

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: P628151

Luminaire Tested: **IFLD-S-SA2B-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628151  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

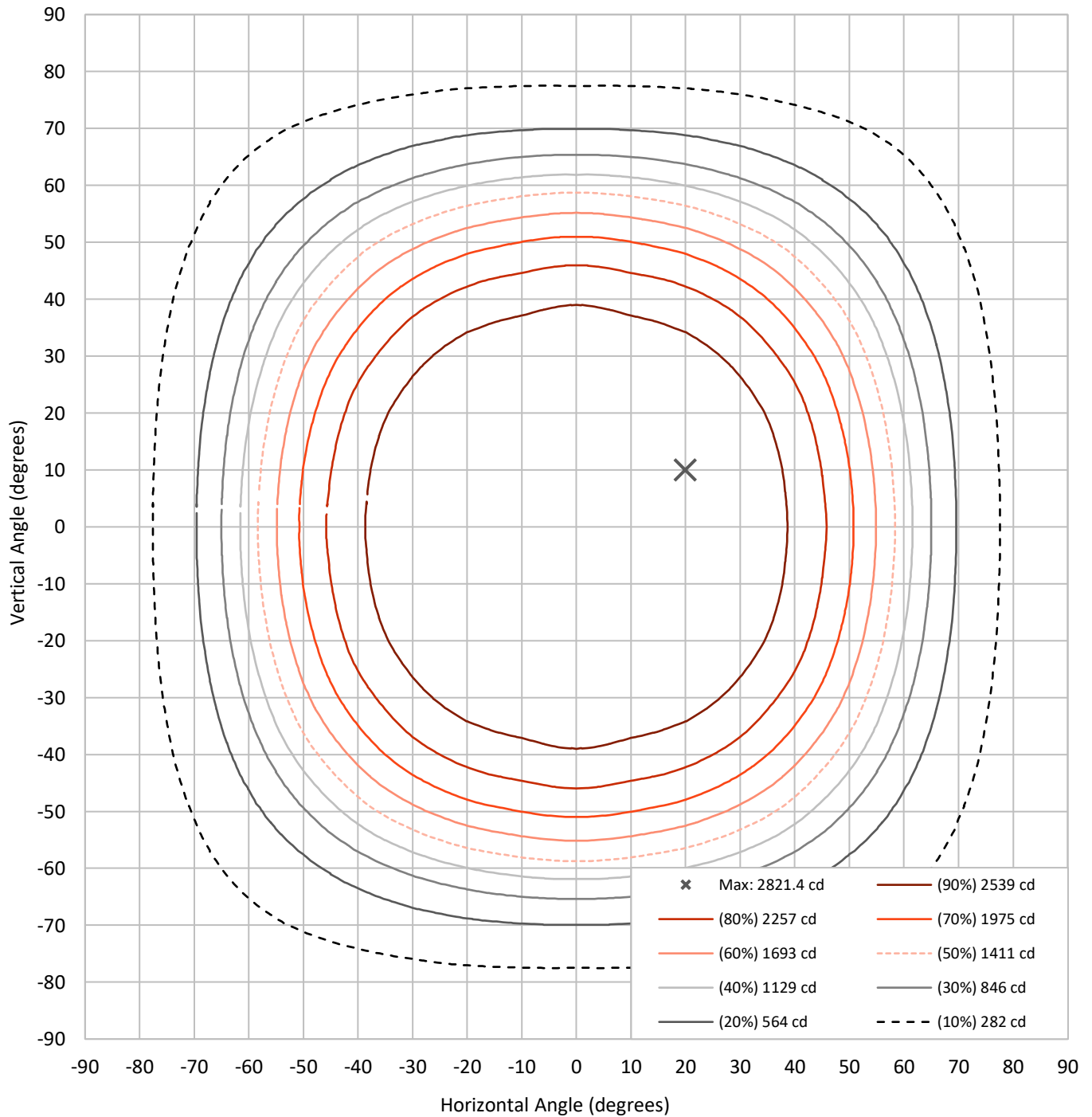
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8655.7 lumens	Max Intensity:	2821.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	105.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5311.3 lumens	Field Lumens:	6367.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4  
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: P628151  
CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM

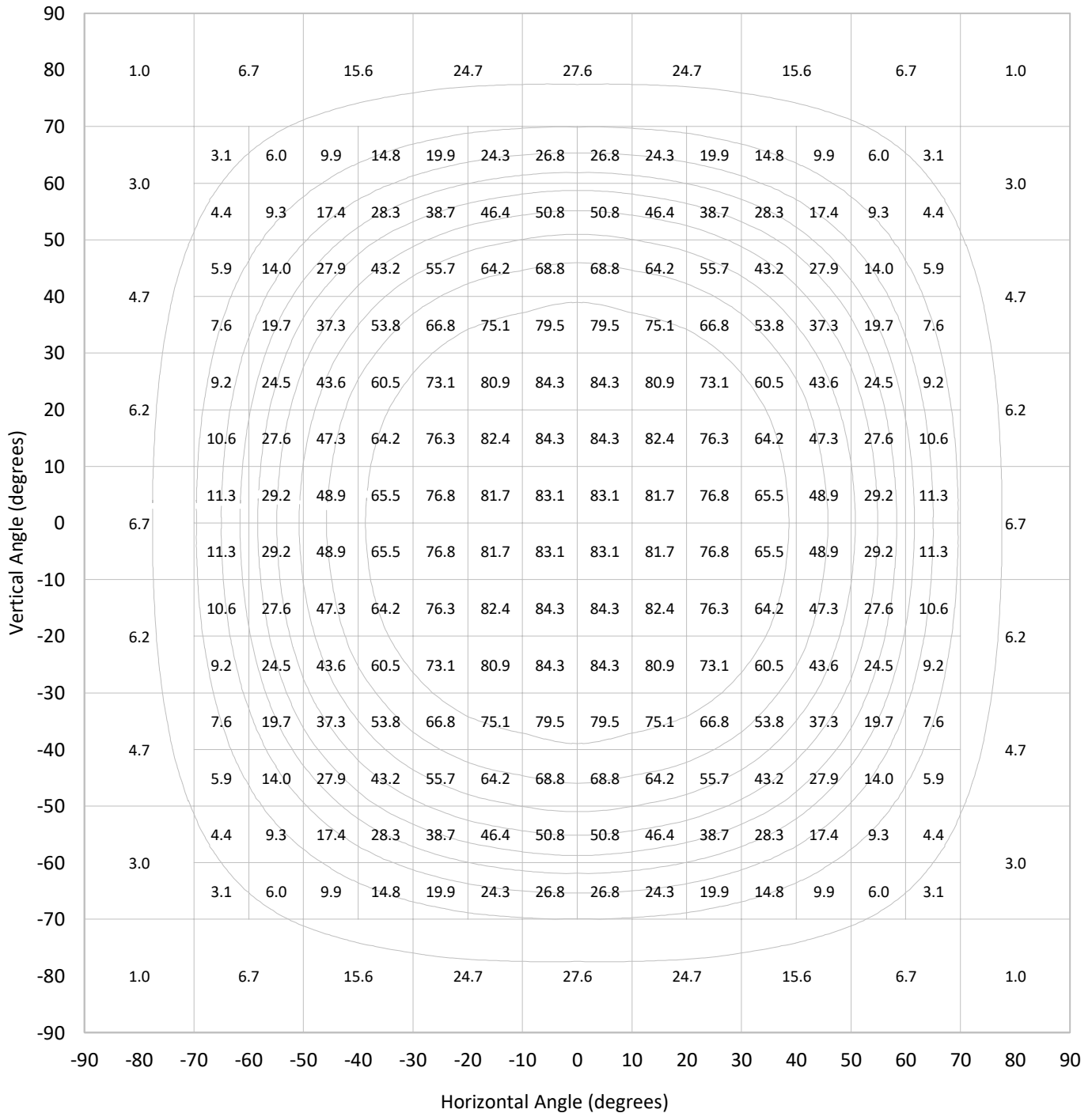
### Iso-Candela Plot





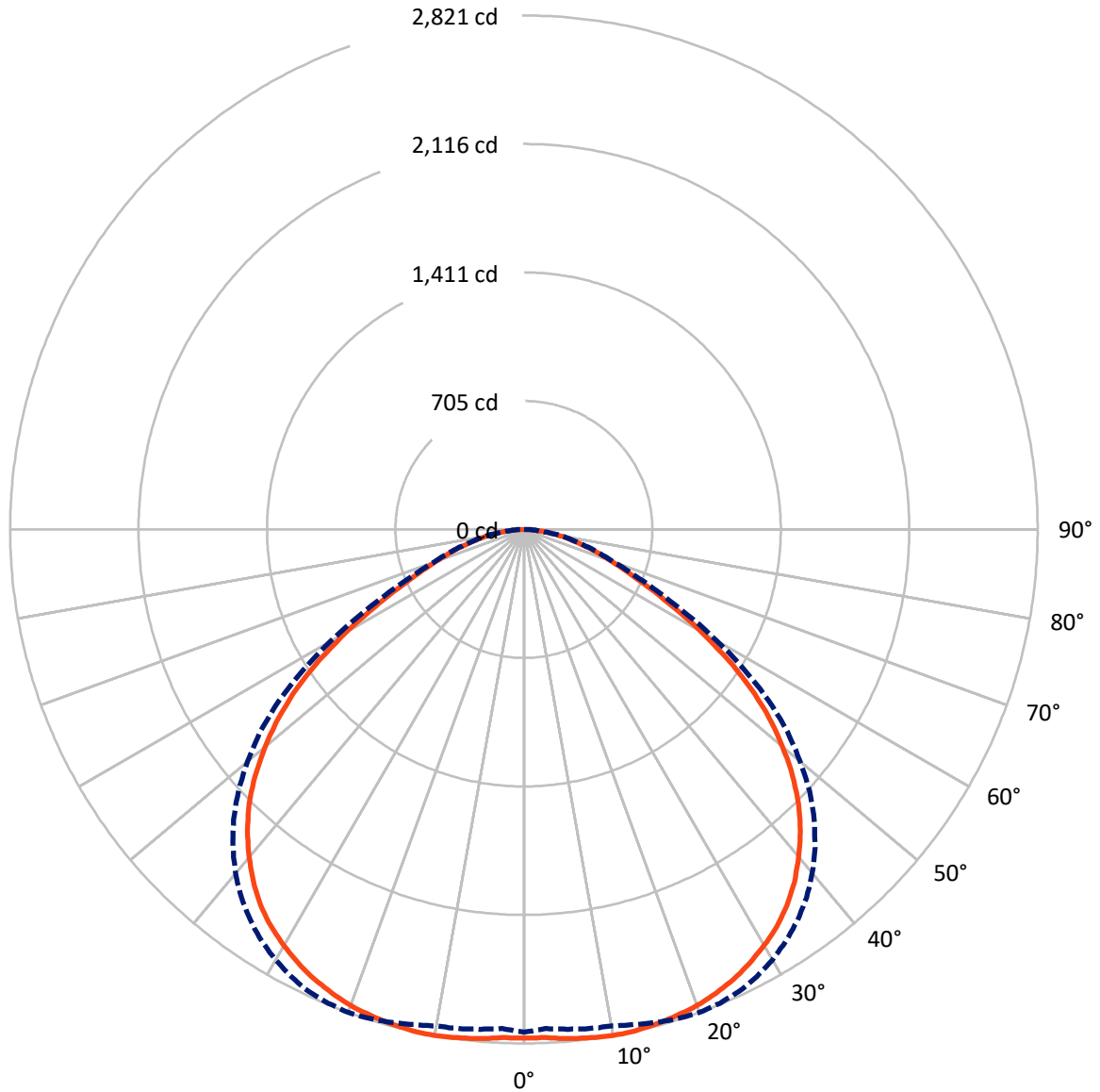
REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM

### Lumen Table



REPORT NUMBER: P628151  
CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM

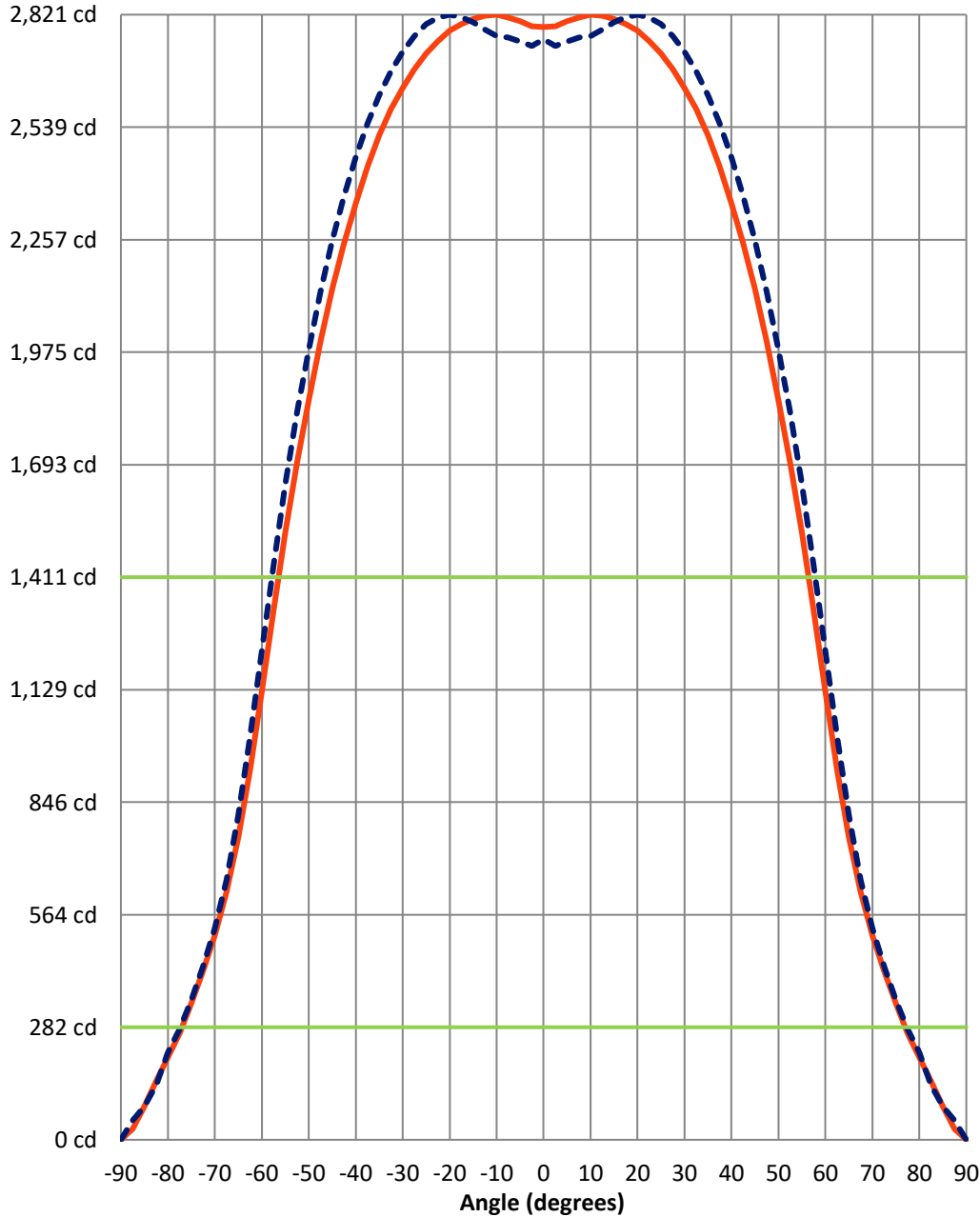
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 5311.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6367.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2288.3  
 Efficiency: 26.4%

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



REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-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°	22.8	24.6	25.5	26.4	27.3	28.2	29.1	28.2	27.3	27.3	26.4
85°	61.0	62.8	63.8	70.1	76.5	80.1	84.7	83.8	83.8	82.9	82.0
82.5°	122.0	127.5	132.1	138.4	142.1	147.5	151.2	148.4	146.6	143.0	140.3
80°	216.8	218.6	219.5	220.4	215.8	214.9	213.1	210.4	206.7	202.2	197.6
77.5°	275.9	277.8	279.6	277.8	276.9	275.9	273.2	270.5	266.8	263.2	257.7
75°	365.2	365.2	365.2	362.5	360.6	357.9	353.4	348.8	342.4	335.1	326.9
72.5°	459.9	459.0	458.1	452.6	448.1	442.6	436.2	430.8	423.5	415.3	404.4
70°	559.2	561.0	561.9	554.6	549.2	541.9	533.7	523.7	512.7	500.9	485.4
67.5°	695.8	694.0	692.1	682.1	674.8	664.8	653.0	638.4	622.0	603.8	581.9
65°	865.2	867.9	862.4	852.4	838.8	822.4	804.2	783.2	758.6	731.3	700.3
62.5°	1070.1	1074.6	1068.3	1055.5	1038.2	1016.4	990.9	960.8	927.1	888.9	850.6
60°	1303.2	1302.3	1290.5	1273.2	1250.4	1223.1	1194.9	1162.1	1123.8	1079.2	1032.8
57.5°	1517.3	1515.4	1500.9	1483.6	1460.8	1431.6	1401.6	1367.0	1326.9	1279.6	1225.8
55°	1709.4	1707.6	1693.0	1674.8	1651.1	1622.0	1594.7	1561.9	1522.7	1472.6	1415.3
52.5°	1879.7	1880.6	1867.9	1847.8	1822.3	1794.1	1767.7	1734.9	1697.6	1647.5	1591.9
50°	2036.4	2035.5	2021.8	2003.6	1979.9	1952.6	1926.2	1893.4	1854.2	1806.0	1752.2
47.5°	2182.1	2180.3	2164.8	2144.7	2120.1	2096.5	2071.9	2042.7	2001.8	1953.5	1899.8
45°	2304.1	2300.5	2285.0	2265.9	2242.2	2221.2	2199.4	2177.5	2133.8	2089.2	2038.2
42.5°	2408.8	2407.9	2392.5	2373.3	2349.6	2331.4	2311.4	2284.1	2247.6	2206.7	2156.6
40°	2509.0	2501.7	2486.3	2468.0	2446.2	2430.7	2410.7	2383.3	2347.8	2307.8	2259.5
37.5°	2583.7	2584.6	2568.2	2548.2	2529.1	2514.5	2496.3	2470.8	2439.8	2400.6	2352.4
35°	2654.7	2650.2	2636.5	2619.2	2601.9	2585.5	2566.4	2544.5	2519.0	2482.6	2437.1
32.5°	2701.2	2707.6	2691.2	2673.0	2662.9	2650.2	2630.1	2607.4	2584.6	2548.2	2507.2
30°	2752.2	2746.7	2734.0	2718.5	2711.2	2703.0	2685.7	2663.8	2637.4	2604.6	2566.4
27.5°	2787.7	2785.0	2769.5	2754.9	2751.3	2744.0	2730.3	2711.2	2684.8	2652.9	2617.4
25°	2803.2	2805.0	2790.4	2782.2	2782.2	2777.7	2766.8	2750.4	2724.0	2694.8	2660.2
22.5°	2810.5	2808.6	2798.6	2796.8	2801.4	2797.7	2793.2	2778.6	2754.9	2731.2	2702.1
20°	2815.0	2802.3	2793.2	2800.5	2805.9	2805.0	2801.4	2792.3	2781.3	2761.3	2735.8
17.5°	2805.0	2796.8	2785.9	2796.8	2808.6	2809.6	2805.9	2800.5	2797.7	2785.0	2762.2
15°	2780.4	2774.0	2775.9	2786.8	2800.5	2805.0	2807.7	2814.1	2810.5	2800.5	2780.4
12.5°	2764.0	2755.8	2764.0	2775.0	2782.2	2785.0	2806.8	2818.7	2818.7	2809.6	2796.8
10°	2759.5	2743.1	2754.0	2764.0	2767.7	2784.1	2802.3	2815.0	2821.4	2814.1	2797.7
7.5°	2750.4	2739.4	2744.0	2748.5	2769.5	2781.3	2791.3	2805.0	2814.1	2813.2	2798.6
5°	2745.8	2732.1	2734.0	2753.1	2767.7	2775.9	2779.5	2791.3	2805.0	2807.7	2796.8
2.5°	2734.0	2727.6	2741.3	2743.1	2754.0	2760.4	2764.0	2775.0	2792.3	2798.6	2794.1
0°	2727.6	2718.5	2709.4	2716.7	2734.9	2748.5	2754.0	2770.4	2790.4	2796.8	2786.8



REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-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°	25.5	24.6	23.7	22.8	23.7	23.7	23.7	22.8	23.7	22.8	22.8
85°	79.2	75.6	72.9	69.2	65.6	62.8	59.2	55.6	54.6	53.7	51.9
82.5°	136.6	132.1	127.5	122.0	116.6	110.2	103.8	96.5	94.7	92.9	90.2
80°	192.2	185.8	179.4	173.0	167.6	161.2	153.9	145.7	140.3	135.7	130.2
77.5°	250.4	241.3	232.2	221.3	214.9	208.6	201.3	193.1	184.9	177.6	169.4
75°	316.9	306.9	297.8	286.9	275.0	263.2	251.4	240.4	228.6	217.7	206.7
72.5°	390.7	376.1	361.6	347.9	333.3	318.8	303.3	288.7	274.1	259.6	244.1
70°	468.1	449.9	431.7	413.5	394.3	375.2	357.0	338.8	320.6	301.4	284.1
67.5°	559.2	538.2	514.6	489.1	460.8	436.2	412.6	390.7	368.8	347.0	325.1
65°	673.0	643.9	612.0	577.4	544.6	511.8	477.2	444.4	418.9	393.4	368.8
62.5°	813.3	772.3	727.7	683.0	643.0	600.2	560.1	517.3	477.2	440.8	410.7
60°	980.8	925.3	870.6	813.3	757.7	699.4	648.4	595.6	545.5	500.9	457.2
57.5°	1165.7	1101.1	1035.5	965.4	889.8	821.5	752.3	683.0	623.8	564.6	515.5
55°	1353.3	1285.0	1211.3	1132.0	1049.1	961.7	867.9	790.5	709.4	640.2	576.5
52.5°	1531.8	1460.8	1384.3	1311.4	1212.2	1112.0	1009.1	907.1	812.4	724.0	646.6
50°	1691.2	1622.0	1548.2	1463.5	1371.5	1265.0	1150.2	1035.5	923.5	819.6	723.1
47.5°	1836.9	1769.5	1695.8	1611.1	1527.3	1408.9	1293.2	1166.6	1041.9	922.6	809.6
45°	1973.5	1905.2	1828.7	1747.7	1651.1	1545.5	1426.2	1298.7	1164.8	1030.9	900.7
42.5°	2097.4	2029.1	1951.7	1867.9	1772.3	1667.5	1551.9	1423.4	1288.7	1142.9	1000.0
40°	2205.8	2139.3	2064.6	1977.2	1887.9	1777.7	1663.9	1541.8	1402.5	1255.9	1098.3
37.5°	2300.5	2238.5	2164.8	2078.3	1983.5	1885.2	1767.7	1645.7	1520.0	1360.6	1199.4
35°	2384.3	2326.9	2251.3	2169.3	2076.4	1972.6	1862.4	1743.1	1607.4	1458.1	1301.4
32.5°	2457.1	2398.8	2329.6	2247.6	2157.5	2060.0	1947.1	1826.9	1698.5	1546.4	1376.1
30°	2519.0	2462.6	2397.0	2319.6	2233.1	2136.5	2026.3	1905.2	1774.1	1622.9	1454.4
27.5°	2572.8	2519.0	2455.3	2383.3	2300.5	2207.6	2096.5	1974.4	1840.6	1694.8	1526.4
25°	2619.2	2567.3	2508.1	2439.8	2357.8	2266.8	2162.0	2034.5	1900.7	1754.0	1587.4
22.5°	2661.1	2611.0	2551.8	2485.3	2410.7	2319.6	2214.0	2087.4	1951.7	1806.9	1642.9
20°	2698.5	2652.0	2593.7	2525.4	2450.7	2358.8	2254.0	2133.8	1997.2	1855.1	1693.0
17.5°	2728.5	2687.5	2629.2	2557.3	2482.6	2393.4	2291.4	2181.2	2036.4	1896.1	1734.9
15°	2749.5	2709.4	2656.6	2583.7	2510.8	2422.5	2320.5	2206.7	2071.9	1928.9	1769.5
12.5°	2764.0	2721.2	2672.0	2604.6	2531.8	2444.4	2345.1	2233.1	2101.9	1958.0	1799.6
10°	2767.7	2728.5	2679.3	2619.2	2548.2	2463.5	2366.0	2254.9	2126.5	1980.8	1824.2
7.5°	2769.5	2732.1	2687.5	2630.1	2560.0	2478.1	2381.5	2272.2	2144.7	1999.9	1842.4
5°	2768.6	2733.1	2693.0	2637.4	2567.3	2486.3	2391.5	2284.1	2157.5	2012.7	1856.0
2.5°	2765.8	2734.0	2696.6	2642.9	2575.5	2495.4	2401.6	2297.7	2171.1	2023.6	1867.0
0°	2773.1	2745.8	2698.5	2641.1	2577.3	2495.4	2400.6	2299.6	2173.0	2022.7	1866.1





REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-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°	22.8	21.9	21.9	20.9	20.0	19.1	17.3	16.4	14.6	11.8	9.1
85°	49.2	46.4	43.7	41.9	40.1	38.3	35.5	32.8	29.1	23.7	18.2
82.5°	86.5	81.1	75.6	69.2	63.8	58.3	53.7	49.2	43.7	35.5	27.3
80°	123.9	115.7	107.5	98.4	90.2	81.1	72.9	65.6	58.3	47.4	36.4
77.5°	161.2	150.3	138.4	127.5	115.7	103.8	92.0	82.0	71.0	58.3	45.5
75°	195.8	183.1	172.1	156.6	142.1	126.6	111.1	97.4	83.8	68.3	54.6
72.5°	230.4	214.0	198.5	184.0	167.6	148.4	131.1	113.8	96.5	78.3	61.9
70°	265.0	245.0	225.9	208.6	190.3	171.2	150.3	130.2	109.3	87.4	68.3
67.5°	300.5	277.8	255.9	234.1	213.1	191.3	169.4	146.6	122.0	96.5	75.6
65°	339.7	311.5	285.1	260.5	235.9	212.2	187.6	163.0	135.7	106.6	82.0
62.5°	378.9	347.9	316.9	286.0	258.6	232.2	205.8	178.5	148.4	117.5	88.3
60°	420.8	385.2	349.7	315.1	281.4	252.3	223.1	194.0	162.1	127.5	94.7
57.5°	467.2	424.4	384.3	345.2	306.9	272.3	240.4	209.5	173.9	137.5	102.0
55°	520.0	467.2	419.8	376.1	334.2	292.3	257.7	225.9	187.6	147.5	110.2
52.5°	575.6	514.6	457.2	408.0	363.4	316.0	274.1	238.6	201.3	157.6	117.5
50°	640.2	562.8	499.1	439.0	388.9	339.7	291.4	253.2	214.9	169.4	124.8
47.5°	706.7	621.1	541.0	475.4	416.2	362.5	311.5	265.9	227.7	180.3	132.1
45°	784.1	676.7	588.3	510.9	442.6	386.1	331.5	279.6	238.6	191.3	139.3
42.5°	858.8	742.2	637.5	550.1	472.7	408.9	349.7	294.2	249.5	202.2	145.7
40°	947.1	807.8	684.9	587.4	502.7	430.8	367.9	309.6	259.6	212.2	152.1
37.5°	1031.8	874.3	742.2	628.4	531.9	452.6	386.1	324.2	268.7	222.2	160.3
35°	1115.6	948.1	796.9	666.6	561.9	477.2	404.4	337.9	277.8	230.4	167.6
32.5°	1195.8	1017.3	852.4	709.4	594.7	500.0	420.8	350.6	286.9	237.7	174.9
30°	1270.4	1082.8	907.1	753.2	624.8	520.9	436.2	363.4	297.8	244.1	182.1
27.5°	1338.8	1146.6	961.7	794.1	653.0	540.1	452.6	375.2	306.9	250.4	188.5
25°	1400.7	1204.0	1011.8	831.5	678.5	561.0	468.1	387.1	315.1	255.9	194.0
22.5°	1459.0	1256.8	1057.3	868.8	709.4	581.9	482.7	398.0	323.3	261.4	199.4
20°	1510.0	1305.1	1101.1	906.2	736.8	601.1	495.4	408.0	330.6	265.0	204.9
17.5°	1550.9	1347.9	1140.2	938.9	760.4	617.5	506.4	417.1	337.0	269.6	208.6
15°	1587.4	1384.3	1173.0	967.2	781.4	631.1	516.4	424.4	342.4	272.3	213.1
12.5°	1618.3	1415.3	1201.2	991.8	799.6	643.0	524.6	429.9	347.0	275.0	215.8
10°	1643.8	1439.8	1224.9	1010.9	814.2	652.1	530.9	435.3	350.6	277.8	218.6
7.5°	1663.0	1458.1	1242.2	1027.3	826.0	658.4	536.4	439.0	354.3	279.6	223.1
5°	1677.5	1473.5	1255.9	1038.2	835.1	667.6	542.8	443.5	357.9	281.4	223.1
2.5°	1688.5	1486.3	1266.8	1047.3	842.4	665.7	542.8	442.6	357.9	281.4	222.2
0°	1686.6	1487.2	1265.9	1047.3	842.4	663.9	542.8	441.7	357.9	281.4	222.2



REPORT NUMBER: P628151  
 CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.4	4.6	1.8	0.0
85°	13.7	9.1	4.6	0.0
82.5°	20.0	12.8	6.4	0.0
80°	26.4	17.3	8.2	0.0
77.5°	33.7	21.9	10.9	0.0
75°	40.1	25.5	12.8	0.0
72.5°	46.4	30.1	14.6	0.0
70°	51.9	33.7	16.4	0.0
67.5°	57.4	38.3	19.1	0.0
65°	61.9	41.9	20.9	0.0
62.5°	65.6	46.4	22.8	0.0
60°	70.1	50.1	24.6	0.0
57.5°	73.8	52.8	26.4	0.0
55°	77.4	54.6	28.2	0.0
52.5°	81.1	57.4	30.1	0.0
50°	84.7	60.1	31.9	0.0
47.5°	88.3	61.9	32.8	0.0
45°	93.8	64.7	34.6	0.0
42.5°	98.4	66.5	36.4	0.0
40°	102.9	68.3	37.3	0.0
37.5°	107.5	70.1	39.2	0.0
35°	112.0	71.9	40.1	0.0
32.5°	115.7	73.8	41.0	0.0
30°	119.3	75.6	41.9	0.0
27.5°	122.9	76.5	42.8	0.0
25°	125.7	78.3	43.7	0.0
22.5°	128.4	79.2	44.6	0.0
20°	130.2	80.1	45.5	0.0
17.5°	133.0	81.1	46.4	0.0
15°	133.9	82.0	48.3	0.0
12.5°	135.7	82.9	48.3	0.0
10°	136.6	83.8	48.3	0.0
7.5°	138.4	83.8	48.3	0.0
5°	137.5	83.8	48.3	0.0
2.5°	137.5	83.8	48.3	0.0
0°	136.6	83.8	48.3	0.0

(END OF REPORT)