

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: P599093

Luminaire Tested: **IFLD-S-SA6D-830-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599093
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6D-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (96) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

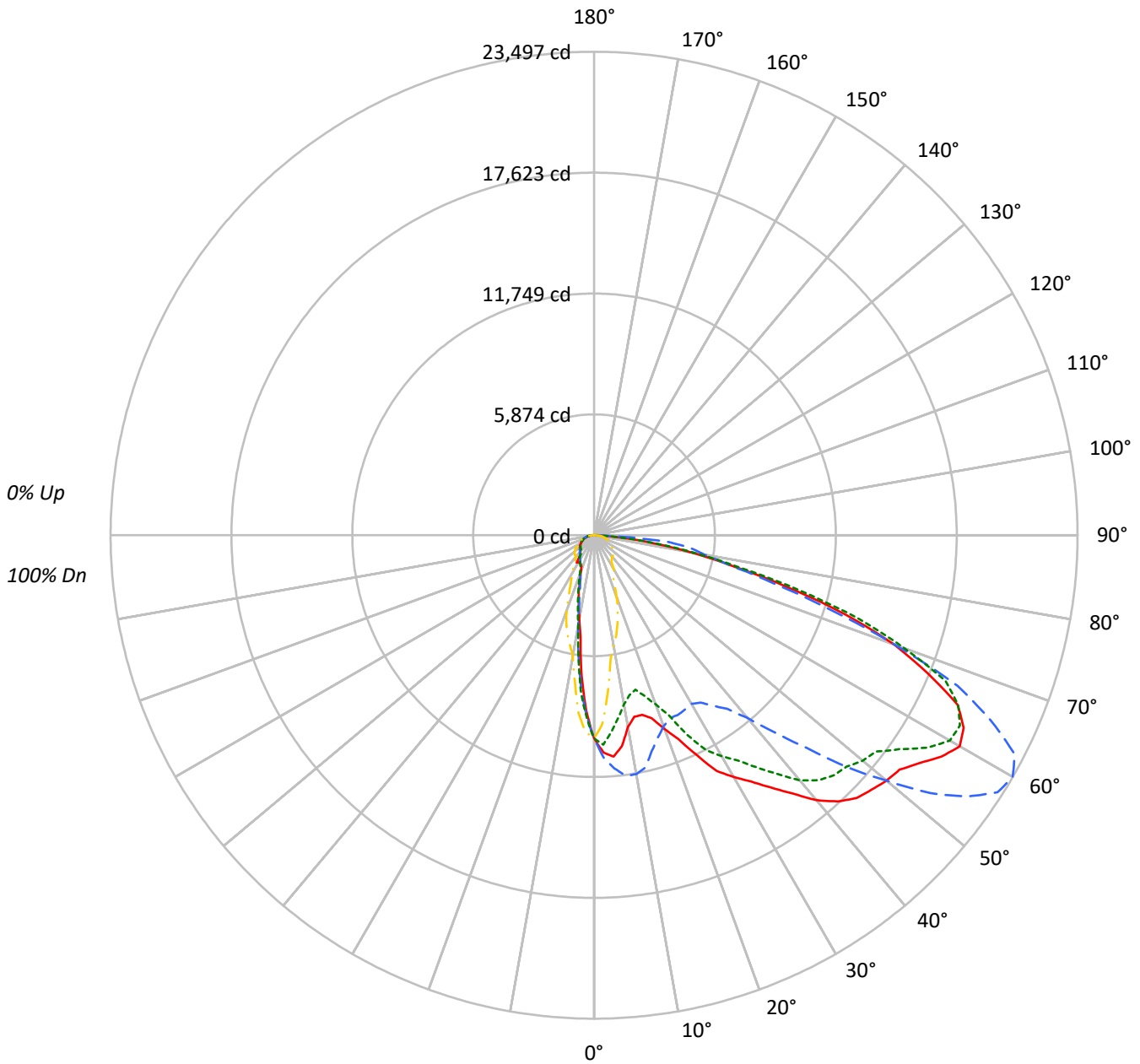
Lumens per Lamp: N/A
 Luminaire Lumens: 30902.9 lumens
 Efficiency: N/A
 Efficacy: 83.9 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	70828	70828	70828	70828
5°	77814	69123	49571	54114
10°	68924	60833	30067	32265
15°	67114	57745	21285	22100
20°	76525	66789	13923	15389
25°	93237	84662	12157	12591
30°	112341	102686	12609	11700
35°	131019	120571	10448	9847
40°	157438	145624	9760	9246
45°	183221	167361	9877	9182
50°	207064	190229	10101	9488
55°	241482	226732	10462	9947
60°	294527	286461	10428	10428
65°	330998	331463	10707	11173
70°	325301	336805	11216	11504
75°	268338	286201	11783	12543
80°	193746	203375	13030	13596
85°	107225	115129	14672	18056

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.8	2.5
10°-20°	1618.9	5.2
20°-30°	2368.7	7.7
30°-40°	3337.3	10.8
40°-50°	4586.5	14.8
50°-60°	6250.9	20.2
60°-70°	6841.3	22.1
70°-80°	3949.7	12.8
80°-90°	1182.8	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°	4754.4	15.4
0°-40°	8091.7	26.2
0°-60°	18929.1	61.3
0°-90°	30902.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30902.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9870	9870	9870	9870	9870	
5°	10802	9596	6882	7512	10802	981
15°	9034	7773	2865	2975	9034	2639
25°	11776	10693	1535	1590	11776	5514
35°	14956	13764	1193	1124	14956	9484
45°	18054	16492	973	905	18054	13876
55°	19302	18123	836	795	19302	17416
65°	19494	19521	631	658	19494	18658
75°	9678	10323	425	452	9678	10396
85°	1302	1398	178	219	1302	1807
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°	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2
2.5°	10569.4	10528.2	10569.4	10720.2	10761.3	10829.8	10829.8	10733.9	10555.7	10473.4	10336.3
5°	10802.4	10733.9	11076.6	11391.9	11638.6	11611.2	11378.2	11186.2	10829.8	10295.2	9788.0
7.5°	10336.3	10404.9	10651.6	11474.1	12049.9	12159.6	11789.4	11405.6	10637.9	9897.6	9212.2
10°	9459.0	9554.9	10089.6	10939.5	11844.3	12022.5	11789.4	11323.3	10404.9	9486.4	8691.3
12.5°	9034.0	9253.3	9568.6	10596.8	11241.1	11666.0	11556.4	11254.8	10226.6	9143.7	8376.0
15°	9034.0	9088.8	9554.9	10418.6	10788.7	10802.4	10843.5	10898.4	10281.5	9294.5	8266.3
17.5°	9321.9	9472.7	9870.2	10404.9	10473.4	10308.9	10308.9	10541.9	10391.1	9719.4	8663.9
20°	10021.0	9966.2	10487.1	10706.4	10336.3	9925.1	9883.9	10281.5	10514.5	10171.8	9390.4
22.5°	10720.2	10966.9	11391.9	10898.4	10212.9	9664.6	9609.8	10103.3	10884.7	10953.2	10226.6
25°	11775.7	12022.5	12241.8	11638.6	10199.2	9596.0	9637.2	10021.0	11337.0	12063.6	11624.9
27.5°	12913.5	13064.3	13379.6	12447.4	10528.2	9513.8	9554.9	10130.7	11762.0	12790.2	12721.6
30°	13557.8	13722.3	13653.8	12598.2	10747.6	9568.6	9459.0	10281.5	11529.0	12790.2	13434.5
32.5°	14188.4	14092.5	14051.4	12845.0	11021.7	9911.3	9637.2	10596.8	11666.0	12995.8	14352.9
35°	14956.1	14819.0	14709.4	13324.8	11474.1	10240.4	10117.0	11008.0	11967.6	13420.8	15093.2
37.5°	15806.1	15806.1	15271.4	13681.2	12008.8	10775.0	10637.9	11597.5	12447.4	13681.2	16107.6
40°	16806.8	16847.9	15902.0	14161.0	12611.9	11624.9	11583.8	12365.2	12913.5	14065.1	17081.0
42.5°	17547.1	17574.5	16450.4	14339.2	13311.1	12803.9	12982.1	13599.0	13448.2	14407.8	17149.5
45°	18054.3	17917.2	16834.2	14846.5	14078.8	14572.3	14627.1	14805.3	14147.3	14613.4	17423.7
47.5°	18301.0	18273.6	16998.7	15435.9	15696.4	16368.1	16683.4	16436.7	14791.6	14394.1	17423.7
50°	18547.8	18314.7	17149.5	16244.7	17272.9	18630.0	18561.5	18109.1	15682.7	14668.2	17163.2
52.5°	18712.3	18506.7	17451.1	16971.3	18780.8	20316.2	20590.4	19754.1	16724.5	15175.5	17286.6
55°	19301.8	19137.3	18355.9	17958.3	20521.8	22098.3	22139.4	20974.2	17821.2	16011.7	18095.4
57.5°	20014.6	20110.6	19603.4	19356.6	21851.6	23400.6	23249.8	21879.0	18753.4	17026.1	19027.6
60°	20521.8	20672.6	20549.2	20576.7	22509.6	23839.3	23496.6	22441.0	19438.8	17793.8	20165.4
62.5°	20247.7	20549.2	21056.5	20946.8	22537.0	23524.0	23044.2	21700.8	19521.1	18794.5	21029.0
65°	19493.7	19521.1	20508.1	21111.3	21303.2	21892.7	21262.1	20151.7	18671.2	19411.4	20905.7
67.5°	17560.8	17780.1	18671.2	19850.1	19041.3	19178.4	19123.5	17519.6	17382.6	18986.5	19959.8
70°	15504.5	15655.3	16628.6	18013.1	16080.2	15435.9	15559.3	14366.7	14928.7	17670.4	18054.3
72.5°	12817.6	12913.5	14023.9	15244.0	12899.8	11748.3	12036.2	11062.9	11858.0	15463.3	15230.3
75°	9678.3	9856.5	10720.2	12159.6	9500.1	8759.8	9047.7	8650.1	9390.4	12735.3	11816.8
77.5°	6881.7	6744.6	7813.9	9513.8	7142.2	6703.5	6730.9	6799.5	7594.6	10733.9	8485.6
80°	4688.4	4729.5	5689.1	6977.7	5606.8	5538.3	5469.7	6018.1	6374.5	8499.4	6168.9
82.5°	2782.9	2782.9	3838.4	4962.5	4427.9	4989.9	4674.6	5168.2	4989.9	6251.1	4044.0
85°	1302.3	1302.3	1974.0	3578.0	3427.2	4112.6	3495.7	3907.0	3687.6	4359.3	1823.2
87.5°	219.3	191.9	397.6	1754.7	1412.0	1603.9	630.6	2083.7	2316.8	3043.3	452.4
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°	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2
2.5°	10185.5	10089.6	9897.6	9650.9	9445.3	9184.8	9102.5	8924.3	8677.6	8650.1	8540.5
5°	9596.0	9267.0	8855.8	8348.6	8005.8	7649.4	7347.8	7169.6	6964.0	6936.6	6881.7
7.5°	8951.7	8540.5	7855.0	7251.9	6662.4	6100.3	5826.2	5483.5	5250.4	5072.2	4989.9
10°	8348.6	7964.7	7114.8	6292.3	5771.3	5401.2	5072.2	4715.8	4427.9	4208.6	4126.3
12.5°	7951.0	7498.6	6580.1	5798.8	5414.9	4989.9	4619.8	4236.0	3865.8	3578.0	3427.2
15°	7772.8	7347.8	6415.6	5552.0	4989.9	4400.5	3975.5	3591.7	3139.3	2933.6	2865.1
17.5°	8197.8	7567.2	6360.8	5264.1	4469.0	3797.3	3276.4	2865.1	2536.1	2330.5	2248.2
20°	8746.1	7964.7	6456.8	4921.4	3975.5	3221.5	2645.8	2207.1	1987.8	1837.0	1823.2
22.5°	9445.3	8554.2	6607.6	4674.6	3427.2	2590.9	2070.0	1809.5	1658.7	1645.0	1617.6
25°	10692.7	9623.5	6854.3	4345.6	2988.5	2138.5	1768.4	1617.6	1549.1	1508.0	1535.4
27.5°	11762.0	10322.6	7032.5	4140.0	2810.3	2015.2	1713.6	1549.1	1480.5	1466.8	1480.5
30°	12392.6	10966.9	6977.7	3756.2	2453.8	1919.2	1823.2	1768.4	1631.3	1521.7	1521.7
32.5°	12968.4	11378.2	6964.0	3413.5	2097.4	1603.9	1521.7	1480.5	1562.8	1617.6	1576.5
35°	13763.5	12022.5	6922.9	3221.5	1946.6	1480.5	1343.4	1233.8	1178.9	1151.5	1192.7
37.5°	14613.4	12461.2	6813.2	3194.1	1864.4	1412.0	1302.3	1192.7	1137.8	1110.4	1096.7
40°	15545.6	12927.2	6689.8	3057.0	1823.2	1370.9	1261.2	1165.2	1096.7	1055.6	1041.9
42.5°	16148.8	13297.4	6566.4	2988.5	1741.0	1343.4	1220.1	1137.8	1069.3	1014.4	1014.4
45°	16491.5	13736.1	6443.1	2919.9	1645.0	1357.2	1220.1	1110.4	1028.1	1000.7	973.3
47.5°	16642.3	14065.1	6401.9	2810.3	1562.8	1302.3	1192.7	1083.0	1000.7	945.9	932.2
50°	17039.8	14764.2	6552.7	2728.0	1466.8	1247.5	1261.2	1069.3	987.0	918.5	904.8
52.5°	17272.9	15326.3	6881.7	2604.6	1398.3	1178.9	1233.8	1041.9	945.9	877.4	877.4
55°	18122.8	16258.4	7238.2	2508.7	1316.0	1083.0	1137.8	987.0	877.4	836.2	836.2
57.5°	19205.8	17245.5	7539.8	2467.6	1261.2	1014.4	1014.4	959.6	836.2	781.4	767.7
60°	19959.8	18054.3	7718.0	2440.1	1206.4	945.9	904.8	959.6	795.1	740.3	726.6
62.5°	20042.0	17588.2	7539.8	2426.4	1192.7	877.4	822.5	918.5	754.0	699.1	671.7
65°	19521.1	16642.3	7046.2	2371.6	1178.9	808.8	767.7	795.1	699.1	658.0	630.6
67.5°	18479.2	15106.9	6333.4	2344.2	1165.2	754.0	699.1	685.4	644.3	603.2	575.8
70°	16052.8	13105.5	5497.2	2220.8	1137.8	712.8	630.6	616.9	575.8	548.3	534.6
72.5°	13475.6	10720.2	4537.6	2056.3	1083.0	644.3	575.8	548.3	534.6	493.5	479.8
75°	10322.6	8252.6	3632.8	1823.2	945.9	575.8	507.2	479.8	466.1	438.7	425.0
77.5°	7251.9	6141.5	2686.9	1480.5	795.1	520.9	452.4	425.0	411.3	370.1	370.1
80°	4921.4	4304.5	1823.2	1028.1	616.9	425.0	397.6	370.1	342.7	315.3	315.3
82.5°	3057.0	3015.9	1316.0	671.7	452.4	342.7	315.3	315.3	274.2	246.8	246.8
85°	1398.3	1850.7	918.5	466.1	342.7	260.5	260.5	246.8	219.3	178.2	178.2
87.5°	438.7	616.9	479.8	205.6	191.9	150.8	150.8	137.1	137.1	109.7	109.7
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°	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2
2.5°	8650.1	8636.4	8636.4	8581.6	8718.7	8718.7	8800.9	8732.4	8773.5	8787.2	8896.9
5°	6868.0	6977.7	7059.9	7224.5	7320.4	7361.5	7361.5	7471.2	7430.1	7512.3	7676.8
7.5°	5031.1	5168.2	5414.9	5620.5	5785.0	5839.9	5826.2	5853.6	5894.7	5798.8	5826.2
10°	4071.5	3975.5	4057.8	4249.7	4400.5	4578.7	4441.6	4427.9	4469.0	4427.9	4510.1
12.5°	3399.7	3290.1	3221.5	3221.5	3331.2	3413.5	3372.3	3440.9	3591.7	3632.8	3728.7
15°	2755.4	2659.5	2604.6	2536.1	2645.8	2673.2	2714.3	2810.3	2919.9	2974.8	3084.4
17.5°	2207.1	2207.1	2207.1	2152.3	2193.4	2234.5	2248.2	2371.6	2385.3	2440.1	2481.3
20°	1809.5	1850.7	1919.2	1946.6	1987.8	1987.8	1960.3	2028.9	1974.0	2015.2	2042.6
22.5°	1631.3	1686.2	1713.6	1727.3	1782.1	1795.8	1727.3	1741.0	1754.7	1713.6	1727.3
25°	1535.4	1562.8	1535.4	1549.1	1562.8	1535.4	1549.1	1576.5	1562.8	1590.2	1576.5
27.5°	1494.2	1466.8	1453.1	1439.4	1439.4	1412.0	1425.7	1425.7	1453.1	1466.8	1466.8
30°	1494.2	1453.1	1398.3	1357.2	1357.2	1316.0	1343.4	1370.9	1384.6	1412.0	1412.0
32.5°	1535.4	1453.1	1357.2	1316.0	1274.9	1247.5	1274.9	1316.0	1370.9	1384.6	1398.3
35°	1220.1	1261.2	1247.5	1192.7	1178.9	1178.9	1165.2	1165.2	1124.1	1124.1	1110.4
37.5°	1096.7	1083.0	1110.4	1124.1	1137.8	1096.7	1096.7	1041.9	1028.1	1041.9	1041.9
40°	1028.1	1028.1	1028.1	1069.3	1083.0	1055.6	1014.4	987.0	987.0	987.0	1000.7
42.5°	1000.7	973.3	959.6	987.0	1028.1	1000.7	959.6	945.9	945.9	959.6	959.6
45°	959.6	945.9	932.2	918.5	973.3	932.2	918.5	904.8	904.8	904.8	918.5
47.5°	918.5	904.8	877.4	877.4	891.1	877.4	863.6	863.6	863.6	891.1	891.1
50°	891.1	877.4	849.9	849.9	849.9	849.9	836.2	836.2	836.2	849.9	863.6
52.5°	849.9	836.2	822.5	808.8	808.8	808.8	808.8	808.8	808.8	822.5	836.2
55°	808.8	795.1	781.4	781.4	795.1	795.1	781.4	795.1	781.4	795.1	808.8
57.5°	767.7	754.0	740.3	754.0	767.7	754.0	754.0	754.0	754.0	754.0	767.7
60°	712.8	712.8	712.8	712.8	740.3	740.3	740.3	740.3	712.8	726.6	740.3
62.5°	685.4	671.7	671.7	685.4	699.1	699.1	712.8	699.1	685.4	699.1	699.1
65°	630.6	630.6	630.6	644.3	644.3	658.0	658.0	658.0	644.3	658.0	658.0
67.5°	589.5	589.5	589.5	589.5	616.9	616.9	616.9	616.9	603.2	603.2	616.9
70°	520.9	534.6	520.9	548.3	575.8	562.1	575.8	575.8	562.1	548.3	575.8
72.5°	479.8	479.8	479.8	479.8	520.9	520.9	520.9	534.6	520.9	507.2	520.9
75°	425.0	425.0	425.0	438.7	466.1	466.1	466.1	466.1	466.1	452.4	452.4
77.5°	370.1	383.8	370.1	383.8	411.3	397.6	411.3	425.0	411.3	397.6	397.6
80°	315.3	315.3	315.3	329.0	342.7	342.7	342.7	356.4	342.7	329.0	329.0
82.5°	246.8	246.8	260.5	260.5	274.2	274.2	274.2	287.9	274.2	260.5	260.5
85°	191.9	191.9	191.9	205.6	205.6	219.3	219.3	233.0	233.0	219.3	219.3
87.5°	123.4	109.7	123.4	123.4	137.1	137.1	123.4	109.7	123.4	109.7	96.0
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: P599093
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2	9870.2
2.5°	9006.6	9253.3	9431.5	9554.9	9733.1	10075.8	10212.9	10459.7	10528.2	10569.4
5°	7745.4	8005.8	8389.7	8663.9	8979.2	9623.5	10117.0	10487.1	10651.6	10802.4
7.5°	6072.9	6415.6	6813.2	7169.6	7690.5	8485.6	9130.0	9897.6	10185.5	10336.3
10°	4743.2	5058.5	5497.2	5935.8	6662.4	7334.1	8252.6	8951.7	9349.3	9459.0
12.5°	4002.9	4373.1	4894.0	5428.6	5881.0	6648.7	7580.9	8595.3	8965.4	9034.0
15°	3399.7	3907.0	4441.6	4989.9	5510.9	6182.6	7183.3	8417.1	8965.4	9034.0
17.5°	2810.3	3262.7	3893.3	4482.7	5085.9	6004.4	7251.9	8567.9	9116.2	9321.9
20°	2234.5	2673.2	3166.7	3907.0	4729.5	5702.8	7402.7	9075.1	9801.7	10021.0
22.5°	1850.7	2042.6	2522.4	3235.2	4208.6	5497.2	7553.5	9870.2	10637.9	10720.2
25°	1617.6	1754.7	2056.3	2728.0	3797.3	5360.1	7909.9	10788.7	11775.7	11775.7
27.5°	1508.0	1562.8	1768.4	2371.6	3509.4	5236.7	8266.3	11803.1	12721.6	12913.5
30°	1480.5	1617.6	1727.3	2111.1	3194.1	4894.0	8595.3	12598.2	13544.1	13557.8
32.5°	1453.1	1425.7	1508.0	1837.0	2810.3	4537.6	8869.5	13407.0	14147.3	14188.4
35°	1137.8	1192.7	1329.7	1617.6	2522.4	4277.1	9006.6	13845.7	14915.0	14956.1
37.5°	1069.3	1137.8	1247.5	1494.2	2330.5	4057.8	9047.7	14695.7	15723.8	15806.1
40°	1041.9	1096.7	1178.9	1384.6	2179.7	3783.6	9130.0	15573.0	16916.5	16806.8
42.5°	987.0	1055.6	1137.8	1329.7	2056.3	3578.0	9143.7	16052.8	17547.1	17547.1
45°	973.3	1014.4	1110.4	1329.7	1919.2	3399.7	8924.3	16532.6	18273.6	18054.3
47.5°	918.5	1000.7	1083.0	1288.6	1754.7	3221.5	8663.9	16779.4	18369.6	18301.0
50°	904.8	987.0	1124.1	1220.1	1658.7	3139.3	8609.0	17396.3	18561.5	18547.8
52.5°	877.4	959.6	1165.2	1165.2	1535.4	3029.6	8869.5	17670.4	18602.6	18712.3
55°	836.2	959.6	1083.0	1069.3	1425.7	2892.5	9157.4	18383.3	19329.2	19301.8
57.5°	808.8	932.2	1028.1	973.3	1302.3	2796.6	9582.3	19068.7	20206.5	20014.6
60°	767.7	932.2	918.5	904.8	1206.4	2714.3	9938.8	19205.8	20398.5	20521.8
62.5°	740.3	973.3	808.8	836.2	1124.1	2673.2	9788.0	18177.7	20138.0	20247.7
65°	712.8	836.2	740.3	767.7	1096.7	2590.9	9198.5	16943.9	19013.9	19493.7
67.5°	658.0	685.4	685.4	712.8	1069.3	2399.0	7992.1	14723.1	17300.3	17560.8
70°	603.2	616.9	616.9	658.0	1041.9	2179.7	6593.9	12735.3	15011.0	15504.5
72.5°	548.3	548.3	548.3	603.2	959.6	2001.5	5428.6	9788.0	12474.9	12817.6
75°	479.8	479.8	479.8	534.6	863.6	1823.2	4277.1	7279.3	9184.8	9678.3
77.5°	425.0	425.0	411.3	479.8	754.0	1480.5	3084.4	5140.7	6470.5	6881.7
80°	356.4	342.7	342.7	383.8	589.5	1069.3	1987.8	3632.8	4510.1	4688.4
82.5°	287.9	274.2	260.5	287.9	425.0	671.7	1233.8	2536.1	2892.5	2782.9
85°	274.2	287.9	233.0	219.3	301.6	438.7	781.4	1562.8	1302.3	1302.3
87.5°	109.7	96.0	96.0	82.3	150.8	164.5	342.7	287.9	219.3	219.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)