

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: P599479

Luminaire Tested: **IFLD-L-SA7C-735-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P599479
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7C-735-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (112) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

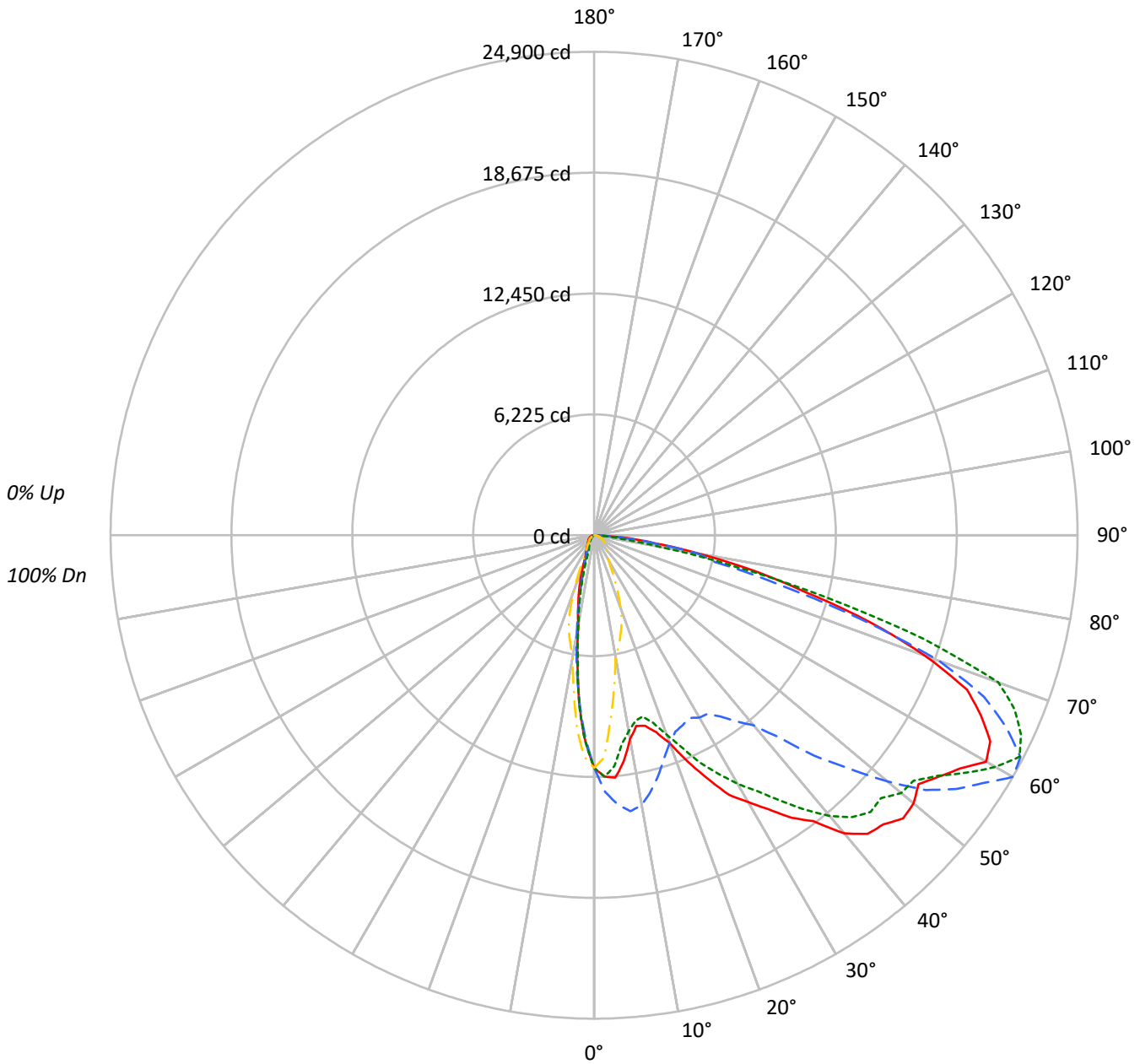
Lumens per Lamp: N/A
 Luminaire Lumens: 31845.6 lumens
 Efficiency: N/A
 Efficacy: 86.3 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 369
 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

TEST NUMBER: P599479
CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	81	81	81	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	63	63	63	61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	50	50	50	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	41	41	41	39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	34	34	34	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	29	29	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	25	25	25	23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	22	22	22	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	20	20	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	64442	64442	64442	64442
5°	67721	64458	47092	47368
10°	58233	56002	25747	25143
15°	56622	53827	16726	12604
20°	65266	62538	8962	4481
25°	82062	76760	5808	3485
30°	98563	91851	4704	2854
35°	116719	109511	3855	2291
40°	140823	132577	3405	1733
45°	160327	153337	3172	1165
50°	179859	172881	3133	712
55°	203397	202679	3112	319
60°	250994	256944	2837	91
65°	280057	308865	2599	0
70°	285568	348597	2409	0
75°	232362	257119	2300	0
80°	168948	107538	2371	0
85°	109225	45159	3149	0

TEST NUMBER: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.6	2.9
10°-20°	1783.8	5.6
20°-30°	2468.4	7.8
30°-40°	3488.5	11.0
40°-50°	4749.7	14.9
50°-60°	6290.7	19.8
60°-70°	7303.9	22.9
70°-80°	4136.3	13.0
80°-90°	714.7	2.2
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°	5161.8	16.2
0°-40°	8650.3	27.2
0°-60°	19690.7	61.8
0°-90°	31845.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31845.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11974	11974	11974	11974	11974	
5°	12535	11931	8717	8768	12535	1126
15°	10162	9661	3002	2262	10162	2981
25°	13819	12926	978	587	13819	6445
35°	17765	16668	587	349	17765	11199
45°	21064	20146	417	153	21064	16331
55°	21677	21600	332	34	21677	19639
65°	21992	24254	204	0	21992	21438
75°	11174	12365	111	0	11174	12196
85°	1769	731	51	0	1769	2125
90°	0	0	0	0	0	

TEST NUMBER: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7
2.5°	12441.4	12705.1	12713.6	12832.6	12951.7	12951.7	13232.3	13164.3	12917.7	12875.1	12696.6
5°	12535.0	12628.5	12696.6	13300.3	13810.6	13759.6	13912.6	13810.6	13334.4	12722.1	12305.4
7.5°	11727.1	11829.1	12101.3	13130.3	13819.1	14048.7	14337.8	13700.0	13198.3	12092.8	11293.4
10°	10655.6	10851.2	11352.9	12526.5	13376.9	14108.2	14108.2	13598.0	12628.5	11548.5	10570.5
12.5°	10060.3	10451.5	10723.6	11914.2	13019.7	13521.4	13504.4	13232.3	12603.0	11242.4	10136.8
15°	10162.3	10272.9	10851.2	11778.1	12509.5	12484.0	12790.1	12705.1	12262.8	11514.5	10298.4
17.5°	10630.1	10800.2	11301.9	11778.1	12126.8	12024.7	12016.2	12424.4	12449.9	11973.7	10902.2
20°	11395.4	11897.2	12135.3	12279.9	11854.7	11420.9	11369.9	11939.7	12381.9	12560.5	11625.0
22.5°	12620.0	12951.7	13436.4	12696.6	11591.0	11046.8	10944.7	11574.0	12466.9	13257.8	12560.5
25°	13819.1	14074.2	14541.9	13589.5	11888.7	10970.2	10791.6	11335.9	12790.1	14227.3	13691.5
27.5°	15086.2	15307.3	15358.3	14244.3	12050.2	10817.2	10604.6	11335.9	13062.2	14737.5	15043.7
30°	15860.1	16123.7	16174.7	14822.6	12313.9	10944.7	10842.7	11386.9	13249.3	15171.2	16013.1
32.5°	16727.5	16795.5	16753.0	14924.6	12603.0	11318.9	10893.7	11727.1	13461.9	15690.0	16897.6
35°	17765.0	17884.0	17450.3	15392.3	13249.3	11557.0	11403.9	12143.8	13827.6	15928.1	17969.1
37.5°	18555.9	18930.0	17952.1	15570.9	13376.9	12058.8	12084.3	13011.2	14082.7	16217.2	19151.1
40°	20044.1	19414.8	18802.5	16183.2	13861.6	12909.2	12773.1	13904.1	14941.6	16404.3	19925.0
42.5°	20860.5	20528.8	19134.1	16242.7	14610.0	14082.7	14116.7	14916.1	15392.3	16931.6	20137.6
45°	21064.5	20715.9	19584.8	16285.3	15349.8	15468.9	16055.7	16208.7	16055.7	17280.2	20537.3
47.5°	21583.3	20826.4	19533.8	16855.0	16548.9	17008.1	17756.5	18088.1	16957.1	17152.7	20724.4
50°	21481.2	21047.5	19423.3	17093.2	18011.6	19227.7	19729.4	19593.3	17960.6	16889.1	20520.3
52.5°	21056.0	20588.3	19763.4	17739.5	19380.7	20851.9	21549.3	21209.1	18853.5	17484.3	20384.2
55°	21676.8	21319.7	20205.6	18615.4	20409.7	22280.6	22773.9	22518.7	19950.5	18037.1	21158.1
57.5°	22348.7	22272.1	21404.7	19644.4	21625.8	23751.8	23751.8	23437.2	20903.0	18836.5	22306.1
60°	23318.1	23488.2	22289.1	20324.7	22042.5	23666.8	24899.9	24534.2	21863.9	20239.7	23607.3
62.5°	23003.5	23547.7	23428.7	21787.4	22518.7	24083.5	24755.3	25027.4	23054.5	21949.0	25342.1
65°	21991.5	22569.8	23420.2	22748.4	22161.6	23071.5	23411.7	24236.6	23649.8	23556.2	26056.4
67.5°	20783.9	21413.2	21940.5	23394.7	21438.7	22042.5	21744.9	22008.5	23003.5	25316.6	26464.6
70°	18147.7	18751.4	19584.8	21957.5	19525.3	18981.1	18904.5	18777.0	20324.7	24687.3	24610.7
72.5°	14924.6	15205.3	16582.9	17850.0	14448.4	14346.3	14465.4	14320.8	16115.2	22348.7	21081.6
75°	11174.3	11455.0	12237.3	13708.5	9839.2	9252.4	9932.7	10604.6	12305.4	17348.3	15145.7
77.5°	8402.0	8759.2	9252.4	10255.9	7219.9	6301.5	6395.1	7032.9	8895.2	13895.6	8487.0
80°	5451.1	5408.6	6361.0	7058.4	5434.1	5604.2	5366.1	5833.8	6446.1	7432.5	4337.1
82.5°	3146.5	3189.0	3588.7	4047.9	3784.3	4328.6	3121.0	5213.0	4600.7	3027.4	1615.8
85°	1768.8	1845.4	2211.1	2806.3	2372.6	1590.3	1301.1	2585.2	2891.4	1241.6	782.4
87.5°	178.6	153.1	297.6	1063.0	646.3	263.6	391.2	620.8	697.3	467.7	229.6
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: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7
2.5°	12441.4	12441.4	12228.8	11871.7	11727.1	11472.0	11123.3	11233.9	11114.8	10681.1	10570.5
5°	11931.2	11523.0	11080.8	10536.5	10221.9	9575.6	9371.5	9005.8	9065.3	8699.6	8716.7
7.5°	10868.2	10545.0	9796.7	9082.3	8461.5	7900.3	7109.4	6811.7	6522.6	6378.0	6548.1
10°	10247.4	9643.6	8623.1	7687.7	6862.8	6361.0	5833.8	5425.6	5051.4	4770.8	4711.2
12.5°	9796.7	9260.9	8027.8	6888.3	6242.0	5833.8	5349.1	4787.8	4422.1	3937.4	3792.8
15°	9660.6	9005.8	7704.7	6573.6	5944.3	5272.5	4719.8	4167.0	3690.8	3180.5	3001.9
17.5°	10128.3	9371.5	7696.2	6318.5	5434.1	4711.2	3945.9	3325.1	2840.4	2372.6	2262.1
20°	10919.2	9762.7	7942.8	6165.4	4949.4	3979.9	3112.5	2491.7	1947.4	1641.3	1564.7
22.5°	11820.6	10426.0	7968.3	5757.2	4464.6	3248.5	2270.6	1641.3	1335.1	1190.6	1148.0
25°	12926.2	11489.0	8274.4	5425.6	3894.9	2466.2	1615.8	1258.6	1080.0	995.0	978.0
27.5°	13836.1	12228.8	8606.1	5076.9	3333.6	1828.4	1267.1	1029.0	935.4	850.4	841.9
30°	14780.0	13079.2	8699.6	4864.3	2848.9	1505.2	1088.5	909.9	807.9	765.4	756.9
32.5°	15604.9	14006.2	8997.3	4515.7	2389.6	1326.6	986.5	816.4	748.4	680.3	671.8
35°	16668.0	14541.9	9141.9	4328.6	2219.6	1199.1	901.4	748.4	646.3	603.8	586.8
37.5°	17807.5	15060.7	9235.4	4184.0	2075.0	1122.5	850.4	705.8	612.3	552.8	535.8
40°	18870.5	15792.0	9099.3	4005.4	1964.4	1029.0	816.4	654.8	569.8	510.2	484.7
42.5°	19686.9	16506.4	9056.8	3835.3	1845.4	995.0	773.9	629.3	535.8	467.7	459.2
45°	20146.1	16991.1	8759.2	3699.3	1751.8	1012.0	756.9	595.3	510.2	450.7	416.7
47.5°	20035.6	17365.3	8835.7	3656.7	1624.3	944.0	748.4	569.8	467.7	416.7	391.2
50°	20647.8	18122.1	8708.2	3520.7	1530.7	850.4	816.4	569.8	459.2	399.7	374.2
52.5°	20749.9	18811.0	8980.3	3274.1	1386.2	782.4	807.9	561.3	442.2	382.7	348.7
55°	21600.3	19610.4	9507.5	3138.0	1267.1	680.3	739.9	544.3	399.7	348.7	331.7
57.5°	22756.9	21268.6	9847.7	3010.4	1105.5	595.3	620.8	535.8	365.7	323.2	297.6
60°	23870.9	21932.0	9873.2	2780.8	952.5	535.8	484.7	535.8	340.2	289.1	263.6
62.5°	24704.3	21932.0	9703.1	2585.2	833.4	476.2	425.2	510.2	306.1	255.1	238.1
65°	24253.6	21345.2	9260.9	2423.7	756.9	416.7	365.7	391.2	272.1	221.1	204.1
67.5°	23445.7	19516.8	8283.0	2228.1	748.4	365.7	314.7	289.1	238.1	195.6	178.6
70°	22153.1	17050.6	6896.8	2007.0	731.3	331.7	280.6	246.6	212.6	170.1	153.1
72.5°	17850.0	14082.7	5663.7	1879.4	714.3	289.1	238.1	212.6	178.6	144.6	127.6
75°	12364.9	8997.3	4362.6	1607.3	697.3	263.6	221.1	187.1	153.1	119.1	110.6
77.5°	7415.5	6012.4	2814.8	1207.6	459.2	212.6	187.1	144.6	127.6	102.0	93.5
80°	3469.7	2840.4	1139.5	467.7	221.1	153.1	127.6	110.6	102.0	85.0	76.5
82.5°	1360.6	1199.1	552.8	272.1	178.6	119.1	102.0	93.5	85.0	68.0	59.5
85°	731.3	646.3	263.6	187.1	127.6	85.0	85.0	76.5	68.0	59.5	51.0
87.5°	161.6	119.1	110.6	110.6	93.5	68.0	68.0	59.5	51.0	42.5	34.0
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: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7
2.5°	10511.0	10638.6	10434.5	10562.0	10383.5	10519.5	10536.5	10409.0	10443.0	10613.1	10689.6
5°	8954.8	8869.7	8682.6	8623.1	8631.6	8521.1	8563.6	8623.1	8716.7	8767.7	8920.8
7.5°	6454.6	6650.2	6641.7	6786.2	6794.7	6777.7	6658.7	6403.6	6488.6	6420.6	6505.6
10°	4617.7	4702.7	4864.3	4957.9	5127.9	5034.4	4762.3	4660.2	4609.2	4600.7	4685.7
12.5°	3690.8	3486.7	3469.7	3503.7	3588.7	3478.2	3342.1	3223.0	3282.6	3401.6	3495.2
15°	2857.4	2687.3	2466.2	2432.2	2449.2	2398.1	2253.6	2100.5	2143.0	2262.1	2330.1
17.5°	2194.0	1998.5	1845.4	1743.3	1709.3	1530.7	1318.1	1190.6	1156.6	1148.0	1207.6
20°	1479.7	1445.7	1420.2	1292.6	1292.6	1037.5	858.9	765.4	765.4	782.4	790.9
22.5°	1105.5	1063.0	1071.5	1046.0	978.0	773.9	680.3	654.8	654.8	671.8	671.8
25°	961.0	901.4	884.4	875.9	807.9	663.3	595.3	569.8	569.8	586.8	586.8
27.5°	816.4	799.4	773.9	739.9	680.3	569.8	527.3	501.7	510.2	518.7	510.2
30°	748.4	705.8	671.8	671.8	603.8	510.2	476.2	459.2	442.2	459.2	467.7
32.5°	663.3	637.8	620.8	595.3	518.7	450.7	416.7	399.7	391.2	391.2	399.7
35°	569.8	569.8	552.8	518.7	450.7	408.2	365.7	348.7	340.2	348.7	348.7
37.5°	510.2	484.7	493.2	459.2	399.7	357.2	314.7	297.6	297.6	289.1	297.6
40°	476.2	433.7	408.2	391.2	357.2	306.1	272.1	255.1	246.6	246.6	246.6
42.5°	425.2	391.2	340.2	331.7	323.2	263.6	221.1	212.6	204.1	195.6	195.6
45°	399.7	348.7	306.1	263.6	263.6	221.1	187.1	170.1	161.6	153.1	161.6
47.5°	365.7	314.7	263.6	221.1	212.6	178.6	144.6	127.6	119.1	119.1	119.1
50°	348.7	280.6	229.6	187.1	161.6	144.6	110.6	93.5	85.0	85.0	85.0
52.5°	323.2	263.6	204.1	161.6	127.6	110.6	85.0	68.0	59.5	59.5	59.5
55°	289.1	238.1	178.6	136.1	110.6	85.0	59.5	42.5	34.0	34.0	34.0
57.5°	272.1	212.6	153.1	119.1	85.0	59.5	34.0	25.5	25.5	17.0	25.5
60°	246.6	187.1	127.6	93.5	68.0	42.5	25.5	8.5	8.5	8.5	8.5
62.5°	212.6	161.6	110.6	76.5	51.0	25.5	8.5	0.0	0.0	0.0	0.0
65°	178.6	127.6	85.0	59.5	34.0	8.5	0.0	0.0	0.0	0.0	0.0
67.5°	153.1	110.6	68.0	42.5	25.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	136.1	93.5	51.0	34.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	110.6	76.5	42.5	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	93.5	59.5	25.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	76.5	42.5	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.5	34.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P599479
 CATALOG NUMBER: IFLD-L-SA7C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7	11973.7
2.5°	10800.2	10749.1	11004.2	11420.9	11633.5	12050.2	12152.3	12415.9	12347.9	12441.4
5°	8937.8	9039.8	9414.0	10026.3	10247.4	10851.2	11420.9	11990.7	12356.4	12535.0
7.5°	6633.2	6973.3	7432.5	7993.8	8563.6	9354.5	10323.9	10987.2	11344.4	11727.1
10°	4940.9	5306.5	5833.8	6386.5	7313.5	8197.9	9167.4	9992.3	10298.4	10655.6
12.5°	3886.4	4456.1	5068.4	5663.7	6216.5	7058.4	8257.4	9456.5	9788.2	10060.3
15°	2704.3	3401.6	4277.5	5051.4	5825.3	6556.6	7798.2	9252.4	9703.1	10162.3
17.5°	1496.7	2049.5	3053.0	4141.5	5281.0	6403.6	7951.3	9626.6	10306.9	10630.1
20°	867.4	1088.5	1802.9	3095.5	4600.7	6071.9	8027.8	10332.4	11233.9	11395.4
22.5°	714.3	790.9	1020.5	1938.9	3767.3	5859.3	8419.0	11318.9	12237.3	12620.0
25°	612.3	671.8	790.9	1165.1	2848.9	5408.6	8665.6	12552.0	13402.4	13819.1
27.5°	544.3	603.8	697.3	858.9	1938.9	4787.8	9073.8	13666.0	14516.4	15086.2
30°	476.2	527.3	620.8	731.3	1343.6	4090.5	9422.5	14482.4	15681.5	15860.1
32.5°	425.2	467.7	535.8	629.3	995.0	3104.0	9703.1	15324.3	16336.3	16727.5
35°	365.7	416.7	459.2	535.8	756.9	2338.6	9533.0	15979.1	17297.3	17765.0
37.5°	323.2	357.2	399.7	450.7	637.8	1828.4	9184.4	16761.5	18122.1	18555.9
40°	272.1	297.6	348.7	399.7	578.3	1411.7	8784.7	17705.4	19278.7	20044.1
42.5°	229.6	255.1	289.1	374.2	476.2	1046.0	7976.8	18436.8	20214.1	20860.5
45°	178.6	212.6	263.6	374.2	382.7	773.9	7143.4	18981.1	20741.4	21064.5
47.5°	136.1	170.1	255.1	323.2	306.1	535.8	6156.9	19601.8	21285.7	21583.3
50°	102.0	136.1	289.1	280.6	255.1	408.2	5536.1	20035.6	21319.7	21481.2
52.5°	68.0	102.0	238.1	212.6	212.6	357.2	5366.1	20018.5	21404.7	21056.0
55°	51.0	76.5	136.1	153.1	187.1	314.7	5213.0	20656.4	21430.2	21676.8
57.5°	34.0	59.5	93.5	119.1	161.6	272.1	4898.3	21421.7	22221.1	22348.7
60°	17.0	42.5	68.0	93.5	136.1	238.1	4456.1	21983.0	23182.1	23318.1
62.5°	8.5	25.5	51.0	76.5	110.6	187.1	3996.9	21090.1	22765.4	23003.5
65°	0.0	17.0	34.0	51.0	68.0	136.1	3248.5	19040.6	21115.6	21991.5
67.5°	0.0	0.0	17.0	34.0	42.5	102.0	2449.2	17322.8	19593.3	20783.9
70°	0.0	0.0	8.5	8.5	25.5	76.5	1564.7	14346.3	17492.8	18147.7
72.5°	0.0	0.0	0.0	0.0	8.5	51.0	909.9	10655.6	13708.5	14924.6
75°	0.0	0.0	0.0	0.0	0.0	42.5	459.2	6854.3	9541.6	11174.3
77.5°	0.0	0.0	0.0	0.0	0.0	34.0	246.6	4422.1	7032.9	8402.0
80°	0.0	0.0	0.0	0.0	0.0	8.5	144.6	2568.2	4498.6	5451.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	59.5	1258.6	2687.3	3146.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	17.0	671.8	1343.6	1768.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	93.5	178.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)