

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: P598919

Luminaire Tested: **IFLD-S-SA6D-730-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598919
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6D-730-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (96) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

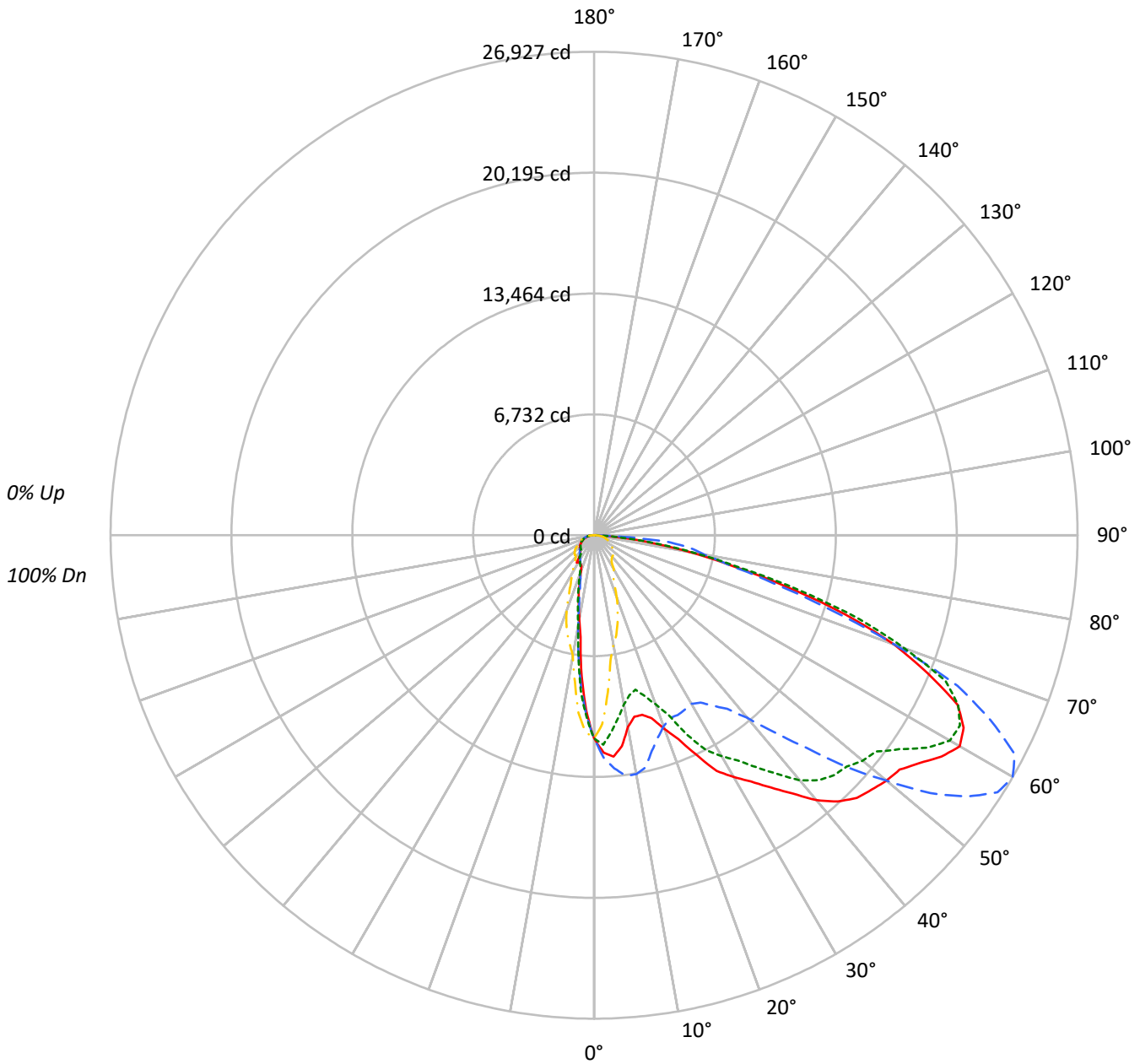
Lumens per Lamp: N/A
 Luminaire Lumens: 35414.3 lumens
 Efficiency: N/A
 Efficacy: 96.2 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 368.2
 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: P598919
CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P598919

CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77	77	77	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	60	60	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47	47	47	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38	38	38	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31	31	31	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26	26	26	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22	22	22	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	19	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17	17	17	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	81168	81168	81168	81168
5°	89173	79215	56809	62014
10°	78986	69714	34456	36975
15°	76912	66175	24393	25326
20°	87697	76540	15956	17636
25°	106849	97022	13931	14429
30°	128741	117676	14449	13408
35°	150146	138172	11973	11285
40°	180421	166883	11185	10596
45°	209968	191793	11319	10523
50°	237292	218000	11576	10874
55°	276734	259832	11989	11400
60°	337523	328279	11949	11949
65°	379319	379852	12271	12804
70°	372789	385974	12855	13184
75°	307511	327984	13502	14373
80°	222029	233067	14931	15579
85°	122876	131933	16813	20699

TEST NUMBER: P598919
 CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.7	2.5
10°-20°	1855.3	5.2
20°-30°	2714.5	7.7
30°-40°	3824.5	10.8
40°-50°	5256.1	14.8
50°-60°	7163.4	20.2
60°-70°	7840.0	22.1
70°-80°	4526.3	12.8
80°-90°	1355.5	3.8
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°	5448.5	15.4
0°-40°	9273.0	26.2
0°-60°	21692.5	61.3
0°-90°	35414.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35414.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11311	11311	11311	11311	11311	
5°	12379	10997	7886	8609	12379	1124
15°	10353	8908	3283	3409	10353	3025
25°	13495	12254	1760	1822	13495	6319
35°	17140	15773	1367	1288	17140	10868
45°	20690	18899	1115	1037	20690	15902
55°	22120	20768	958	911	22120	19958
65°	22340	22371	723	754	22340	21381
75°	11091	11830	487	518	11091	11914
85°	1492	1602	204	251	1492	2071
90°	0	0	0	0	0	

TEST NUMBER: P598919
 CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1
2.5°	12112.3	12065.2	12112.3	12285.1	12332.3	12410.8	12410.8	12300.8	12096.6	12002.4	11845.3
5°	12379.4	12300.8	12693.6	13054.9	13337.7	13306.3	13039.2	12819.3	12410.8	11798.1	11216.9
7.5°	11845.3	11923.8	12206.6	13149.2	13809.0	13934.7	13510.5	13070.6	12190.9	11342.5	10557.1
10°	10839.8	10949.8	11562.5	12536.5	13573.4	13777.6	13510.5	12976.4	11923.8	10871.2	9960.1
12.5°	10352.8	10604.2	10965.5	12143.8	12882.1	13369.1	13243.4	12897.8	11719.6	10478.5	9598.7
15°	10352.8	10415.7	10949.8	11939.5	12363.7	12379.4	12426.5	12489.4	11782.4	10651.3	9473.1
17.5°	10682.7	10855.5	11311.1	11923.8	12002.4	11813.8	11813.8	12080.9	11908.1	11138.3	9928.7
20°	11483.9	11421.1	12018.1	12269.4	11845.3	11374.0	11326.8	11782.4	12049.5	11656.7	10761.3
22.5°	12285.1	12567.9	13054.9	12489.4	11703.9	11075.5	11012.6	11578.2	12473.7	12552.2	11719.6
25°	13494.8	13777.6	14028.9	13337.7	11688.2	10996.9	11044.1	11483.9	12992.1	13824.7	13322.0
27.5°	14798.7	14971.5	15332.9	14264.6	12065.2	10902.7	10949.8	11609.6	13479.1	14657.3	14578.8
30°	15537.1	15725.6	15647.1	14437.4	12316.6	10965.5	10839.8	11782.4	13212.0	14657.3	15395.7
32.5°	16259.7	16149.8	16102.6	14720.2	12630.8	11358.3	11044.1	12143.8	13369.1	14893.0	16448.3
35°	17139.5	16982.4	16856.7	15270.0	13149.2	11735.3	11593.9	12615.0	13714.7	15380.0	17296.6
37.5°	18113.5	18113.5	17500.8	15678.5	13761.9	12348.0	12190.9	13290.6	14264.6	15678.5	18459.1
40°	19260.3	19307.5	18223.5	16228.3	14453.1	13322.0	13274.9	14170.3	14798.7	16118.4	19574.5
42.5°	20108.7	20140.1	18851.9	16432.6	15254.3	14673.0	14877.3	15584.2	15411.4	16511.1	19653.1
45°	20689.9	20532.8	19291.8	17013.8	16134.1	16699.6	16762.5	16966.7	16212.6	16746.8	19967.3
47.5°	20972.7	20941.3	19480.3	17689.3	17987.8	18757.6	19118.9	18836.2	16951.0	16495.4	19967.3
50°	21255.5	20988.4	19653.1	18616.2	19794.5	21349.8	21271.2	20752.8	17972.1	16809.6	19668.8
52.5°	21444.0	21208.4	19998.7	19448.9	21522.6	23282.1	23596.3	22638.0	19166.1	17390.9	19810.2
55°	22119.5	21931.0	21035.6	20580.0	23517.7	25324.4	25371.5	24036.1	20422.9	18349.2	20737.1
57.5°	22936.5	23046.4	22465.2	22182.4	25041.6	26816.8	26644.0	25073.0	21491.1	19511.7	21805.3
60°	23517.7	23690.5	23549.1	23580.6	25795.7	27319.5	26926.8	25717.1	22276.6	20391.4	23109.3
62.5°	23203.5	23549.1	24130.4	24004.7	25827.1	26958.2	26408.3	24868.8	22370.9	21538.3	24099.0
65°	22339.5	22370.9	23502.0	24193.2	24413.2	25088.7	24366.1	23093.5	21396.9	22245.2	23957.6
67.5°	20124.4	20375.7	21396.9	22747.9	21821.0	21978.1	21915.3	20077.2	19920.1	21758.2	22873.6
70°	17767.9	17940.7	19056.1	20642.8	18427.7	17689.3	17830.7	16464.0	17108.1	20250.1	20689.9
72.5°	14688.8	14798.7	16071.2	17469.4	14783.0	13463.4	13793.3	12677.9	13589.1	17720.8	17453.7
75°	11091.2	11295.4	12285.1	13934.7	10887.0	10038.6	10368.5	9912.9	10761.3	14594.5	13541.9
77.5°	7886.4	7729.3	8954.6	10902.7	8184.9	7682.1	7713.6	7792.1	8703.3	12300.8	9724.4
80°	5372.8	5419.9	6519.6	7996.3	6425.3	6346.8	6268.2	6896.6	7305.1	9740.1	7069.5
82.5°	3189.1	3189.1	4398.8	5687.0	5074.3	5718.4	5357.1	5922.6	5718.4	7163.7	4634.4
85°	1492.4	1492.4	2262.2	4100.3	3927.5	4713.0	4006.0	4477.3	4226.0	4995.7	2089.4
87.5°	251.4	219.9	455.6	2010.9	1618.1	1838.1	722.7	2387.9	2655.0	3487.6	518.4
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: P598919
 CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1
2.5°	11672.5	11562.5	11342.5	11059.8	10824.1	10525.6	10431.4	10227.1	9944.4	9912.9	9787.3
5°	10996.9	10619.9	10148.6	9567.3	9174.6	8766.1	8420.5	8216.3	7980.6	7949.2	7886.4
7.5°	10258.6	9787.3	9001.8	8310.5	7635.0	6990.9	6676.7	6284.0	6016.9	5812.7	5718.4
10°	9567.3	9127.5	8153.4	7210.8	6613.9	6189.7	5812.7	5404.2	5074.3	4822.9	4728.7
12.5°	9111.7	8593.3	7540.8	6645.3	6205.4	5718.4	5294.2	4854.4	4430.2	4100.3	3927.5
15°	8907.5	8420.5	7352.2	6362.5	5718.4	5042.9	4555.9	4116.0	3597.6	3361.9	3283.4
17.5°	9394.5	8671.9	7289.4	6032.6	5121.4	4351.6	3754.7	3283.4	2906.3	2670.7	2576.4
20°	10022.9	9127.5	7399.4	5639.9	4555.9	3691.8	3032.0	2529.3	2277.9	2105.1	2089.4
22.5°	10824.1	9803.0	7572.2	5357.1	3927.5	2969.2	2372.2	2073.7	1900.9	1885.2	1853.8
25°	12253.7	11028.3	7854.9	4980.0	3424.8	2450.7	2026.6	1853.8	1775.2	1728.1	1759.5
27.5°	13479.1	11829.6	8059.2	4744.4	3220.5	2309.4	1963.7	1775.2	1696.7	1681.0	1696.7
30°	14201.7	12567.9	7996.3	4304.5	2812.1	2199.4	2089.4	2026.6	1869.5	1743.8	1743.8
32.5°	14861.6	13039.2	7980.6	3911.8	2403.6	1838.1	1743.8	1696.7	1790.9	1853.8	1806.6
35°	15772.7	13777.6	7933.5	3691.8	2230.8	1696.7	1539.6	1413.9	1351.1	1319.6	1366.8
37.5°	16746.8	14280.3	7807.8	3660.4	2136.5	1618.1	1492.4	1366.8	1303.9	1272.5	1256.8
40°	17815.0	14814.4	7666.4	3503.3	2089.4	1571.0	1445.3	1335.3	1256.8	1209.7	1194.0
42.5°	18506.3	15238.6	7525.0	3424.8	1995.2	1539.6	1398.2	1303.9	1225.4	1162.5	1162.5
45°	18899.0	15741.3	7383.7	3346.2	1885.2	1555.3	1398.2	1272.5	1178.2	1146.8	1115.4
47.5°	19071.8	16118.4	7336.5	3220.5	1790.9	1492.4	1366.8	1241.1	1146.8	1084.0	1068.3
50°	19527.4	16919.6	7509.3	3126.3	1681.0	1429.6	1445.3	1225.4	1131.1	1052.6	1036.9
52.5°	19794.5	17563.7	7886.4	2984.9	1602.4	1351.1	1413.9	1194.0	1084.0	1005.4	1005.4
55°	20768.5	18631.9	8294.8	2874.9	1508.2	1241.1	1303.9	1131.1	1005.4	958.3	958.3
57.5°	22009.6	19763.1	8640.4	2827.8	1445.3	1162.5	1162.5	1099.7	958.3	895.5	879.8
60°	22873.6	20689.9	8844.7	2796.4	1382.5	1084.0	1036.9	1099.7	911.2	848.3	832.6
62.5°	22967.9	20155.8	8640.4	2780.7	1366.8	1005.4	942.6	1052.6	864.0	801.2	769.8
65°	22370.9	19071.8	8074.9	2717.8	1351.1	926.9	879.8	911.2	801.2	754.1	722.7
67.5°	21176.9	17312.3	7258.0	2686.4	1335.3	864.0	801.2	785.5	738.4	691.2	659.8
70°	18396.3	15018.7	6299.7	2545.0	1303.9	816.9	722.7	706.9	659.8	628.4	612.7
72.5°	15442.8	12285.1	5200.0	2356.5	1241.1	738.4	659.8	628.4	612.7	565.6	549.8
75°	11829.6	9457.4	4163.1	2089.4	1084.0	659.8	581.3	549.8	534.1	502.7	487.0
77.5°	8310.5	7038.0	3079.1	1696.7	911.2	597.0	518.4	487.0	471.3	424.2	424.2
80°	5639.9	4932.9	2089.4	1178.2	706.9	487.0	455.6	424.2	392.7	361.3	361.3
82.5°	3503.3	3456.2	1508.2	769.8	518.4	392.7	361.3	361.3	314.2	282.8	282.8
85°	1602.4	2120.8	1052.6	534.1	392.7	298.5	298.5	282.8	251.4	204.2	204.2
87.5°	502.7	706.9	549.8	235.6	219.9	172.8	172.8	157.1	157.1	125.7	125.7
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: P598919
 CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1
2.5°	9912.9	9897.2	9897.2	9834.4	9991.5	9991.5	10085.8	10007.2	10054.3	10070.0	10195.7
5°	7870.7	7996.3	8090.6	8279.1	8389.1	8436.2	8436.2	8561.9	8514.8	8609.0	8797.5
7.5°	5765.5	5922.6	6205.4	6441.1	6629.6	6692.4	6676.7	6708.1	6755.3	6645.3	6676.7
10°	4665.8	4555.9	4650.1	4870.1	5042.9	5247.1	5090.0	5074.3	5121.4	5074.3	5168.6
12.5°	3896.1	3770.4	3691.8	3691.8	3817.5	3911.8	3864.6	3943.2	4116.0	4163.1	4273.1
15°	3157.7	3047.7	2984.9	2906.3	3032.0	3063.4	3110.6	3220.5	3346.2	3409.0	3534.7
17.5°	2529.3	2529.3	2529.3	2466.5	2513.6	2560.7	2576.4	2717.8	2733.5	2796.4	2843.5
20°	2073.7	2120.8	2199.4	2230.8	2277.9	2277.9	2246.5	2325.1	2262.2	2309.4	2340.8
22.5°	1869.5	1932.3	1963.7	1979.4	2042.3	2058.0	1979.4	1995.2	2010.9	1963.7	1979.4
25°	1759.5	1790.9	1759.5	1775.2	1790.9	1759.5	1775.2	1806.6	1790.9	1822.3	1806.6
27.5°	1712.4	1681.0	1665.2	1649.5	1649.5	1618.1	1633.8	1633.8	1665.2	1681.0	1681.0
30°	1712.4	1665.2	1602.4	1555.3	1555.3	1508.2	1539.6	1571.0	1586.7	1618.1	1618.1
32.5°	1759.5	1665.2	1555.3	1508.2	1461.0	1429.6	1461.0	1508.2	1571.0	1586.7	1602.4
35°	1398.2	1445.3	1429.6	1366.8	1351.1	1351.1	1335.3	1335.3	1288.2	1288.2	1272.5
37.5°	1256.8	1241.1	1272.5	1288.2	1303.9	1256.8	1256.8	1194.0	1178.2	1194.0	1194.0
40°	1178.2	1178.2	1178.2	1225.4	1241.1	1209.7	1162.5	1131.1	1131.1	1131.1	1146.8
42.5°	1146.8	1115.4	1099.7	1131.1	1178.2	1146.8	1099.7	1084.0	1084.0	1099.7	1099.7
45°	1099.7	1084.0	1068.3	1052.6	1115.4	1068.3	1052.6	1036.9	1036.9	1036.9	1052.6
47.5°	1052.6	1036.9	1005.4	1005.4	1021.1	1005.4	989.7	989.7	989.7	1021.1	1021.1
50°	1021.1	1005.4	974.0	974.0	974.0	974.0	958.3	958.3	958.3	974.0	989.7
52.5°	974.0	958.3	942.6	926.9	926.9	926.9	926.9	926.9	926.9	942.6	958.3
55°	926.9	911.2	895.5	895.5	911.2	911.2	895.5	911.2	895.5	911.2	926.9
57.5°	879.8	864.0	848.3	864.0	879.8	864.0	864.0	864.0	864.0	864.0	879.8
60°	816.9	816.9	816.9	816.9	848.3	848.3	848.3	848.3	816.9	832.6	848.3
62.5°	785.5	769.8	769.8	785.5	801.2	801.2	816.9	801.2	785.5	801.2	801.2
65°	722.7	722.7	722.7	738.4	738.4	754.1	754.1	754.1	738.4	754.1	754.1
67.5°	675.5	675.5	675.5	675.5	706.9	706.9	706.9	706.9	691.2	691.2	706.9
70°	597.0	612.7	597.0	628.4	659.8	644.1	659.8	659.8	644.1	628.4	659.8
72.5°	549.8	549.8	549.8	549.8	597.0	597.0	597.0	612.7	597.0	581.3	597.0
75°	487.0	487.0	487.0	502.7	534.1	534.1	534.1	534.1	534.1	518.4	518.4
77.5°	424.2	439.9	424.2	439.9	471.3	455.6	471.3	487.0	471.3	455.6	455.6
80°	361.3	361.3	361.3	377.0	392.7	392.7	392.7	408.5	392.7	377.0	377.0
82.5°	282.8	282.8	298.5	298.5	314.2	314.2	314.2	329.9	314.2	298.5	298.5
85°	219.9	219.9	219.9	235.6	235.6	251.4	251.4	267.1	267.1	251.4	251.4
87.5°	141.4	125.7	141.4	141.4	157.1	157.1	141.4	125.7	141.4	125.7	110.0
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: P598919
 CATALOG NUMBER: IFLD-S-SA6D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1	11311.1
2.5°	10321.4	10604.2	10808.4	10949.8	11154.0	11546.8	11703.9	11986.7	12065.2	12112.3
5°	8876.1	9174.6	9614.5	9928.7	10290.0	11028.3	11593.9	12018.1	12206.6	12379.4
7.5°	6959.5	7352.2	7807.8	8216.3	8813.3	9724.4	10462.8	11342.5	11672.5	11845.3
10°	5435.6	5797.0	6299.7	6802.4	7635.0	8404.8	9457.4	10258.6	10714.2	10839.8
12.5°	4587.3	5011.5	5608.4	6221.1	6739.5	7619.3	8687.6	9850.1	10274.3	10352.8
15°	3896.1	4477.3	5090.0	5718.4	6315.4	7085.2	8232.0	9645.9	10274.3	10352.8
17.5°	3220.5	3739.0	4461.6	5137.1	5828.4	6880.9	8310.5	9818.7	10447.1	10682.7
20°	2560.7	3063.4	3629.0	4477.3	5419.9	6535.3	8483.3	10400.0	11232.6	11483.9
22.5°	2120.8	2340.8	2890.6	3707.5	4822.9	6299.7	8656.2	11311.1	12190.9	12285.1
25°	1853.8	2010.9	2356.5	3126.3	4351.6	6142.6	9064.6	12363.7	13494.8	13494.8
27.5°	1728.1	1790.9	2026.6	2717.8	4021.7	6001.2	9473.1	13526.2	14578.8	14798.7
30°	1696.7	1853.8	1979.4	2419.3	3660.4	5608.4	9850.1	14437.4	15521.4	15537.1
32.5°	1665.2	1633.8	1728.1	2105.1	3220.5	5200.0	10164.3	15364.3	16212.6	16259.7
35°	1303.9	1366.8	1523.9	1853.8	2890.6	4901.5	10321.4	15867.0	17092.4	17139.5
37.5°	1225.4	1303.9	1429.6	1712.4	2670.7	4650.1	10368.5	16841.0	18019.3	18113.5
40°	1194.0	1256.8	1351.1	1586.7	2497.9	4335.9	10462.8	17846.4	19386.0	19260.3
42.5°	1131.1	1209.7	1303.9	1523.9	2356.5	4100.3	10478.5	18396.3	20108.7	20108.7
45°	1115.4	1162.5	1272.5	1523.9	2199.4	3896.1	10227.1	18946.1	20941.3	20689.9
47.5°	1052.6	1146.8	1241.1	1476.7	2010.9	3691.8	9928.7	19228.9	21051.3	20972.7
50°	1036.9	1131.1	1288.2	1398.2	1900.9	3597.6	9865.8	19935.9	21271.2	21255.5
52.5°	1005.4	1099.7	1335.3	1335.3	1759.5	3471.9	10164.3	20250.1	21318.3	21444.0
55°	958.3	1099.7	1241.1	1225.4	1633.8	3314.8	10494.2	21067.0	22151.0	22119.5
57.5°	926.9	1068.3	1178.2	1115.4	1492.4	3204.8	10981.2	21852.5	23156.4	22936.5
60°	879.8	1068.3	1052.6	1036.9	1382.5	3110.6	11389.7	22009.6	23376.3	23517.7
62.5°	848.3	1115.4	926.9	958.3	1288.2	3063.4	11216.9	20831.3	23077.8	23203.5
65°	816.9	958.3	848.3	879.8	1256.8	2969.2	10541.3	19417.4	21789.6	22339.5
67.5°	754.1	785.5	785.5	816.9	1225.4	2749.2	9158.9	16872.4	19825.9	20124.4
70°	691.2	706.9	706.9	754.1	1194.0	2497.9	7556.5	14594.5	17202.3	17767.9
72.5°	628.4	628.4	628.4	691.2	1099.7	2293.6	6221.1	11216.9	14296.0	14688.8
75°	549.8	549.8	549.8	612.7	989.7	2089.4	4901.5	8342.0	10525.6	11091.2
77.5°	487.0	487.0	471.3	549.8	864.0	1696.7	3534.7	5891.2	7415.1	7886.4
80°	408.5	392.7	392.7	439.9	675.5	1225.4	2277.9	4163.1	5168.6	5372.8
82.5°	329.9	314.2	298.5	329.9	487.0	769.8	1413.9	2906.3	3314.8	3189.1
85°	314.2	329.9	267.1	251.4	345.6	502.7	895.5	1790.9	1492.4	1492.4
87.5°	125.7	110.0	110.0	94.3	172.8	188.5	392.7	329.9	251.4	251.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)