

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628413

Luminaire Tested: **IFLD-S-SA2C-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628413  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9261 lumens	Max Intensity:	3018.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

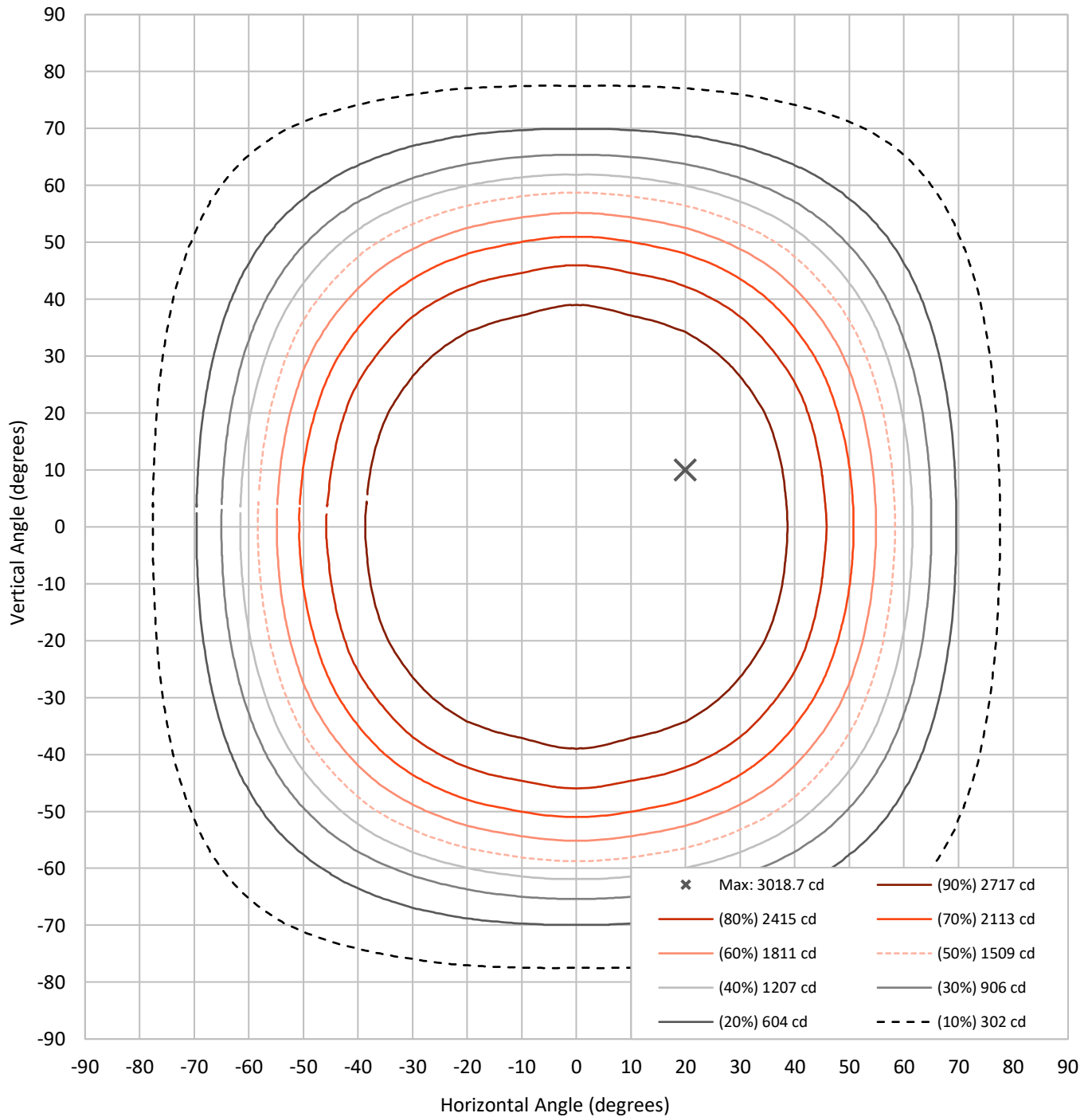
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5682.7 lumens	Field Lumens:	6812.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 108.2  
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



REPORT NUMBER: P628413  
CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

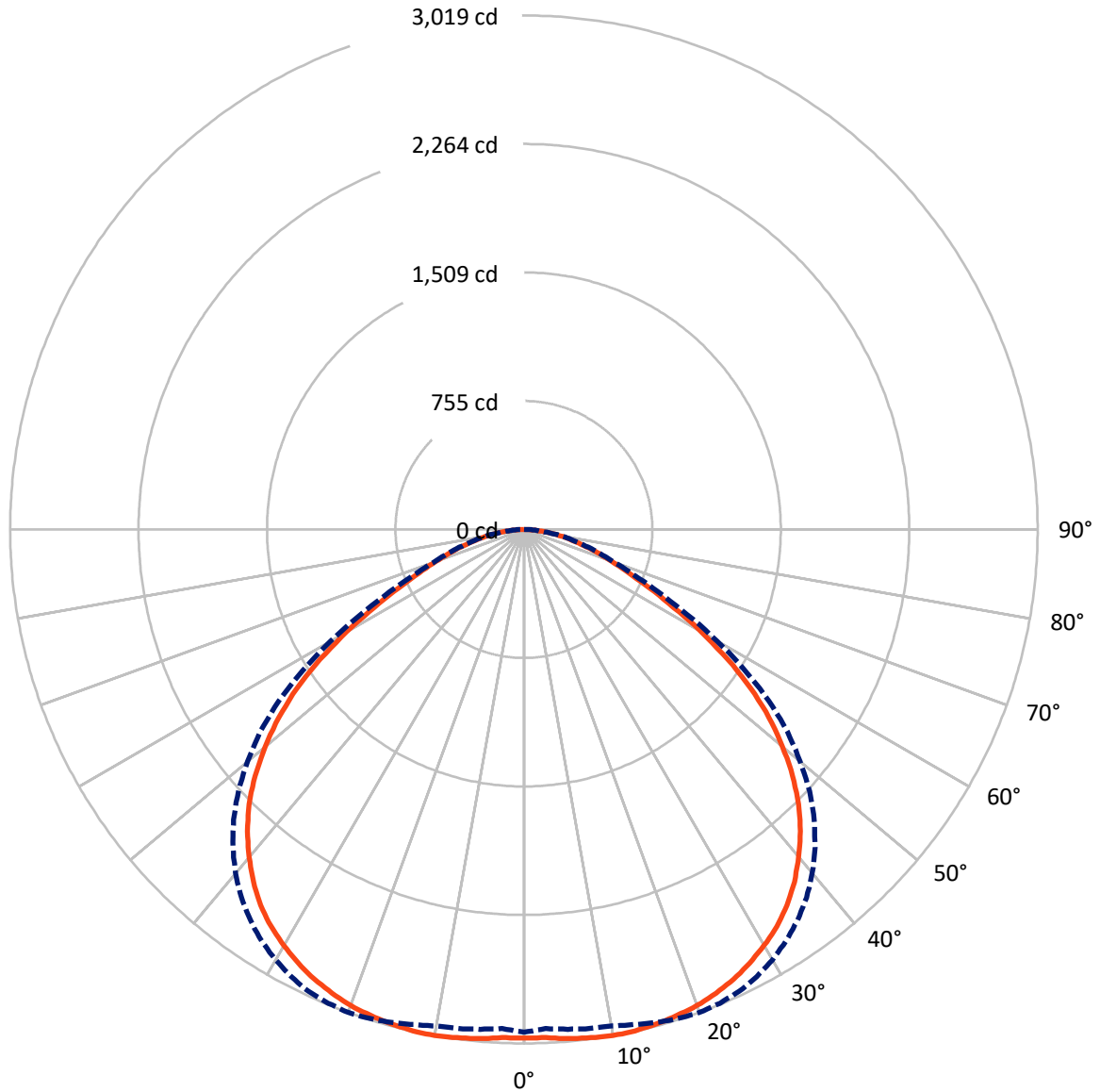
### Iso-Candela Plot





REPORT NUMBER: P628413  
CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

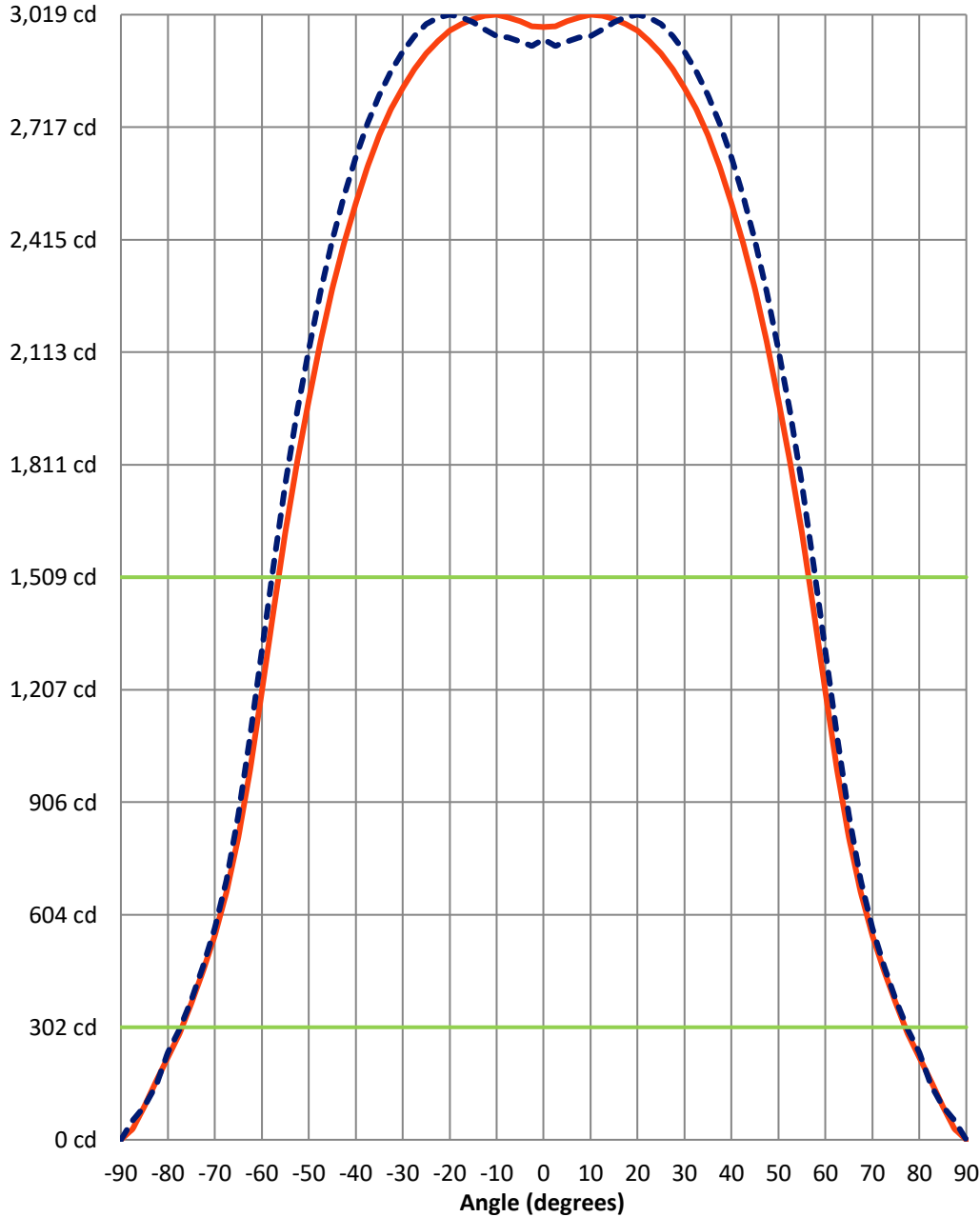
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628413  
 CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 5682.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6812.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2448.4  
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628413  
 CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	26.3	27.3	28.3	29.2	30.2	31.2	30.2	29.2	29.2	28.3
85°	65.3	67.2	68.2	75.0	81.9	85.7	90.6	89.6	89.6	88.7	87.7
82.5°	130.6	136.4	141.3	148.1	152.0	157.9	161.8	158.8	156.9	153.0	150.1
80°	231.9	233.9	234.8	235.8	230.9	230.0	228.0	225.1	221.2	216.3	211.4
77.5°	295.2	297.2	299.1	297.2	296.2	295.2	292.3	289.4	285.5	281.6	275.8
75°	390.7	390.7	390.7	387.8	385.9	382.9	378.1	373.2	366.4	358.6	349.8
72.5°	492.1	491.1	490.1	484.3	479.4	473.6	466.7	460.9	453.1	444.3	432.6
70°	598.3	600.2	601.2	593.4	587.6	579.8	571.0	560.3	548.6	535.9	519.4
67.5°	744.4	742.5	740.5	729.8	722.0	711.3	698.6	683.1	665.5	646.0	622.6
65°	925.7	928.6	922.8	912.0	897.4	879.9	860.4	838.0	811.7	782.4	749.3
62.5°	1144.9	1149.8	1143.0	1129.3	1110.8	1087.4	1060.2	1028.0	991.9	951.0	910.1
60°	1394.4	1393.4	1380.7	1362.2	1337.9	1308.6	1278.4	1243.3	1202.4	1154.7	1105.0
57.5°	1623.4	1621.4	1605.8	1587.3	1562.9	1531.8	1499.6	1462.6	1419.7	1369.0	1311.6
55°	1829.0	1827.0	1811.4	1791.9	1766.6	1735.4	1706.2	1671.1	1629.2	1575.6	1514.2
52.5°	2011.2	2012.2	1998.5	1977.1	1949.8	1919.6	1891.3	1856.2	1816.3	1762.7	1703.3
50°	2178.8	2177.8	2163.2	2143.7	2118.4	2089.1	2060.9	2025.8	1983.9	1932.2	1874.8
47.5°	2334.7	2332.7	2316.2	2294.7	2268.4	2243.1	2216.8	2185.6	2141.7	2090.1	2032.6
45°	2465.2	2461.4	2444.8	2424.3	2399.0	2376.6	2353.2	2329.8	2283.0	2235.3	2180.7
42.5°	2577.3	2576.3	2559.8	2539.3	2514.0	2494.5	2473.0	2443.8	2404.8	2361.0	2307.4
40°	2684.5	2676.7	2660.1	2640.6	2617.3	2600.7	2579.3	2550.0	2512.0	2469.1	2417.5
37.5°	2764.4	2765.4	2747.8	2726.4	2705.9	2690.3	2670.8	2643.6	2610.4	2568.5	2516.9
35°	2840.4	2835.5	2820.9	2802.4	2783.9	2766.3	2745.9	2722.5	2695.2	2656.2	2607.5
32.5°	2890.1	2896.9	2879.4	2859.9	2849.2	2835.5	2814.1	2789.7	2765.4	2726.4	2682.5
30°	2944.7	2938.8	2925.2	2908.6	2900.8	2892.0	2873.5	2850.1	2821.9	2786.8	2745.9
27.5°	2982.7	2979.7	2963.2	2947.6	2943.7	2935.9	2921.3	2900.8	2872.6	2838.4	2800.4
25°	2999.2	3001.2	2985.6	2976.8	2976.8	2971.9	2960.2	2942.7	2914.5	2883.3	2846.2
22.5°	3007.0	3005.1	2994.4	2992.4	2997.3	2993.4	2988.5	2972.9	2947.6	2922.2	2891.1
20°	3011.9	2998.3	2988.5	2996.3	3002.1	3001.2	2997.3	2987.5	2975.8	2954.4	2927.1
17.5°	3001.2	2992.4	2980.7	2992.4	3005.1	3006.0	3002.1	2996.3	2993.4	2979.7	2955.4
15°	2974.9	2968.0	2970.0	2981.7	2996.3	3001.2	3004.1	3010.9	3007.0	2996.3	2974.9
12.5°	2957.3	2948.6	2957.3	2969.0	2976.8	2979.7	3003.1	3015.8	3015.8	3006.0	2992.4
10°	2952.5	2934.9	2946.6	2957.3	2961.2	2978.8	2998.3	3011.9	3018.7	3010.9	2993.4
7.5°	2942.7	2931.0	2935.9	2940.8	2963.2	2975.8	2986.6	3001.2	3010.9	3009.9	2994.4
5°	2937.8	2923.2	2925.2	2945.6	2961.2	2970.0	2973.9	2986.6	3001.2	3004.1	2992.4
2.5°	2925.2	2918.3	2933.0	2934.9	2946.6	2953.4	2957.3	2969.0	2987.5	2994.4	2989.5
0°	2918.3	2908.6	2898.9	2906.7	2926.1	2940.8	2946.6	2964.1	2985.6	2992.4	2981.7



REPORT NUMBER: P628413  
 CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	26.3	25.3	24.4	25.3	25.3	25.3	24.4	25.3	24.4	24.4
85°	84.8	80.9	78.0	74.1	70.2	67.2	63.3	59.4	58.5	57.5	55.5
82.5°	146.2	141.3	136.4	130.6	124.7	117.9	111.1	103.3	101.3	99.4	96.5
80°	205.6	198.8	192.0	185.1	179.3	172.5	164.7	155.9	150.1	145.2	139.3
77.5°	268.0	258.2	248.5	236.8	230.0	223.1	215.3	206.6	197.8	190.0	181.2
75°	339.1	328.4	318.6	306.9	294.3	281.6	268.9	257.2	244.6	232.9	221.2
72.5°	418.0	402.4	386.8	372.2	356.6	341.0	324.5	308.9	293.3	277.7	261.1
70°	500.8	481.4	461.9	442.4	421.9	401.5	382.0	362.5	343.0	322.5	304.0
67.5°	598.3	575.9	550.5	523.3	493.0	466.7	441.4	418.0	394.6	371.2	347.9
65°	720.1	688.9	654.8	617.8	582.7	547.6	510.6	475.5	448.2	420.9	394.6
62.5°	870.1	826.3	778.6	730.8	687.9	642.1	599.3	553.5	510.6	471.6	439.5
60°	1049.4	990.0	931.5	870.1	810.7	748.3	693.8	637.3	583.7	535.9	489.2
57.5°	1247.2	1178.1	1107.9	1032.9	952.0	878.9	804.9	730.8	667.5	604.1	551.5
55°	1448.0	1374.9	1296.0	1211.2	1122.5	1029.0	928.6	845.8	759.1	685.0	616.8
52.5°	1639.0	1562.9	1481.1	1403.1	1296.9	1189.8	1079.6	970.5	869.2	774.7	691.8
50°	1809.5	1735.4	1656.5	1565.9	1467.5	1353.5	1230.7	1107.9	988.0	877.0	773.7
47.5°	1965.4	1893.3	1814.3	1723.7	1634.1	1507.4	1383.7	1248.2	1114.7	987.1	866.2
45°	2111.5	2038.5	1956.6	1869.9	1766.6	1653.6	1525.9	1389.5	1246.3	1103.0	963.7
42.5°	2244.1	2171.0	2088.2	1998.5	1896.2	1784.1	1660.4	1523.0	1378.8	1222.9	1069.9
40°	2360.0	2288.9	2209.0	2115.4	2019.9	1902.0	1780.2	1649.7	1500.6	1343.7	1175.1
37.5°	2461.4	2395.1	2316.2	2223.6	2122.3	2017.0	1891.3	1760.8	1626.3	1455.8	1283.3
35°	2551.0	2489.6	2408.7	2321.0	2221.6	2110.6	1992.7	1865.0	1719.8	1560.0	1392.4
32.5°	2629.0	2566.6	2492.5	2404.8	2308.4	2204.1	2083.3	1954.7	1817.3	1654.5	1472.3
30°	2695.2	2634.8	2564.6	2481.8	2389.2	2286.0	2168.1	2038.5	1898.1	1736.4	1556.1
27.5°	2752.7	2695.2	2627.0	2550.0	2461.4	2362.0	2243.1	2112.5	1969.3	1813.4	1633.1
25°	2802.4	2746.9	2683.5	2610.4	2522.7	2425.3	2313.2	2176.8	2033.6	1876.7	1698.4
22.5°	2847.2	2793.6	2730.3	2659.2	2579.3	2481.8	2368.8	2233.3	2088.2	1933.2	1757.8
20°	2887.2	2837.5	2775.1	2702.0	2622.1	2523.7	2411.7	2283.0	2136.9	1984.9	1811.4
17.5°	2919.3	2875.5	2813.1	2736.1	2656.2	2560.7	2451.6	2333.7	2178.8	2028.7	1856.2
15°	2941.7	2898.9	2842.3	2764.4	2686.4	2591.9	2482.8	2361.0	2216.8	2063.8	1893.3
12.5°	2957.3	2911.5	2858.9	2786.8	2708.9	2615.3	2509.1	2389.2	2248.9	2095.0	1925.4
10°	2961.2	2919.3	2866.7	2802.4	2726.4	2635.8	2531.5	2412.6	2275.2	2119.3	1951.7
7.5°	2963.2	2923.2	2875.5	2814.1	2739.1	2651.4	2548.1	2431.1	2294.7	2139.8	1971.2
5°	2962.2	2924.2	2881.3	2821.9	2746.9	2660.1	2558.8	2443.8	2308.4	2153.4	1985.8
2.5°	2959.3	2925.2	2885.2	2827.7	2755.6	2669.9	2569.5	2458.4	2323.0	2165.1	1997.5
0°	2967.1	2937.8	2887.2	2825.8	2757.6	2669.9	2568.5	2460.4	2324.9	2164.2	1996.6





REPORT NUMBER: P628413  
 CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	23.4	23.4	22.4	21.4	20.5	18.5	17.5	15.6	12.7	9.7
85°	52.6	49.7	46.8	44.8	42.9	40.9	38.0	35.1	31.2	25.3	19.5
82.5°	92.6	86.7	80.9	74.1	68.2	62.4	57.5	52.6	46.8	38.0	29.2
80°	132.5	123.7	115.0	105.2	96.5	86.7	78.0	70.2	62.4	50.7	39.0
77.5°	172.5	160.8	148.1	136.4	123.7	111.1	98.4	87.7	76.0	62.4	48.7
75°	209.5	195.9	184.2	167.6	152.0	135.4	118.9	104.3	89.6	73.1	58.5
72.5°	246.5	229.0	212.4	196.8	179.3	158.8	140.3	121.8	103.3	83.8	66.3
70°	283.6	262.1	241.7	223.1	203.7	183.2	160.8	139.3	116.9	93.5	73.1
67.5°	321.6	297.2	273.8	250.4	228.0	204.6	181.2	156.9	130.6	103.3	80.9
65°	363.5	333.2	305.0	278.7	252.4	227.0	200.7	174.4	145.2	114.0	87.7
62.5°	405.4	372.2	339.1	306.0	276.7	248.5	220.2	191.0	158.8	125.7	94.5
60°	450.2	412.2	374.2	337.1	301.1	269.9	238.7	207.5	173.4	136.4	101.3
57.5°	499.9	454.1	411.2	369.3	328.4	291.3	257.2	224.1	186.1	147.1	109.1
55°	556.4	499.9	449.2	402.4	357.6	312.8	275.8	241.7	200.7	157.9	117.9
52.5°	615.8	550.5	489.2	436.5	388.8	338.1	293.3	255.3	215.3	168.6	125.7
50°	685.0	602.2	534.0	469.7	416.1	363.5	311.8	270.9	230.0	181.2	133.5
47.5°	756.1	664.5	578.8	508.6	445.3	387.8	333.2	284.5	243.6	192.9	141.3
45°	839.0	724.0	629.5	546.6	473.6	413.1	354.7	299.1	255.3	204.6	149.1
42.5°	918.9	794.1	682.1	588.5	505.7	437.5	374.2	314.7	267.0	216.3	155.9
40°	1013.4	864.3	732.8	628.5	537.9	460.9	393.7	331.3	277.7	227.0	162.7
37.5°	1104.0	935.4	794.1	672.3	569.1	484.3	413.1	346.9	287.5	237.8	171.5
35°	1193.6	1014.4	852.6	713.3	601.2	510.6	432.6	361.5	297.2	246.5	179.3
32.5°	1279.4	1088.4	912.0	759.1	636.3	534.9	450.2	375.1	306.9	254.3	187.1
30°	1359.3	1158.6	970.5	805.8	668.4	557.4	466.7	388.8	318.6	261.1	194.9
27.5°	1432.4	1226.8	1029.0	849.7	698.6	577.8	484.3	401.5	328.4	268.0	201.7
25°	1498.6	1288.2	1082.6	889.6	725.9	600.2	500.8	414.1	337.1	273.8	207.5
22.5°	1561.0	1344.7	1131.3	929.6	759.1	622.6	516.4	425.8	345.9	279.7	213.4
20°	1615.6	1396.3	1178.1	969.5	788.3	643.1	530.1	436.5	353.7	283.6	219.2
17.5°	1659.4	1442.1	1220.0	1004.6	813.6	660.6	541.8	446.3	360.5	288.4	223.1
15°	1698.4	1481.1	1255.0	1034.8	836.0	675.3	552.5	454.1	366.4	291.3	228.0
12.5°	1731.5	1514.2	1285.2	1061.1	855.5	687.9	561.3	459.9	371.2	294.3	230.9
10°	1758.8	1540.5	1310.6	1081.6	871.1	697.7	568.1	465.8	375.1	297.2	233.9
7.5°	1779.3	1560.0	1329.1	1099.1	883.8	704.5	573.9	469.7	379.0	299.1	238.7
5°	1794.9	1576.6	1343.7	1110.8	893.5	714.2	580.7	474.5	382.9	301.1	238.7
2.5°	1806.6	1590.2	1355.4	1120.6	901.3	712.3	580.7	473.6	382.9	301.1	237.8
0°	1804.6	1591.2	1354.4	1120.6	901.3	710.3	580.7	472.6	382.9	301.1	237.8



REPORT NUMBER: P628413  
 CATALOG NUMBER: IFLD-S-SA2C-927-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.8	4.9	1.9	0.0
85°	14.6	9.7	4.9	0.0
82.5°	21.4	13.6	6.8	0.0
80°	28.3	18.5	8.8	0.0
77.5°	36.1	23.4	11.7	0.0
75°	42.9	27.3	13.6	0.0
72.5°	49.7	32.2	15.6	0.0
70°	55.5	36.1	17.5	0.0
67.5°	61.4	40.9	20.5	0.0
65°	66.3	44.8	22.4	0.0
62.5°	70.2	49.7	24.4	0.0
60°	75.0	53.6	26.3	0.0
57.5°	78.9	56.5	28.3	0.0
55°	82.8	58.5	30.2	0.0
52.5°	86.7	61.4	32.2	0.0
50°	90.6	64.3	34.1	0.0
47.5°	94.5	66.3	35.1	0.0
45°	100.4	69.2	37.0	0.0
42.5°	105.2	71.1	39.0	0.0
40°	110.1	73.1	40.0	0.0
37.5°	115.0	75.0	41.9	0.0
35°	119.9	77.0	42.9	0.0
32.5°	123.7	78.9	43.8	0.0
30°	127.6	80.9	44.8	0.0
27.5°	131.5	81.9	45.8	0.0
25°	134.5	83.8	46.8	0.0
22.5°	137.4	84.8	47.7	0.0
20°	139.3	85.7	48.7	0.0
17.5°	142.3	86.7	49.7	0.0
15°	143.2	87.7	51.6	0.0
12.5°	145.2	88.7	51.6	0.0
10°	146.2	89.6	51.6	0.0
7.5°	148.1	89.6	51.6	0.0
5°	147.1	89.6	51.6	0.0
2.5°	147.1	89.6	51.6	0.0
0°	146.2	89.6	51.6	0.0

(END OF REPORT)