

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: P599602

Luminaire Tested: **IFLD-S-SA2A-830-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599602
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2A-830-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (32) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

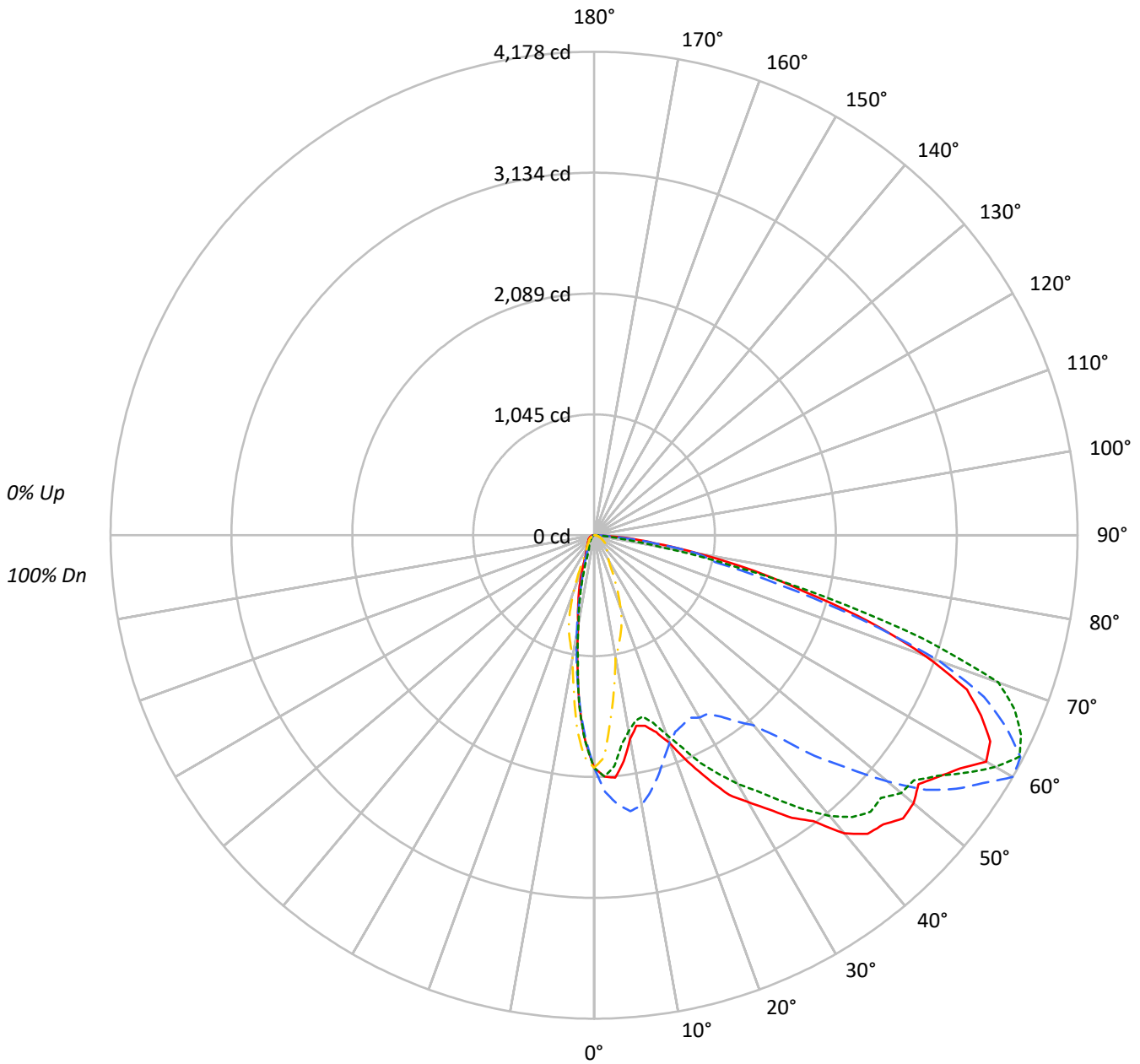
Lumens per Lamp: N/A
 Luminaire Lumens: 5343.0 lumens
 Efficiency: N/A
 Efficacy: 83.7 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 63.8
 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				
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79				
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61				
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48				
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39				
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32				
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27				
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23				
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20				
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18				
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43247	43247	43247	43247
5°	45448	43259	31605	31788
10°	39081	37584	17280	16874
15°	38000	36125	11226	8458
20°	43801	41970	6014	3008
25°	55074	51514	3898	2337
30°	66148	61643	3157	1914
35°	78332	73494	2586	1537
40°	94509	88976	2285	1163
45°	107599	102907	2128	782
50°	120706	116024	2103	479
55°	136502	136022	2087	214
60°	168447	172442	1903	60
65°	187950	207287	1742	0
70°	191649	233947	1618	0
75°	155941	172559	1539	0
80°	113386	72165	1587	0
85°	73311	30307	2124	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	2.9
10°-20°	299.3	5.6
20°-30°	414.2	7.8
30°-40°	585.3	11.0
40°-50°	796.9	14.9
50°-60°	1055.4	19.8
60°-70°	1225.4	22.9
70°-80°	694.0	13.0
80°-90°	119.9	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°	866.0	16.2
0°-40°	1451.4	27.2
0°-60°	3303.7	61.8
0°-90°	5343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5343.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2009	2009	2009	2009	2009	
5°	2103	2002	1462	1471	2103	189
15°	1705	1621	504	380	1705	500
25°	2319	2169	164	98	2319	1081
35°	2981	2796	98	58	2981	1879
45°	3534	3380	70	26	3534	2740
55°	3637	3624	56	6	3637	3295
65°	3690	4069	34	0	3690	3597
75°	1875	2075	18	0	1875	2046
85°	297	123	9	0	297	357
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	2087.4	2131.7	2133.1	2153.1	2173.0	2173.0	2220.1	2208.7	2167.3	2160.2	2130.2
5°	2103.1	2118.8	2130.2	2231.5	2317.1	2308.6	2334.3	2317.1	2237.2	2134.5	2064.6
7.5°	1967.6	1984.7	2030.3	2203.0	2318.6	2357.1	2405.6	2298.6	2214.4	2028.9	1894.8
10°	1787.8	1820.6	1904.8	2101.7	2244.4	2367.1	2367.1	2281.5	2118.8	1937.6	1773.5
12.5°	1687.9	1753.5	1799.2	1999.0	2184.4	2268.6	2265.8	2220.1	2114.5	1886.2	1700.8
15°	1705.0	1723.6	1820.6	1976.1	2098.8	2094.6	2145.9	2131.7	2057.5	1931.9	1727.9
17.5°	1783.5	1812.0	1896.2	1976.1	2034.6	2017.5	2016.1	2084.6	2088.8	2008.9	1829.2
20°	1911.9	1996.1	2036.1	2060.3	1989.0	1916.2	1907.6	2003.2	2077.4	2107.4	1950.4
22.5°	2117.4	2173.0	2254.4	2130.2	1944.7	1853.4	1836.3	1941.9	2091.7	2224.4	2107.4
25°	2318.6	2361.4	2439.8	2280.0	1994.7	1840.6	1810.6	1901.9	2145.9	2387.1	2297.2
27.5°	2531.2	2568.3	2576.8	2389.9	2021.8	1814.9	1779.2	1901.9	2191.6	2472.7	2524.0
30°	2661.0	2705.2	2713.8	2486.9	2066.0	1836.3	1819.2	1910.5	2223.0	2545.4	2686.7
32.5°	2806.5	2817.9	2810.8	2504.0	2114.5	1899.1	1827.7	1967.6	2258.6	2632.5	2835.1
35°	2980.6	3000.6	2927.8	2582.5	2223.0	1939.0	1913.4	2037.5	2320.0	2672.4	3014.8
37.5°	3113.3	3176.1	3012.0	2612.5	2244.4	2023.2	2027.5	2183.0	2362.8	2720.9	3213.2
40°	3363.0	3257.4	3154.7	2715.2	2325.7	2165.9	2143.1	2332.8	2506.9	2752.3	3343.0
42.5°	3500.0	3444.3	3210.3	2725.2	2451.3	2362.8	2368.5	2502.6	2582.5	2840.8	3378.7
45°	3534.2	3475.7	3285.9	2732.3	2575.4	2595.4	2693.8	2719.5	2693.8	2899.3	3445.7
47.5°	3621.2	3494.3	3277.4	2827.9	2776.6	2853.6	2979.2	3034.8	2845.1	2877.9	3477.1
50°	3604.1	3531.4	3258.8	2867.9	3022.0	3226.0	3310.2	3287.4	3013.4	2833.6	3442.9
52.5°	3532.8	3454.3	3315.9	2976.3	3251.7	3498.5	3615.5	3558.5	3163.2	2933.5	3420.1
55°	3636.9	3577.0	3390.1	3123.3	3424.3	3738.2	3821.0	3778.2	3347.3	3026.3	3549.9
57.5°	3749.7	3736.8	3591.3	3295.9	3628.4	3985.1	3985.1	3932.3	3507.1	3160.4	3742.5
60°	3912.3	3940.8	3739.7	3410.1	3698.3	3970.8	4177.7	4116.3	3668.3	3395.8	3960.8
62.5°	3859.5	3950.8	3930.9	3655.5	3778.2	4040.7	4153.4	4199.1	3868.1	3682.6	4251.9
65°	3689.7	3786.7	3929.4	3816.7	3718.3	3870.9	3928.0	4066.4	3968.0	3952.3	4371.7
67.5°	3487.1	3592.7	3681.2	3925.1	3597.0	3698.3	3648.3	3692.6	3859.5	4247.6	4440.2
70°	3044.8	3146.1	3285.9	3684.0	3276.0	3184.6	3171.8	3150.4	3410.1	4142.0	4129.2
72.5°	2504.0	2551.1	2782.3	2994.9	2424.1	2407.0	2427.0	2402.7	2703.8	3749.7	3537.1
75°	1874.8	1921.9	2053.2	2300.0	1650.8	1552.4	1666.5	1779.2	2064.6	2910.7	2541.1
77.5°	1409.7	1469.6	1552.4	1720.7	1211.4	1057.3	1073.0	1180.0	1492.4	2331.4	1424.0
80°	914.6	907.5	1067.3	1184.3	911.7	940.3	900.3	978.8	1081.5	1247.0	727.7
82.5°	527.9	535.1	602.1	679.2	634.9	726.2	523.6	874.6	771.9	507.9	271.1
85°	296.8	309.6	371.0	470.8	398.1	266.8	218.3	433.7	485.1	208.3	131.3
87.5°	30.0	25.7	49.9	178.4	108.4	44.2	65.6	104.2	117.0	78.5	38.5
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°	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	2087.4	2087.4	2051.8	1991.8	1967.6	1924.8	1866.3	1884.8	1864.8	1792.1	1773.5
5°	2001.8	1933.3	1859.1	1767.8	1715.0	1606.6	1572.3	1511.0	1521.0	1459.6	1462.5
7.5°	1823.5	1769.2	1643.7	1523.8	1419.7	1325.5	1192.8	1142.9	1094.4	1070.1	1098.6
10°	1719.3	1618.0	1446.8	1289.8	1151.4	1067.3	978.8	910.3	847.5	800.4	790.5
12.5°	1643.7	1553.8	1346.9	1155.7	1047.3	978.8	897.5	803.3	741.9	660.6	636.4
15°	1620.9	1511.0	1292.7	1102.9	997.3	884.6	791.9	699.1	619.2	533.6	503.7
17.5°	1699.3	1572.3	1291.3	1060.1	911.7	790.5	662.0	557.9	476.6	398.1	379.5
20°	1832.0	1638.0	1332.6	1034.4	830.4	667.7	522.2	418.1	326.7	275.4	262.5
22.5°	1983.3	1749.3	1336.9	965.9	749.1	545.0	381.0	275.4	224.0	199.8	192.6
25°	2168.7	1927.6	1388.3	910.3	653.5	413.8	271.1	211.2	181.2	166.9	164.1
27.5°	2321.4	2051.8	1443.9	851.8	559.3	306.8	212.6	172.6	156.9	142.7	141.3
30°	2479.8	2194.4	1459.6	816.1	478.0	252.5	182.6	152.7	135.5	128.4	127.0
32.5°	2618.2	2350.0	1509.6	757.6	400.9	222.6	165.5	137.0	125.6	114.1	112.7
35°	2796.5	2439.8	1533.8	726.2	372.4	201.2	151.2	125.6	108.4	101.3	98.4
37.5°	2987.7	2526.9	1549.5	702.0	348.1	188.3	142.7	118.4	102.7	92.7	89.9
40°	3166.1	2649.6	1526.7	672.0	329.6	172.6	137.0	109.9	95.6	85.6	81.3
42.5°	3303.1	2769.4	1519.6	643.5	309.6	166.9	129.8	105.6	89.9	78.5	77.0
45°	3380.1	2850.8	1469.6	620.7	293.9	169.8	127.0	99.9	85.6	75.6	69.9
47.5°	3361.6	2913.5	1482.5	613.5	272.5	158.4	125.6	95.6	78.5	69.9	65.6
50°	3464.3	3040.5	1461.1	590.7	256.8	142.7	137.0	95.6	77.0	67.1	62.8
52.5°	3481.4	3156.1	1506.7	549.3	232.6	131.3	135.5	94.2	74.2	64.2	58.5
55°	3624.1	3290.2	1595.2	526.5	212.6	114.1	124.1	91.3	67.1	58.5	55.6
57.5°	3818.1	3568.4	1652.2	505.1	185.5	99.9	104.2	89.9	61.4	54.2	49.9
60°	4005.1	3679.7	1656.5	466.6	159.8	89.9	81.3	89.9	57.1	48.5	44.2
62.5°	4144.9	3679.7	1628.0	433.7	139.8	79.9	71.3	85.6	51.4	42.8	40.0
65°	4069.3	3581.3	1553.8	406.6	127.0	69.9	61.4	65.6	45.7	37.1	34.2
67.5°	3933.7	3274.5	1389.7	373.8	125.6	61.4	52.8	48.5	40.0	32.8	30.0
70°	3716.8	2860.8	1157.1	336.7	122.7	55.6	47.1	41.4	35.7	28.5	25.7
72.5°	2994.9	2362.8	950.3	315.3	119.9	48.5	40.0	35.7	30.0	24.3	21.4
75°	2074.6	1509.6	732.0	269.7	117.0	44.2	37.1	31.4	25.7	20.0	18.5
77.5°	1244.2	1008.8	472.3	202.6	77.0	35.7	31.4	24.3	21.4	17.1	15.7
80°	582.1	476.6	191.2	78.5	37.1	25.7	21.4	18.5	17.1	14.3	12.8
82.5°	228.3	201.2	92.7	45.7	30.0	20.0	17.1	15.7	14.3	11.4	10.0
85°	122.7	108.4	44.2	31.4	21.4	14.3	14.3	12.8	11.4	10.0	8.6
87.5°	27.1	20.0	18.5	18.5	15.7	11.4	11.4	10.0	8.6	7.1	5.7
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°	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	1763.5	1784.9	1750.7	1772.1	1742.1	1765.0	1767.8	1746.4	1752.1	1780.7	1793.5
5°	1502.4	1488.2	1456.8	1446.8	1448.2	1429.7	1436.8	1446.8	1462.5	1471.0	1496.7
7.5°	1082.9	1115.8	1114.3	1138.6	1140.0	1137.2	1117.2	1074.4	1088.7	1077.2	1091.5
10°	774.8	789.0	816.1	831.8	860.4	844.7	799.0	781.9	773.3	771.9	786.2
12.5°	619.2	585.0	582.1	587.8	602.1	583.6	560.7	540.8	550.7	570.7	586.4
15°	479.4	450.9	413.8	408.1	410.9	402.4	378.1	352.4	359.6	379.5	390.9
17.5°	368.1	335.3	309.6	292.5	286.8	256.8	221.2	199.8	194.0	192.6	202.6
20°	248.3	242.6	238.3	216.9	216.9	174.1	144.1	128.4	128.4	131.3	132.7
22.5°	185.5	178.4	179.8	175.5	164.1	129.8	114.1	109.9	109.9	112.7	112.7
25°	161.2	151.2	148.4	147.0	135.5	111.3	99.9	95.6	95.6	98.4	98.4
27.5°	137.0	134.1	129.8	124.1	114.1	95.6	88.5	84.2	85.6	87.0	85.6
30°	125.6	118.4	112.7	112.7	101.3	85.6	79.9	77.0	74.2	77.0	78.5
32.5°	111.3	107.0	104.2	99.9	87.0	75.6	69.9	67.1	65.6	65.6	67.1
35°	95.6	95.6	92.7	87.0	75.6	68.5	61.4	58.5	57.1	58.5	58.5
37.5°	85.6	81.3	82.8	77.0	67.1	59.9	52.8	49.9	49.9	48.5	49.9
40°	79.9	72.8	68.5	65.6	59.9	51.4	45.7	42.8	41.4	41.4	41.4
42.5°	71.3	65.6	57.1	55.6	54.2	44.2	37.1	35.7	34.2	32.8	32.8
45°	67.1	58.5	51.4	44.2	44.2	37.1	31.4	28.5	27.1	25.7	27.1
47.5°	61.4	52.8	44.2	37.1	35.7	30.0	24.3	21.4	20.0	20.0	20.0
50°	58.5	47.1	38.5	31.4	27.1	24.3	18.5	15.7	14.3	14.3	14.3
52.5°	54.2	44.2	34.2	27.1	21.4	18.5	14.3	11.4	10.0	10.0	10.0
55°	48.5	40.0	30.0	22.8	18.5	14.3	10.0	7.1	5.7	5.7	5.7
57.5°	45.7	35.7	25.7	20.0	14.3	10.0	5.7	4.3	4.3	2.9	4.3
60°	41.4	31.4	21.4	15.7	11.4	7.1	4.3	1.4	1.4	1.4	1.4
62.5°	35.7	27.1	18.5	12.8	8.6	4.3	1.4	0.0	0.0	0.0	0.0
65°	30.0	21.4	14.3	10.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	25.7	18.5	11.4	7.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.8	15.7	8.6	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.5	12.8	7.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.7	10.0	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	7.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.4	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: P599602
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	1812.0	1803.5	1846.3	1916.2	1951.9	2021.8	2038.9	2083.1	2071.7	2087.4
5°	1499.6	1516.7	1579.5	1682.2	1719.3	1820.6	1916.2	2011.8	2073.2	2103.1
7.5°	1112.9	1170.0	1247.0	1341.2	1436.8	1569.5	1732.1	1843.4	1903.4	1967.6
10°	829.0	890.3	978.8	1071.5	1227.1	1375.4	1538.1	1676.5	1727.9	1787.8
12.5°	652.1	747.6	850.4	950.3	1043.0	1184.3	1385.4	1586.6	1642.3	1687.9
15°	453.7	570.7	717.7	847.5	977.4	1100.1	1308.4	1552.4	1628.0	1705.0
17.5°	251.1	343.9	512.2	694.9	886.0	1074.4	1334.1	1615.1	1729.3	1783.5
20°	145.5	182.6	302.5	519.4	771.9	1018.7	1346.9	1733.6	1884.8	1911.9
22.5°	119.9	132.7	171.2	325.3	632.1	983.1	1412.5	1899.1	2053.2	2117.4
25°	102.7	112.7	132.7	195.5	478.0	907.5	1453.9	2106.0	2248.6	2318.6
27.5°	91.3	101.3	117.0	144.1	325.3	803.3	1522.4	2292.9	2435.6	2531.2
30°	79.9	88.5	104.2	122.7	225.4	686.3	1580.9	2429.9	2631.0	2661.0
32.5°	71.3	78.5	89.9	105.6	166.9	520.8	1628.0	2571.1	2740.9	2806.5
35°	61.4	69.9	77.0	89.9	127.0	392.4	1599.5	2681.0	2902.1	2980.6
37.5°	54.2	59.9	67.1	75.6	107.0	306.8	1541.0	2812.2	3040.5	3113.3
40°	45.7	49.9	58.5	67.1	97.0	236.9	1473.9	2970.6	3234.6	3363.0
42.5°	38.5	42.8	48.5	62.8	79.9	175.5	1338.3	3093.3	3391.5	3500.0
45°	30.0	35.7	44.2	62.8	64.2	129.8	1198.5	3184.6	3480.0	3534.2
47.5°	22.8	28.5	42.8	54.2	51.4	89.9	1033.0	3288.8	3571.3	3621.2
50°	17.1	22.8	48.5	47.1	42.8	68.5	928.9	3361.6	3577.0	3604.1
52.5°	11.4	17.1	40.0	35.7	35.7	59.9	900.3	3358.7	3591.3	3532.8
55°	8.6	12.8	22.8	25.7	31.4	52.8	874.6	3465.7	3595.6	3636.9
57.5°	5.7	10.0	15.7	20.0	27.1	45.7	821.8	3594.1	3728.3	3749.7
60°	2.9	7.1	11.4	15.7	22.8	40.0	747.6	3688.3	3889.5	3912.3
62.5°	1.4	4.3	8.6	12.8	18.5	31.4	670.6	3538.5	3819.6	3859.5
65°	0.0	2.9	5.7	8.6	11.4	22.8	545.0	3194.6	3542.8	3689.7
67.5°	0.0	0.0	2.9	5.7	7.1	17.1	410.9	2906.4	3287.4	3487.1
70°	0.0	0.0	1.4	1.4	4.3	12.8	262.5	2407.0	2934.9	3044.8
72.5°	0.0	0.0	0.0	0.0	1.4	8.6	152.7	1787.8	2300.0	2504.0
75°	0.0	0.0	0.0	0.0	0.0	7.1	77.0	1150.0	1600.9	1874.8
77.5°	0.0	0.0	0.0	0.0	0.0	5.7	41.4	741.9	1180.0	1409.7
80°	0.0	0.0	0.0	0.0	0.0	1.4	24.3	430.9	754.8	914.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	211.2	450.9	527.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	112.7	225.4	296.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	15.7	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)