	378.9	385.5	361.6	332.7	326.1	319.5	300.5	303.8	326.1	311.2	294.7
17.5°	407.8	409.5	405.3	402.0	390.5	383.0	396.3	336.0	329.4	312.0	300.5
20°	511.0	512.7	505.2	470.5	427.6	406.2	418.5	395.4	387.2	404.5	344.2
22.5°	558.9	560.5	553.9	544.0	525.0	529.2	500.3	425.1	430.9	427.6	386.3
25°	686.0	690.1	682.7	666.2	650.5	576.2	544.8	544.8	497.0	459.0	436.7
27.5°	819.7	804.1	754.5	733.1	721.5	683.5	681.1	596.0	569.6	582.0	506.9
30°	910.6	913.0	904.8	869.3	847.0	837.1	744.6	698.4	636.5	625.7	552.3
32.5°	1088.9	1089.7	1072.4	1055.8	952.7	908.9	845.3	785.9	694.3	725.6	631.5
35°	1259.8	1263.9	1217.6	1125.2	1094.6	1012.1	932.8	832.1	771.0	769.4	671.2
37.5°	1360.5	1360.5	1325.8	1258.9	1226.7	1112.8	985.7	910.6	800.8	835.4	724.8
40°	1488.4	1485.1	1455.4	1377.0	1283.7	1150.8	1049.2	946.1	852.8	857.7	760.3
42.5°	1539.6	1535.5	1514.8	1435.6	1310.9	1197.8	1064.9	956.0	865.2	871.8	776.8
45°	1565.2	1561.1	1538.8	1452.1	1321.7	1203.6	1060.0	950.2	867.6	875.9	785.9
47.5°	1559.4	1553.6	1535.5	1462.8	1353.9	1199.5	1027.8	937.8	863.5	871.8	789.2
50°	1528.0	1526.4	1509.9	1444.7	1350.6	1183.0	1009.6	925.4	862.7	872.6	795.8
52.5°	1509.9	1511.5	1495.9	1450.4	1332.4	1177.2	1019.5	929.5	867.6	879.2	805.7
55°	1747.6	1717.1	1656.8	1561.9	1393.5	1226.7	1066.6	959.3	892.4	903.9	828.8
57.5°	2536.0	2507.9	2383.3	2153.0	1826.9	1497.5	1248.2	1097.1	1033.6	1064.9	1002.2
60°	2999.1	2966.9	2935.6	2831.6	2559.1	2265.2	1817.8	1571.8	1453.7	1503.3	1441.4
62.5°	3191.5	3189.0	3174.1	3155.2	2966.1	2831.6	2498.0	2260.3	2171.1	2207.5	2076.2
65°	3312.0	3327.7	3331.0	3340.9	3217.9	3115.5	2920.7	2859.6	2977.7	2969.4	2724.2
67.5°	3227.0	3236.1	3290.5	3375.6	3314.5	3219.5	3192.3	3242.7	3394.6	3437.5	3133.7
69°	2781.2	2830.7	2994.2	3156.8	3212.9	3167.5	3236.1	3326.9	3514.3	3539.0	3243.5
70°	2217.4	2306.5	2489.8	2829.9	2964.5	2970.2	3170.0	3312.8	3524.2	3538.2	3250.1
72.5°	996.4	1012.9	1113.6	1294.4	1807.9	1982.9	2472.4	2917.4	3133.7	3100.7	2823.3
75°	672.8	680.2	674.5	682.7	780.9	939.4	1198.7	1856.6	2116.6	2049.0	1790.6
77.5°	557.2	556.4	545.7	538.2	541.5	564.7	563.0	643.9	892.4	917.2	805.7
80°	499.4	494.5	485.4	470.5	454.9	432.6	409.5	364.9	334.3	345.9	305.4
82.5°	270.8	261.7	282.3	302.1	347.5	366.5	336.8	281.5	252.6	236.9	211.3
85°	63.6	61.1	71.8	99.9	170.9	174.2	169.2	139.5	121.4	113.1	102.4
87.5°	16.5	16.5	17.3	17.3	84.2	96.6	78.4	35.5	27.2	23.9	20.6
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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CATALOG NUMBER: UTLD-F02-LED-E-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	97.4	96.6	94.9	94.9	93.3	89.2	77.6	66.9	60.3	57.8	55.3
5°	110.6	107.3	103.2	99.1	94.9	92.5	90.8	73.5	57.0	52.8	48.7
7.5°	126.3	118.9	112.3	105.7	99.9	90.8	85.9	81.7	55.3	48.7	44.6
10°	190.7	182.4	128.0	127.1	113.1	103.2	99.1	94.9	66.0	56.1	48.7
12.5°	227.0	215.5	194.0	159.3	118.1	111.4	97.4	87.5	62.7	49.5	45.4
15°	241.1	227.0	204.7	194.8	151.9	132.1	111.4	100.7	69.3	59.4	48.7
17.5°	298.0	290.6	231.1	209.7	182.4	131.3	114.7	89.2	69.3	52.8	46.2
20°	322.8	303.8	260.9	248.5	221.2	180.0	137.0	118.1	85.0	69.3	52.8
22.5°	362.4	357.5	328.6	262.5	232.0	195.6	142.0	123.8	92.5	66.9	50.4
25°	434.2	381.4	343.4	333.5	288.1	240.2	180.0	136.2	99.9	70.2	55.3
27.5°	469.7	441.7	398.7	360.8	296.4	248.5	201.4	148.6	107.3	75.9	57.0
30°	567.1	471.4	439.2	400.4	331.0	263.3	204.7	155.2	106.5	74.3	57.8
32.5°	605.9	541.5	483.8	421.0	372.3	295.5	227.0	157.7	110.6	76.8	63.6
35°	659.6	579.5	536.6	474.7	401.2	321.1	232.8	162.6	104.8	74.3	62.7
37.5°	705.0	619.1	549.0	492.0	412.8	328.6	240.2	167.6	108.1	72.6	60.3
40°	728.9	638.1	558.1	504.4	411.9	332.7	254.3	161.8	104.8	71.0	56.1
42.5°	748.8	658.8	572.9	517.6	428.4	350.8	258.4	170.1	104.0	71.0	52.0
45°	762.0	677.8	605.9	533.3	449.9	370.7	264.2	171.7	105.7	71.0	48.7
47.5°	769.4	700.9	639.0	556.4	487.9	409.5	298.0	187.4	108.1	68.5	45.4
50°	779.3	725.6	666.2	586.1	528.3	431.7	323.6	195.6	111.4	64.4	42.9
52.5°	786.7	738.8	684.4	623.3	586.1	501.1	387.2	234.4	120.5	61.9	40.5
55°	822.2	797.5	794.2	811.5	837.9	821.4	665.4	402.9	185.7	72.6	46.2
57.5°	1057.5	1102.1	1183.0	1252.3	1232.5	1192.9	956.8	557.2	251.8	79.3	53.7
60°	1539.6	1584.2	1616.4	1583.4	1472.7	1377.8	1079.0	631.5	280.7	66.0	42.1
62.5°	2060.5	1978.8	1879.7	1731.1	1606.5	1424.9	1135.9	673.6	288.1	56.1	31.4
65°	2512.9	2255.3	2030.8	1764.1	1610.6	1418.3	1121.9	656.3	275.7	46.2	25.6
67.5°	2787.0	2347.8	1997.8	1633.7	1410.0	1187.9	866.8	504.4	211.3	37.1	21.5
69°	2818.3	2250.4	1798.0	1379.5	1146.7	906.4	580.3	333.5	147.8	31.4	19.0
70°	2760.6	2115.8	1571.8	1154.9	914.7	672.8	422.7	245.2	106.5	28.1	18.2
72.5°	2229.7	1466.1	901.5	568.0	401.2	279.0	170.9	99.9	45.4	20.6	15.7
75°	1222.6	629.9	356.6	236.1	183.3	140.3	96.6	53.7	26.4	17.3	13.2
77.5°	449.9	284.0	203.9	161.8	106.5	61.1	41.3	30.5	21.5	14.0	9.9
80°	269.9	197.3	143.6	76.8	51.2	38.8	29.7	23.9	17.3	10.7	6.6
82.5°	172.5	117.2	61.9	45.4	36.3	28.9	23.1	19.8	12.4	7.4	3.3
85°	79.3	47.1	37.1	32.2	28.1	25.6	23.9	19.8	9.9	4.1	2.5
87.5°	18.2	17.3	20.6	19.0	18.2	17.3	15.7	13.2	5.0	3.3	2.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	53.7	52.0	50.4	49.5	47.9	47.9	46.2	46.2	45.4	44.6	45.4
5°	45.4	43.8	42.1	40.5	38.8	37.1	38.0	38.8	38.8	39.6	34.7
7.5°	42.1	39.6	36.3	34.7	33.8	16.5	13.2	12.4	11.6	12.4	12.4
10°	42.9	38.8	36.3	14.9	10.7	10.7	10.7	10.7	11.6	14.0	17.3
12.5°	40.5	35.5	19.0	17.3	15.7	14.9	17.3	16.5	16.5	16.5	16.5
15°	45.4	25.6	19.8	17.3	19.0	20.6	20.6	19.8	16.5	16.5	19.8
17.5°	28.9	23.9	22.3	26.4	25.6	21.5	19.8	22.3	23.1	21.5	19.0
20°	38.0	33.8	30.5	26.4	24.8	24.8	27.2	23.1	21.5	22.3	23.1
22.5°	38.8	36.3	38.0	35.5	33.0	26.4	25.6	24.8	25.6	23.9	23.1
25°	48.7	49.5	44.6	36.3	34.7	32.2	29.7	24.8	25.6	23.1	24.8
27.5°	52.0	48.7	44.6	42.9	39.6	32.2	32.2	27.2	25.6	25.6	22.3
30°	54.5	49.5	46.2	42.1	38.0	35.5	31.4	28.1	25.6	24.8	23.9
32.5°	57.8	51.2	44.6	41.3	38.0	33.0	32.2	28.1	25.6	23.1	23.1
35°	53.7	47.9	43.8	40.5	34.7	31.4	29.7	27.2	23.9	23.1	21.5
37.5°	48.7	43.8	40.5	36.3	33.0	28.9	28.1	24.8	23.1	21.5	20.6
40°	44.6	39.6	36.3	33.0	29.7	26.4	24.8	22.3	19.8	19.0	19.0
42.5°	42.1	36.3	32.2	29.7	26.4	23.9	22.3	19.8	18.2	17.3	17.3
45°	38.8	33.0	28.9	25.6	23.1	21.5	19.8	17.3	15.7	15.7	15.7
47.5°	37.1	30.5	26.4	23.1	20.6	19.0	17.3	14.9	13.2	14.0	14.0
50°	34.7	28.1	23.1	21.5	19.0	17.3	15.7	13.2	12.4	12.4	12.4
52.5°	32.2	24.8	20.6	19.0	17.3	15.7	13.2	10.7	9.9	10.7	9.9
55°	32.2	22.3	18.2	16.5	14.9	13.2	10.7	9.1	8.3	7.4	6.6
57.5°	38.0	22.3	15.7	14.9	13.2	10.7	8.3	6.6	5.8	4.1	3.3
60°	33.0	22.3	14.0	13.2	11.6	9.1	6.6	5.0	3.3	2.5	1.7
62.5°	23.1	17.3	12.4	11.6	9.1	6.6	4.1	2.5	1.7	0.8	0.8
65°	19.8	14.0	11.6	9.9	7.4	5.0	2.5	1.7	0.8	0.8	0.8
67.5°	17.3	13.2	9.9	8.3	6.6	3.3	1.7	0.8	0.8	0.8	0.8
69°	15.7	12.4	9.9	7.4	5.8	2.5	1.7	0.8	0.8	0.8	0.8
70°	14.9	11.6	9.1	7.4	5.0	2.5	0.8	0.8	0.8	0.8	0.8
72.5°	12.4	9.1	7.4	6.6	4.1	1.7	0.8	0.8	0.8	0.8	0.8
75°	9.1	7.4	5.0	5.0	3.3	1.7	0.8	0.8	0.8	0.8	0.0
77.5°	6.6	5.0	3.3	3.3	2.5	1.7	0.8	0.8	0.8	0.8	0.0
80°	4.1	3.3	2.5	2.5	1.7	1.7	0.0	0.8	0.8	0.8	0.8
82.5°	2.5	2.5	2.5	1.7	1.7	1.7	0.8	1.7	0.8	0.8	0.8
85°	2.5	2.5	2.5	1.7	1.7	1.7	0.8	1.7	1.7	1.7	0.8
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.8	2.5	2.5	1.7	1.7
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):

	160°	165°	170°	175°	180°
0°	65.2	65.2	65.2	65.2	65.2
2.5°	45.4	45.4	46.2	47.1	47.1
5°	26.4	18.2	19.0	19.0	19.0
7.5°	12.4	12.4	13.2	13.2	13.2
10°	19.0	19.0	19.0	19.0	19.8
12.5°	17.3	18.2	18.2	18.2	19.0
15°	20.6	21.5	22.3	22.3	23.1
17.5°	19.0	19.0	20.6	20.6	20.6
20°	22.3	22.3	22.3	22.3	22.3
22.5°	19.8	20.6	23.1	23.9	24.8
25°	23.1	22.3	22.3	22.3	22.3
27.5°	23.1	23.1	23.9	23.9	23.9
30°	23.1	21.5	21.5	22.3	23.1
32.5°	23.1	23.1	22.3	22.3	22.3
35°	21.5	23.1	23.1	23.1	23.1
37.5°	20.6	20.6	23.1	23.9	23.9
40°	19.8	20.6	21.5	24.8	24.8
42.5°	19.0	20.6	22.3	23.9	23.9
45°	18.2	19.8	20.6	22.3	22.3
47.5°	16.5	18.2	19.0	19.8	19.8
50°	14.9	14.9	15.7	15.7	14.9
52.5°	10.7	10.7	9.9	9.9	9.9
55°	6.6	5.8	5.8	5.8	5.0
57.5°	3.3	3.3	2.5	2.5	2.5
60°	1.7	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0	0.0
69°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	0.0	0.0	0.0	0.0
85°	0.8	0.8	0.8	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)