

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: P598895

Luminaire Tested: **IFLD-M-SA4D-727-U-SLL**

Issue Date: 05/03/2022

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: P598895
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4D-727-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (64) 2700K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

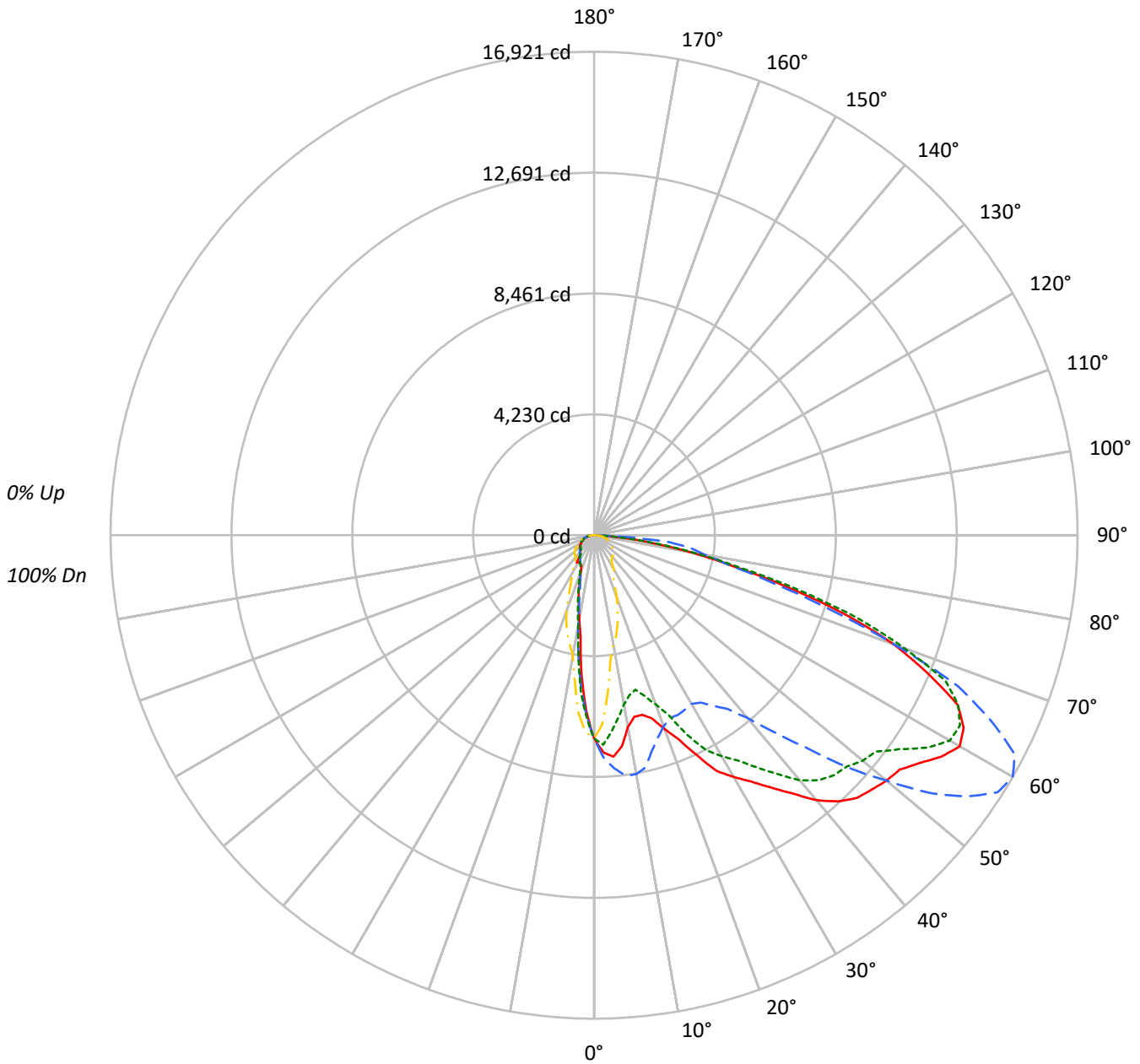
Lumens per Lamp: N/A
 Luminaire Lumens: 22254.1 lumens
 Efficiency: N/A
 Efficacy: 89.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 249.7
 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: P598895
CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-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	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	80	80	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	62	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	50	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	40	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	34	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	29	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	25	25	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	22	22	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	19	19	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	76508	76508	76508	76508
5°	84053	74667	53546	58454
10°	74452	65712	32478	34852
15°	72497	62375	22992	23872
20°	82662	72145	15040	16623
25°	100715	91453	13132	13601
30°	121350	110921	13620	12638
35°	141526	130240	11286	10637
40°	170064	157303	10543	9988
45°	197913	180782	10669	9919
50°	223669	205485	10911	10250
55°	260848	244915	11301	10746
60°	318147	309432	11263	11263
65°	357542	358044	11566	12070
70°	351387	363815	12117	12428
75°	289856	309153	12726	13550
80°	209280	219688	14077	14685
85°	115820	124354	15845	19513

TEST NUMBER: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.2	2.5
10°-20°	1165.8	5.2
20°-30°	1705.8	7.7
30°-40°	2403.3	10.8
40°-50°	3302.9	14.8
50°-60°	4501.4	20.2
60°-70°	4926.6	22.1
70°-80°	2844.3	12.8
80°-90°	851.8	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°	3423.8	15.4
0°-40°	5827.1	26.2
0°-60°	13631.4	61.3
0°-90°	22254.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22254.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7108	7108	7108	7108	7108	
5°	7779	6910	4956	5410	7779	706
15°	6506	5597	2063	2142	6506	1901
25°	8480	7700	1106	1145	8480	3971
35°	10770	9912	859	810	10770	6829
45°	13001	11876	701	652	13001	9993
55°	13900	13051	602	573	13900	12542
65°	14038	14058	454	474	14038	13436
75°	6970	7434	306	326	6970	7487
85°	938	1007	128	158	938	1301
90°	0	0	0	0	0	

TEST NUMBER: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8
2.5°	7611.3	7581.7	7611.3	7719.9	7749.5	7798.9	7798.9	7729.8	7601.4	7542.2	7443.5
5°	7779.1	7729.8	7976.6	8203.6	8381.3	8361.6	8193.8	8055.6	7798.9	7413.9	7048.6
7.5°	7443.5	7492.9	7670.5	8262.9	8677.5	8756.5	8489.9	8213.5	7660.7	7127.6	6634.0
10°	6811.7	6880.8	7265.8	7877.9	8529.4	8657.7	8489.9	8154.3	7492.9	6831.4	6258.9
12.5°	6505.7	6663.6	6890.7	7631.1	8095.0	8401.1	8322.1	8104.9	7364.5	6584.6	6031.8
15°	6505.7	6545.1	6880.8	7502.7	7769.3	7779.1	7808.8	7848.2	7404.0	6693.2	5952.8
17.5°	6713.0	6821.6	7107.8	7492.9	7542.2	7423.7	7423.7	7591.6	7483.0	6999.3	6239.1
20°	7216.4	7176.9	7552.1	7710.0	7443.5	7147.3	7117.7	7404.0	7571.8	7325.0	6762.3
22.5°	7719.9	7897.6	8203.6	7848.2	7354.6	6959.8	6920.3	7275.7	7838.4	7887.7	7364.5
25°	8480.1	8657.7	8815.7	8381.3	7344.8	6910.4	6940.0	7216.4	8164.1	8687.4	8371.5
27.5°	9299.4	9408.0	9635.1	8963.8	7581.7	6851.2	6880.8	7295.4	8470.2	9210.6	9161.2
30°	9763.4	9881.9	9832.5	9072.4	7739.7	6890.7	6811.7	7404.0	8302.4	9210.6	9674.6
32.5°	10217.5	10148.4	10118.8	9250.1	7937.1	7137.5	6940.0	7631.1	8401.1	9358.7	10336.0
35°	10770.4	10671.6	10592.7	9595.6	8262.9	7374.4	7285.5	7927.2	8618.3	9664.7	10869.1
37.5°	11382.4	11382.4	10997.4	9852.3	8647.9	7759.4	7660.7	8351.7	8963.8	9852.3	11599.6
40°	12103.1	12132.7	11451.5	10197.8	9082.2	8371.5	8341.8	8904.5	9299.4	10128.7	12300.5
42.5°	12636.2	12655.9	11846.4	10326.1	9585.7	9220.5	9348.8	9793.0	9684.4	10375.5	12349.9
45°	13001.4	12902.7	12122.8	10691.4	10138.5	10493.9	10533.4	10661.8	10187.9	10523.6	12547.3
47.5°	13179.1	13159.4	12241.3	11115.9	11303.4	11787.2	12014.2	11836.5	10651.9	10365.6	12547.3
50°	13356.8	13189.0	12349.9	11698.3	12438.7	13416.1	13366.7	13040.9	11293.6	10563.0	12359.8
52.5°	13475.3	13327.2	12567.1	12221.5	13524.6	14630.3	14827.8	14225.6	12043.8	10928.3	12448.6
55°	13899.8	13781.3	13218.6	12932.3	14778.4	15913.7	15943.3	15104.2	12833.6	11530.5	13031.0
57.5°	14413.1	14482.2	14117.0	13939.3	15736.0	16851.5	16742.9	15755.7	13504.9	12261.0	13702.3
60°	14778.4	14887.0	14798.1	14817.9	16209.8	17167.4	16920.6	16160.5	13998.5	12813.9	14521.7
62.5°	14581.0	14798.1	15163.4	15084.4	16229.6	16940.4	16594.8	15627.4	14057.7	13534.5	15143.7
65°	14038.0	14057.7	14768.5	15202.9	15341.1	15765.6	15311.5	14511.8	13445.7	13978.8	15054.8
67.5°	12646.0	12804.0	13445.7	14294.7	13712.2	13810.9	13771.4	12616.4	12517.7	13672.7	14373.6
70°	11165.2	11273.8	11974.7	12971.8	11579.9	11115.9	11204.7	10345.9	10750.6	12725.0	13001.4
72.5°	9230.3	9299.4	10099.1	10977.7	9289.6	8460.3	8667.6	7966.7	8539.3	11135.6	10967.8
75°	6969.6	7098.0	7719.9	8756.5	6841.3	6308.2	6515.5	6229.2	6762.3	9171.1	8509.7
77.5°	4955.7	4857.0	5627.0	6851.2	5143.3	4827.4	4847.2	4896.5	5469.1	7729.8	6110.8
80°	3376.2	3405.8	4096.9	5024.9	4037.7	3988.3	3938.9	4333.8	4590.5	6120.6	4442.4
82.5°	2004.0	2004.0	2764.2	3573.7	3188.7	3593.4	3366.4	3721.7	3593.4	4501.6	2912.2
85°	937.8	937.8	1421.6	2576.6	2468.0	2961.6	2517.4	2813.5	2655.6	3139.3	1313.0
87.5°	158.0	138.2	286.3	1263.6	1016.8	1155.0	454.1	1500.5	1668.4	2191.6	325.8
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: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8
2.5°	7334.9	7265.8	7127.6	6949.9	6801.8	6614.2	6555.0	6426.7	6249.0	6229.2	6150.3
5°	6910.4	6673.5	6377.3	6012.1	5765.3	5508.6	5291.4	5163.1	5015.0	4995.2	4955.7
7.5°	6446.4	6150.3	5656.7	5222.3	4797.8	4393.0	4195.6	3948.8	3781.0	3652.6	3593.4
10°	6012.1	5735.6	5123.6	4531.3	4156.1	3889.6	3652.6	3396.0	3188.7	3030.7	2971.5
12.5°	5725.8	5400.0	4738.6	4175.9	3899.4	3593.4	3326.9	3050.4	2783.9	2576.6	2468.0
15°	5597.4	5291.4	4620.1	3998.2	3593.4	3168.9	2862.9	2586.5	2260.7	2112.6	2063.2
17.5°	5903.5	5449.3	4580.6	3790.9	3218.3	2734.5	2359.4	2063.2	1826.3	1678.2	1619.0
20°	6298.3	5735.6	4649.7	3544.1	2862.9	2319.9	1905.3	1589.4	1431.4	1322.8	1313.0
22.5°	6801.8	6160.1	4758.3	3366.4	2468.0	1865.8	1490.7	1303.1	1194.5	1184.6	1164.9
25°	7700.2	6930.1	4936.0	3129.4	2152.1	1540.0	1273.5	1164.9	1115.5	1085.9	1105.7
27.5°	8470.2	7433.6	5064.3	2981.3	2023.8	1451.2	1234.0	1115.5	1066.2	1056.3	1066.2
30°	8924.3	7897.6	5024.9	2704.9	1767.1	1382.1	1313.0	1273.5	1174.8	1095.8	1095.8
32.5°	9338.9	8193.8	5015.0	2458.1	1510.4	1155.0	1095.8	1066.2	1125.4	1164.9	1135.3
35°	9911.5	8657.7	4985.4	2319.9	1401.8	1066.2	967.5	888.5	849.0	829.2	858.9
37.5°	10523.6	8973.7	4906.4	2300.2	1342.6	1016.8	937.8	858.9	819.4	799.6	789.8
40°	11194.9	9309.3	4817.5	2201.5	1313.0	987.2	908.2	839.1	789.8	760.1	750.3
42.5°	11629.2	9575.8	4728.7	2152.1	1253.7	967.5	878.6	819.4	770.0	730.5	730.5
45°	11876.0	9891.7	4639.8	2102.7	1184.6	977.3	878.6	799.6	740.4	720.7	700.9
47.5°	11984.6	10128.7	4610.2	2023.8	1125.4	937.8	858.9	779.9	720.7	681.2	671.3
50°	12270.9	10632.2	4718.8	1964.5	1056.3	898.4	808.2	770.0	710.8	661.4	651.6
52.5°	12438.7	11036.9	4955.7	1875.7	1006.9	849.0	888.5	750.3	681.2	631.8	631.8
55°	13050.8	11708.2	5212.4	1806.6	947.7	779.9	819.4	710.8	631.8	602.2	602.2
57.5°	13830.7	12419.0	5429.6	1777.0	908.2	730.5	730.5	691.0	602.2	562.7	552.8
60°	14373.6	13001.4	5557.9	1757.2	868.7	681.2	651.6	691.0	572.6	533.1	523.2
62.5°	14432.9	12665.8	5429.6	1747.3	858.9	631.8	592.3	661.4	543.0	503.5	483.7
65°	14057.7	11984.6	5074.2	1707.9	849.0	582.4	552.8	572.6	503.5	473.9	454.1
67.5°	13307.5	10879.0	4560.9	1688.1	839.1	543.0	503.5	493.6	464.0	434.4	414.6
70°	11560.1	9437.6	3958.7	1599.3	819.4	513.3	454.1	444.2	414.6	394.9	385.0
72.5°	9704.2	7719.9	3267.6	1480.8	779.9	464.0	414.6	394.9	385.0	355.4	345.5
75°	7433.6	5942.9	2616.1	1313.0	681.2	414.6	365.3	345.5	335.6	315.9	306.0
77.5°	5222.3	4422.7	1934.9	1066.2	572.6	375.1	325.8	306.0	296.2	266.5	266.5
80°	3544.1	3099.8	1313.0	740.4	444.2	306.0	286.3	266.5	246.8	227.1	227.1
82.5°	2201.5	2171.8	947.7	483.7	325.8	246.8	227.1	227.1	197.4	177.7	177.7
85°	1006.9	1332.7	661.4	335.6	246.8	187.6	187.6	177.7	158.0	128.3	128.3
87.5°	315.9	444.2	345.5	148.1	138.2	108.6	108.6	98.7	98.7	79.0	79.0
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: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8
2.5°	6229.2	6219.4	6219.4	6179.9	6278.6	6278.6	6337.8	6288.5	6318.1	6328.0	6406.9
5°	4945.9	5024.9	5084.1	5202.5	5271.7	5301.3	5301.3	5380.2	5350.6	5409.9	5528.3
7.5°	3623.0	3721.7	3899.4	4047.5	4166.0	4205.5	4195.6	4215.3	4245.0	4175.9	4195.6
10°	2932.0	2862.9	2922.1	3060.3	3168.9	3297.2	3198.5	3188.7	3218.3	3188.7	3247.9
12.5°	2448.3	2369.3	2319.9	2319.9	2398.9	2458.1	2428.5	2477.9	2586.5	2616.1	2685.2
15°	1984.3	1915.2	1875.7	1826.3	1905.3	1925.0	1954.7	2023.8	2102.7	2142.2	2221.2
17.5°	1589.4	1589.4	1589.4	1549.9	1579.5	1609.1	1619.0	1707.9	1717.7	1757.2	1786.8
20°	1303.1	1332.7	1382.1	1401.8	1431.4	1431.4	1411.7	1461.1	1421.6	1451.2	1470.9
22.5°	1174.8	1214.3	1234.0	1243.9	1283.4	1293.2	1243.9	1253.7	1263.6	1234.0	1243.9
25°	1105.7	1125.4	1105.7	1115.5	1125.4	1105.7	1115.5	1135.3	1125.4	1145.2	1135.3
27.5°	1076.0	1056.3	1046.4	1036.6	1036.6	1016.8	1026.7	1026.7	1046.4	1056.3	1056.3
30°	1076.0	1046.4	1006.9	977.3	977.3	947.7	967.5	987.2	997.1	1016.8	1016.8
32.5°	1105.7	1046.4	977.3	947.7	918.1	898.4	918.1	947.7	987.2	997.1	1006.9
35°	878.6	908.2	898.4	858.9	849.0	849.0	839.1	839.1	809.5	809.5	799.6
37.5°	789.8	779.9	799.6	809.5	819.4	789.8	789.8	750.3	740.4	750.3	750.3
40°	740.4	740.4	740.4	770.0	779.9	760.1	730.5	710.8	710.8	710.8	720.7
42.5°	720.7	700.9	691.0	710.8	740.4	720.7	691.0	681.2	681.2	691.0	691.0
45°	691.0	681.2	671.3	661.4	700.9	671.3	661.4	651.6	651.6	651.6	661.4
47.5°	661.4	651.6	631.8	631.8	641.7	631.8	621.9	621.9	621.9	641.7	641.7
50°	641.7	631.8	612.1	612.1	612.1	612.1	602.2	602.2	602.2	612.1	621.9
52.5°	612.1	602.2	592.3	582.4	582.4	582.4	582.4	582.4	582.4	592.3	602.2
55°	582.4	572.6	562.7	562.7	572.6	572.6	562.7	572.6	562.7	572.6	582.4
57.5°	552.8	543.0	533.1	543.0	552.8	543.0	543.0	543.0	543.0	543.0	552.8
60°	513.3	513.3	513.3	513.3	533.1	533.1	533.1	533.1	513.3	523.2	533.1
62.5°	493.6	483.7	483.7	493.6	503.5	503.5	513.3	503.5	493.6	503.5	503.5
65°	454.1	454.1	454.1	464.0	464.0	473.9	473.9	473.9	464.0	473.9	473.9
67.5°	424.5	424.5	424.5	424.5	444.2	444.2	444.2	444.2	434.4	434.4	444.2
70°	375.1	385.0	375.1	394.9	414.6	404.8	414.6	414.6	404.8	394.9	414.6
72.5°	345.5	345.5	345.5	345.5	375.1	375.1	375.1	385.0	375.1	365.3	375.1
75°	306.0	306.0	306.0	315.9	335.6	335.6	335.6	335.6	335.6	325.8	325.8
77.5°	266.5	276.4	266.5	276.4	296.2	286.3	296.2	306.0	296.2	286.3	286.3
80°	227.1	227.1	227.1	236.9	246.8	246.8	246.8	256.7	246.8	236.9	236.9
82.5°	177.7	177.7	187.6	187.6	197.4	197.4	197.4	207.3	197.4	187.6	187.6
85°	138.2	138.2	138.2	148.1	148.1	158.0	158.0	167.8	167.8	158.0	158.0
87.5°	88.8	79.0	88.8	88.8	98.7	98.7	88.8	79.0	88.8	79.0	69.1
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: P598895
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8	7107.8
2.5°	6485.9	6663.6	6791.9	6880.8	7009.1	7255.9	7354.6	7532.3	7581.7	7611.3
5°	5577.7	5765.3	6041.7	6239.1	6466.2	6930.1	7285.5	7552.1	7670.5	7779.1
7.5°	4373.3	4620.1	4906.4	5163.1	5538.2	6110.8	6574.8	7127.6	7334.9	7443.5
10°	3415.7	3642.8	3958.7	4274.6	4797.8	5281.5	5942.9	6446.4	6732.7	6811.7
12.5°	2882.6	3149.2	3524.3	3909.3	4235.1	4787.9	5459.2	6189.7	6456.3	6505.7
15°	2448.3	2813.5	3198.5	3593.4	3968.5	4452.3	5172.9	6061.4	6456.3	6505.7
17.5°	2023.8	2349.5	2803.6	3228.1	3662.5	4323.9	5222.3	6170.0	6564.9	6713.0
20°	1609.1	1925.0	2280.4	2813.5	3405.8	4106.8	5330.9	6535.3	7058.5	7216.4
22.5°	1332.7	1470.9	1816.4	2329.8	3030.7	3958.7	5439.5	7107.8	7660.7	7719.9
25°	1164.9	1263.6	1480.8	1964.5	2734.5	3860.0	5696.1	7769.3	8480.1	8480.1
27.5°	1085.9	1125.4	1273.5	1707.9	2527.2	3771.1	5952.8	8499.8	9161.2	9299.4
30°	1066.2	1164.9	1243.9	1520.3	2300.2	3524.3	6189.7	9072.4	9753.5	9763.4
32.5°	1046.4	1026.7	1085.9	1322.8	2023.8	3267.6	6387.2	9654.8	10187.9	10217.5
35°	819.4	858.9	957.6	1164.9	1816.4	3080.1	6485.9	9970.7	10740.7	10770.4
37.5°	770.0	819.4	898.4	1076.0	1678.2	2922.1	6515.5	10582.8	11323.2	11382.4
40°	750.3	789.8	849.0	997.1	1569.6	2724.7	6574.8	11214.6	12182.1	12103.1
42.5°	710.8	760.1	819.4	957.6	1480.8	2576.6	6584.6	11560.1	12636.2	12636.2
45°	700.9	730.5	799.6	957.6	1382.1	2448.3	6426.7	11905.6	13159.4	13001.4
47.5°	661.4	720.7	779.9	928.0	1263.6	2319.9	6239.1	12083.3	13228.5	13179.1
50°	651.6	710.8	809.5	878.6	1194.5	2260.7	6199.6	12527.6	13366.7	13356.8
52.5°	631.8	691.0	839.1	839.1	1105.7	2181.7	6387.2	12725.0	13396.3	13475.3
55°	602.2	691.0	779.9	770.0	1026.7	2083.0	6594.5	13238.4	13919.5	13899.8
57.5°	582.4	671.3	740.4	700.9	937.8	2013.9	6900.5	13732.0	14551.3	14413.1
60°	552.8	671.3	661.4	651.6	868.7	1954.7	7157.2	13830.7	14689.5	14778.4
62.5°	533.1	700.9	582.4	602.2	809.5	1925.0	7048.6	13090.3	14502.0	14581.0
65°	513.3	602.2	533.1	552.8	789.8	1865.8	6624.1	12201.8	13692.5	14038.0
67.5°	473.9	493.6	493.6	513.3	770.0	1727.6	5755.4	10602.5	12458.5	12646.0
70°	434.4	444.2	444.2	473.9	750.3	1569.6	4748.4	9171.1	10809.8	11165.2
72.5°	394.9	394.9	394.9	434.4	691.0	1441.3	3909.3	7048.6	8983.5	9230.3
75°	345.5	345.5	345.5	385.0	621.9	1313.0	3080.1	5242.0	6614.2	6969.6
77.5°	306.0	306.0	296.2	345.5	543.0	1066.2	2221.2	3702.0	4659.6	4955.7
80°	256.7	246.8	246.8	276.4	424.5	770.0	1431.4	2616.1	3247.9	3376.2
82.5°	207.3	197.4	187.6	207.3	306.0	483.7	888.5	1826.3	2083.0	2004.0
85°	197.4	207.3	167.8	158.0	217.2	315.9	562.7	1125.4	937.8	937.8
87.5°	79.0	69.1	69.1	59.2	108.6	118.5	246.8	207.3	158.0	158.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)