

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: P598930

Luminaire Tested: **IFLD-L-SA7E-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: P598930
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-730-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 3000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

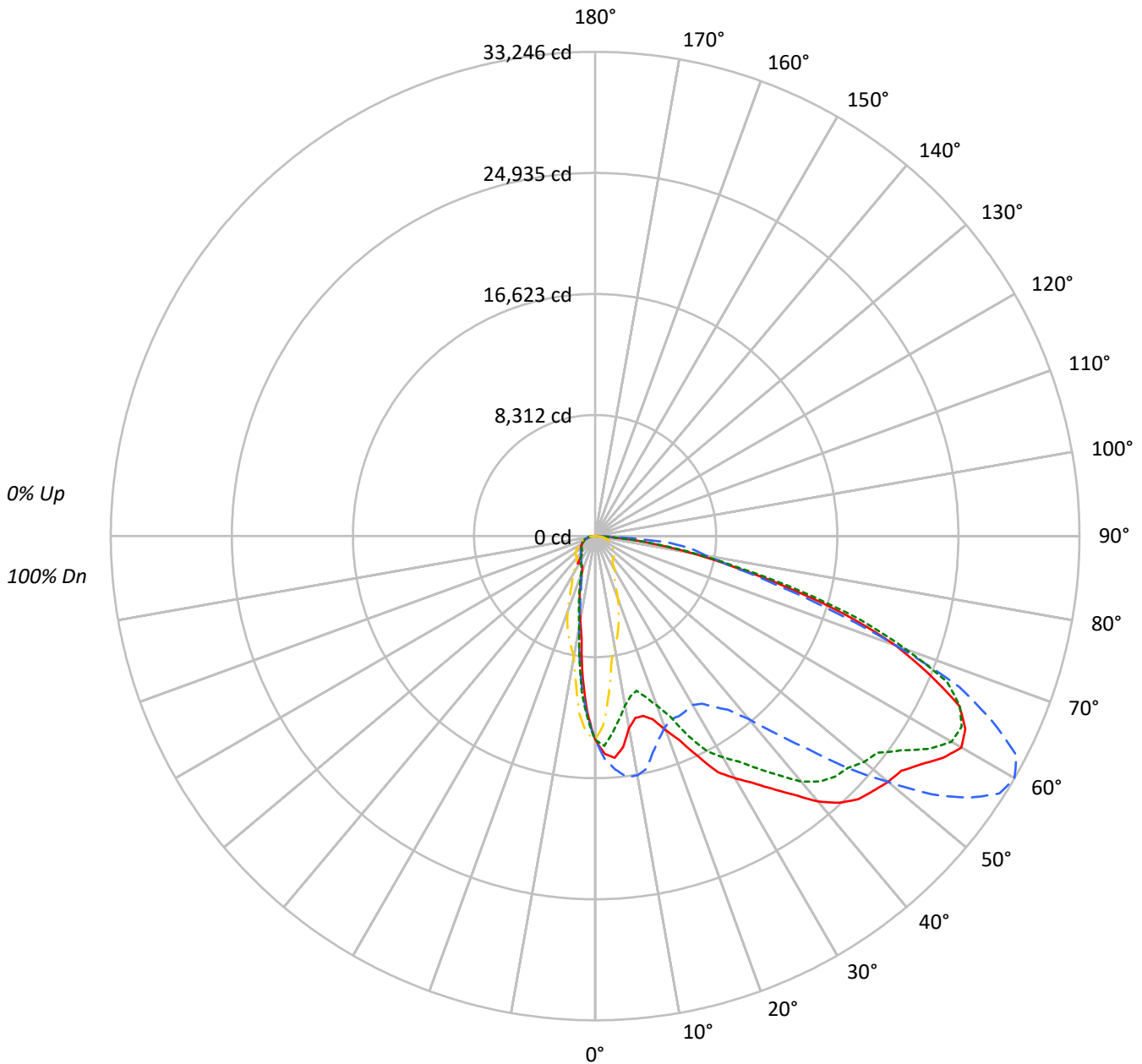
Lumens per Lamp: N/A
 Luminaire Lumens: 43725.0 lumens
 Efficiency: N/A
 Efficacy: 82.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 532.7
 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

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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	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°	75162	75162	75162	75162
5°	82575	73353	52605	57425
10°	73141	64555	31907	34239
15°	71221	61278	22588	23452
20°	81208	70876	14775	16330
25°	98942	89843	12900	13361
30°	119215	108969	13380	12415
35°	139035	127948	11087	10450
40°	167071	154534	10357	9812
45°	194431	177601	10482	9744
50°	219733	201868	10719	10069
55°	256258	240606	11102	10556
60°	312547	303988	11065	11065
65°	351250	351744	11362	11856
70°	345204	357413	11904	12209
75°	284757	303713	12504	13310
80°	205598	215820	13826	14427
85°	113789	122168	15574	19161

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.0	2.5
10°-20°	2290.6	5.2
20°-30°	3351.5	7.7
30°-40°	4722.1	10.8
40°-50°	6489.5	14.8
50°-60°	8844.5	20.2
60°-70°	9679.8	22.1
70°-80°	5588.5	12.8
80°-90°	1673.5	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°	6727.1	15.4
0°-40°	11449.1	26.2
0°-60°	26783.1	61.3
0°-90°	43725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43725.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13966	13966	13966	13966	13966	
5°	15284	13578	9737	10629	15284	1388
15°	12782	10998	4054	4209	12782	3735
25°	16662	15129	2172	2250	16662	7802
35°	21162	19474	1688	1590	21162	13418
45°	25545	23334	1377	1280	25545	19634
55°	27310	25642	1183	1125	27310	24642
65°	27582	27621	892	931	27582	26399
75°	13694	14606	601	640	13694	14710
85°	1843	1978	252	310	1843	2557
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°	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5
2.5°	14954.7	14896.6	14954.7	15168.1	15226.3	15323.3	15323.3	15187.5	14935.3	14819.0	14625.0
5°	15284.5	15187.5	15672.4	16118.5	16467.7	16428.9	16099.1	15827.6	15323.3	14566.8	13849.1
7.5°	14625.0	14722.0	15071.1	16234.9	17049.6	17204.7	16681.0	16137.9	15051.7	14004.3	13034.5
10°	13383.6	13519.4	14275.9	15478.5	16758.6	17010.8	16681.0	16021.6	14722.0	13422.4	12297.4
12.5°	12782.3	13092.7	13538.8	14993.5	15905.2	16506.5	16351.3	15924.6	14469.8	12937.5	11851.3
15°	12782.3	12859.9	13519.4	14741.4	15265.1	15284.5	15342.7	15420.3	14547.4	13150.9	11696.1
17.5°	13189.7	13403.0	13965.5	14722.0	14819.0	14586.2	14586.2	14916.0	14702.6	13752.2	12258.6
20°	14178.9	14101.3	14838.4	15148.7	14625.0	14043.1	13984.9	14547.4	14877.2	14392.2	13286.6
22.5°	15168.1	15517.2	16118.5	15420.3	14450.4	13674.6	13597.0	14295.3	15400.9	15497.9	14469.8
25°	16661.6	17010.8	17321.1	16467.7	14431.0	13577.6	13635.8	14178.9	16041.0	17069.0	16448.3
27.5°	18271.6	18484.9	18931.0	17612.1	14896.6	13461.2	13519.4	14334.1	16642.2	18097.0	18000.0
30°	19183.2	19416.0	19319.0	17825.4	15206.9	13538.8	13383.6	14547.4	16312.5	18097.0	19008.6
32.5°	20075.4	19939.7	19881.5	18174.6	15594.8	14023.7	13635.8	14993.5	16506.5	18387.9	20308.2
35°	21161.6	20967.7	20812.5	18853.5	16234.9	14489.2	14314.7	15575.4	16933.2	18989.2	21355.6
37.5°	22364.2	22364.2	21607.8	19357.8	16991.4	15245.7	15051.7	16409.5	17612.1	19357.8	22791.0
40°	23780.2	23838.4	22500.0	20036.6	17844.8	16448.3	16390.1	17495.7	18271.6	19900.9	24168.1
42.5°	24827.6	24866.4	23275.9	20288.8	18834.1	18116.4	18368.5	19241.4	19028.0	20385.8	24265.1
45°	25545.3	25351.3	23819.0	21006.5	19920.3	20618.5	20696.1	20948.3	20017.2	20676.7	24653.0
47.5°	25894.4	25855.6	24051.7	21840.5	22209.1	23159.5	23605.6	23256.5	20928.9	20366.4	24653.0
50°	26243.5	25913.8	24265.1	22984.9	24439.7	26359.9	26262.9	25622.9	22189.7	20754.3	24284.5
52.5°	26476.3	26185.4	24691.8	24012.9	26573.3	28745.7	29133.6	27950.4	23663.8	21472.0	24459.1
55°	27310.4	27077.6	25972.0	25409.5	29036.6	31267.3	31325.4	29676.7	25215.5	22655.2	25603.5
57.5°	28319.0	28454.8	27737.1	27387.9	30918.1	33109.9	32896.6	30956.9	26534.5	24090.5	26922.4
60°	29036.6	29250.0	29075.4	29114.2	31849.1	33730.6	33245.7	31752.2	27504.3	25176.7	28532.3
62.5°	28648.7	29075.4	29793.1	29637.9	31887.9	33284.5	32605.6	30704.8	27620.7	26592.7	29754.3
65°	27581.9	27620.7	29017.3	29870.7	30142.3	30976.3	30084.1	28512.9	26418.1	27465.5	29579.8
67.5°	24847.0	25157.3	26418.1	28086.2	26941.8	27135.8	27058.2	24788.8	24594.8	26864.2	28241.4
70°	21937.5	22150.9	23528.0	25487.1	22752.2	21840.5	22015.1	20327.6	21122.9	25002.2	25545.3
72.5°	18135.8	18271.6	19842.7	21569.0	18252.2	16622.9	17030.2	15653.0	16778.0	21879.3	21549.6
75°	13694.0	13946.1	15168.1	17204.7	13441.8	12394.4	12801.7	12239.2	13286.6	18019.4	16719.8
77.5°	9737.1	9543.1	11056.0	13461.2	10105.6	9484.9	9523.7	9620.7	10745.7	15187.5	12006.5
80°	6633.6	6691.8	8049.6	9872.8	7933.2	7836.2	7739.2	8515.1	9019.4	12025.9	8728.5
82.5°	3937.5	3937.5	5431.0	7021.6	6265.1	7060.3	6614.2	7312.5	7060.3	8844.8	5722.0
85°	1842.7	1842.7	2793.1	5062.5	4849.1	5819.0	4946.1	5528.0	5217.7	6168.1	2579.7
87.5°	310.3	271.6	562.5	2482.8	1997.8	2269.4	892.2	2948.3	3278.0	4306.0	640.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5
2.5°	14411.6	14275.9	14004.3	13655.2	13364.2	12995.7	12879.3	12627.2	12278.0	12239.2	12084.1
5°	13577.6	13112.1	12530.2	11812.5	11327.6	10823.3	10396.6	10144.4	9853.5	9814.7	9737.1
7.5°	12666.0	12084.1	11114.2	10260.8	9426.7	8631.5	8243.5	7758.6	7428.9	7176.7	7060.3
10°	11812.5	11269.4	10066.8	8903.0	8166.0	7642.2	7176.7	6672.4	6265.1	5954.7	5838.4
12.5°	11250.0	10609.9	9310.3	8204.7	7661.6	7060.3	6536.6	5993.5	5469.8	5062.5	4849.1
15°	10997.8	10396.6	9077.6	7855.6	7060.3	6226.3	5625.0	5081.9	4441.8	4150.9	4053.9
17.5°	11599.1	10706.9	9000.0	7448.3	6323.3	5372.8	4635.8	4053.9	3588.4	3297.4	3181.0
20°	12375.0	11269.4	9135.8	6963.4	5625.0	4558.2	3743.5	3122.8	2812.5	2599.1	2579.7
22.5°	13364.2	12103.5	9349.1	6614.2	4849.1	3665.9	2928.9	2560.3	2347.0	2327.6	2288.8
25°	15129.3	13616.4	9698.3	6148.7	4228.4	3025.9	2502.2	2288.8	2191.8	2133.6	2172.4
27.5°	16642.2	14605.6	9950.4	5857.8	3976.3	2851.3	2424.6	2191.8	2094.8	2075.4	2094.8
30°	17534.5	15517.2	9872.8	5314.7	3472.0	2715.5	2579.7	2502.2	2308.2	2153.0	2153.0
32.5°	18349.1	16099.1	9853.5	4829.7	2967.7	2269.4	2153.0	2094.8	2211.2	2288.8	2230.6
35°	19474.1	17010.8	9795.3	4558.2	2754.3	2094.8	1900.9	1745.7	1668.1	1629.3	1687.5
37.5°	20676.7	17631.5	9640.1	4519.4	2637.9	1997.8	1842.7	1687.5	1609.9	1571.1	1551.7
40°	21995.7	18291.0	9465.5	4325.4	2579.7	1939.7	1784.5	1648.7	1551.7	1493.5	1474.1
42.5°	22849.1	18814.7	9291.0	4228.4	2463.4	1900.9	1726.3	1609.9	1512.9	1435.3	1435.3
45°	23334.1	19435.4	9116.4	4131.5	2327.6	1920.3	1726.3	1571.1	1454.7	1415.9	1377.2
47.5°	23547.4	19900.9	9058.2	3976.3	2211.2	1842.7	1687.5	1532.3	1415.9	1338.4	1319.0
50°	24109.9	20890.1	9271.6	3859.9	2075.4	1765.1	1784.5	1512.9	1396.6	1299.6	1280.2
52.5°	24439.7	21685.4	9737.1	3685.3	1978.4	1668.1	1745.7	1474.1	1338.4	1241.4	1241.4
55°	25642.3	23004.3	10241.4	3549.6	1862.1	1532.3	1609.9	1396.6	1241.4	1183.2	1183.2
57.5°	27174.6	24400.9	10668.1	3491.4	1784.5	1435.3	1435.3	1357.8	1183.2	1105.6	1086.2
60°	28241.4	25545.3	10920.3	3452.6	1706.9	1338.4	1280.2	1357.8	1125.0	1047.4	1028.0
62.5°	28357.8	24885.8	10668.1	3433.2	1687.5	1241.4	1163.8	1299.6	1066.8	989.2	950.4
65°	27620.7	23547.4	9969.8	3355.6	1668.1	1144.4	1086.2	1125.0	989.2	931.0	892.2
67.5°	26146.6	21375.0	8961.2	3316.8	1648.7	1066.8	989.2	969.8	911.6	853.4	814.7
70°	22713.4	18543.1	7778.0	3142.2	1609.9	1008.6	892.2	872.8	814.7	775.9	756.5
72.5°	19066.8	15168.1	6420.3	2909.5	1532.3	911.6	814.7	775.9	756.5	698.3	678.9
75°	14605.6	11676.7	5140.1	2579.7	1338.4	814.7	717.7	678.9	659.5	620.7	601.3
77.5°	10260.8	8689.7	3801.7	2094.8	1125.0	737.1	640.1	601.3	581.9	523.7	523.7
80°	6963.4	6090.5	2579.7	1454.7	872.8	601.3	562.5	523.7	484.9	446.1	446.1
82.5°	4325.4	4267.2	1862.1	950.4	640.1	484.9	446.1	446.1	387.9	349.1	349.1
85°	1978.4	2618.5	1299.6	659.5	484.9	368.5	368.5	349.1	310.3	252.2	252.2
87.5°	620.7	872.8	678.9	290.9	271.6	213.4	213.4	194.0	194.0	155.2	155.2
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°	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5
2.5°	12239.2	12219.8	12219.8	12142.2	12336.2	12336.2	12452.6	12355.6	12413.8	12433.2	12588.4
5°	9717.7	9872.8	9989.2	10222.0	10357.8	10416.0	10416.0	10571.1	10512.9	10629.3	10862.1
7.5°	7118.5	7312.5	7661.6	7952.6	8185.3	8262.9	8243.5	8282.3	8340.5	8204.7	8243.5
10°	5760.8	5625.0	5741.4	6012.9	6226.3	6478.5	6284.5	6265.1	6323.3	6265.1	6381.5
12.5°	4810.3	4655.2	4558.2	4558.2	4713.4	4829.7	4771.6	4868.5	5081.9	5140.1	5275.9
15°	3898.7	3762.9	3685.3	3588.4	3743.5	3782.3	3840.5	3976.3	4131.5	4209.1	4364.2
17.5°	3122.8	3122.8	3122.8	3045.3	3103.4	3161.6	3181.0	3355.6	3375.0	3452.6	3510.8
20°	2560.3	2618.5	2715.5	2754.3	2812.5	2812.5	2773.7	2870.7	2793.1	2851.3	2890.1
22.5°	2308.2	2385.8	2424.6	2444.0	2521.6	2540.9	2444.0	2463.4	2482.8	2424.6	2444.0
25°	2172.4	2211.2	2172.4	2191.8	2211.2	2172.4	2191.8	2230.6	2211.2	2250.0	2230.6
27.5°	2114.2	2075.4	2056.0	2036.6	2036.6	1997.8	2017.2	2017.2	2056.0	2075.4	2075.4
30°	2114.2	2056.0	1978.4	1920.3	1920.3	1862.1	1900.9	1939.7	1959.1	1997.8	1997.8
32.5°	2172.4	2056.0	1920.3	1862.1	1803.9	1765.1	1803.9	1862.1	1939.7	1959.1	1978.4
35°	1726.3	1784.5	1765.1	1687.5	1668.1	1668.1	1648.7	1648.7	1590.5	1590.5	1571.1
37.5°	1551.7	1532.3	1571.1	1590.5	1609.9	1551.7	1551.7	1474.1	1454.7	1474.1	1474.1
40°	1454.7	1454.7	1454.7	1512.9	1532.3	1493.5	1435.3	1396.6	1396.6	1396.6	1415.9
42.5°	1415.9	1377.2	1357.8	1396.6	1454.7	1415.9	1357.8	1338.4	1338.4	1357.8	1357.8
45°	1357.8	1338.4	1319.0	1299.6	1377.2	1319.0	1299.6	1280.2	1280.2	1280.2	1299.6
47.5°	1299.6	1280.2	1241.4	1241.4	1260.8	1241.4	1222.0	1222.0	1222.0	1260.8	1260.8
50°	1260.8	1241.4	1202.6	1202.6	1202.6	1202.6	1183.2	1183.2	1183.2	1202.6	1222.0
52.5°	1202.6	1183.2	1163.8	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1163.8	1183.2
55°	1144.4	1125.0	1105.6	1105.6	1125.0	1125.0	1105.6	1125.0	1105.6	1125.0	1144.4
57.5°	1086.2	1066.8	1047.4	1066.8	1086.2	1066.8	1066.8	1066.8	1066.8	1066.8	1086.2
60°	1008.6	1008.6	1008.6	1008.6	1047.4	1047.4	1047.4	1047.4	1008.6	1028.0	1047.4
62.5°	969.8	950.4	950.4	969.8	989.2	989.2	1008.6	989.2	969.8	989.2	989.2
65°	892.2	892.2	892.2	911.6	911.6	931.0	931.0	931.0	911.6	931.0	931.0
67.5°	834.1	834.1	834.1	834.1	872.8	872.8	872.8	872.8	853.4	853.4	872.8
70°	737.1	756.5	737.1	775.9	814.7	795.3	814.7	814.7	795.3	775.9	814.7
72.5°	678.9	678.9	678.9	678.9	737.1	737.1	737.1	756.5	737.1	717.7	737.1
75°	601.3	601.3	601.3	620.7	659.5	659.5	659.5	659.5	659.5	640.1	640.1
77.5°	523.7	543.1	523.7	543.1	581.9	562.5	581.9	601.3	581.9	562.5	562.5
80°	446.1	446.1	446.1	465.5	484.9	484.9	484.9	504.3	484.9	465.5	465.5
82.5°	349.1	349.1	368.5	368.5	387.9	387.9	387.9	407.3	387.9	368.5	368.5
85°	271.6	271.6	271.6	290.9	290.9	310.3	310.3	329.7	329.7	310.3	310.3
87.5°	174.6	155.2	174.6	174.6	194.0	194.0	174.6	155.2	174.6	155.2	135.8
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: P598930
 CATALOG NUMBER: IFLD-L-SA7E-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5	13965.5
2.5°	12743.5	13092.7	13344.8	13519.4	13771.6	14256.5	14450.4	14799.6	14896.6	14954.7
5°	10959.1	11327.6	11870.7	12258.6	12704.7	13616.4	14314.7	14838.4	15071.1	15284.5
7.5°	8592.7	9077.6	9640.1	10144.4	10881.5	12006.5	12918.1	14004.3	14411.6	14625.0
10°	6711.2	7157.3	7778.0	8398.7	9426.7	10377.2	11676.7	12666.0	13228.5	13383.6
12.5°	5663.8	6187.5	6924.6	7681.0	8321.1	9407.3	10726.3	12161.6	12685.3	12782.3
15°	4810.3	5528.0	6284.5	7060.3	7797.4	8747.8	10163.8	11909.5	12685.3	12782.3
17.5°	3976.3	4616.4	5508.6	6342.7	7196.1	8495.7	10260.8	12122.8	12898.7	13189.7
20°	3161.6	3782.3	4480.6	5528.0	6691.8	8069.0	10474.1	12840.5	13868.5	14178.9
22.5°	2618.5	2890.1	3569.0	4577.6	5954.7	7778.0	10687.5	13965.5	15051.7	15168.1
25°	2288.8	2482.8	2909.5	3859.9	5372.8	7584.1	11191.8	15265.1	16661.6	16661.6
27.5°	2133.6	2211.2	2502.2	3355.6	4965.5	7409.5	11696.1	16700.4	18000.0	18271.6
30°	2094.8	2288.8	2444.0	2987.1	4519.4	6924.6	12161.6	17825.4	19163.8	19183.2
32.5°	2056.0	2017.2	2133.6	2599.1	3976.3	6420.3	12549.6	18969.8	20017.2	20075.4
35°	1609.9	1687.5	1881.5	2288.8	3569.0	6051.7	12743.5	19590.5	21103.5	21161.6
37.5°	1512.9	1609.9	1765.1	2114.2	3297.4	5741.4	12801.7	20793.1	22247.9	22364.2
40°	1474.1	1551.7	1668.1	1959.1	3084.1	5353.5	12918.1	22034.5	23935.4	23780.2
42.5°	1396.6	1493.5	1609.9	1881.5	2909.5	5062.5	12937.5	22713.4	24827.6	24827.6
45°	1377.2	1435.3	1571.1	1881.5	2715.5	4810.3	12627.2	23392.2	25855.6	25545.3
47.5°	1299.6	1415.9	1532.3	1823.3	2482.8	4558.2	12258.6	23741.4	25991.4	25894.4
50°	1280.2	1396.6	1590.5	1726.3	2347.0	4441.8	12181.0	24614.2	26262.9	26243.5
52.5°	1241.4	1357.8	1648.7	1648.7	2172.4	4286.6	12549.6	25002.2	26321.1	26476.3
55°	1183.2	1357.8	1532.3	1512.9	2017.2	4092.7	12956.9	26010.8	27349.1	27310.4
57.5°	1144.4	1319.0	1454.7	1377.2	1842.7	3956.9	13558.2	26980.6	28590.5	28319.0
60°	1086.2	1319.0	1299.6	1280.2	1706.9	3840.5	14062.5	27174.6	28862.1	29036.6
62.5°	1047.4	1377.2	1144.4	1183.2	1590.5	3782.3	13849.1	25719.8	28493.5	28648.7
65°	1008.6	1183.2	1047.4	1086.2	1551.7	3665.9	13015.1	23974.1	26903.0	27581.9
67.5°	931.0	969.8	969.8	1008.6	1512.9	3394.4	11308.2	20831.9	24478.5	24847.0
70°	853.4	872.8	872.8	931.0	1474.1	3084.1	9329.7	18019.4	21239.2	21937.5
72.5°	775.9	775.9	775.9	853.4	1357.8	2831.9	7681.0	13849.1	17650.9	18135.8
75°	678.9	678.9	678.9	756.5	1222.0	2579.7	6051.7	10299.6	12995.7	13694.0
77.5°	601.3	601.3	581.9	678.9	1066.8	2094.8	4364.2	7273.7	9155.2	9737.1
80°	504.3	484.9	484.9	543.1	834.1	1512.9	2812.5	5140.1	6381.5	6633.6
82.5°	407.3	387.9	368.5	407.3	601.3	950.4	1745.7	3588.4	4092.7	3937.5
85°	387.9	407.3	329.7	310.3	426.7	620.7	1105.6	2211.2	1842.7	1842.7
87.5°	155.2	135.8	135.8	116.4	213.4	232.8	484.9	407.3	310.3	310.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)