

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: P179346

Luminaire Tested: **UTLD-F03-LED-E-U-T2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179346
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34326)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F03-LED-E-U-T2-HSS-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658.8 lumens
Efficiency: N/A
Efficacy: 46.7 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 - G1

Input Watts (W): 78.3
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

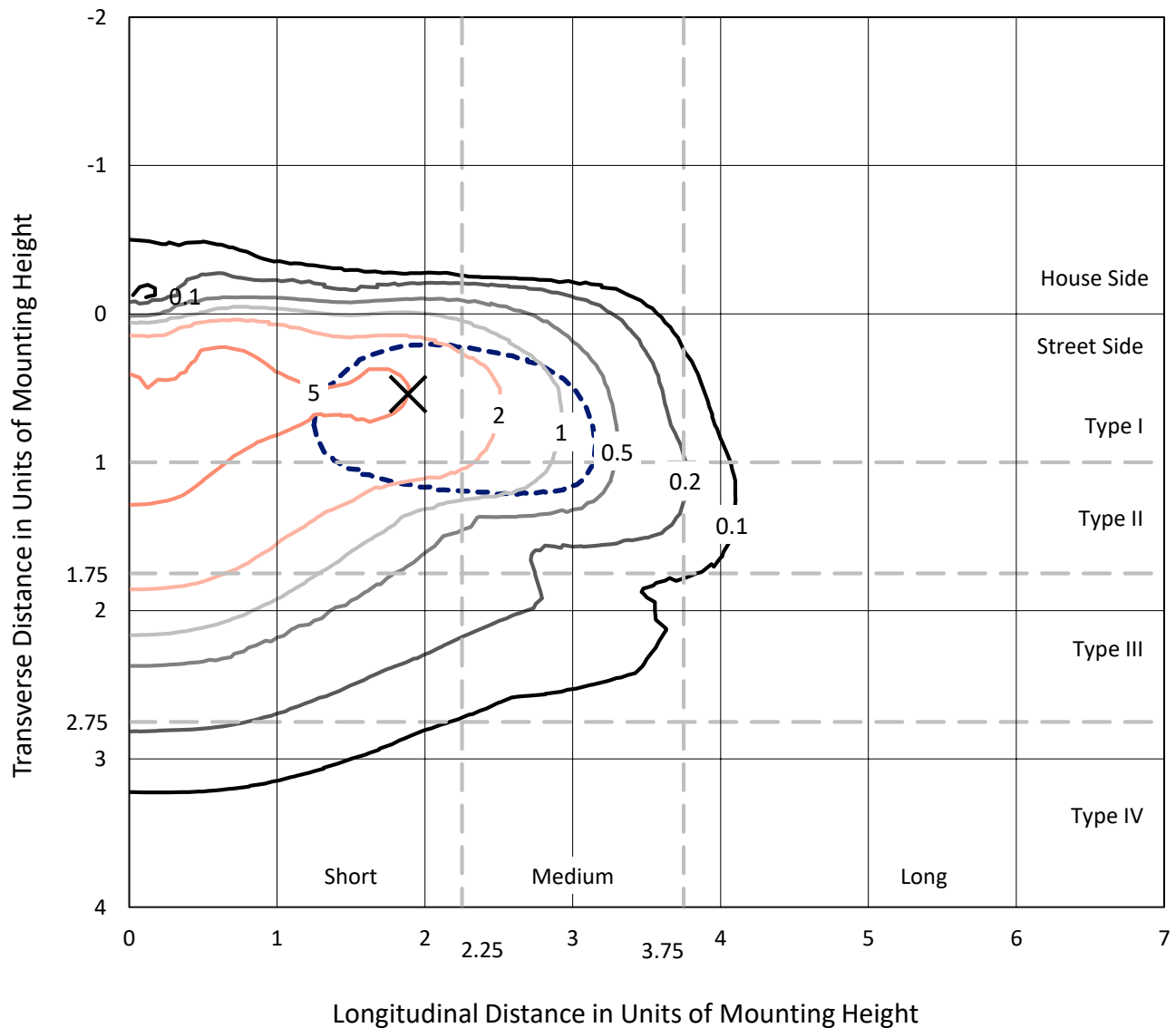


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

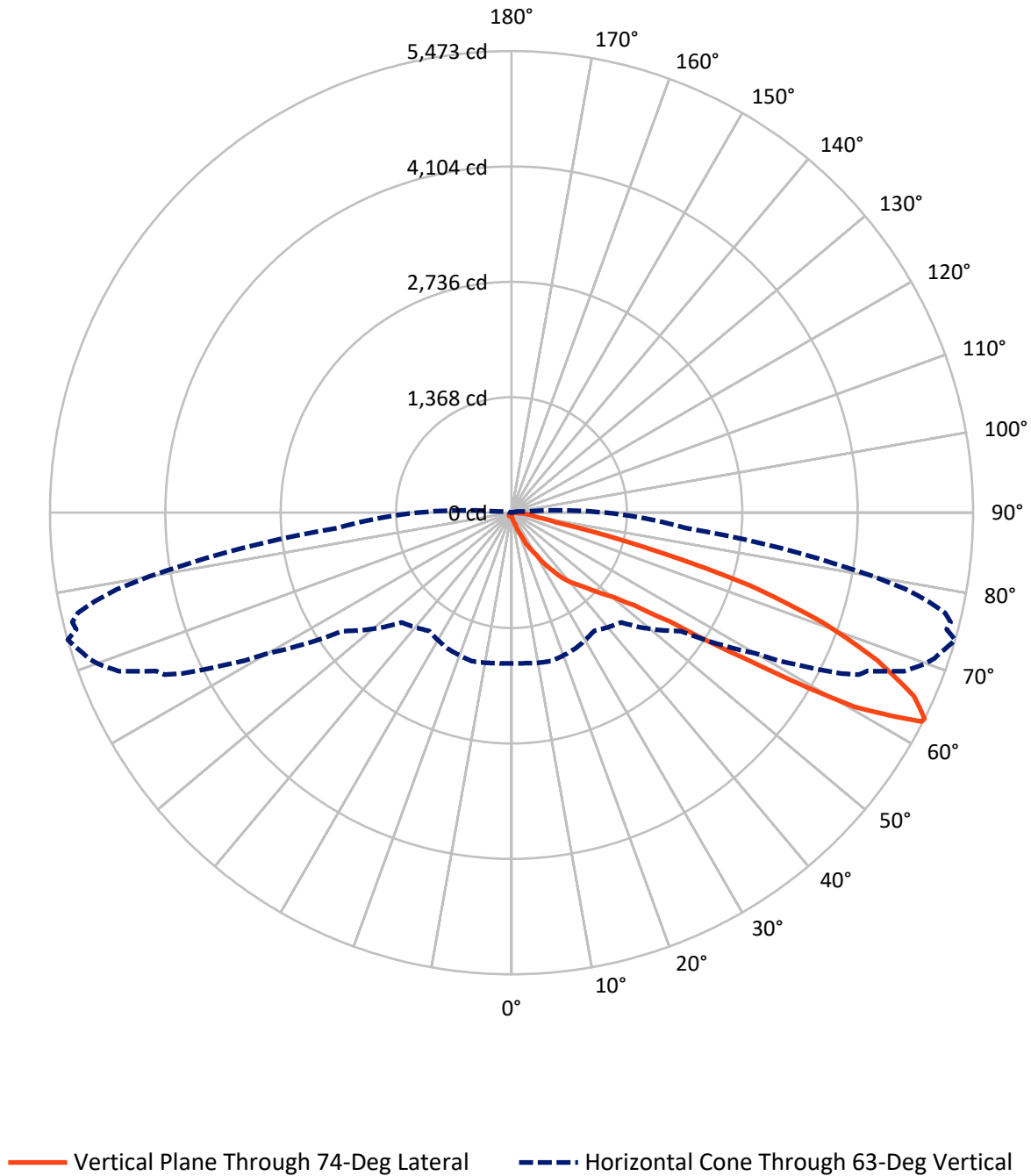


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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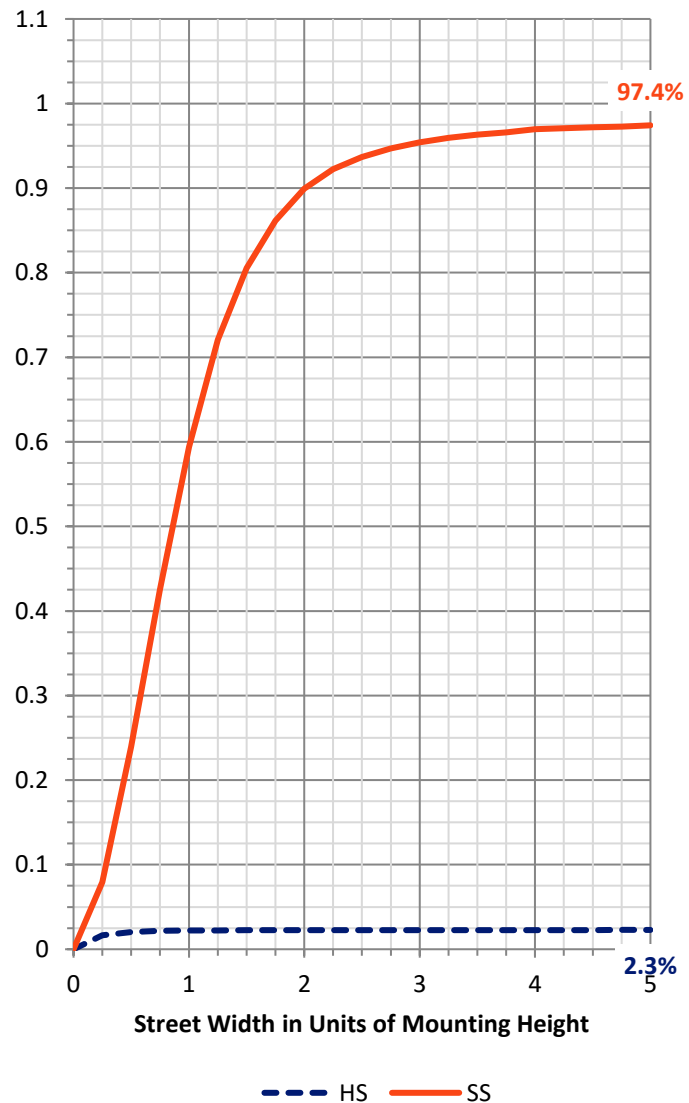
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	84.9	0.0	84.9
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3573.8	0.0	3573.8
	% Fixture	97.7	0.0	97.7
Total	Lumens	3658.8	0.0	3658.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.2
10°-20°	42.1	1.2
20°-30°	136.6	3.7
30°-40°	326.3	8.9
40°-50°	612.9	16.8
50°-60°	963.3	26.3
60°-70°	1131.6	30.9
70°-80°	388.5	10.6
80°-90°	51.5	1.4
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°	3658.8	100.0
0°-180°	3658.8	100.0

Coefficient of Utilization



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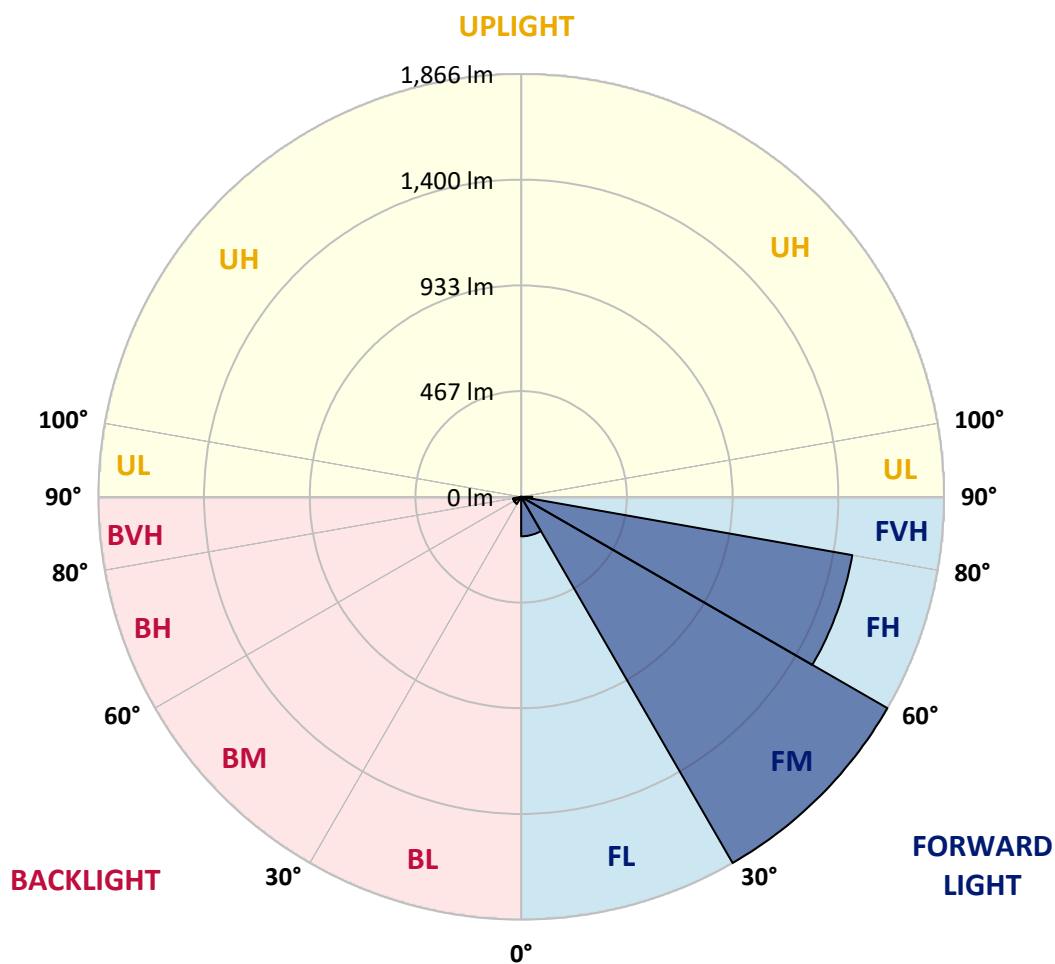
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.3	4.8			
FM	(30°-60°)	1866.2	51.0			
FH	(60°-80°)	1484.1	40.6			G1/1800
FVH	(80°-90°)	49.2	1.3			G1/100
BL	(0°-30°)	10.4	0.3	B0/110		
BM	(30°-60°)	36.3	1.0	B0/220		
BH	(60°-80°)	35.9	1.0	B0/110		G0/110
BVH	(80°-90°)	2.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
2.5°	69.9	68.6	66.1	63.5	62.3	59.7	58.4	55.9	55.9	54.6	55.9
5°	101.6	96.6	91.5	87.7	83.9	80.0	72.4	67.3	66.1	66.1	63.5
7.5°	191.9	184.2	179.2	171.5	157.6	119.4	88.9	82.6	81.3	80.0	77.5
10°	218.5	217.3	214.7	205.8	194.4	174.1	153.7	105.5	102.9	99.1	100.4
12.5°	313.8	310.0	312.6	296.1	271.9	222.4	202.0	180.4	175.3	171.5	157.6
15°	429.5	423.1	341.8	330.4	308.8	306.2	232.5	208.4	203.3	194.4	185.5
17.5°	454.9	458.7	452.3	425.7	378.6	339.3	331.6	264.3	256.7	252.9	242.7
20°	585.8	585.8	560.3	462.5	463.8	424.4	383.7	336.7	303.7	296.1	306.2
22.5°	604.8	607.4	599.7	607.4	498.1	501.9	505.7	477.8	466.3	452.3	434.5
25°	707.7	711.5	693.8	622.6	644.2	583.2	585.8	550.2	532.4	561.6	556.5
27.5°	804.3	806.8	705.2	703.9	681.0	702.6	733.1	701.4	692.5	679.8	655.6
30°	846.2	851.3	819.5	850.0	810.7	764.9	804.3	850.0	841.1	819.5	825.9
32.5°	1027.9	1030.5	1012.7	914.8	912.3	913.6	972.0	940.3	928.8	903.4	907.2
35°	1251.6	1250.3	1110.5	1087.6	1024.1	1063.5	1066.0	1096.5	1057.2	1085.1	1058.4
37.5°	1430.7	1423.1	1331.6	1307.5	1223.6	1189.3	1213.4	1191.8	1165.2	1188.0	1179.1
40°	1588.3	1595.9	1554.0	1457.4	1409.1	1358.3	1351.9	1292.2	1317.6	1298.6	1296.0
42.5°	1712.8	1725.5	1700.1	1607.3	1540.0	1531.1	1504.4	1430.7	1471.4	1435.8	1440.9
45°	1866.5	1862.7	1815.7	1719.1	1673.4	1684.8	1701.4	1644.2	1646.7	1634.0	1604.8
47.5°	2012.7	2011.4	1982.2	1846.2	1789.0	1818.2	1913.5	1900.8	1853.8	1872.9	1805.5
50°	2137.2	2138.4	2104.1	1952.9	1880.5	1949.1	2134.6	2149.9	2127.0	2133.4	2054.6
52.5°	2180.4	2182.9	2167.7	2013.9	1939.0	2043.1	2313.8	2392.6	2415.4	2421.8	2335.4
55°	2137.2	2146.1	2142.3	2008.8	1937.7	2085.1	2470.1	2630.2	2689.9	2722.9	2670.8
57.5°	2055.9	2063.5	2078.7	1994.9	1925.0	2099.1	2608.6	2955.4	3062.2	3130.8	3148.6
60°	1960.6	1969.5	2015.2	1979.6	1905.9	2074.9	2682.3	3249.0	3439.6	3590.8	3829.6
62.5°	1831.0	1839.8	1878.0	1842.4	1763.6	1905.9	2517.1	3330.3	3595.8	3811.8	4256.6
63°	1786.5	1791.6	1820.8	1780.1	1709.0	1839.8	2445.9	3335.4	3617.4	3843.6	4346.8
65°	1405.3	1415.5	1448.5	1405.3	1390.1	1520.9	2040.6	3171.5	3560.3	3805.5	4424.3
67.5°	767.5	780.2	829.7	810.7	898.3	1045.7	1353.2	2315.1	2847.4	3195.6	3900.8
70°	557.8	557.8	599.7	612.4	655.6	770.0	893.2	1176.6	1486.6	1891.9	2792.8
72.5°	405.3	414.2	449.8	485.4	547.6	686.1	880.5	683.6	703.9	829.7	1470.1
75°	202.0	219.8	259.2	301.1	365.9	522.2	932.6	709.0	644.2	627.7	750.9
77.5°	47.0	48.3	78.8	155.0	186.8	299.9	738.2	866.6	780.2	738.2	660.7
80°	24.1	25.4	31.8	77.5	85.1	108.0	387.5	914.8	925.0	899.6	742.0
82.5°	12.7	12.7	19.1	33.0	33.0	38.1	110.5	556.5	771.3	875.5	856.4
85°	5.1	5.1	11.4	16.5	17.8	16.5	30.5	218.5	386.3	501.9	672.2
87.5°	1.3	1.3	3.8	6.4	7.6	8.9	14.0	40.7	67.3	92.8	155.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
2.5°	54.6	54.6	54.6	53.4	53.4	53.4	53.4	52.1	52.1	52.1	48.3
5°	62.3	62.3	61.0	59.7	59.7	58.4	58.4	58.4	57.2	57.2	55.9
7.5°	76.2	75.0	73.7	71.2	69.9	68.6	68.6	66.1	64.8	63.5	62.3
10°	100.4	99.1	95.3	92.8	90.2	87.7	85.1	83.9	81.3	80.0	77.5
12.5°	137.2	119.4	115.6	111.8	106.7	102.9	100.4	97.8	96.6	92.8	94.0
15°	198.2	194.4	190.6	188.1	181.7	153.7	142.3	139.8	134.7	130.9	125.8
17.5°	240.1	236.3	227.4	213.5	210.9	205.8	199.5	193.1	162.6	147.4	142.3
20°	311.3	304.9	313.8	311.3	301.1	291.0	279.5	273.2	265.6	251.6	228.7
22.5°	390.1	390.1	378.6	371.0	358.3	341.8	340.5	326.5	299.9	289.7	285.9
25°	556.5	564.2	541.3	512.1	509.5	494.3	457.4	438.4	425.7	411.7	405.3
27.5°	660.7	636.6	615.0	613.7	598.5	551.4	531.1	521.0	527.3	494.3	473.9
30°	799.2	781.4	776.3	753.5	725.5	691.2	684.9	670.9	635.3	588.3	561.6
32.5°	894.5	903.4	919.9	894.5	861.5	852.6	848.8	810.7	762.4	730.6	700.1
35°	1073.7	1061.0	1036.8	997.4	987.3	987.3	959.3	902.1	867.8	847.5	839.9
37.5°	1176.6	1157.5	1122.0	1102.9	1108.0	1099.1	1034.3	1002.5	987.3	982.2	932.6
40°	1287.1	1250.3	1218.5	1223.6	1235.0	1171.5	1135.9	1118.1	1123.2	1082.6	1020.3
42.5°	1411.7	1363.4	1346.9	1376.1	1316.4	1269.3	1241.4	1251.6	1230.0	1171.5	1130.8
45°	1555.2	1506.9	1517.1	1508.2	1434.5	1391.3	1395.1	1373.5	1332.9	1288.4	1249.0
47.5°	1726.8	1702.6	1733.1	1644.2	1580.6	1566.7	1557.8	1514.6	1461.2	1425.6	1388.8
50°	1980.9	1993.6	1965.6	1860.2	1801.7	1797.9	1747.1	1683.6	1640.4	1580.6	1523.5
52.5°	2318.9	2355.7	2271.9	2188.0	2152.4	2125.7	2041.9	1969.5	1897.0	1824.6	1739.5
55°	2683.5	2756.0	2661.9	2623.8	2612.4	2628.9	2529.8	2456.1	2367.2	2266.8	2162.6
57.5°	3293.4	3312.5	3250.2	3303.6	3345.5	3351.9	3377.3	3322.7	3288.3	3259.1	3157.5
60°	4076.1	4109.2	4167.6	4355.7	4431.9	4539.9	4566.6	4637.7	4653.0	4678.4	4595.8
62.5°	4492.9	4565.3	4752.1	4973.2	5069.7	5172.7	5255.3	5320.1	5370.9	5453.5	5309.9
63°	4542.4	4616.1	4813.1	5020.2	5121.8	5227.3	5304.8	5355.6	5414.1	5472.5	5341.7
65°	4534.8	4616.1	4866.4	4977.0	5086.3	5144.7	5214.6	5218.4	5326.4	5243.8	5229.8
67.5°	4021.5	4236.2	4411.6	4531.0	4623.8	4669.5	4698.7	4734.3	4806.7	4677.1	4749.6
70°	3154.9	3429.4	3585.7	3733.1	3852.5	3886.8	3912.2	4024.0	3924.9	3936.4	3916.0
72.5°	1795.4	2221.0	2486.6	2645.4	2842.4	2877.9	2937.7	3031.7	2904.6	2969.4	2912.2
75°	963.1	1129.6	1360.8	1523.5	1602.2	1678.5	1752.2	1696.3	1660.7	1583.2	1567.9
77.5°	693.8	711.5	730.6	716.6	696.3	691.2	659.4	598.5	581.9	533.7	509.5
80°	695.0	629.0	552.7	456.2	354.5	308.8	289.7	283.3	283.3	283.3	266.8
82.5°	786.5	703.9	606.1	485.4	376.1	296.1	245.2	237.6	232.5	232.5	217.3
85°	639.1	630.2	559.1	447.3	350.7	265.6	205.8	167.7	153.7	137.2	130.9
87.5°	155.0	161.4	141.0	123.2	102.9	81.3	71.2	57.2	48.3	44.5	41.9
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°	85°	95°	105°	115°	125°	135°
0°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
2.5°	48.3	47.0	45.7	45.7	44.5	38.1	33.0	29.2	26.7	25.4	24.1
5°	55.9	54.6	54.6	53.4	53.4	43.2	29.2	25.4	22.9	20.3	20.3
7.5°	61.0	59.7	59.7	58.4	57.2	52.1	29.2	24.1	19.1	20.3	10.2
10°	76.2	75.0	72.4	71.2	69.9	66.1	35.6	25.4	22.9	8.9	7.6
12.5°	92.8	88.9	86.4	83.9	78.8	67.3	35.6	26.7	14.0	11.4	12.7
15°	119.4	114.4	109.3	105.5	101.6	87.7	47.0	33.0	15.2	14.0	14.0
17.5°	136.0	129.6	124.5	123.2	120.7	87.7	45.7	22.9	17.8	17.8	14.0
20°	208.4	207.1	195.7	181.7	169.0	129.6	62.3	29.2	24.1	17.8	17.8
22.5°	273.2	240.1	223.6	203.3	191.9	155.0	63.5	31.8	28.0	21.6	16.5
25°	373.6	338.0	318.9	291.0	280.8	194.4	69.9	40.7	31.8	22.9	19.1
27.5°	454.9	429.5	418.0	404.1	369.7	241.4	81.3	43.2	31.8	25.4	19.1
30°	529.8	531.1	496.8	453.6	419.3	288.4	86.4	47.0	33.0	24.1	19.1
32.5°	696.3	655.6	597.2	559.1	523.5	331.6	94.0	50.8	31.8	24.1	19.1
35°	792.9	730.6	697.6	663.3	617.5	395.2	102.9	49.6	31.8	22.9	17.8
37.5°	871.6	824.6	791.6	742.0	693.8	443.4	108.0	45.7	30.5	21.6	15.2
40°	970.7	937.7	878.0	834.8	785.2	463.8	111.8	41.9	28.0	19.1	12.7
42.5°	1086.4	1038.1	982.2	941.5	857.7	527.3	123.2	39.4	25.4	16.5	11.4
45°	1207.1	1144.8	1109.2	1024.1	926.3	573.0	132.1	38.1	22.9	14.0	8.9
47.5°	1320.2	1282.0	1204.5	1096.5	1052.1	644.2	129.6	35.6	20.3	11.4	6.4
50°	1476.5	1424.4	1318.9	1257.9	1185.5	701.4	125.8	34.3	17.8	10.2	5.1
52.5°	1695.0	1584.5	1501.9	1432.0	1310.0	781.4	123.2	31.8	15.2	7.6	2.5
55°	2048.2	1875.4	1773.8	1642.9	1509.5	875.5	116.9	28.0	14.0	6.4	2.5
57.5°	2904.6	2717.8	2499.3	2250.3	2012.7	1095.3	114.4	25.4	11.4	3.8	1.3
60°	4423.0	4301.0	3979.6	3576.8	3240.1	1541.3	123.2	21.6	8.9	2.5	1.3
62.5°	5308.6	5196.8	4968.1	4677.1	4224.8	2008.8	138.5	17.8	6.4	2.5	1.3
63°	5365.8	5275.6	5050.7	4764.8	4356.9	2073.6	146.1	17.8	6.4	2.5	1.3
65°	5259.1	5180.3	5054.5	4832.1	4566.6	2261.7	169.0	16.5	5.1	2.5	1.3
67.5°	4722.9	4639.0	4552.6	4459.9	4270.5	2322.7	185.5	15.2	3.8	2.5	1.3
70°	3905.9	3829.6	3735.6	3694.9	3592.0	2171.5	194.4	14.0	3.8	2.5	1.3
72.5°	2851.3	2763.6	2687.3	2576.8	2479.0	1642.9	143.6	14.0	2.5	2.5	1.3
75°	1448.5	1357.0	1180.4	1097.8	1012.7	688.7	58.4	11.4	2.5	2.5	1.3
77.5°	423.1	379.9	307.5	249.0	189.3	123.2	21.6	7.6	2.5	2.5	1.3
80°	250.3	212.2	175.3	138.5	111.8	59.7	12.7	5.1	2.5	3.8	1.3
82.5°	204.6	183.0	151.2	124.5	97.8	44.5	8.9	5.1	3.8	3.8	1.3
85°	118.2	106.7	90.2	72.4	61.0	31.8	6.4	5.1	3.8	5.1	1.3
87.5°	43.2	39.4	36.8	35.6	33.0	22.9	6.4	6.4	5.1	6.4	1.3
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-F03-LED-E-U-T2-HSS-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	35.6	35.6	35.6	35.6	35.6
2.5°	22.9	24.1	24.1	24.1	24.1
5°	21.6	21.6	19.1	15.2	15.2
7.5°	8.9	10.2	10.2	10.2	10.2
10°	7.6	12.7	14.0	14.0	14.0
12.5°	11.4	11.4	12.7	12.7	14.0
15°	11.4	14.0	15.2	15.2	15.2
17.5°	15.2	12.7	14.0	14.0	15.2
20°	14.0	15.2	15.2	15.2	15.2
22.5°	16.5	15.2	14.0	15.2	15.2
25°	15.2	15.2	14.0	14.0	14.0
27.5°	15.2	14.0	14.0	14.0	14.0
30°	15.2	14.0	12.7	12.7	12.7
32.5°	14.0	12.7	12.7	11.4	11.4
35°	12.7	10.2	11.4	11.4	11.4
37.5°	11.4	8.9	8.9	10.2	8.9
40°	8.9	7.6	6.4	7.6	7.6
42.5°	6.4	5.1	5.1	5.1	5.1
45°	5.1	2.5	2.5	2.5	2.5
47.5°	2.5	1.3	1.3	1.3	1.3
50°	1.3	0.0	0.0	0.0	0.0
52.5°	1.3	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
63°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.3	1.3	1.3	0.0	0.0
75°	1.3	1.3	1.3	1.3	1.3
77.5°	2.5	2.5	2.5	1.3	1.3
80°	3.8	2.5	2.5	1.3	1.3
82.5°	3.8	3.8	3.8	2.5	1.3
85°	5.1	3.8	3.8	3.8	1.3
87.5°	6.4	5.1	5.1	3.8	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)