

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: P628383

Luminaire Tested: **IFLD-S-SA2B-830-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628383  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

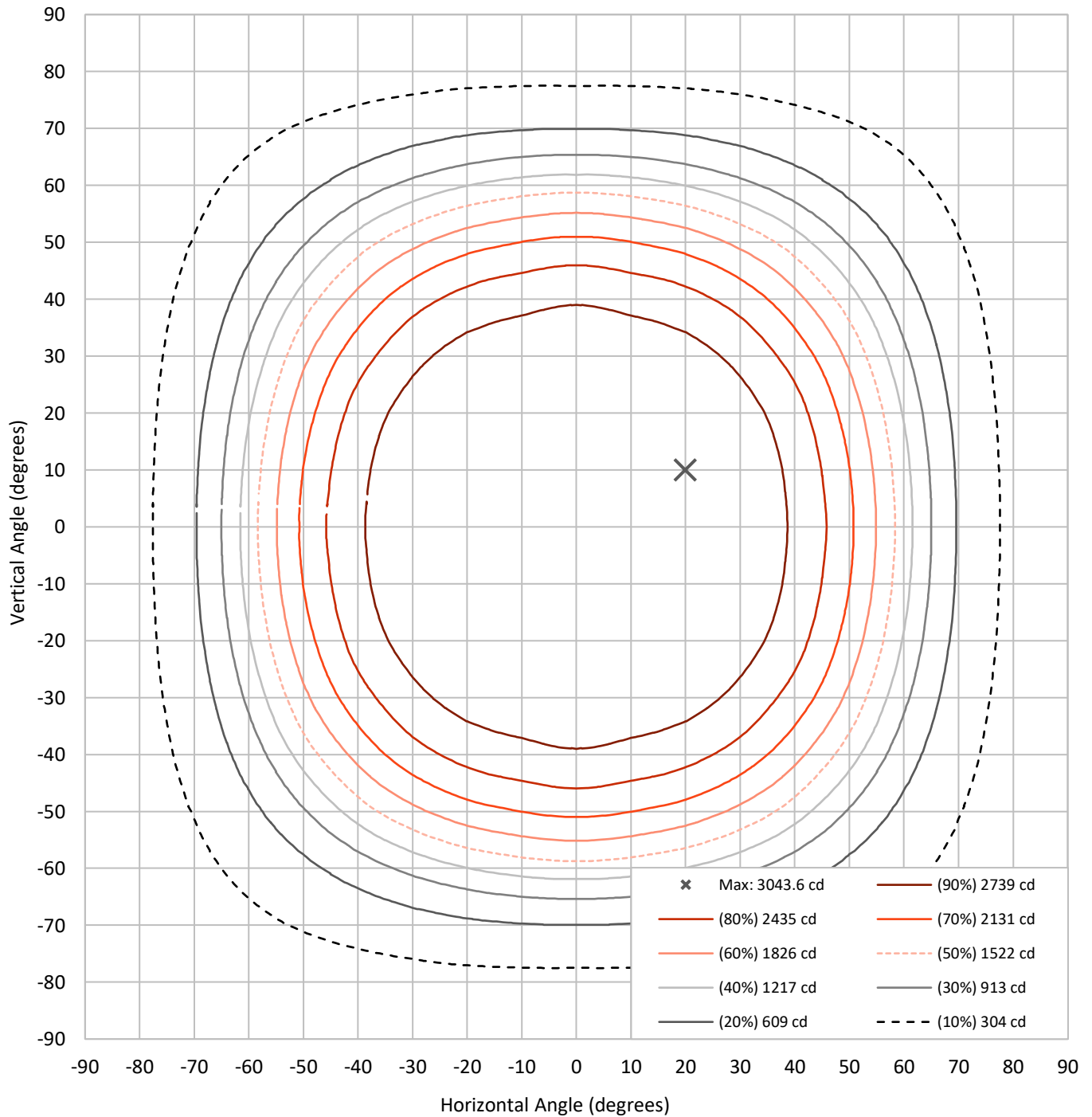
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9337.2 lumens	Max Intensity:	3043.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	113.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5729.5 lumens	Field Lumens:	6868.7 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: P628383  
CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM

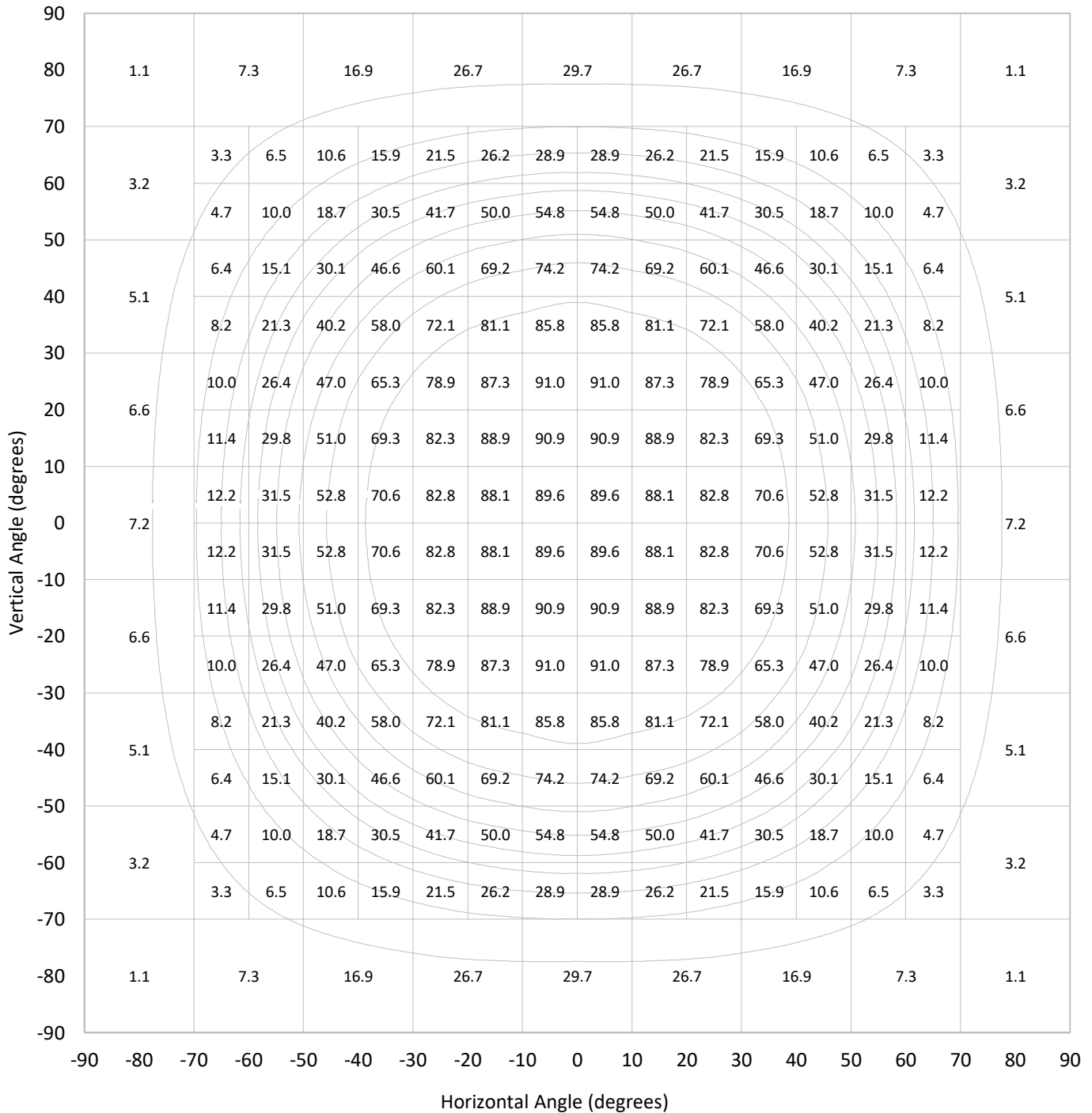
### Iso-Candela Plot





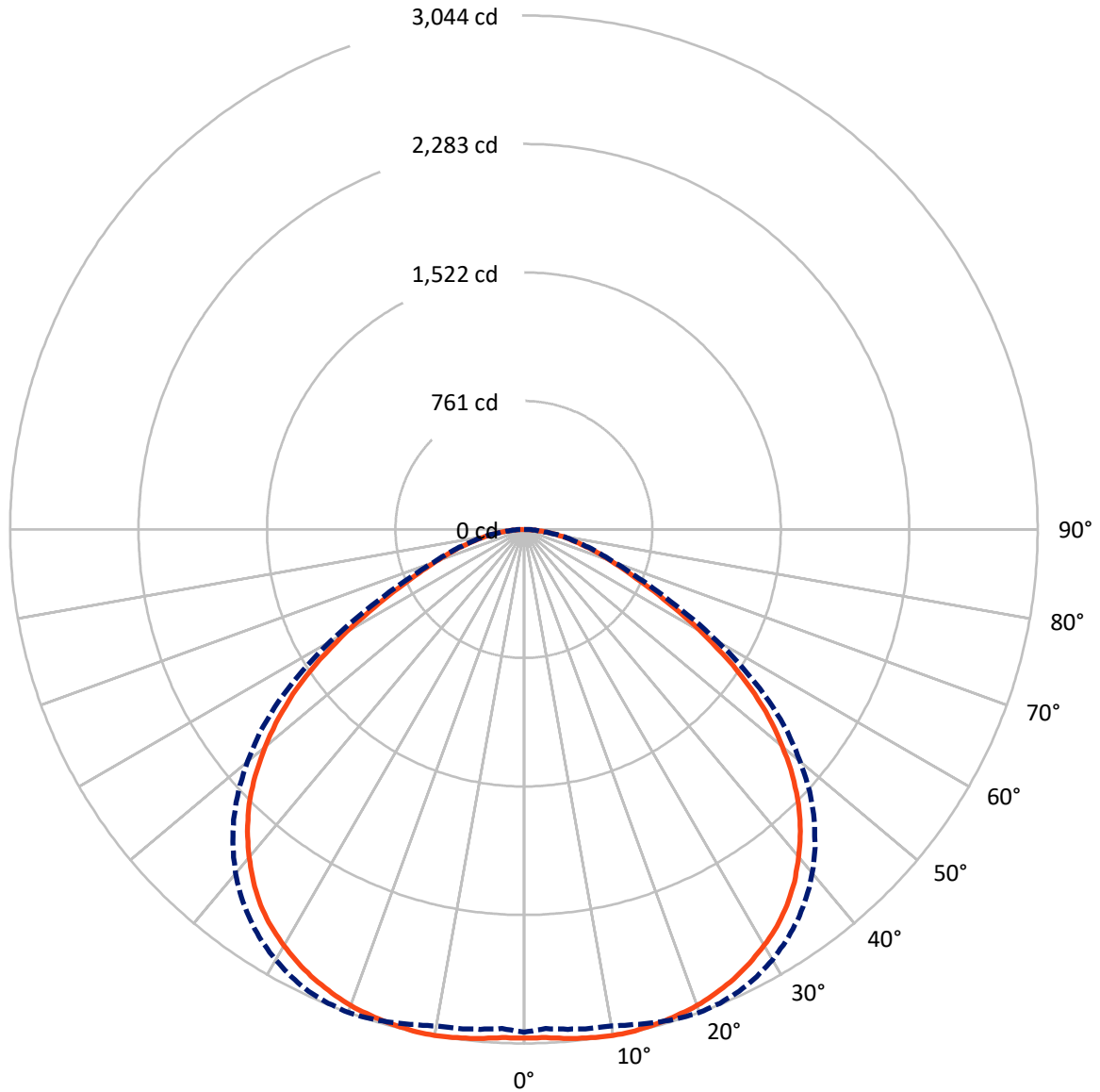
REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM

### Lumen Table



REPORT NUMBER: P628383  
CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 5729.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6868.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2468.5  
 Efficiency: 26.4%

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



REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-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°	24.6	26.5	27.5	28.5	29.5	30.5	31.4	30.5	29.5	29.5	28.5
85°	65.8	67.8	68.8	75.6	82.5	86.5	91.4	90.4	90.4	89.4	88.4
82.5°	131.6	137.5	142.5	149.3	153.3	159.2	163.1	160.1	158.2	154.2	151.3
80°	233.8	235.8	236.8	237.7	232.8	231.9	229.9	226.9	223.0	218.1	213.2
77.5°	297.7	299.6	301.6	299.6	298.7	297.7	294.7	291.8	287.9	283.9	278.0
75°	394.0	394.0	394.0	391.0	389.0	386.1	381.2	376.3	369.4	361.5	352.7
72.5°	496.1	495.1	494.2	488.3	483.4	477.5	470.6	464.7	456.8	448.0	436.2
70°	603.2	605.2	606.2	598.3	592.4	584.5	575.7	564.9	553.1	540.3	523.6
67.5°	750.6	748.6	746.6	735.8	728.0	717.2	704.4	688.7	671.0	651.3	627.8
65°	933.3	936.3	930.4	919.6	904.8	887.1	867.5	844.9	818.4	788.9	755.5
62.5°	1154.4	1159.3	1152.4	1138.6	1120.0	1096.4	1068.9	1036.5	1000.1	958.8	917.6
60°	1405.9	1404.9	1392.1	1373.4	1348.9	1319.4	1288.9	1253.6	1212.3	1164.2	1114.1
57.5°	1636.7	1634.8	1619.0	1600.4	1575.8	1544.4	1512.0	1474.6	1431.4	1380.3	1322.3
55°	1844.0	1842.0	1826.3	1806.7	1781.1	1749.7	1720.2	1684.9	1642.6	1588.6	1526.7
52.5°	2027.7	2028.7	2015.0	1993.3	1965.8	1935.4	1906.9	1871.5	1831.2	1777.2	1717.3
50°	2196.7	2195.7	2181.0	2161.3	2135.8	2106.3	2077.8	2042.5	2000.2	1948.2	1890.2
47.5°	2353.9	2351.9	2335.2	2313.6	2287.1	2261.5	2235.0	2203.6	2159.4	2107.3	2049.3
45°	2485.5	2481.6	2464.9	2444.3	2418.7	2396.1	2372.6	2349.0	2301.8	2253.7	2198.7
42.5°	2598.5	2597.5	2580.8	2560.2	2534.7	2515.0	2493.4	2463.9	2424.6	2380.4	2326.4
40°	2706.6	2698.7	2682.0	2662.4	2638.8	2622.1	2600.5	2571.0	2532.7	2489.5	2437.4
37.5°	2787.1	2788.1	2770.4	2748.8	2728.2	2712.5	2692.8	2665.3	2631.9	2589.7	2537.6
35°	2863.8	2858.9	2844.1	2825.5	2806.8	2789.1	2768.5	2744.9	2717.4	2678.1	2629.0
32.5°	2913.9	2920.8	2903.1	2883.4	2872.6	2858.9	2837.2	2812.7	2788.1	2748.8	2704.6
30°	2968.9	2963.0	2949.2	2932.5	2924.7	2915.8	2897.2	2873.6	2845.1	2809.7	2768.5
27.5°	3007.2	3004.3	2987.6	2971.8	2967.9	2960.1	2945.3	2924.7	2896.2	2861.8	2823.5
25°	3023.9	3025.9	3010.2	3001.3	3001.3	2996.4	2984.6	2966.9	2938.4	2907.0	2869.7
22.5°	3031.8	3029.8	3019.0	3017.0	3021.9	3018.0	3013.1	2997.4	2971.8	2946.3	2914.9
20°	3036.7	3022.9	3013.1	3021.0	3026.9	3025.9	3021.9	3012.1	3000.3	2978.7	2951.2
17.5°	3025.9	3017.0	3005.2	3017.0	3029.8	3030.8	3026.9	3021.0	3018.0	3004.3	2979.7
15°	2999.3	2992.5	2994.4	3006.2	3021.0	3025.9	3028.8	3035.7	3031.8	3021.0	2999.3
12.5°	2981.7	2972.8	2981.7	2993.5	3001.3	3004.3	3027.8	3040.6	3040.6	3030.8	3017.0
10°	2976.8	2959.1	2970.9	2981.7	2985.6	3003.3	3022.9	3036.7	3043.6	3035.7	3018.0
7.5°	2966.9	2955.1	2960.1	2965.0	2987.6	3000.3	3011.1	3025.9	3035.7	3034.7	3019.0
5°	2962.0	2947.3	2949.2	2969.9	2985.6	2994.4	2998.4	3011.1	3025.9	3028.8	3017.0
2.5°	2949.2	2942.4	2957.1	2959.1	2970.9	2977.7	2981.7	2993.5	3012.1	3019.0	3014.1
0°	2942.4	2932.5	2922.7	2930.6	2950.2	2965.0	2970.9	2988.5	3010.2	3017.0	3006.2



REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-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°	27.5	26.5	25.5	24.6	25.5	25.5	25.5	24.6	25.5	24.6	24.6
85°	85.5	81.5	78.6	74.7	70.7	67.8	63.9	59.9	58.9	58.0	56.0
82.5°	147.4	142.5	137.5	131.6	125.8	118.9	112.0	104.1	102.2	100.2	97.3
80°	207.3	200.4	193.5	186.7	180.8	173.9	166.0	157.2	151.3	146.4	140.5
77.5°	270.2	260.3	250.5	238.7	231.9	225.0	217.1	208.3	199.4	191.6	182.7
75°	341.9	331.1	321.3	309.5	296.7	283.9	271.1	259.4	246.6	234.8	223.0
72.5°	421.5	405.7	390.0	375.3	359.6	343.8	327.1	311.4	295.7	280.0	263.3
70°	505.0	485.3	465.7	446.0	425.4	404.8	385.1	365.5	345.8	325.2	306.5
67.5°	603.2	580.6	555.1	527.6	497.1	470.6	445.0	421.5	397.9	374.3	350.7
65°	726.0	694.6	660.2	622.9	587.5	552.1	514.8	479.4	451.9	424.4	397.9
62.5°	877.3	833.1	785.0	736.8	693.6	647.4	604.2	558.0	514.8	475.5	443.1
60°	1058.1	998.1	939.2	877.3	817.4	754.5	699.5	642.5	588.5	540.3	493.2
57.5°	1257.5	1187.8	1117.0	1041.4	959.8	886.1	811.5	736.8	673.0	609.1	556.1
55°	1459.9	1386.2	1306.6	1221.2	1131.8	1037.4	936.3	852.7	765.3	690.6	621.9
52.5°	1652.4	1575.8	1493.3	1414.7	1307.6	1199.5	1088.5	978.5	876.3	781.0	697.5
50°	1824.4	1749.7	1670.1	1578.8	1479.5	1364.6	1240.8	1117.0	996.2	884.2	780.0
47.5°	1981.6	1908.9	1829.3	1737.9	1647.5	1519.8	1395.0	1258.5	1123.9	995.2	873.4
45°	2128.9	2055.2	1972.7	1885.3	1781.1	1667.2	1538.5	1400.9	1256.5	1112.1	971.6
42.5°	2262.5	2188.8	2105.3	2015.0	1911.8	1798.8	1674.1	1535.5	1390.1	1232.9	1078.7
40°	2379.4	2307.7	2227.2	2132.8	2036.6	1917.7	1794.9	1663.2	1512.9	1354.8	1184.8
37.5°	2481.6	2414.8	2335.2	2241.9	2139.7	2033.6	1906.9	1775.2	1639.7	1467.7	1293.9
35°	2572.0	2510.1	2428.6	2340.1	2239.9	2127.9	2009.1	1880.4	1734.0	1572.9	1403.9
32.5°	2650.6	2587.7	2513.0	2424.6	2327.4	2222.2	2100.4	1970.7	1832.2	1668.2	1484.4
30°	2717.4	2656.5	2585.7	2502.2	2408.9	2304.8	2185.9	2055.2	1913.8	1750.7	1568.9
27.5°	2775.4	2717.4	2648.6	2571.0	2481.6	2381.4	2261.5	2129.9	1985.5	1828.3	1646.5
25°	2825.5	2769.5	2705.6	2631.9	2543.5	2445.3	2332.3	2194.7	2050.3	1892.2	1712.4
22.5°	2870.6	2816.6	2752.8	2681.0	2600.5	2502.2	2388.3	2251.7	2105.3	1949.1	1772.3
20°	2910.9	2860.8	2797.9	2724.3	2643.7	2544.5	2431.5	2301.8	2154.5	2001.2	1826.3
17.5°	2943.3	2899.1	2836.3	2758.7	2678.1	2581.8	2471.8	2352.9	2196.7	2045.4	1871.5
15°	2965.9	2922.7	2865.7	2787.1	2708.5	2613.3	2503.2	2380.4	2235.0	2080.8	1908.9
12.5°	2981.7	2935.5	2882.4	2809.7	2731.1	2636.8	2529.7	2408.9	2267.4	2112.2	1941.3
10°	2985.6	2943.3	2890.3	2825.5	2748.8	2657.5	2552.3	2432.5	2294.0	2136.8	1967.8
7.5°	2987.6	2947.3	2899.1	2837.2	2761.6	2673.2	2569.0	2451.2	2313.6	2157.4	1987.4
5°	2986.6	2948.3	2905.0	2845.1	2769.5	2682.0	2579.9	2463.9	2327.4	2171.2	2002.2
2.5°	2983.6	2949.2	2909.0	2851.0	2778.3	2691.8	2590.7	2478.7	2342.1	2183.0	2014.0
0°	2991.5	2962.0	2910.9	2849.0	2780.3	2691.8	2589.7	2480.6	2344.1	2182.0	2013.0





REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-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°	24.6	23.6	23.6	22.6	21.6	20.6	18.7	17.7	15.7	12.8	9.8
85°	53.1	50.1	47.2	45.2	43.2	41.3	38.3	35.4	31.4	25.5	19.6
82.5°	93.3	87.4	81.5	74.7	68.8	62.9	58.0	53.1	47.2	38.3	29.5
80°	133.6	124.8	115.9	106.1	97.3	87.4	78.6	70.7	62.9	51.1	39.3
77.5°	173.9	162.1	149.3	137.5	124.8	112.0	99.2	88.4	76.6	62.9	49.1
75°	211.2	197.5	185.7	169.0	153.3	136.6	119.9	105.1	90.4	73.7	58.9
72.5°	248.6	230.9	214.2	198.5	180.8	160.1	141.5	122.8	104.1	84.5	66.8
70°	285.9	264.3	243.6	225.0	205.3	184.7	162.1	140.5	117.9	94.3	73.7
67.5°	324.2	299.6	276.1	252.5	229.9	206.3	182.7	158.2	131.6	104.1	81.5
65°	366.4	336.0	307.5	281.0	254.4	228.9	202.4	175.9	146.4	114.9	88.4
62.5°	408.7	375.3	341.9	308.5	279.0	250.5	222.0	192.6	160.1	126.7	95.3
60°	453.9	415.6	377.3	339.9	303.6	272.1	240.7	209.3	174.9	137.5	102.2
57.5°	504.0	457.8	414.6	372.3	331.1	293.7	259.4	226.0	187.6	148.3	110.0
55°	561.0	504.0	452.9	405.7	360.6	315.4	278.0	243.6	202.4	159.2	118.9
52.5°	620.9	555.1	493.2	440.1	392.0	340.9	295.7	257.4	217.1	170.0	126.7
50°	690.6	607.1	538.4	473.5	419.5	366.4	314.4	273.1	231.9	182.7	134.6
47.5°	762.4	670.0	583.6	512.8	449.0	391.0	336.0	286.9	245.6	194.5	142.5
45°	845.9	729.9	634.6	551.1	477.5	416.5	357.6	301.6	257.4	206.3	150.3
42.5°	926.4	800.7	687.7	593.4	509.9	441.1	377.3	317.3	269.2	218.1	157.2
40°	1021.7	871.4	738.8	633.7	542.3	464.7	396.9	334.0	280.0	228.9	164.1
37.5°	1113.1	943.1	800.7	677.9	573.7	488.3	416.5	349.7	289.8	239.7	172.9
35°	1203.5	1022.7	859.6	719.1	606.2	514.8	436.2	364.5	299.6	248.6	180.8
32.5°	1289.9	1097.4	919.6	765.3	641.5	539.4	453.9	378.2	309.5	256.4	188.6
30°	1370.5	1168.1	978.5	812.5	673.9	561.9	470.6	392.0	321.3	263.3	196.5
27.5°	1444.2	1236.9	1037.4	856.7	704.4	582.6	488.3	404.8	331.1	270.2	203.4
25°	1511.0	1298.8	1091.5	897.0	731.9	605.2	505.0	417.5	339.9	276.1	209.3
22.5°	1573.8	1355.7	1140.6	937.2	765.3	627.8	520.7	429.3	348.8	282.0	215.2
20°	1628.9	1407.8	1187.8	977.5	794.8	648.4	534.4	440.1	356.6	285.9	221.0
17.5°	1673.1	1454.0	1230.0	1012.9	820.3	666.1	546.2	450.0	363.5	290.8	225.0
15°	1712.4	1493.3	1265.4	1043.3	842.9	680.8	557.0	457.8	369.4	293.7	229.9
12.5°	1745.8	1526.7	1295.8	1069.9	862.6	693.6	565.9	463.7	374.3	296.7	232.8
10°	1773.3	1553.2	1321.4	1090.5	878.3	703.4	572.8	469.6	378.2	299.6	235.8
7.5°	1793.9	1572.9	1340.0	1108.2	891.1	710.3	578.6	473.5	382.2	301.6	240.7
5°	1809.6	1589.6	1354.8	1120.0	900.9	720.1	585.5	478.4	386.1	303.6	240.7
2.5°	1821.4	1603.3	1366.6	1129.8	908.7	718.2	585.5	477.5	386.1	303.6	239.7
0°	1819.5	1604.3	1365.6	1129.8	908.7	716.2	585.5	476.5	386.1	303.6	239.7



REPORT NUMBER: P628383  
 CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.9	4.9	2.0	0.0
85°	14.7	9.8	4.9	0.0
82.5°	21.6	13.8	6.9	0.0
80°	28.5	18.7	8.8	0.0
77.5°	36.3	23.6	11.8	0.0
75°	43.2	27.5	13.8	0.0
72.5°	50.1	32.4	15.7	0.0
70°	56.0	36.3	17.7	0.0
67.5°	61.9	41.3	20.6	0.0
65°	66.8	45.2	22.6	0.0
62.5°	70.7	50.1	24.6	0.0
60°	75.6	54.0	26.5	0.0
57.5°	79.6	57.0	28.5	0.0
55°	83.5	58.9	30.5	0.0
52.5°	87.4	61.9	32.4	0.0
50°	91.4	64.8	34.4	0.0
47.5°	95.3	66.8	35.4	0.0
45°	101.2	69.8	37.3	0.0
42.5°	106.1	71.7	39.3	0.0
40°	111.0	73.7	40.3	0.0
37.5°	115.9	75.6	42.2	0.0
35°	120.8	77.6	43.2	0.0
32.5°	124.8	79.6	44.2	0.0
30°	128.7	81.5	45.2	0.0
27.5°	132.6	82.5	46.2	0.0
25°	135.6	84.5	47.2	0.0
22.5°	138.5	85.5	48.1	0.0
20°	140.5	86.5	49.1	0.0
17.5°	143.4	87.4	50.1	0.0
15°	144.4	88.4	52.1	0.0
12.5°	146.4	89.4	52.1	0.0
10°	147.4	90.4	52.1	0.0
7.5°	149.3	90.4	52.1	0.0
5°	148.3	90.4	52.1	0.0
2.5°	148.3	90.4	52.1	0.0
0°	147.4	90.4	52.1	0.0

(END OF REPORT)