

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: P157158

Luminaire Tested: **UTLD-E02-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157158
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33662)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-T3-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.9 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
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



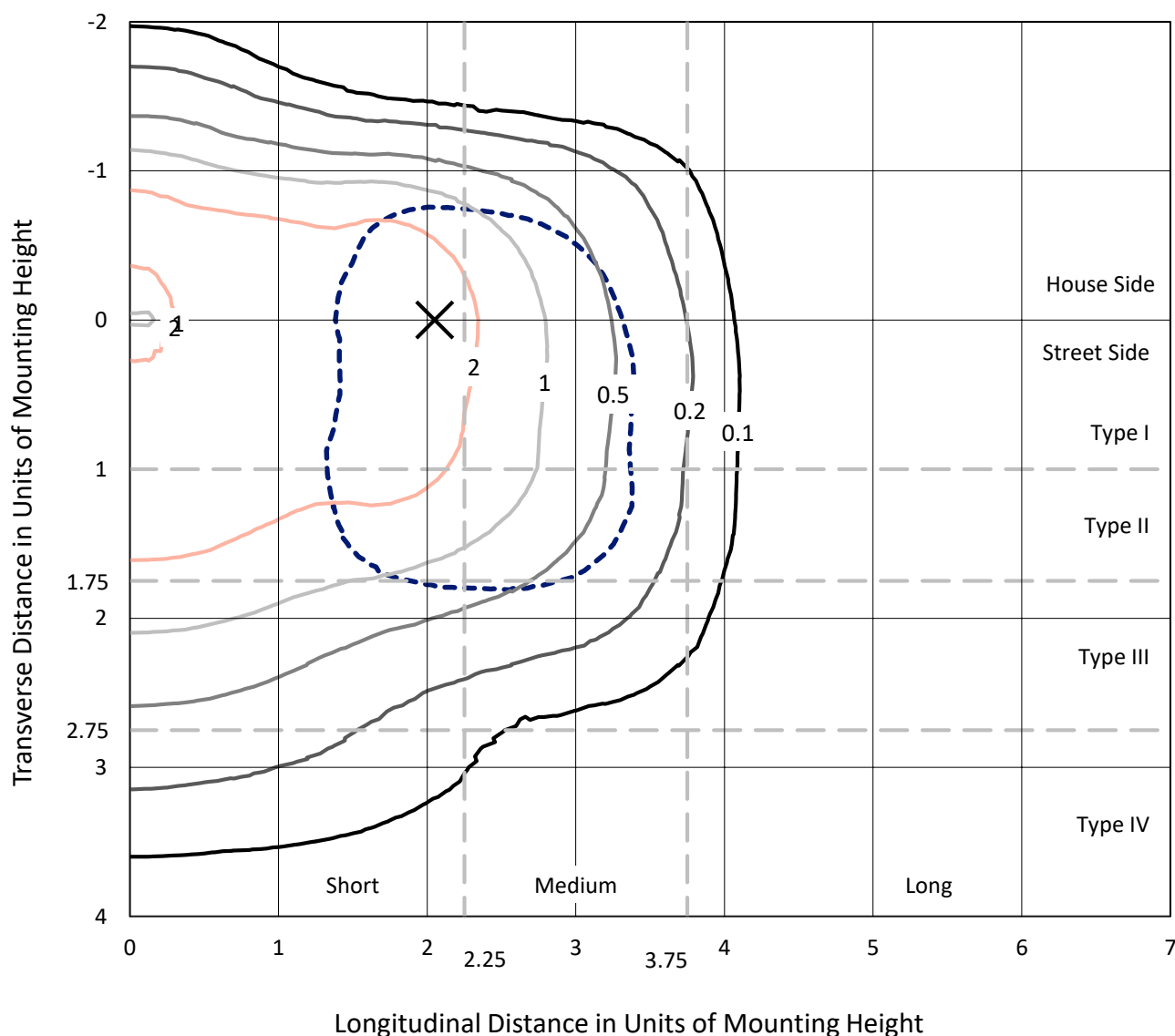
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

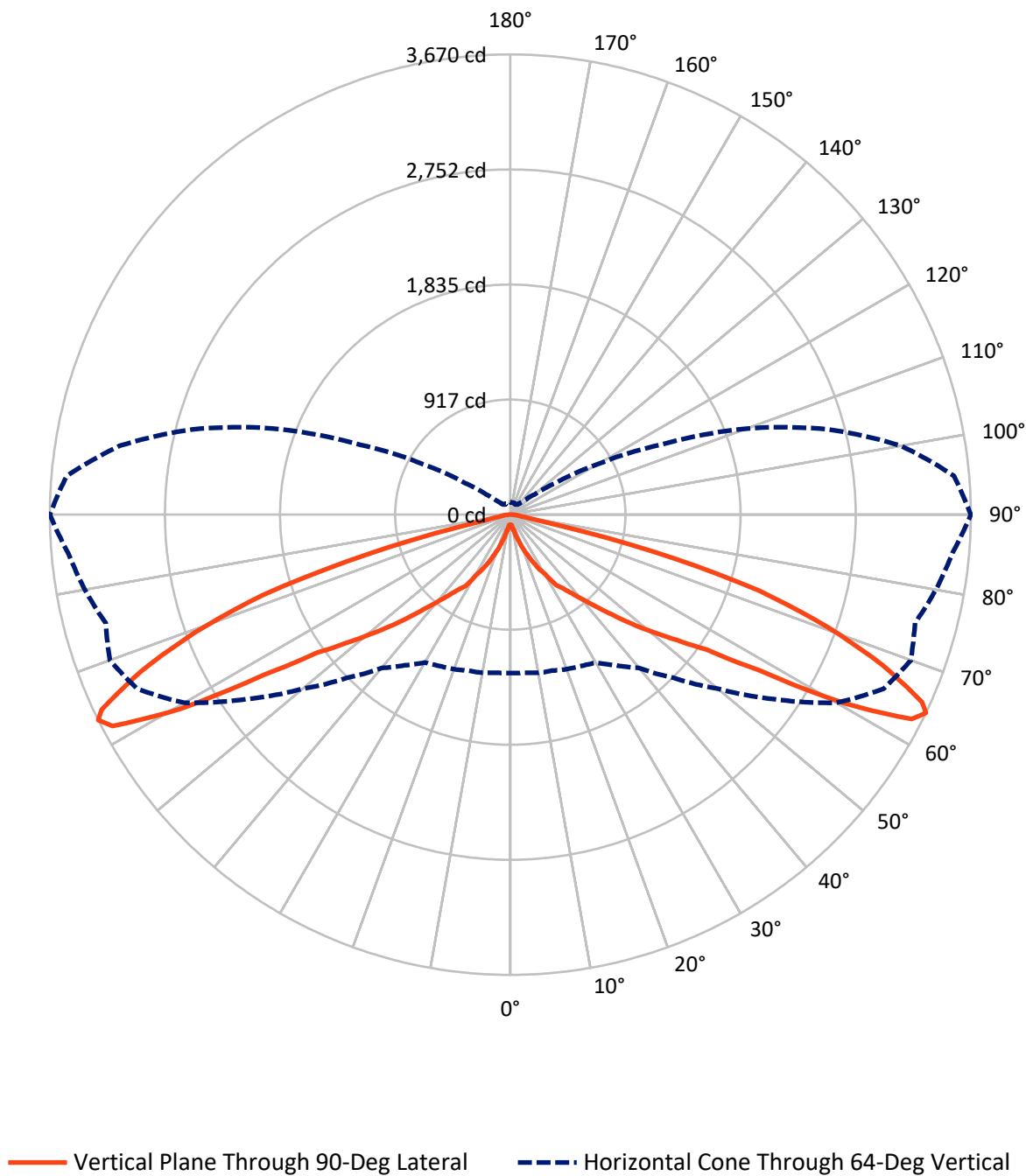


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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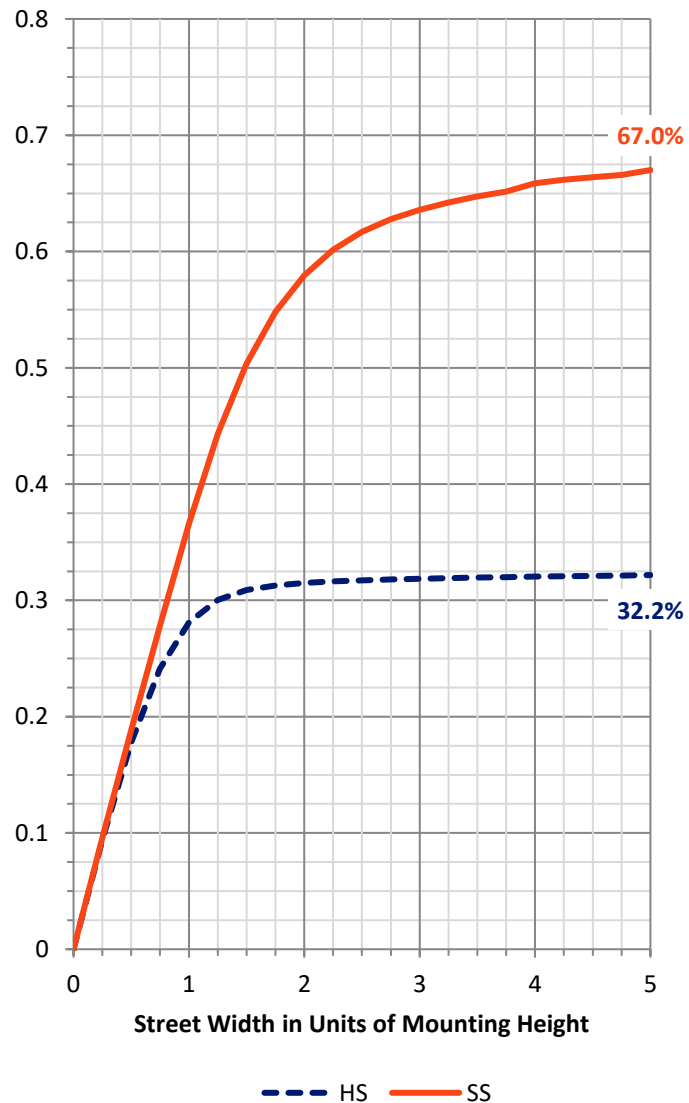
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.7	0.0	1478.7
	% Fixture	32.5	0.0	32.5
Street Side	Lumens	3071.3	0.0	3071.3
	% Fixture	67.5	0.0	67.5
Total	Lumens	4549.9	0.0	4549.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.2
10°-20°	59.8	1.3
20°-30°	176.2	3.9
30°-40°	372.3	8.2
40°-50°	652.7	14.3
50°-60°	1039.4	22.8
60°-70°	1457.6	32.0
70°-80°	660.2	14.5
80°-90°	120.6	2.6
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°	4549.9	100.0
0°-180°	4549.9	100.0

Coefficient of Utilization



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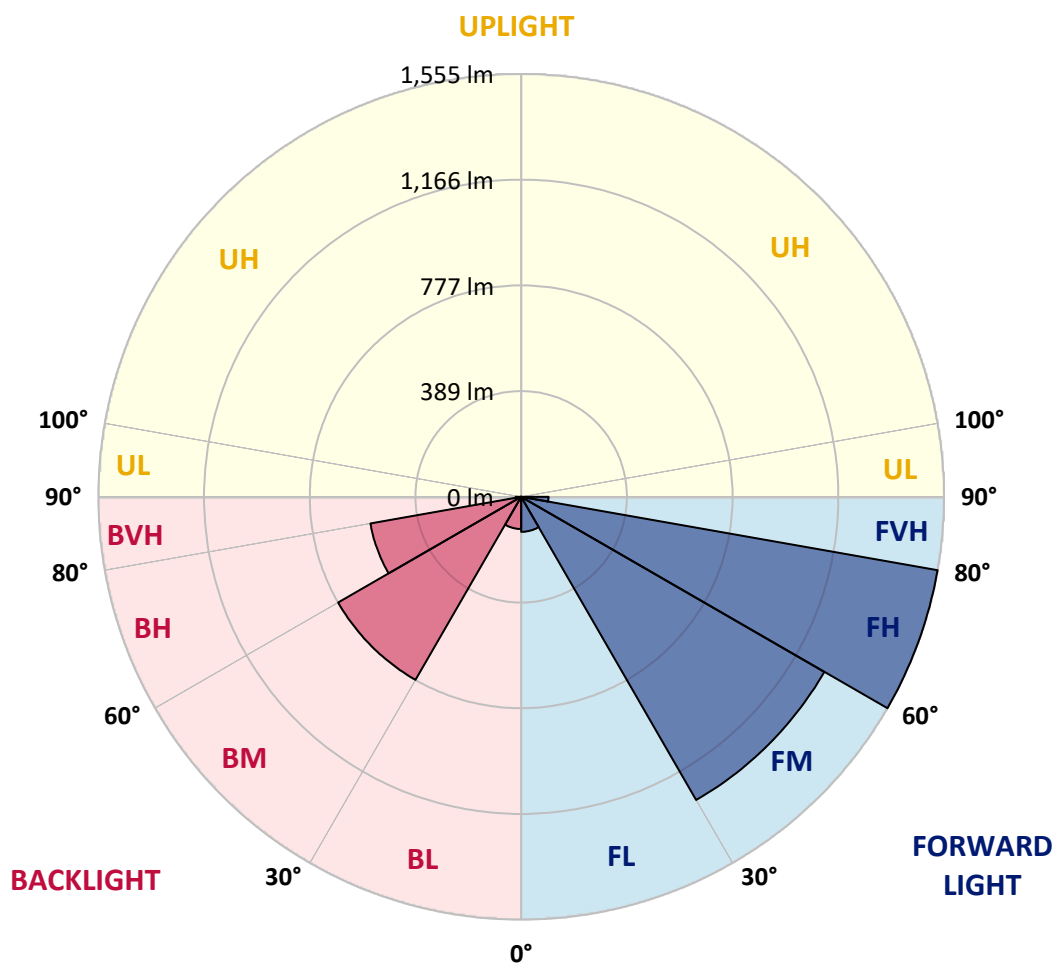
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.7	2.8			
FM	(30°-60°)	1287.3	28.3			
FH	(60°-80°)	1554.8	34.2			G1/1800
FVH	(80°-90°)	100.4	2.2			G2/225
BL	(0°-30°)	118.4	2.6	B1/500		
BM	(30°-60°)	777.2	17.1	B1/1000		
BH	(60°-80°)	563.0	12.4	B2/1000		G2/1000
BVH	(80°-90°)	20.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
2.5°	131.7	133.4	132.5	133.4	134.2	133.4	133.4	132.5	133.4	134.2	134.2
5°	107.2	108.0	108.0	107.2	108.0	108.0	108.0	108.0	108.0	108.0	108.0
7.5°	160.4	161.2	162.0	160.4	160.4	161.2	159.5	136.7	110.6	108.9	107.2
10°	160.4	161.2	161.2	159.5	160.4	161.2	161.2	160.4	155.3	154.5	154.5
12.5°	205.9	206.8	207.6	207.6	207.6	201.7	194.1	162.9	158.7	200.0	203.4
15°	208.5	208.5	208.5	205.1	205.1	201.7	204.2	241.4	238.8	210.2	206.8
17.5°	256.6	256.6	256.6	255.7	249.8	249.8	251.5	243.1	243.9	244.8	288.6
20°	312.3	314.0	291.2	266.7	257.4	287.0	287.8	282.7	310.6	276.8	291.2
22.5°	326.6	326.6	325.8	318.2	319.9	340.1	327.5	316.5	323.2	305.5	330.0
25°	388.2	388.2	383.2	376.4	366.3	357.0	367.1	365.4	350.3	348.6	389.1
27.5°	416.1	404.3	401.7	393.3	416.1	411.0	419.5	381.5	413.6	406.0	427.9
30°	477.7	476.9	468.4	476.0	476.0	456.6	441.4	459.1	465.9	451.5	501.3
32.5°	565.5	564.6	554.5	548.6	507.2	503.0	512.3	514.8	514.0	518.2	533.4
35°	660.8	660.0	604.3	593.3	578.1	574.8	573.9	560.4	576.4	556.2	596.7
37.5°	724.1	730.9	698.8	691.2	671.8	649.9	632.1	640.6	621.2	618.6	648.2
40°	850.7	853.3	824.6	800.9	784.1	734.3	716.5	711.5	704.7	696.3	736.0
42.5°	969.7	966.4	941.0	922.5	901.4	853.3	801.8	795.9	794.2	786.6	821.2
45°	1085.4	1087.9	1058.4	1049.9	1016.2	985.8	914.9	915.7	910.7	902.2	933.5
47.5°	1190.9	1196.8	1180.7	1154.6	1127.6	1103.1	1049.1	1045.7	1033.9	1036.4	1073.6
50°	1279.5	1290.5	1275.3	1255.9	1231.4	1214.5	1183.3	1175.7	1168.9	1175.7	1216.2
52.5°	1340.3	1349.5	1355.4	1331.0	1331.0	1309.0	1298.9	1291.3	1293.8	1314.1	1362.2
55°	1370.6	1379.1	1391.7	1374.9	1412.0	1379.9	1370.6	1381.6	1398.5	1434.8	1503.1
57.5°	1370.6	1375.7	1391.7	1395.1	1417.1	1394.3	1411.2	1434.8	1471.1	1534.4	1630.6
60°	1341.9	1346.2	1365.6	1368.1	1388.4	1383.3	1397.6	1465.2	1518.3	1623.0	1777.4
62.5°	1296.4	1298.9	1317.5	1322.5	1343.6	1353.8	1375.7	1473.6	1568.1	1750.4	1998.6
64°	1263.5	1265.1	1280.3	1287.9	1311.6	1331.0	1361.4	1466.9	1596.0	1839.9	2160.6
65°	1240.7	1240.7	1259.2	1262.6	1286.2	1311.6	1344.5	1450.8	1597.7	1873.7	2230.7
67.5°	1151.2	1147.0	1165.6	1174.0	1183.3	1203.5	1223.8	1334.3	1498.1	1820.5	2212.1
70°	1000.1	990.0	999.3	992.5	987.5	978.2	968.1	1044.9	1161.3	1485.4	1873.7
72.5°	701.4	701.4	693.8	709.8	721.6	733.4	692.9	702.2	765.5	974.8	1320.8
75°	470.9	476.0	489.5	528.3	566.3	600.9	614.4	615.3	562.1	578.1	801.8
77.5°	279.4	290.3	300.5	346.0	395.0	467.6	531.7	594.2	608.5	600.1	580.7
80°	125.8	129.1	143.5	161.2	191.6	241.4	335.1	434.7	547.8	604.3	592.5
82.5°	43.0	47.3	56.5	67.5	80.2	102.1	151.9	205.1	313.1	443.9	552.0
85°	14.3	16.0	21.9	30.4	33.8	38.8	51.5	76.0	124.1	174.7	332.5
87.5°	5.9	7.6	10.1	15.2	16.9	16.9	17.7	22.8	22.8	22.8	91.2
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-E02-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
2.5°	110.6	102.1	90.3	87.8	84.4	83.6	82.7	82.7	81.9	82.7	82.7
5°	118.2	124.9	130.0	126.6	93.7	89.5	82.7	81.9	82.7	82.7	86.9
7.5°	107.2	107.2	102.1	117.3	118.2	87.8	81.0	82.7	83.6	84.4	97.9
10°	115.6	146.9	146.0	148.5	169.6	166.3	124.1	121.5	122.4	128.3	169.6
12.5°	205.9	190.7	150.2	157.0	155.3	172.2	132.5	127.4	130.8	162.9	158.7
15°	206.8	237.2	242.2	213.5	202.6	214.4	193.3	184.0	178.1	211.8	182.3
17.5°	245.6	243.1	248.1	228.7	216.1	212.7	232.9	227.9	218.6	203.4	189.1
20°	271.8	290.3	296.2	334.2	311.4	302.1	308.9	291.2	281.0	285.3	284.4
22.5°	333.4	359.5	340.1	347.7	354.5	378.1	369.7	342.7	349.4	351.1	340.1
25°	352.8	395.8	423.7	438.0	443.1	427.9	449.0	417.8	427.9	413.6	423.7
27.5°	437.2	439.7	461.7	456.6	491.2	508.9	508.1	491.2	495.4	503.9	514.8
30°	461.7	470.9	514.8	530.0	549.4	562.9	546.9	553.7	541.0	558.7	561.3
32.5°	538.5	530.0	546.1	610.2	654.9	677.7	654.9	668.4	654.1	660.0	630.5
35°	584.0	623.7	634.7	665.1	698.8	730.9	724.1	721.6	719.9	731.7	670.1
37.5°	677.7	686.2	692.1	730.9	761.3	803.5	805.2	795.9	811.9	778.2	725.0
40°	739.3	752.8	760.4	786.6	848.2	882.0	907.3	888.7	911.5	844.0	806.0
42.5°	831.3	825.4	838.9	879.4	955.4	975.7	1011.1	999.3	1033.9	961.3	886.2
45°	952.0	947.0	949.5	975.7	1078.6	1093.0	1128.4	1137.7	1154.6	1064.3	987.5
47.5°	1087.9	1090.4	1090.4	1116.6	1201.0	1229.7	1270.2	1298.1	1292.2	1174.0	1097.2
50°	1240.7	1252.5	1234.8	1271.1	1334.3	1385.8	1408.6	1468.5	1446.6	1326.8	1241.5
52.5°	1409.5	1428.9	1412.8	1443.2	1503.1	1568.1	1606.1	1662.7	1624.7	1524.2	1374.0
55°	1576.6	1610.3	1628.9	1661.8	1738.6	1800.2	1817.1	1897.3	1844.1	1745.4	1519.2
57.5°	1752.1	1823.9	1890.5	1935.3	2064.4	2136.1	2172.4	2346.3	2281.3	2176.7	1827.2
60°	1979.2	2196.9	2378.4	2478.8	2649.3	2722.7	2867.9	3051.9	3005.5	2851.0	2379.2
62.5°	2351.4	2738.8	3015.6	3144.7	3185.2	3280.6	3416.5	3590.3	3518.6	3162.4	2669.5
64°	2564.0	3001.2	3282.3	3396.2	3338.8	3443.5	3536.3	3669.7	3549.0	3159.9	2624.8
65°	2654.4	3099.1	3368.4	3476.4	3360.8	3446.9	3523.7	3607.2	3456.1	3077.2	2515.1
67.5°	2677.1	3105.9	3346.4	3410.6	3219.0	3193.7	3206.3	3197.9	2995.3	2649.3	2148.0
70°	2334.5	2745.5	3082.3	3164.1	2907.5	2771.7	2764.9	2683.9	2478.0	2205.3	1769.0
72.5°	1802.8	2161.5	2494.8	2605.4	2363.2	2256.0	2230.7	2071.2	1899.8	1647.5	1332.7
75°	1221.3	1511.6	1608.6	1615.4	1421.3	1363.9	1326.8	1182.4	1033.9	925.9	781.5
77.5°	717.4	837.2	748.6	659.2	516.5	366.3	272.6	227.0	248.1	247.3	232.9
80°	606.8	569.7	460.8	357.0	256.6	145.2	105.5	89.5	91.2	92.8	91.2
82.5°	652.4	694.6	589.1	418.6	314.0	184.8	89.5	64.1	73.4	81.0	77.6
85°	552.8	677.7	631.3	452.4	336.8	194.1	63.3	42.2	54.0	66.7	70.9
87.5°	214.4	313.1	254.0	174.7	117.3	65.0	37.1	30.4	38.0	53.2	58.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
2.5°	83.6	86.1	90.3	90.3	87.8	90.3	102.1	116.5	124.9	131.7	139.3
5°	86.9	113.9	132.5	135.0	131.7	95.4	88.6	88.6	92.0	95.4	87.8
7.5°	121.5	115.6	81.0	86.1	86.9	87.8	86.9	89.5	90.3	119.8	136.7
10°	138.4	125.8	122.4	102.1	95.4	133.4	133.4	134.2	139.3	140.1	139.3
12.5°	135.0	129.1	130.0	173.0	186.5	178.1	144.3	133.4	139.3	159.5	178.9
15°	180.6	192.4	204.2	178.9	187.4	181.5	213.5	222.0	183.1	180.6	186.5
17.5°	192.4	232.1	233.8	223.7	252.4	225.3	219.4	222.0	218.6	202.6	228.7
20°	317.3	295.4	275.1	252.4	273.5	265.0	259.9	262.5	259.9	260.8	230.4
22.5°	336.8	327.5	345.2	335.9	316.5	295.4	303.8	298.8	270.9	300.5	277.7
25°	438.0	431.3	393.3	350.3	379.8	335.9	315.7	335.9	330.8	308.1	308.1
27.5°	460.8	459.1	452.4	460.0	404.3	380.6	405.1	346.9	350.3	357.9	356.2
30°	533.4	532.6	476.0	482.8	479.4	438.0	422.0	427.9	388.2	381.5	396.7
32.5°	611.0	560.4	545.2	550.3	510.6	483.6	475.2	442.3	427.1	419.5	395.0
35°	644.8	643.1	629.6	581.5	566.3	515.7	508.1	470.1	455.8	450.7	438.0
37.5°	689.5	687.9	673.5	648.2	611.9	552.0	525.8	500.5	468.4	448.2	464.2
40°	749.5	736.8	722.5	681.1	631.3	577.3	540.2	496.3	476.0	456.6	479.4
42.5°	855.8	799.3	763.8	711.5	644.8	579.8	538.5	496.3	457.4	451.5	454.9
45°	949.5	859.2	798.4	730.9	650.7	574.8	522.4	474.3	447.3	424.5	423.7
47.5°	1031.4	927.5	830.5	746.1	647.3	561.3	498.8	447.3	413.6	391.6	381.5
50°	1108.2	999.3	863.4	751.2	633.0	535.1	465.0	410.2	368.0	343.5	341.0
52.5°	1185.0	1049.9	891.3	743.6	605.1	495.4	416.1	357.9	312.3	292.0	287.8
55°	1293.8	1078.6	905.6	716.5	561.3	441.4	357.9	296.2	250.7	240.5	234.6
57.5°	1522.6	1172.3	920.0	674.3	496.3	371.4	289.5	236.3	202.6	192.4	187.4
60°	1890.5	1351.2	952.9	610.2	407.6	292.9	221.1	177.2	154.5	148.5	146.0
62.5°	2063.6	1398.5	902.2	513.1	312.3	208.5	155.3	124.9	113.1	111.4	113.1
64°	2008.7	1318.3	804.3	438.0	249.0	161.2	119.8	99.6	92.8	92.0	95.4
65°	1911.6	1227.2	730.1	386.5	206.8	133.4	100.4	86.1	81.0	82.7	85.2
67.5°	1579.1	948.6	494.6	231.3	119.8	81.9	68.4	61.6	62.5	64.1	67.5
70°	1233.1	635.5	269.2	119.8	71.7	55.7	51.5	49.0	50.6	53.2	56.5
72.5°	845.7	355.3	128.3	68.4	53.2	44.7	43.9	43.0	44.7	47.3	50.6
75°	443.1	148.5	72.6	54.0	46.4	40.5	41.4	40.5	42.2	44.7	47.3
77.5°	140.1	80.2	60.8	49.8	43.9	38.0	38.8	39.7	41.4	43.0	44.7
80°	76.0	66.7	54.9	46.4	41.4	35.4	37.1	38.0	40.5	41.4	41.4
82.5°	69.2	58.2	48.1	42.2	39.7	34.6	38.0	38.0	38.0	38.0	38.0
85°	60.8	47.3	39.7	37.1	37.1	32.9	35.4	35.4	33.8	33.8	32.1
87.5°	47.3	34.6	33.8	37.1	34.6	23.6	30.4	28.7	26.2	26.2	25.3
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-E02-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	83.6	83.6	83.6	83.6
2.5°	138.4	139.3	135.9	135.9
5°	86.9	87.8	86.9	86.9
7.5°	141.8	140.1	145.2	140.1
10°	142.6	138.4	137.6	138.4
12.5°	185.7	185.7	186.5	186.5
15°	185.7	184.8	186.5	185.7
17.5°	232.9	234.6	235.5	234.6
20°	235.5	236.3	243.1	238.0
22.5°	279.4	284.4	284.4	283.6
25°	291.2	328.3	335.9	335.1
27.5°	334.2	338.4	339.3	338.4
30°	380.6	382.3	386.5	384.9
32.5°	400.9	427.9	433.0	431.3
35°	434.7	427.1	444.8	462.5
37.5°	454.9	452.4	456.6	455.8
40°	473.5	477.7	482.8	478.5
42.5°	455.8	453.2	455.8	454.1
45°	419.5	420.3	418.6	416.9
47.5°	373.9	373.9	372.2	372.2
50°	325.8	327.5	320.7	321.6
52.5°	275.1	276.8	271.8	266.7
55°	227.9	228.7	222.0	220.3
57.5°	184.0	186.5	180.6	178.1
60°	146.0	146.9	145.2	145.2
62.5°	115.6	113.9	112.3	113.1
64°	97.9	98.7	96.2	97.9
65°	87.8	89.5	87.8	89.5
67.5°	70.1	72.6	71.7	72.6
70°	59.9	60.8	59.9	59.9
72.5°	53.2	54.0	52.3	51.5
75°	49.8	49.0	48.1	47.3
77.5°	45.6	45.6	43.9	43.0
80°	40.5	39.7	38.0	36.3
82.5°	37.1	35.4	31.2	28.7
85°	31.2	28.7	23.6	18.6
87.5°	25.3	22.8	14.3	7.6
90°	0.0	0.0	0.0	0.0

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