

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: P598673

Luminaire Tested: **IFLD-L-SA8D-730-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598673  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8D-730-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (128) 3000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

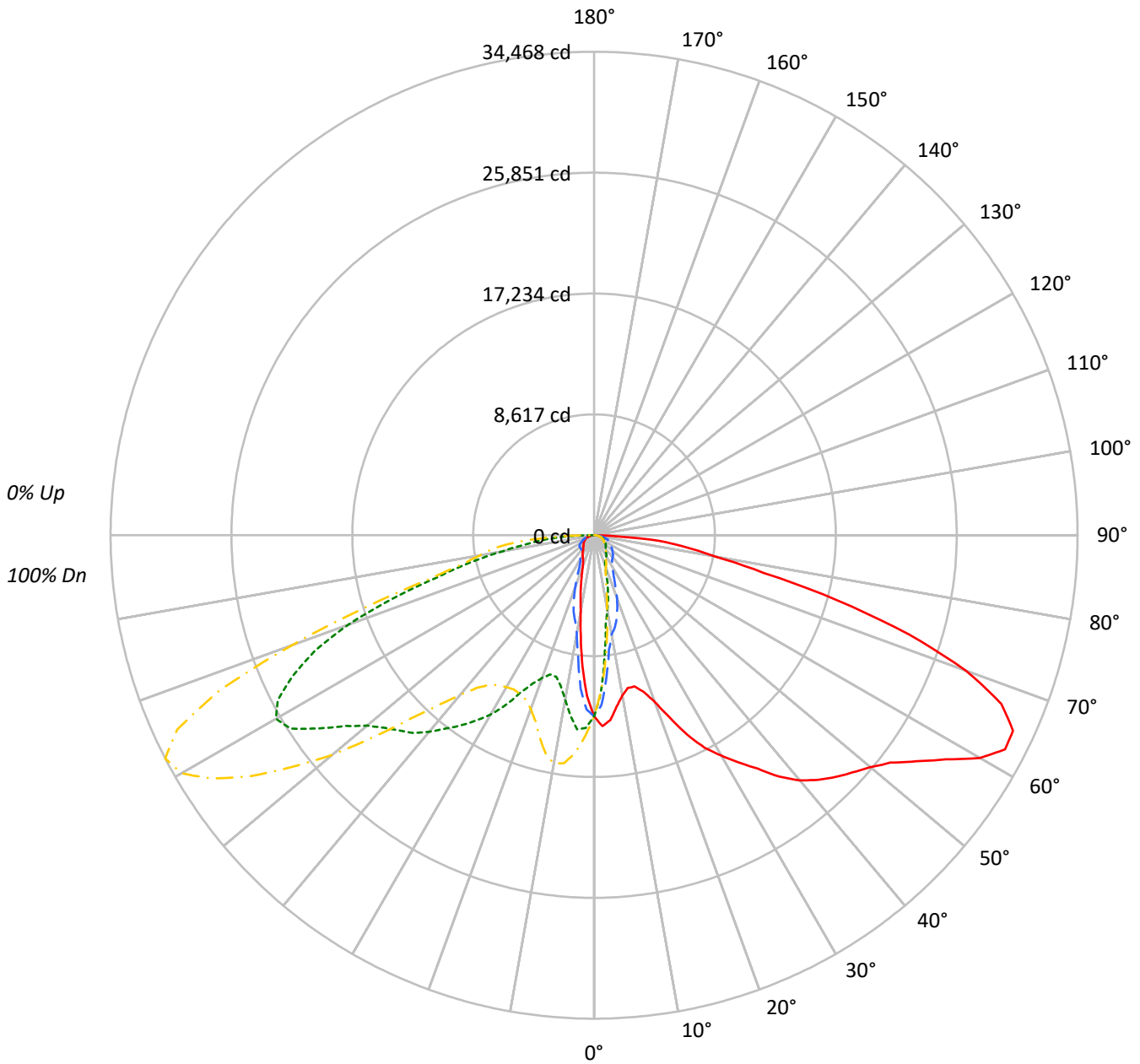
Lumens per Lamp: N/A  
 Luminaire Lumens: 43178.6 lumens  
 Efficiency: N/A  
 Efficacy: 88.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 488.3  
 Input Voltage (V): 120  
 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: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · · - 135°-315°

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20										
RC	80					70					50					30					10					0					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																															
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77													
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59													
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46													
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36													
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30													
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25													
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21													
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18													
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16													
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	69418	69418	69418	69418
5°	71440	46455	50750	75051
10°	63381	29519	29815	64861
15°	62204	20936	19829	58178
20°	72321	13243	13347	61975
25°	93007	11371	11049	73268
30°	112713	10777	10104	91720
35°	133406	9495	9139	108718
40°	160296	9011	8377	128439
45°	185481	8937	8112	149732
50°	215385	9075	8168	176815
55°	263579	9323	8306	225272
60°	341839	9333	8750	281754
65°	419613	9433	8972	301597
70°	444020	9950	9380	293644
75°	373765	10518	9391	239660
80°	271546	12317	9518	207160
85°	287803	17846	7812	215295

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	998.2	2.3
10°-20°	2089.1	4.8
20°-30°	3010.7	7.0
30°-40°	4334.1	10.0
40°-50°	6156.3	14.3
50°-60°	8851.0	20.5
60°-70°	10225.9	23.7
70°-80°	5790.1	13.4
80°-90°	1723.2	4.0
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°-30°	6098.0	14.1
0°-40°	10432.1	24.2
0°-60°	25439.5	58.9
0°-90°	43178.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43178.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12898	12898	12898	12898	12898	
5°	13223	8599	9394	13892	13223	1200
15°	11164	3758	3559	10441	11164	3283
25°	15662	1915	1861	12338	15662	7270
35°	20305	1445	1391	16547	20305	12887
45°	24369	1174	1066	19672	24369	18870
55°	28091	994	885	24008	28091	25440
65°	32950	741	704	23683	32950	31597
75°	17974	506	452	11525	17974	19072
85°	4661	289	126	3486	4661	4642
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	13620.8	13602.8	13494.4	13151.1	12789.9	12446.6	12121.5	11778.2	11597.6	11380.8	11290.5
5°	13223.4	13187.3	12880.2	12121.5	11453.1	10730.5	10116.3	9628.5	9231.1	8833.7	8689.2
7.5°	12320.2	12266.0	11904.7	10856.9	9881.4	8942.1	8201.4	7569.1	7045.3	6810.4	6539.4
10°	11597.6	11507.3	11037.6	9881.4	8616.9	7677.5	7189.8	6756.2	6304.6	5925.2	5527.8
12.5°	11146.0	11037.6	10549.8	9195.0	7966.6	7262.0	6756.2	6268.5	5708.5	5238.8	4805.2
15°	11164.0	11037.6	10441.4	9014.3	7804.0	6900.7	6196.2	5527.8	4877.5	4353.6	3865.9
17.5°	11687.9	11525.3	10893.1	9267.2	7677.5	6431.1	5491.7	4624.6	3883.9	3323.9	2926.5
20°	12627.3	12518.9	11796.3	9646.6	7551.1	5925.2	4769.1	3721.3	2944.6	2511.0	2348.4
22.5°	14036.3	13909.9	13133.1	10224.7	7514.9	5473.6	3992.3	2926.5	2366.5	2185.8	2095.5
25°	15662.1	15427.3	14704.7	11200.2	7587.2	5058.1	3360.0	2420.7	2113.6	1987.1	1932.9
27.5°	17071.2	16926.7	16113.8	12121.5	7623.3	4733.0	2926.5	2203.9	1969.1	1860.7	1824.5
30°	18137.0	18082.8	17288.0	13133.1	7533.0	4335.5	2655.5	2113.6	1969.1	1860.7	1752.3
32.5°	19202.8	19220.9	18371.9	13909.9	7406.6	3992.3	2402.6	1878.7	1734.2	1662.0	1680.0
35°	20304.8	20395.1	19672.5	14668.6	7135.6	3865.9	2222.0	1752.3	1625.8	1517.4	1463.2
37.5°	21695.8	21930.6	21226.1	15517.6	6864.6	3757.5	2131.6	1662.0	1535.5	1445.2	1372.9
40°	22815.8	23249.3	22833.9	16312.5	6684.0	3631.0	2059.4	1571.6	1481.3	1372.9	1318.7
42.5°	23646.8	24152.6	24008.1	16926.7	6684.0	3504.6	1987.1	1517.4	1445.2	1318.7	1246.5
45°	24369.4	24893.2	24875.2	17558.9	6828.5	3432.3	1896.8	1517.4	1409.1	1282.6	1210.3
47.5°	25019.7	25543.6	25724.2	18353.8	7063.3	3396.2	1788.4	1481.3	1409.1	1264.5	1156.1
50°	25724.2	26302.3	26844.2	19618.3	7352.4	3305.9	1716.2	1427.1	1427.1	1246.5	1120.0
52.5°	26627.5	27277.8	28271.4	21190.0	7641.4	3143.3	1607.8	1391.0	1427.1	1228.4	1083.9
55°	28090.7	28632.6	29933.3	23068.7	8002.7	2944.6	1517.4	1300.7	1354.9	1174.2	1029.7
57.5°	29734.6	30204.3	31288.2	24513.9	8111.1	2691.6	1391.0	1210.3	1300.7	1120.0	957.4
60°	31757.9	31992.7	31992.7	24929.4	7749.8	2456.8	1300.7	1138.1	1174.2	1065.8	903.2
62.5°	33040.4	33040.4	31992.7	24170.7	7063.3	2258.1	1228.4	1065.8	1029.7	993.6	849.0
65°	32950.1	32805.6	31252.0	21966.8	6268.5	2131.6	1156.1	975.5	921.3	903.2	794.8
67.5°	31432.7	31179.8	29066.2	18859.6	5437.5	2077.4	1083.9	885.2	849.0	812.9	722.6
70°	28217.2	27566.8	24965.5	15174.4	4624.6	2041.3	1065.8	812.9	776.8	740.7	668.4
72.5°	23556.4	22725.5	19491.9	11669.8	3883.9	1914.9	1011.6	722.6	704.5	668.4	596.1
75°	17974.4	16438.9	13602.8	8924.0	3016.8	1662.0	867.1	632.3	632.3	614.2	541.9
77.5°	12392.4	11597.6	9484.0	6593.6	2203.9	1282.6	704.5	560.0	560.0	578.1	505.8
80°	8761.4	8020.8	6756.2	4733.0	1391.0	867.1	541.9	469.7	523.9	560.0	469.7
82.5°	6702.0	6160.1	5022.0	3450.4	812.9	596.1	415.5	379.4	451.6	487.7	397.4
85°	4660.7	4010.4	2547.1	2312.3	469.7	361.3	307.1	307.1	397.4	487.7	361.3
87.5°	1318.7	560.0	162.6	686.5	198.7	144.5	108.4	72.3	108.4	108.4	72.3
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	11200.2	11091.8	11091.8	11055.6	11073.7	11091.8	11073.7	11200.2	11254.3	11326.6	11471.1
5°	8598.8	8743.3	8635.0	8743.3	8887.9	9104.6	9158.8	9321.4	9339.5	9465.9	9393.7
7.5°	6376.9	6358.8	6268.5	6394.9	6792.4	7099.5	7244.0	7334.3	7352.4	7352.4	7262.0
10°	5401.4	5238.8	5076.2	4985.9	5022.0	5347.2	5455.6	5509.8	5473.6	5527.8	5455.6
12.5°	4624.6	4480.1	4245.2	4082.6	3974.2	4064.6	4173.0	4227.2	4263.3	4353.6	4425.9
15°	3757.5	3613.0	3468.4	3378.1	3287.8	3215.5	3305.9	3360.0	3450.4	3522.6	3558.8
17.5°	2854.2	2782.0	2709.7	2763.9	2763.9	2727.8	2763.9	2782.0	2818.1	2872.3	2854.2
20°	2312.3	2294.2	2276.2	2366.5	2438.7	2438.7	2474.9	2420.7	2402.6	2348.4	2330.4
22.5°	2059.4	2059.4	2077.4	2149.7	2222.0	2258.1	2258.1	2167.8	2077.4	2041.3	2059.4
25°	1914.9	1914.9	1969.1	1987.1	2023.3	2023.3	2041.3	1951.0	1896.8	1842.6	1860.7
27.5°	1806.5	1806.5	1824.5	1824.5	1842.6	1842.6	1860.7	1824.5	1752.3	1734.2	1734.2
30°	1734.2	1734.2	1716.2	1716.2	1716.2	1716.2	1734.2	1680.0	1643.9	1625.8	1625.8
32.5°	1662.0	1643.9	1625.8	1625.8	1607.8	1607.8	1625.8	1571.6	1553.6	1553.6	1553.6
35°	1445.2	1427.1	1445.2	1481.3	1481.3	1499.4	1499.4	1481.3	1445.2	1409.1	1391.0
37.5°	1354.9	1336.8	1336.8	1336.8	1372.9	1391.0	1409.1	1372.9	1318.7	1264.5	1264.5
40°	1282.6	1282.6	1264.5	1264.5	1264.5	1300.7	1336.8	1282.6	1210.3	1192.3	1192.3
42.5°	1228.4	1210.3	1192.3	1174.2	1156.1	1210.3	1246.5	1174.2	1138.1	1138.1	1138.1
45°	1174.2	1156.1	1138.1	1120.0	1102.0	1120.0	1156.1	1083.9	1065.8	1065.8	1065.8
47.5°	1120.0	1102.0	1065.8	1047.8	1029.7	1029.7	1065.8	1011.6	993.6	1011.6	1011.6
50°	1083.9	1047.8	1011.6	993.6	975.5	975.5	975.5	957.4	957.4	957.4	975.5
52.5°	1047.8	1011.6	957.4	939.4	921.3	921.3	921.3	921.3	903.2	921.3	939.4
55°	993.6	957.4	921.3	903.2	885.2	867.1	885.2	867.1	867.1	885.2	885.2
57.5°	921.3	885.2	849.0	849.0	831.0	831.0	849.0	831.0	831.0	849.0	849.0
60°	867.1	831.0	794.8	794.8	776.8	794.8	812.9	794.8	794.8	794.8	812.9
62.5°	794.8	776.8	740.7	740.7	740.7	740.7	758.7	740.7	758.7	758.7	758.7
65°	740.7	704.5	686.5	686.5	686.5	686.5	722.6	686.5	704.5	704.5	704.5
67.5°	686.5	650.3	632.3	632.3	632.3	632.3	668.4	632.3	650.3	668.4	650.3
70°	632.3	596.1	578.1	578.1	578.1	578.1	596.1	578.1	578.1	596.1	596.1
72.5°	560.0	541.9	523.9	523.9	505.8	523.9	541.9	523.9	523.9	523.9	523.9
75°	505.8	487.7	487.7	469.7	469.7	469.7	487.7	451.6	451.6	451.6	451.6
77.5°	469.7	433.6	433.6	433.6	415.5	433.6	415.5	379.4	379.4	379.4	379.4
80°	397.4	361.3	379.4	379.4	361.3	361.3	343.2	307.1	307.1	307.1	307.1
82.5°	325.2	289.0	307.1	307.1	307.1	307.1	271.0	252.9	234.8	216.8	216.8
85°	289.0	234.8	271.0	271.0	252.9	252.9	180.6	180.6	144.5	144.5	126.5
87.5°	54.2	36.1	72.3	90.3	90.3	108.4	72.3	90.3	54.2	36.1	36.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	11453.1	11651.8	11922.7	12121.5	12428.6	12663.4	13024.7	13331.8	13620.8	13747.3	13873.7
5°	9610.5	9736.9	10152.4	10477.6	10965.3	11489.2	12139.5	12844.0	13566.6	13891.8	14271.2
7.5°	7189.8	7424.6	7659.5	8129.1	8725.3	9574.3	10405.3	11453.1	12464.7	12952.4	13602.8
10°	5582.0	5762.7	6033.6	6521.4	7081.4	7785.9	8779.5	10025.9	11236.3	11868.5	12536.9
12.5°	4480.1	4733.0	5094.3	5600.1	6250.4	6973.0	7695.6	8851.7	10260.8	10983.4	11742.1
15°	3631.0	3829.7	4227.2	4859.4	5618.1	6358.8	7117.5	8074.9	9610.5	10441.4	11344.7
17.5°	2890.4	3034.9	3396.2	4028.4	4787.2	5618.1	6485.2	7695.6	9393.7	10405.3	11471.1
20°	2348.4	2456.8	2691.6	3161.3	3883.9	4787.2	5871.0	7334.3	9520.1	10820.8	12121.5
22.5°	2059.4	2095.5	2203.9	2456.8	3052.9	4010.4	5311.0	7027.2	9755.0	11435.0	13187.3
25°	1860.7	1896.8	1932.9	2095.5	2438.7	3342.0	4823.3	6846.5	10260.8	12338.2	14415.7
27.5°	1734.2	1770.3	1788.4	1860.7	2095.5	2854.2	4407.8	6738.2	10947.2	13657.0	15933.1
30°	1625.8	1625.8	1680.0	1788.4	1951.0	2511.0	4046.5	6485.2	11669.8	14758.9	17125.4
32.5°	1535.5	1553.6	1625.8	1680.0	1788.4	2222.0	3685.2	6160.1	12320.2	15662.1	18299.6
35°	1372.9	1372.9	1391.0	1481.3	1625.8	1987.1	3360.0	5834.9	12681.5	16547.3	19347.4
37.5°	1264.5	1282.6	1318.7	1391.0	1517.4	1824.5	3089.1	5473.6	13060.8	17378.3	20575.8
40°	1192.3	1210.3	1246.5	1318.7	1445.2	1680.0	2854.2	5184.6	13458.2	18281.5	21894.5
42.5°	1138.1	1156.1	1192.3	1264.5	1372.9	1643.9	2601.3	4949.7	13693.1	19112.5	23141.0
45°	1083.9	1102.0	1156.1	1228.4	1318.7	1607.8	2456.8	4787.2	13783.4	19672.5	24134.5
47.5°	1029.7	1047.8	1102.0	1210.3	1318.7	1553.6	2402.6	4696.8	13855.7	20304.8	24929.4
50°	975.5	1011.6	1083.9	1192.3	1336.8	1481.3	2366.5	4678.8	14271.2	21117.7	25688.1
52.5°	939.4	993.6	1065.8	1192.3	1318.7	1372.9	2348.4	4733.0	15102.1	22328.0	26772.0
55°	903.2	957.4	1029.7	1192.3	1264.5	1282.6	2258.1	4823.3	16366.7	24008.1	28307.5
57.5°	867.1	903.2	993.6	1156.1	1192.3	1210.3	2077.4	4949.7	17631.2	25652.0	29879.1
60°	812.9	849.0	939.4	1156.1	1083.9	1138.1	1842.6	4985.9	18534.4	26175.8	30023.6
62.5°	758.7	794.8	885.2	1192.3	993.6	1065.8	1643.9	4859.4	18715.1	25417.1	29210.7
65°	704.5	740.7	812.9	993.6	921.3	993.6	1517.4	4516.2	18119.0	23682.9	27729.4
67.5°	650.3	686.5	740.7	812.9	831.0	903.2	1463.2	3974.2	16619.6	21533.2	25706.2
70°	578.1	614.2	668.4	722.6	740.7	849.0	1372.9	3450.4	14198.9	18660.9	23231.3
72.5°	523.9	541.9	596.1	632.3	668.4	776.8	1318.7	3016.8	10856.9	15102.1	18949.9
75°	451.6	451.6	505.8	541.9	578.1	686.5	1210.3	2511.0	7659.5	11525.3	13927.9
77.5°	379.4	379.4	415.5	451.6	487.7	596.1	1029.7	2041.3	5311.0	9140.8	10098.2
80°	289.0	289.0	325.2	361.3	397.4	505.8	831.0	1499.4	3287.8	6684.0	7352.4
82.5°	198.7	198.7	252.9	271.0	289.0	397.4	632.3	1029.7	1932.9	4823.3	5256.8
85°	108.4	108.4	144.5	162.6	198.7	289.0	469.7	722.6	1156.1	3486.5	3504.6
87.5°	18.1	18.1	54.2	54.2	90.3	144.5	271.0	397.4	650.3	1932.9	1228.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P598673  
 CATALOG NUMBER: IFLD-L-SA8D-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	14108.6	14307.3	14325.4	14325.4	14235.0	14253.1	14000.2	13729.2	13638.9	13620.8
5°	14849.2	15373.1	15517.6	15589.9	15355.0	14993.8	14343.4	13638.9	13277.6	13223.4
7.5°	14704.7	15752.5	16312.5	16384.7	15915.1	15066.0	13927.9	12844.0	12428.6	12320.2
10°	13855.7	15264.7	16276.4	16529.3	16023.4	14939.6	13458.2	12193.7	11687.9	11597.6
12.5°	13259.5	14614.4	15608.0	15951.2	15716.3	14777.0	13223.4	11778.2	11272.4	11146.0
15°	12934.4	14180.8	14831.2	14939.6	14921.5	14524.1	13223.4	11868.5	11308.5	11164.0
17.5°	13205.3	14054.4	14144.7	13891.8	14036.3	14235.0	13512.4	12356.3	11814.4	11687.9
20°	13747.3	14000.2	13566.6	13187.3	13259.5	13891.8	13964.1	13277.6	12844.0	12627.3
22.5°	14885.4	14198.9	13205.3	12681.5	12735.7	13620.8	14560.2	14524.1	14144.7	14036.3
25°	16041.5	14758.9	13097.0	12482.8	12555.0	13566.6	15264.7	15915.1	15716.3	15662.1
27.5°	17324.1	15698.3	13169.2	12392.4	12482.8	13638.9	15752.5	17089.3	17125.4	17071.2
30°	18191.2	16149.9	13386.0	12500.8	12627.3	13819.5	15860.9	17793.8	18119.0	18137.0
32.5°	18913.8	16601.5	13837.6	12681.5	12898.2	14144.7	16149.9	18462.2	19184.8	19202.8
35°	19491.9	17107.3	14397.6	13006.6	13331.8	14686.7	16529.3	19094.5	20178.3	20304.8
37.5°	20232.5	17667.3	15047.9	13711.2	14072.4	15463.4	17197.7	19835.1	21352.5	21695.8
40°	21027.4	18227.3	15987.3	14849.2	15373.1	16619.6	17956.4	20666.1	22346.1	22815.8
42.5°	21912.6	18823.5	17053.1	16384.7	17179.6	18082.8	18823.5	21424.8	23104.8	23646.8
45°	22779.7	19546.1	18606.7	18480.3	19365.4	19817.0	19672.5	21966.8	23827.4	24369.4
47.5°	23393.9	20593.8	20485.4	21244.2	22075.1	21840.3	20666.1	22364.2	24423.6	25019.7
50°	23953.9	21894.5	22851.9	24333.2	24839.0	24044.2	21731.9	22906.1	25055.8	25724.2
52.5°	24784.9	23285.5	25290.7	27133.3	27621.0	26356.5	22888.1	23791.3	26031.3	26627.5
55°	26482.9	24857.1	27837.8	29951.4	30041.7	28470.1	24441.6	25290.7	27404.2	28090.7
57.5°	28379.7	26790.0	29861.1	32281.7	32245.6	30583.6	26193.9	27313.9	29264.9	29734.6
60°	30095.9	28741.0	32065.0	33943.7	33853.4	32119.1	28235.2	29608.1	31396.6	31757.9
62.5°	31107.5	30511.4	33040.4	34467.6	34124.3	32625.0	29969.4	31649.5	32914.0	33040.4
65°	30944.9	31523.0	31902.4	32787.5	32299.8	31215.9	30818.5	32950.1	33076.6	32950.1
67.5°	29716.5	30944.9	28777.2	28867.5	28614.6	27693.3	29499.8	32606.9	31739.8	31432.7
70°	27855.9	27946.2	24062.3	22924.2	23321.6	22057.1	25308.7	29933.3	28596.5	28217.2
72.5°	24766.8	23646.8	18191.2	17035.1	17631.2	16728.0	20304.8	26085.5	24784.9	23556.4
75°	20774.5	18733.2	13855.7	12211.8	12518.9	12482.8	15734.4	21551.3	19202.8	17974.4
77.5°	16095.7	14596.3	10224.7	9592.4	9267.2	9339.5	10983.4	16023.4	13927.9	12392.4
80°	11760.2	10206.6	7912.4	8273.7	8093.0	7659.5	7695.6	10730.5	9682.7	8761.4
82.5°	8129.1	7262.0	6413.0	7244.0	6810.4	6142.0	5997.5	7731.7	7262.0	6702.0
85°	5455.6	5979.4	5094.3	5545.9	4805.2	4425.9	5636.2	6467.2	5220.7	4660.7
87.5°	3558.8	5473.6	3667.1	2782.0	1589.7	2131.6	3450.4	4245.2	2438.7	1318.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)