

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: P599573

Luminaire Tested: **IFLD-S-SA2A-827-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: P599573
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2A-827-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (32) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

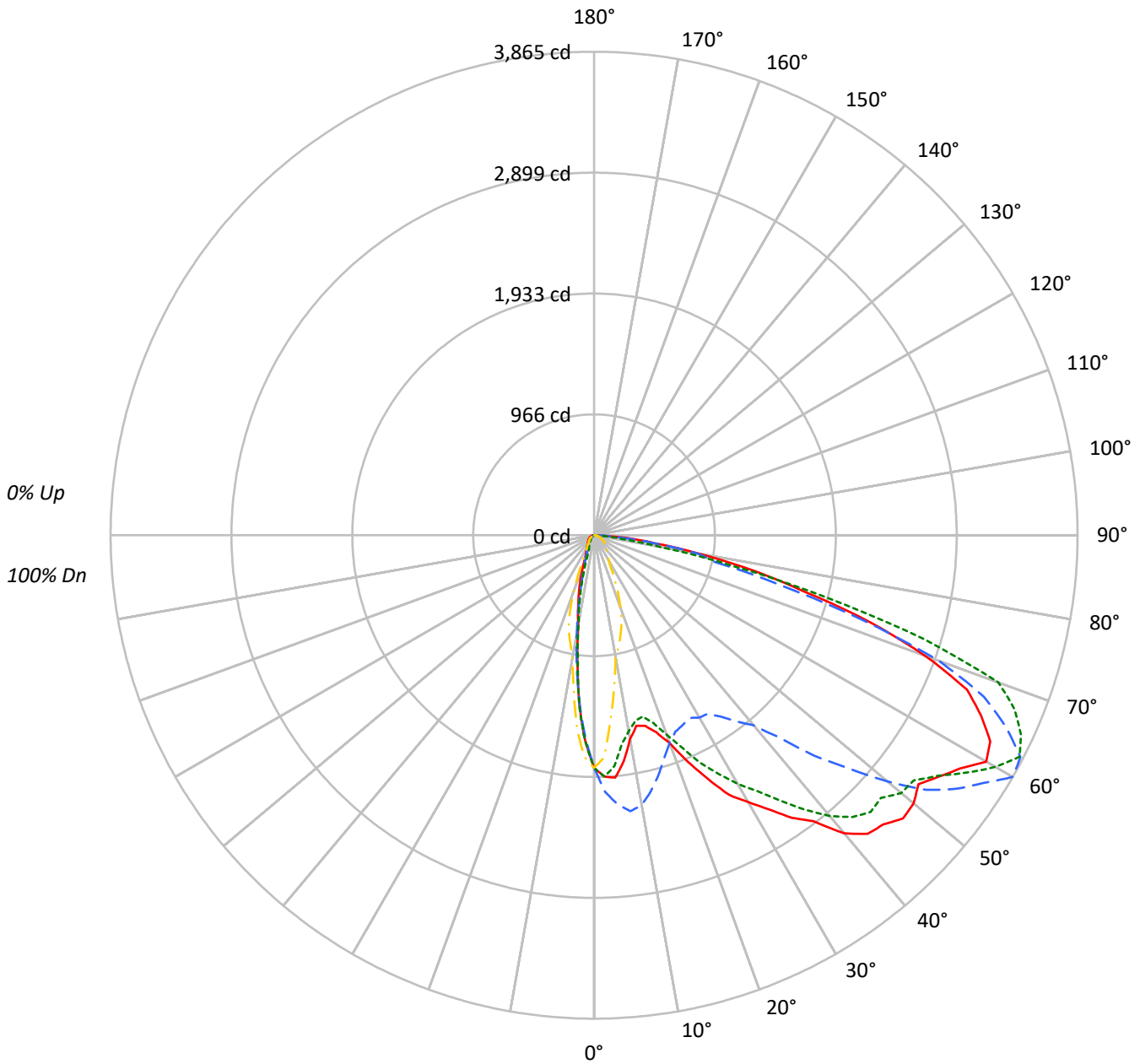
Lumens per Lamp: N/A
 Luminaire Lumens: 4943.0 lumens
 Efficiency: N/A
 Efficacy: 77.5 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	40009	40009	40009	40009
5°	42045	40020	29238	29409
10°	36154	34770	15986	15610
15°	35156	33420	10384	7825
20°	40522	38827	5565	2781
25°	50949	47659	3606	2164
30°	61193	57027	2921	1772
35°	72466	67991	2394	1422
40°	87433	82312	2113	1076
45°	99543	95201	1970	725
50°	111667	107336	1946	442
55°	126282	125836	1933	199
60°	155836	159530	1761	56
65°	173876	191761	1615	0
70°	177298	216430	1498	0
75°	144262	159634	1431	0
80°	104894	66760	1475	0
85°	67827	28035	1951	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	2.9
10°-20°	276.9	5.6
20°-30°	383.1	7.8
30°-40°	541.5	11.0
40°-50°	737.2	14.9
50°-60°	976.4	19.8
60°-70°	1133.7	22.9
70°-80°	642.0	13.0
80°-90°	110.9	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°	801.2	16.2
0°-40°	1342.7	27.2
0°-60°	3056.3	61.8
0°-90°	4943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4943.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1858	1858	1858	1858	1858	
5°	1946	1852	1353	1361	1946	175
15°	1577	1500	466	351	1577	463
25°	2145	2006	152	91	2145	1000
35°	2757	2587	91	54	2757	1738
45°	3270	3127	65	24	3270	2535
55°	3365	3353	52	5	3365	3048
65°	3413	3764	32	0	3413	3327
75°	1734	1919	17	0	1734	1893
85°	275	114	8	0	275	330
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°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1931.1	1972.0	1973.4	1991.8	2010.3	2010.3	2053.9	2043.3	2005.0	1998.4	1970.7
5°	1945.6	1960.2	1970.7	2064.4	2143.6	2135.7	2159.5	2143.6	2069.7	1974.7	1910.0
7.5°	1820.2	1836.1	1878.3	2038.0	2144.9	2180.6	2225.5	2126.5	2048.6	1877.0	1752.9
10°	1653.9	1684.3	1762.2	1944.3	2076.3	2189.8	2189.8	2110.6	1960.2	1792.5	1640.7
12.5°	1561.5	1622.2	1664.5	1849.3	2020.9	2098.7	2096.1	2053.9	1956.2	1745.0	1573.4
15°	1577.4	1594.5	1684.3	1828.2	1941.7	1937.7	1985.2	1972.0	1903.4	1787.2	1598.5
17.5°	1650.0	1676.4	1754.2	1828.2	1882.3	1866.4	1865.1	1928.5	1932.4	1858.5	1692.2
20°	1768.8	1846.6	1883.6	1906.0	1840.0	1772.7	1764.8	1853.2	1921.9	1949.6	1804.4
22.5°	1958.8	2010.3	2085.5	1970.7	1799.1	1714.6	1698.8	1796.5	1935.1	2057.8	1949.6
25°	2144.9	2184.5	2257.1	2109.3	1845.3	1702.8	1675.0	1759.5	1985.2	2208.3	2125.1
27.5°	2341.6	2375.9	2383.9	2210.9	1870.4	1679.0	1646.0	1759.5	2027.5	2287.5	2335.0
30°	2461.7	2502.7	2510.6	2300.7	1911.3	1698.8	1683.0	1767.4	2056.5	2354.8	2485.5
32.5°	2596.4	2606.9	2600.3	2316.5	1956.2	1756.9	1690.9	1820.2	2089.5	2435.3	2622.8
35°	2757.4	2775.9	2708.6	2389.1	2056.5	1793.8	1770.1	1884.9	2146.3	2472.3	2789.1
37.5°	2880.2	2938.2	2786.5	2416.9	2076.3	1871.7	1875.7	2019.6	2185.9	2517.2	2972.6
40°	3111.2	3013.5	2918.4	2511.9	2151.5	2003.7	1982.6	2158.1	2319.2	2546.2	3092.7
42.5°	3237.9	3186.4	2969.9	2521.1	2267.7	2185.9	2191.1	2315.2	2389.1	2628.1	3125.7
45°	3269.6	3215.4	3039.9	2527.7	2382.5	2401.0	2492.1	2515.9	2492.1	2682.2	3187.7
47.5°	3350.1	3232.6	3032.0	2616.2	2568.7	2639.9	2756.1	2807.6	2632.0	2662.4	3216.8
50°	3334.2	3266.9	3014.8	2653.1	2795.7	2984.4	3062.3	3041.2	2787.8	2621.5	3185.1
52.5°	3268.2	3195.6	3067.6	2753.5	3008.2	3236.6	3344.8	3292.0	2926.4	2713.9	3164.0
55°	3364.6	3309.2	3136.2	2889.4	3167.9	3458.3	3534.9	3495.3	3096.6	2799.7	3284.1
57.5°	3468.9	3457.0	3322.4	3049.1	3356.7	3686.7	3686.7	3637.8	3244.5	2923.7	3462.3
60°	3619.4	3645.8	3459.6	3154.7	3421.4	3673.5	3864.9	3808.1	3393.6	3141.5	3664.2
62.5°	3570.5	3655.0	3636.5	3381.8	3495.3	3738.2	3842.4	3884.7	3578.4	3406.8	3933.5
65°	3413.4	3503.2	3635.2	3530.9	3439.8	3581.1	3633.9	3761.9	3670.8	3656.3	4044.4
67.5°	3226.0	3323.7	3405.5	3631.2	3327.6	3421.4	3375.2	3416.1	3570.5	3929.5	4107.7
70°	2816.8	2910.5	3039.9	3408.2	3030.6	2946.2	2934.3	2914.5	3154.7	3831.9	3820.0
72.5°	2316.5	2360.1	2573.9	2770.6	2242.6	2226.8	2245.3	2222.8	2501.3	3468.9	3272.2
75°	1734.4	1778.0	1899.4	2127.8	1527.2	1436.1	1541.7	1646.0	1910.0	2692.7	2350.9
77.5°	1304.1	1359.6	1436.1	1591.9	1120.7	978.1	992.6	1091.6	1380.7	2156.8	1317.3
80°	846.1	839.5	987.3	1095.6	843.5	869.9	832.9	905.5	1000.5	1153.7	673.2
82.5°	488.4	495.0	557.0	628.3	587.4	671.9	484.4	809.1	714.1	469.9	250.8
85°	274.6	286.4	343.2	435.6	368.3	246.8	202.0	401.3	448.8	192.7	121.4
87.5°	27.7	23.8	46.2	165.0	100.3	40.9	60.7	96.4	108.2	72.6	35.6
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°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1931.1	1931.1	1898.1	1842.7	1820.2	1780.6	1726.5	1743.7	1725.2	1657.9	1640.7
5°	1851.9	1788.6	1719.9	1635.4	1586.6	1486.3	1454.6	1397.8	1407.1	1350.3	1353.0
7.5°	1686.9	1636.8	1520.6	1409.7	1313.4	1226.3	1103.5	1057.3	1012.4	990.0	1016.4
10°	1590.6	1496.8	1338.4	1193.3	1065.2	987.3	905.5	842.1	784.1	740.5	731.3
12.5°	1520.6	1437.4	1246.1	1069.2	968.9	905.5	830.3	743.1	686.4	611.1	588.7
15°	1499.5	1397.8	1195.9	1020.3	922.7	818.4	732.6	646.8	572.9	493.7	465.9
17.5°	1572.1	1454.6	1194.6	980.7	843.5	731.3	612.5	516.1	440.9	368.3	351.1
20°	1694.8	1515.3	1232.9	957.0	768.2	617.7	483.1	386.8	302.3	254.8	242.9
22.5°	1834.8	1618.3	1236.8	893.6	693.0	504.2	352.4	254.8	207.2	184.8	178.2
25°	2006.4	1783.3	1284.3	842.1	604.5	382.8	250.8	195.4	167.6	154.4	151.8
27.5°	2147.6	1898.1	1335.8	788.0	517.4	283.8	196.7	159.7	145.2	132.0	130.7
30°	2294.1	2030.1	1350.3	755.0	442.2	233.6	169.0	141.2	125.4	118.8	117.5
32.5°	2422.1	2174.0	1396.5	700.9	370.9	205.9	153.1	126.7	116.2	105.6	104.3
35°	2587.1	2257.1	1419.0	671.9	344.5	186.1	139.9	116.2	100.3	93.7	91.1
37.5°	2764.0	2337.7	1433.5	649.4	322.1	174.2	132.0	109.6	95.0	85.8	83.2
40°	2929.0	2451.2	1412.4	621.7	304.9	159.7	126.7	101.6	88.4	79.2	75.2
42.5°	3055.7	2562.1	1405.8	595.3	286.4	154.4	120.1	97.7	83.2	72.6	71.3
45°	3127.0	2637.3	1359.6	574.2	271.9	157.1	117.5	92.4	79.2	70.0	64.7
47.5°	3109.8	2695.4	1371.4	567.6	252.1	146.5	116.2	88.4	72.6	64.7	60.7
50°	3204.9	2812.9	1351.6	546.5	237.6	132.0	126.7	88.4	71.3	62.0	58.1
52.5°	3220.7	2919.8	1393.9	508.2	215.2	121.4	125.4	87.1	68.6	59.4	54.1
55°	3352.7	3043.8	1475.7	487.1	196.7	105.6	114.8	84.5	62.0	54.1	51.5
57.5°	3532.2	3301.2	1528.5	467.3	171.6	92.4	96.4	83.2	56.8	50.2	46.2
60°	3705.2	3404.2	1532.5	431.6	147.8	83.2	75.2	83.2	52.8	44.9	40.9
62.5°	3834.5	3404.2	1506.1	401.3	129.4	73.9	66.0	79.2	47.5	39.6	37.0
65°	3764.5	3313.1	1437.4	376.2	117.5	64.7	56.8	60.7	42.2	34.3	31.7
67.5°	3639.2	3029.3	1285.6	345.8	116.2	56.8	48.8	44.9	37.0	30.4	27.7
70°	3438.5	2646.5	1070.5	311.5	113.5	51.5	43.6	38.3	33.0	26.4	23.8
72.5°	2770.6	2185.9	879.1	291.7	110.9	44.9	37.0	33.0	27.7	22.4	19.8
75°	1919.2	1396.5	677.1	249.5	108.2	40.9	34.3	29.0	23.8	18.5	17.2
77.5°	1151.0	933.2	436.9	187.4	71.3	33.0	29.0	22.4	19.8	15.8	14.5
80°	538.5	440.9	176.9	72.6	34.3	23.8	19.8	17.2	15.8	13.2	11.9
82.5°	211.2	186.1	85.8	42.2	27.7	18.5	15.8	14.5	13.2	10.6	9.2
85°	113.5	100.3	40.9	29.0	19.8	13.2	13.2	11.9	10.6	9.2	7.9
87.5°	25.1	18.5	17.2	17.2	14.5	10.6	10.6	9.2	7.9	6.6	5.3
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°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1631.5	1651.3	1619.6	1639.4	1611.7	1632.8	1635.4	1615.6	1620.9	1647.3	1659.2
5°	1389.9	1376.7	1347.7	1338.4	1339.8	1322.6	1329.2	1338.4	1353.0	1360.9	1384.6
7.5°	1001.9	1032.2	1030.9	1053.3	1054.7	1052.0	1033.5	993.9	1007.1	996.6	1009.8
10°	716.7	729.9	755.0	769.5	795.9	781.4	739.2	723.3	715.4	714.1	727.3
12.5°	572.9	541.2	538.5	543.8	557.0	539.9	518.7	500.3	509.5	528.0	542.5
15°	443.5	417.1	382.8	377.5	380.2	372.2	349.8	326.0	332.6	351.1	361.7
17.5°	340.6	310.2	286.4	270.6	265.3	237.6	204.6	184.8	179.5	178.2	187.4
20°	229.7	224.4	220.4	200.6	200.6	161.0	133.3	118.8	118.8	121.4	122.8
22.5°	171.6	165.0	166.3	162.4	151.8	120.1	105.6	101.6	101.6	104.3	104.3
25°	149.2	139.9	137.3	136.0	125.4	103.0	92.4	88.4	88.4	91.1	91.1
27.5°	126.7	124.1	120.1	114.8	105.6	88.4	81.8	77.9	79.2	80.5	79.2
30°	116.2	109.6	104.3	104.3	93.7	79.2	73.9	71.3	68.6	71.3	72.6
32.5°	103.0	99.0	96.4	92.4	80.5	70.0	64.7	62.0	60.7	60.7	62.0
35°	88.4	88.4	85.8	80.5	70.0	63.4	56.8	54.1	52.8	54.1	54.1
37.5°	79.2	75.2	76.6	71.3	62.0	55.4	48.8	46.2	46.2	44.9	46.2
40°	73.9	67.3	63.4	60.7	55.4	47.5	42.2	39.6	38.3	38.3	38.3
42.5°	66.0	60.7	52.8	51.5	50.2	40.9	34.3	33.0	31.7	30.4	30.4
45°	62.0	54.1	47.5	40.9	40.9	34.3	29.0	26.4	25.1	23.8	25.1
47.5°	56.8	48.8	40.9	34.3	33.0	27.7	22.4	19.8	18.5	18.5	18.5
50°	54.1	43.6	35.6	29.0	25.1	22.4	17.2	14.5	13.2	13.2	13.2
52.5°	50.2	40.9	31.7	25.1	19.8	17.2	13.2	10.6	9.2	9.2	9.2
55°	44.9	37.0	27.7	21.1	17.2	13.2	9.2	6.6	5.3	5.3	5.3
57.5°	42.2	33.0	23.8	18.5	13.2	9.2	5.3	4.0	4.0	2.6	4.0
60°	38.3	29.0	19.8	14.5	10.6	6.6	4.0	1.3	1.3	1.3	1.3
62.5°	33.0	25.1	17.2	11.9	7.9	4.0	1.3	0.0	0.0	0.0	0.0
65°	27.7	19.8	13.2	9.2	5.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.8	17.2	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.1	14.5	7.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.5	9.2	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	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: P599573
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1676.4	1668.4	1708.0	1772.7	1805.7	1870.4	1886.2	1927.2	1916.6	1931.1
5°	1387.3	1403.1	1461.2	1556.2	1590.6	1684.3	1772.7	1861.2	1917.9	1945.6
7.5°	1029.6	1082.4	1153.7	1240.8	1329.2	1452.0	1602.4	1705.4	1760.8	1820.2
10°	766.9	823.7	905.5	991.3	1135.2	1272.4	1422.9	1551.0	1598.5	1653.9
12.5°	603.2	691.7	786.7	879.1	964.9	1095.6	1281.7	1467.8	1519.3	1561.5
15°	419.7	528.0	663.9	784.1	904.2	1017.7	1210.4	1436.1	1506.1	1577.4
17.5°	232.3	318.1	473.9	642.8	819.7	993.9	1234.2	1494.2	1599.8	1650.0
20°	134.6	169.0	279.8	480.5	714.1	942.5	1246.1	1603.8	1743.7	1768.8
22.5°	110.9	122.8	158.4	301.0	584.7	909.5	1306.8	1756.9	1899.4	1958.8
25°	95.0	104.3	122.8	180.8	442.2	839.5	1345.0	1948.3	2080.3	2144.9
27.5°	84.5	93.7	108.2	133.3	301.0	743.1	1408.4	2121.2	2253.2	2341.6
30°	73.9	81.8	96.4	113.5	208.6	634.9	1462.5	2247.9	2434.0	2461.7
32.5°	66.0	72.6	83.2	97.7	154.4	481.8	1506.1	2378.6	2535.7	2596.4
35°	56.8	64.7	71.3	83.2	117.5	363.0	1479.7	2480.2	2684.8	2757.4
37.5°	50.2	55.4	62.0	70.0	99.0	283.8	1425.6	2601.7	2812.9	2880.2
40°	42.2	46.2	54.1	62.0	89.8	219.1	1363.5	2748.2	2992.4	3111.2
42.5°	35.6	39.6	44.9	58.1	73.9	162.4	1238.1	2861.7	3137.6	3237.9
45°	27.7	33.0	40.9	58.1	59.4	120.1	1108.8	2946.2	3219.4	3269.6
47.5°	21.1	26.4	39.6	50.2	47.5	83.2	955.7	3042.5	3303.9	3350.1
50°	15.8	21.1	44.9	43.6	39.6	63.4	859.3	3109.8	3309.2	3334.2
52.5°	10.6	15.8	37.0	33.0	33.0	55.4	832.9	3107.2	3322.4	3268.2
55°	7.9	11.9	21.1	23.8	29.0	48.8	809.1	3206.2	3326.3	3364.6
57.5°	5.3	9.2	14.5	18.5	25.1	42.2	760.3	3325.0	3449.1	3468.9
60°	2.6	6.6	10.6	14.5	21.1	37.0	691.7	3412.1	3598.2	3619.4
62.5°	1.3	4.0	7.9	11.9	17.2	29.0	620.4	3273.5	3533.6	3570.5
65°	0.0	2.6	5.3	7.9	10.6	21.1	504.2	2955.4	3277.5	3413.4
67.5°	0.0	0.0	2.6	5.3	6.6	15.8	380.2	2688.8	3041.2	3226.0
70°	0.0	0.0	1.3	1.3	4.0	11.9	242.9	2226.8	2715.2	2816.8
72.5°	0.0	0.0	0.0	0.0	1.3	7.9	141.2	1653.9	2127.8	2316.5
75°	0.0	0.0	0.0	0.0	0.0	6.6	71.3	1063.9	1481.0	1734.4
77.5°	0.0	0.0	0.0	0.0	0.0	5.3	38.3	686.4	1091.6	1304.1
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.4	398.6	698.3	846.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	195.4	417.1	488.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	104.3	208.6	274.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	14.5	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)