

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: P157180

Luminaire Tested: **UTLD-E01-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157180
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E01-LED-E-U-T4
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
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



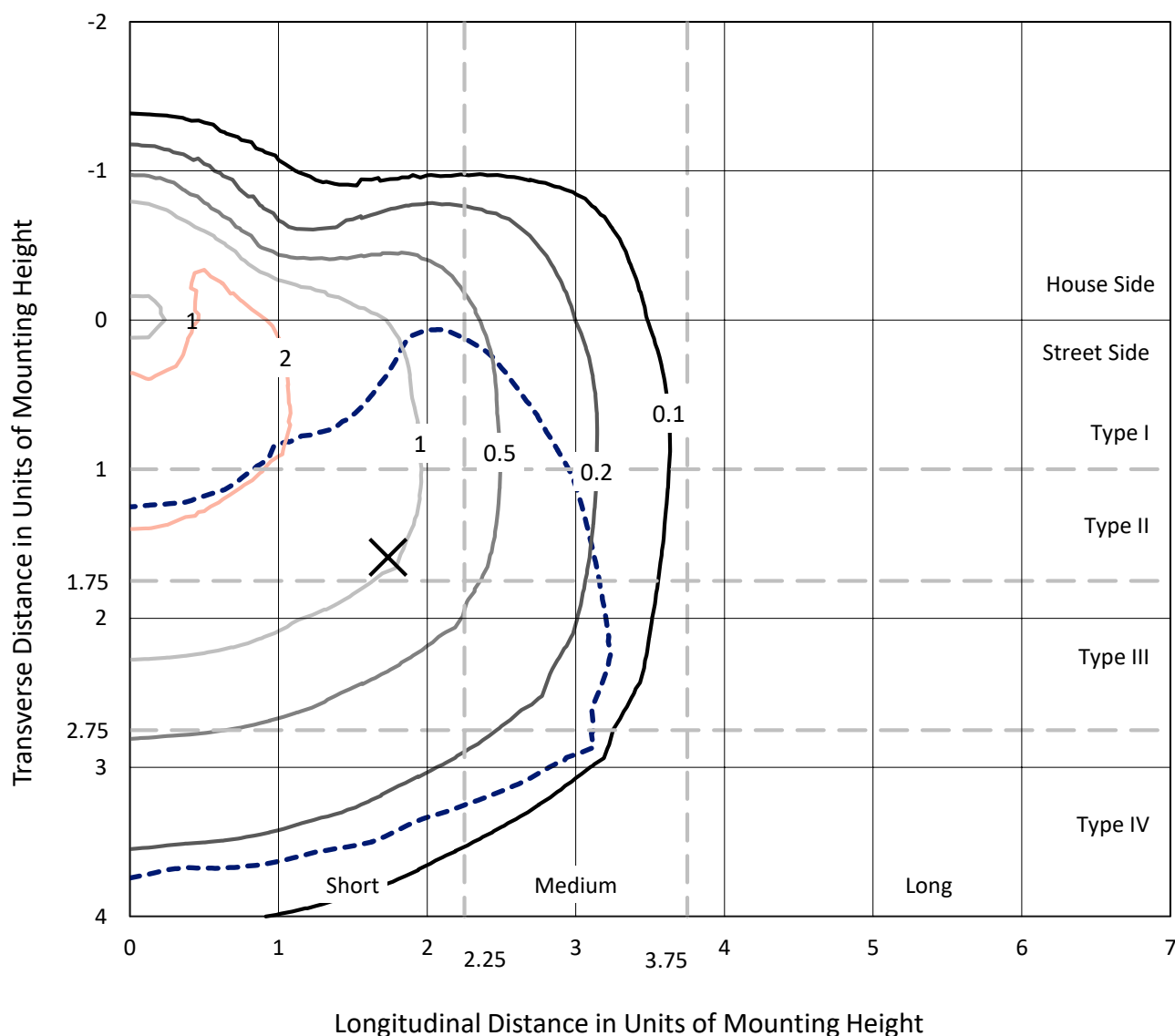
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

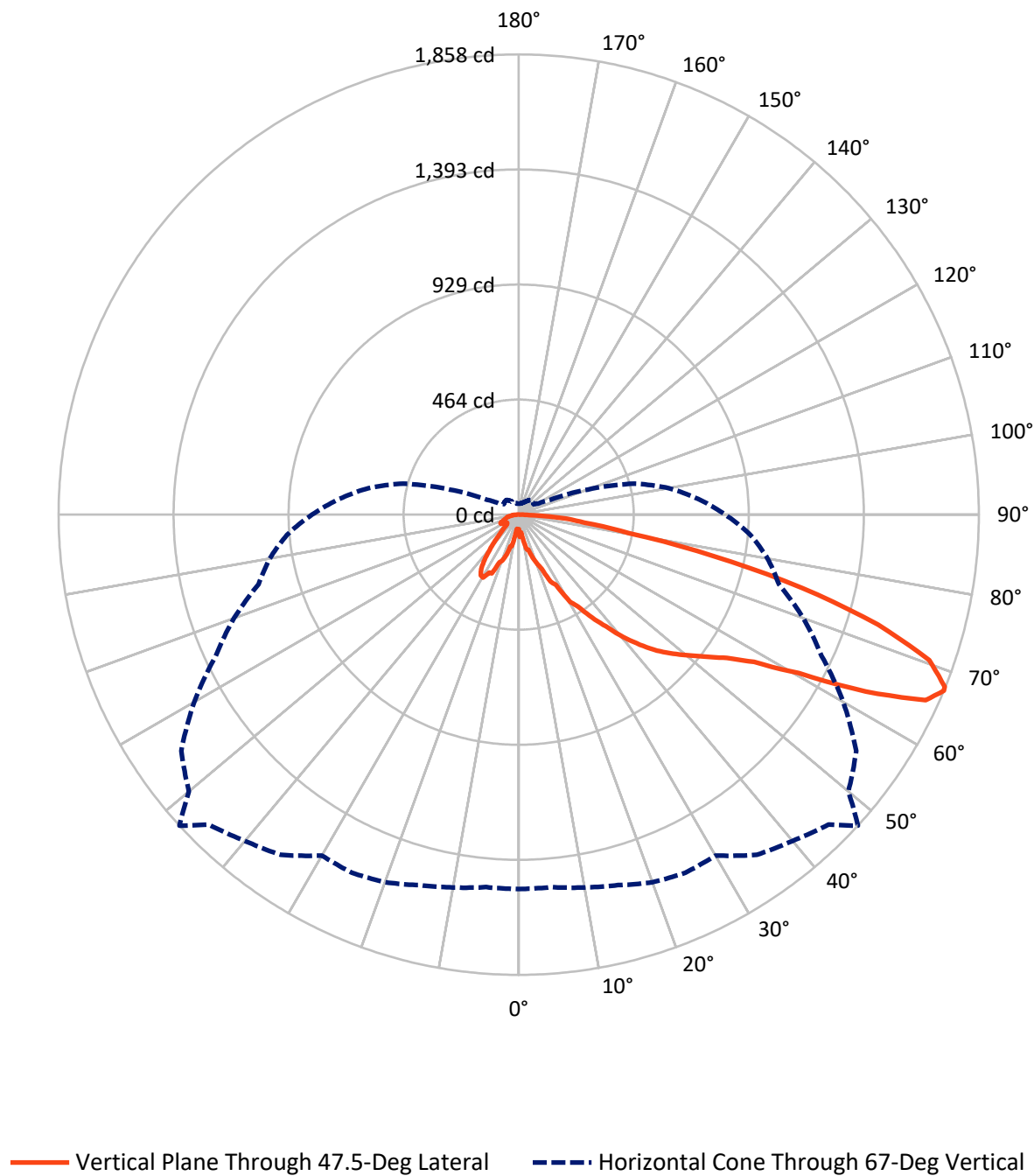


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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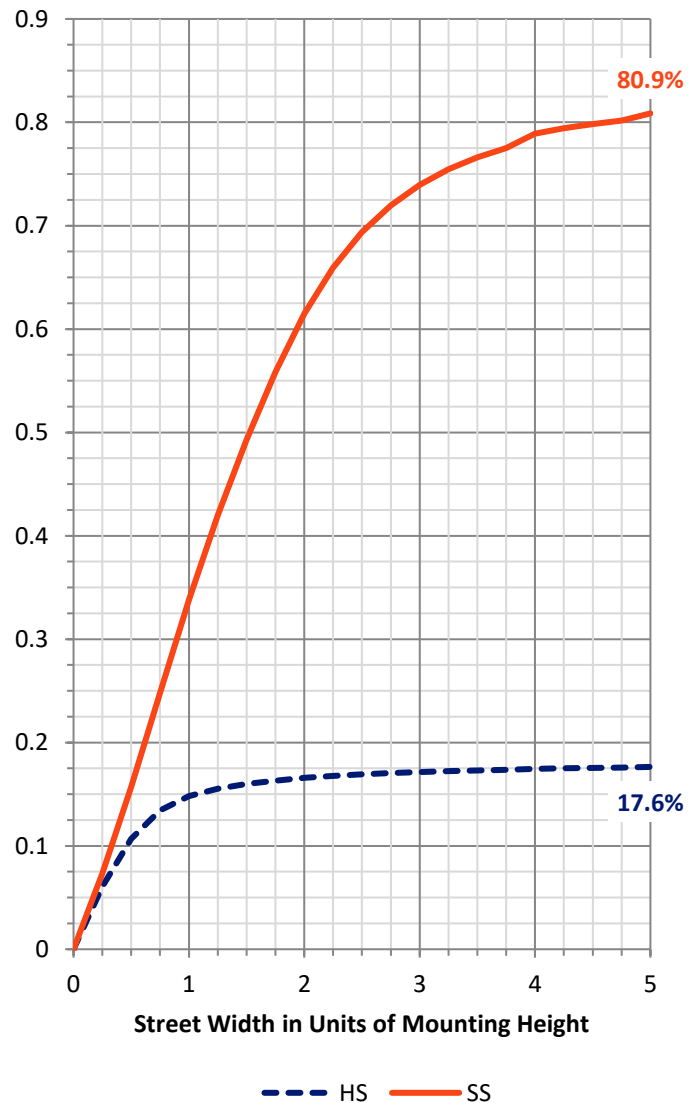
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.3	0.0	473.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	2163.7	0.0	2163.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	2637.0	0.0	2637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.3
10°-20°	43.2	1.6
20°-30°	127.4	4.8
30°-40°	250.6	9.5
40°-50°	349.9	13.3
50°-60°	487.8	18.5
60°-70°	781.7	29.6
70°-80°	501.4	19.0
80°-90°	87.2	3.3
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°	2637.0	100.0
0°-180°	2637.0	100.0

Coefficient of Utilization



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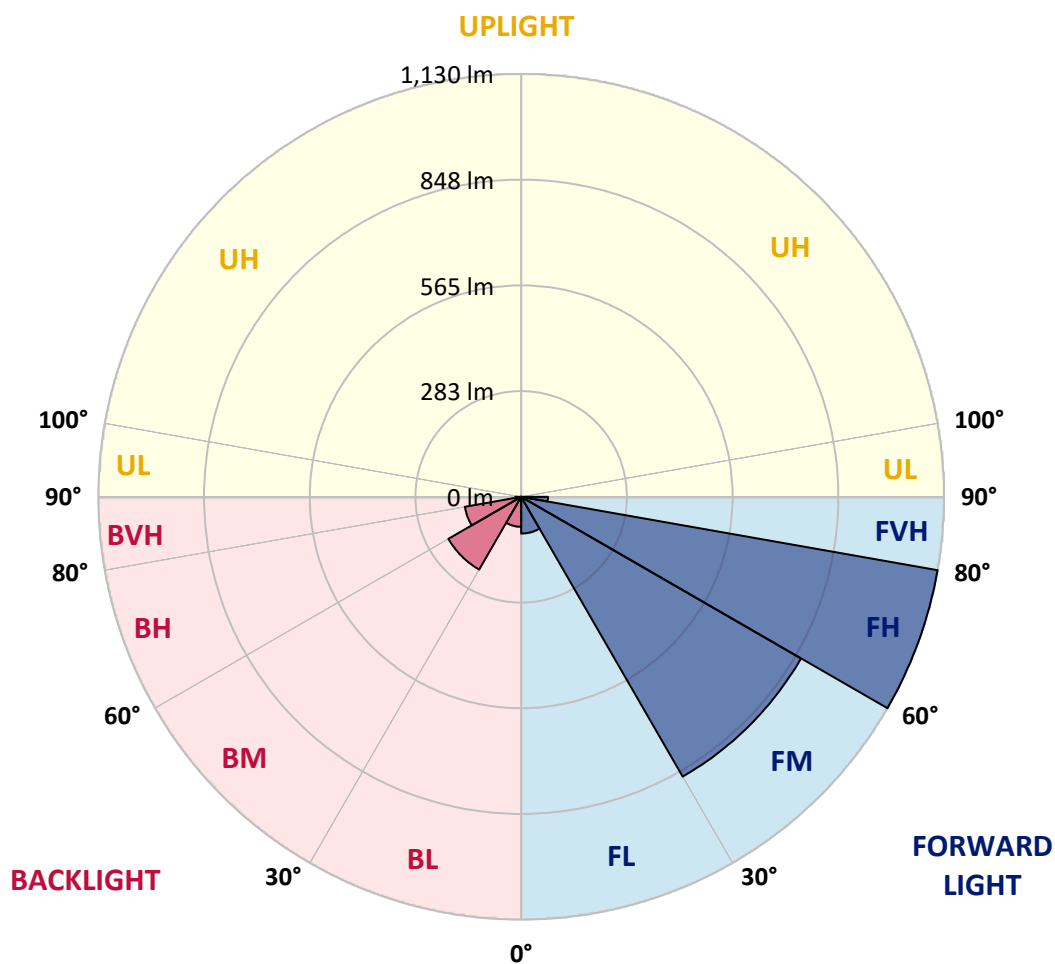
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.2	3.7			
FM	(30°-60°)	863.7	32.8			
FH	(60°-80°)	1130.3	42.9			G1/1800
FVH	(80°-90°)	71.5	2.7			G1/100
BL	(0°-30°)	80.2	3.0	B0/110		
BM	(30°-60°)	224.6	8.5	B1/1000		
BH	(60°-80°)	152.8	5.8	B1/500		G1/500
BVH	(80°-90°)	15.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2.5°	91.0	91.5	91.0	91.5	91.5	91.0	91.0	91.0	92.5	88.0	90.0
5°	72.0	72.5	72.5	72.5	72.5	72.5	73.0	74.5	73.0	73.5	73.5
7.5°	110.0	111.0	111.0	110.0	110.5	110.5	110.0	78.5	76.0	74.5	73.0
10°	112.5	113.5	113.5	111.5	112.0	112.5	112.5	112.0	111.0	107.5	107.0
12.5°	152.5	153.0	152.5	152.0	151.0	146.0	134.0	116.5	111.0	140.5	143.0
15°	163.5	163.0	162.0	159.5	158.0	155.5	152.5	177.5	174.5	151.0	148.0
17.5°	207.5	207.5	206.5	206.0	199.5	197.5	191.5	188.0	184.5	179.5	182.5
20°	251.5	249.0	227.0	215.0	207.5	230.0	229.5	223.0	228.5	210.0	209.5
22.5°	267.5	266.0	264.0	257.5	255.5	271.0	256.0	251.5	256.5	237.0	236.5
25°	330.0	329.5	320.5	315.5	300.0	292.0	297.5	293.5	279.5	279.0	299.5
27.5°	357.0	353.5	347.0	338.5	354.0	347.5	348.5	314.5	341.0	327.5	322.0
30°	426.5	428.0	416.5	420.5	417.0	386.0	376.0	385.5	384.0	373.5	407.0
32.5°	513.5	513.0	500.5	478.0	447.5	441.5	447.5	439.0	436.0	434.0	444.0
35°	609.5	602.5	559.5	549.0	532.0	519.5	514.5	493.0	502.0	477.5	511.0
37.5°	656.0	657.0	640.5	640.5	622.5	604.0	581.0	583.5	564.0	549.0	572.5
40°	725.0	727.5	712.0	703.5	695.5	666.5	651.0	639.5	639.0	625.5	649.5
42.5°	758.5	762.5	748.5	744.0	749.5	730.5	705.5	705.0	708.0	689.5	717.5
45°	793.0	798.0	783.5	789.5	783.5	780.5	747.0	764.0	772.5	752.0	782.5
47.5°	833.5	840.0	834.5	831.0	825.0	825.0	800.5	812.0	824.5	807.0	839.0
50°	884.0	888.5	882.5	881.0	872.0	870.5	854.5	862.5	872.5	854.5	892.5
52.5°	951.0	952.0	948.0	939.0	925.5	928.5	919.0	919.5	923.5	911.5	953.5
55°	1035.5	1036.5	1036.0	1015.0	1027.5	1004.5	989.0	992.0	990.0	980.5	1020.5
57.5°	1141.0	1147.5	1150.5	1132.0	1143.5	1101.0	1092.0	1086.5	1093.5	1072.0	1121.0
60°	1309.0	1319.0	1314.0	1311.0	1302.0	1262.5	1251.0	1267.0	1259.5	1240.5	1299.0
62.5°	1524.5	1522.0	1534.5	1532.5	1535.0	1495.5	1468.5	1507.5	1520.5	1528.0	1572.5
65°	1580.0	1580.5	1596.5	1600.5	1620.0	1616.0	1597.5	1665.5	1687.5	1719.0	1805.5
67°	1511.0	1509.0	1528.0	1548.0	1579.0	1594.5	1588.5	1676.0	1719.0	1769.0	1857.5
67.5°	1489.5	1485.5	1506.0	1532.0	1564.0	1583.0	1578.5	1669.0	1714.0	1768.5	1855.0
70°	1349.0	1335.0	1361.0	1396.0	1425.0	1468.5	1470.5	1556.5	1619.0	1677.5	1758.0
72.5°	1169.0	1150.5	1174.0	1200.5	1222.0	1272.5	1275.5	1331.5	1395.5	1443.0	1517.5
75°	928.0	904.0	926.0	939.0	947.0	988.0	991.5	1040.5	1087.5	1124.0	1181.5
77.5°	574.0	558.0	576.0	597.5	624.5	642.5	652.5	682.5	734.0	775.0	806.0
80°	287.5	299.0	318.0	347.0	369.5	401.0	414.0	416.0	437.5	434.5	454.0
82.5°	200.0	212.5	239.5	258.0	265.0	275.0	291.0	286.0	271.5	269.0	267.0
85°	51.0	79.5	146.0	177.0	184.0	194.5	209.0	217.5	195.0	176.5	180.0
87.5°	14.0	17.0	50.0	74.0	80.0	59.0	76.5	91.5	59.5	39.5	41.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2.5°	81.0	72.0	68.0	62.0	60.5	60.0	59.0	59.0	58.5	58.5	58.5
5°	75.0	83.0	90.0	92.0	88.0	65.5	63.5	60.0	59.5	59.5	60.0
7.5°	73.5	74.5	75.0	72.0	84.0	84.5	61.0	60.0	60.0	60.0	60.5
10°	107.0	79.5	100.0	103.5	106.0	123.5	122.0	92.5	89.0	91.0	94.0
12.5°	144.0	148.0	132.0	107.0	109.5	110.5	124.0	96.0	90.5	94.0	113.5
15°	147.5	147.0	154.0	172.5	150.0	145.5	155.0	133.0	132.0	124.0	145.0
17.5°	209.0	179.0	174.0	175.5	160.5	153.5	142.5	154.5	140.0	136.0	133.0
20°	217.0	199.0	190.0	221.5	241.0	220.5	209.5	213.0	200.5	193.0	191.5
22.5°	236.0	257.0	265.5	245.5	245.5	242.5	264.5	248.5	241.5	233.5	230.0
25°	307.5	273.5	300.0	321.5	311.0	303.0	286.5	292.0	269.5	269.0	259.0
27.5°	336.5	356.5	347.0	349.0	332.5	358.0	347.0	335.0	314.0	310.0	315.0
30°	411.0	390.5	399.5	406.5	399.0	397.5	386.0	369.0	354.0	343.0	341.5
32.5°	441.5	455.5	451.5	443.0	468.0	475.5	468.5	428.5	415.0	386.5	386.5
35°	502.0	495.0	530.0	521.5	511.5	502.0	495.5	468.0	438.5	408.5	400.5
37.5°	568.5	576.0	575.0	558.5	541.5	524.0	517.0	490.5	457.5	430.5	394.5
40°	637.0	623.0	616.0	601.5	570.5	555.0	544.5	529.5	479.0	448.5	396.0
42.5°	701.0	691.5	658.5	637.0	614.5	592.0	562.5	550.5	499.5	460.5	391.0
45°	760.0	743.5	708.0	680.5	643.5	625.5	584.0	561.5	522.0	461.5	377.5
47.5°	809.5	792.5	756.5	710.0	676.0	650.0	611.0	591.5	543.5	473.0	377.5
50°	857.5	838.0	799.0	733.5	703.0	659.5	638.5	611.0	570.5	490.0	389.0
52.5°	910.0	886.5	840.0	765.5	730.5	688.0	665.5	642.5	605.5	513.5	408.0
55°	975.0	947.0	886.5	814.5	764.5	726.0	704.5	680.5	642.0	540.5	431.5
57.5°	1068.5	1029.0	957.5	891.5	830.5	797.5	767.0	734.0	700.5	588.0	470.0
60°	1228.5	1185.5	1093.5	1034.0	967.5	923.5	875.0	849.0	797.5	678.5	533.5
62.5°	1494.5	1439.5	1352.5	1240.5	1145.5	1056.0	1005.5	968.0	891.5	758.0	615.0
65°	1692.0	1615.5	1499.0	1354.5	1240.5	1107.0	1058.0	981.0	889.5	763.5	638.5
67°	1737.5	1663.0	1513.0	1349.0	1223.0	1087.5	1020.5	939.5	834.0	727.0	616.0
67.5°	1736.5	1663.5	1505.5	1339.5	1213.0	1077.5	1005.5	923.0	815.5	715.5	609.0
70°	1637.0	1578.0	1407.5	1240.0	1108.0	982.5	888.0	810.5	708.5	629.0	536.5
72.5°	1393.5	1357.5	1201.0	1049.0	927.0	822.0	750.0	673.0	581.0	519.5	452.5
75°	1088.0	1037.0	885.5	767.0	668.5	598.5	541.0	472.0	399.5	364.0	338.5
77.5°	725.0	675.0	533.5	417.0	347.0	288.0	244.0	195.0	151.5	155.5	167.5
80°	394.0	354.0	255.0	184.0	150.0	121.5	102.0	78.0	57.0	68.5	78.0
82.5°	239.5	210.0	163.0	127.5	104.5	88.5	72.0	53.5	41.0	46.5	56.5
85°	166.5	147.0	116.5	91.5	74.5	59.5	46.5	34.5	32.5	35.5	40.5
87.5°	55.5	69.0	52.5	42.5	41.0	37.0	31.0	25.0	19.5	24.5	31.5
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°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2.5°	59.0	59.5	62.0	63.5	63.5	62.0	72.0	71.0	86.5	87.5	91.5
5°	64.0	64.5	84.0	91.0	91.5	79.0	61.5	59.0	58.0	57.5	59.0
7.5°	72.5	84.5	76.5	55.0	57.0	57.0	58.0	57.5	58.0	68.5	94.0
10°	121.5	91.0	86.0	73.5	59.5	64.0	92.5	93.0	94.5	98.5	99.0
12.5°	107.0	93.5	88.0	88.5	122.0	131.0	126.5	96.5	98.0	100.5	117.5
15°	124.0	122.5	129.5	128.0	124.5	132.5	131.0	156.5	161.0	137.5	138.0
17.5°	127.0	128.0	157.5	161.5	158.5	173.5	164.0	162.0	165.5	163.0	155.0
20°	191.5	213.0	206.5	174.0	179.5	199.0	194.0	166.5	190.5	192.5	178.5
22.5°	200.5	219.5	225.5	244.0	243.0	204.0	210.0	219.5	199.5	190.5	208.0
25°	269.0	287.5	297.0	270.5	245.0	266.5	255.0	218.5	227.5	212.5	212.5
27.5°	334.5	307.5	316.5	304.5	312.5	269.0	256.0	271.0	225.5	229.5	234.0
30°	349.0	342.5	349.0	334.5	313.5	306.0	278.0	265.5	269.0	235.5	232.5
32.5°	373.5	362.0	350.0	324.0	321.0	298.5	279.0	274.0	249.0	236.5	234.5
35°	370.5	344.0	335.5	319.0	295.5	277.5	258.5	244.5	226.0	222.5	220.0
37.5°	361.0	320.0	296.5	280.5	260.5	243.5	216.5	207.0	200.5	194.0	191.0
40°	346.5	295.0	255.5	231.0	210.5	192.5	175.0	166.0	161.5	164.0	167.0
42.5°	321.0	266.0	211.5	183.5	162.0	147.5	136.0	132.0	130.5	133.0	138.0
45°	301.0	229.5	170.5	138.5	120.5	111.0	103.0	100.0	102.0	104.0	106.5
47.5°	292.0	201.5	136.5	104.5	90.5	85.5	80.5	78.0	79.0	80.5	82.5
50°	289.5	185.5	114.0	82.5	73.0	68.0	64.5	63.5	64.0	63.5	64.5
52.5°	290.0	185.5	103.5	72.5	64.0	60.0	57.0	56.0	54.5	54.0	54.5
55°	300.5	190.5	101.0	70.5	62.5	58.0	55.0	54.5	52.5	51.0	50.5
57.5°	332.5	208.5	107.0	74.5	65.0	61.0	58.0	57.5	55.5	53.0	52.0
60°	396.0	248.0	123.0	83.5	71.5	68.0	66.0	65.5	62.5	59.0	56.0
62.5°	462.5	291.5	142.5	93.0	79.0	78.0	78.5	77.5	73.5	66.0	60.5
65°	492.0	308.5	150.0	94.0	79.0	81.0	82.5	83.0	76.5	67.5	60.5
67°	483.0	296.5	142.5	88.0	74.0	76.0	76.5	77.0	70.5	63.0	56.5
67.5°	478.5	291.5	140.0	87.0	73.5	75.0	74.5	74.5	68.5	62.0	55.5
70°	432.0	257.5	123.5	80.5	68.5	66.5	62.5	62.5	58.0	54.5	51.0
72.5°	366.5	218.5	107.5	76.5	65.0	59.5	55.0	54.5	51.5	50.0	48.0
75°	280.0	170.0	94.5	72.5	61.5	55.0	50.0	50.5	47.5	47.0	46.0
77.5°	166.5	115.5	82.0	67.5	58.5	52.0	46.5	47.5	44.0	43.5	43.5
80°	83.0	77.0	68.0	58.5	51.0	46.0	40.5	40.5	38.0	37.5	39.0
82.5°	62.5	58.0	50.5	44.5	40.0	34.5	27.0	30.0	30.0	31.0	32.0
85°	46.5	41.5	36.0	31.5	29.0	26.0	21.0	23.0	23.5	25.5	26.5
87.5°	35.0	29.5	25.0	23.0	22.0	20.0	15.5	18.5	19.0	19.0	20.0
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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CATALOG NUMBER: UTLD-E01-LED-E-U-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	58.5	58.5	58.5	58.5	58.5
2.5°	92.0	91.0	90.0	89.5	89.5
5°	58.0	56.5	56.5	56.5	56.0
7.5°	96.5	98.0	97.5	97.5	97.0
10°	99.0	98.5	99.0	98.5	99.0
12.5°	135.0	139.0	141.5	142.5	141.5
15°	142.5	142.0	142.5	143.0	142.5
17.5°	172.0	176.5	177.5	177.0	177.0
20°	169.5	173.5	174.0	176.5	174.0
22.5°	199.5	198.5	201.0	200.0	199.0
25°	209.5	200.5	222.5	224.0	222.5
27.5°	233.0	218.0	220.0	220.0	218.0
30°	242.0	235.5	237.0	239.0	238.5
32.5°	224.0	226.5	245.0	248.5	248.0
35°	220.5	224.0	221.5	224.5	234.5
37.5°	207.0	209.0	213.0	216.5	217.0
40°	180.5	188.5	194.5	197.0	199.0
42.5°	144.0	152.5	158.0	160.5	158.5
45°	112.0	117.5	122.0	123.5	122.0
47.5°	86.0	88.0	89.5	90.0	91.5
50°	66.0	66.0	66.5	65.5	65.5
52.5°	55.5	54.0	54.0	53.0	53.0
55°	50.5	49.5	49.0	48.0	48.0
57.5°	50.5	48.5	47.0	45.5	45.5
60°	52.5	49.0	46.0	44.5	44.0
62.5°	54.5	50.0	46.0	44.0	43.5
65°	53.5	49.5	46.0	44.0	43.5
67°	51.5	48.5	46.0	44.0	44.0
67.5°	51.0	48.5	46.0	44.0	43.5
70°	49.0	48.0	45.5	43.5	43.0
72.5°	47.0	46.0	43.5	41.5	41.0
75°	45.0	43.5	41.5	40.0	39.5
77.5°	42.5	40.5	38.5	36.5	35.5
80°	38.5	36.0	33.5	32.0	30.0
82.5°	32.5	32.0	29.0	27.0	25.0
85°	27.0	26.5	24.5	22.0	19.5
87.5°	20.5	21.0	19.5	17.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

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