

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: P628358

Luminaire Tested: **IFLD-S-SA3A-827-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628358  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

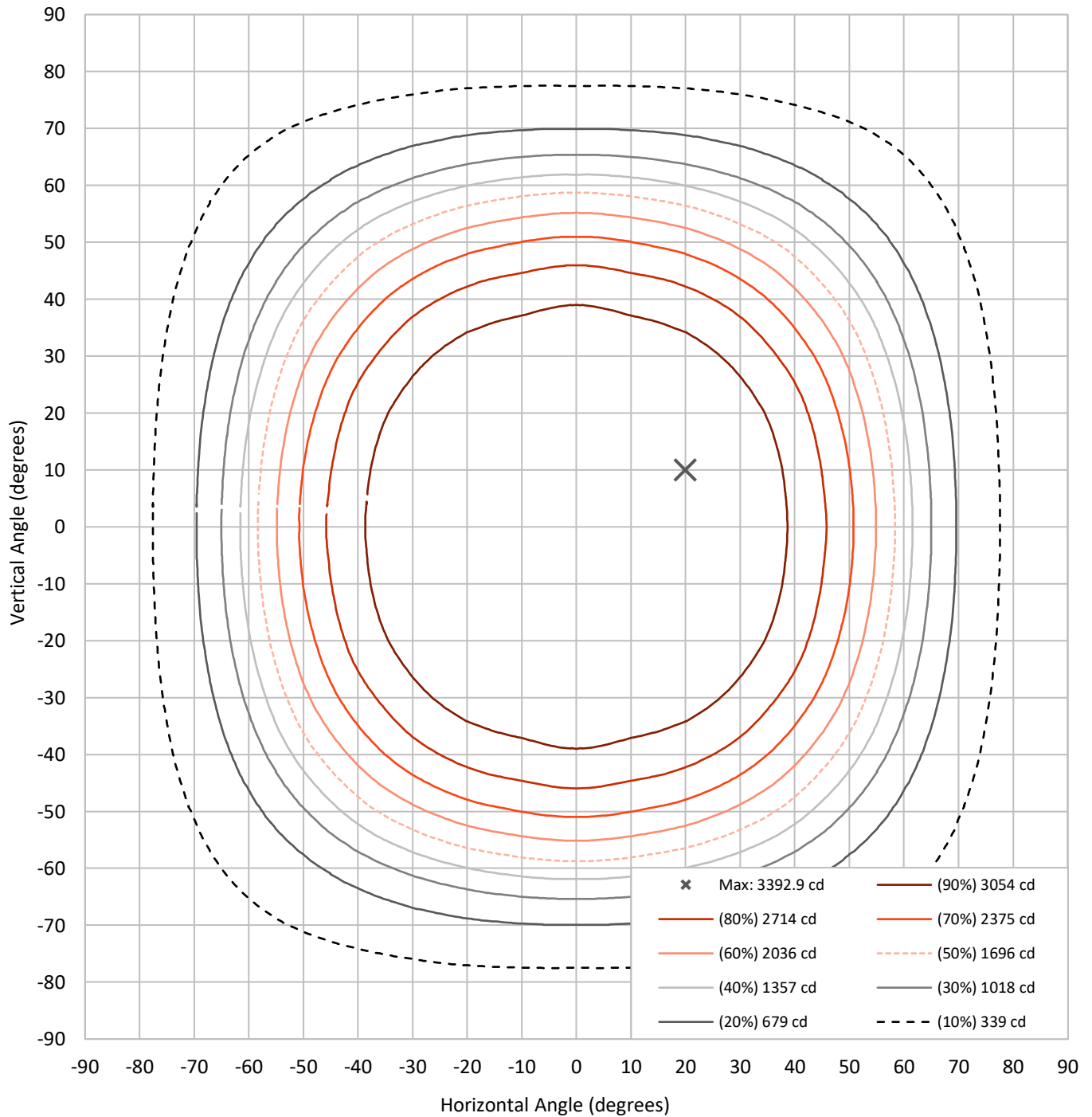
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10408.9 lumens	Max Intensity:	3392.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6387.1 lumens	Field Lumens:	7657.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8  
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



REPORT NUMBER: P628358  
CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM

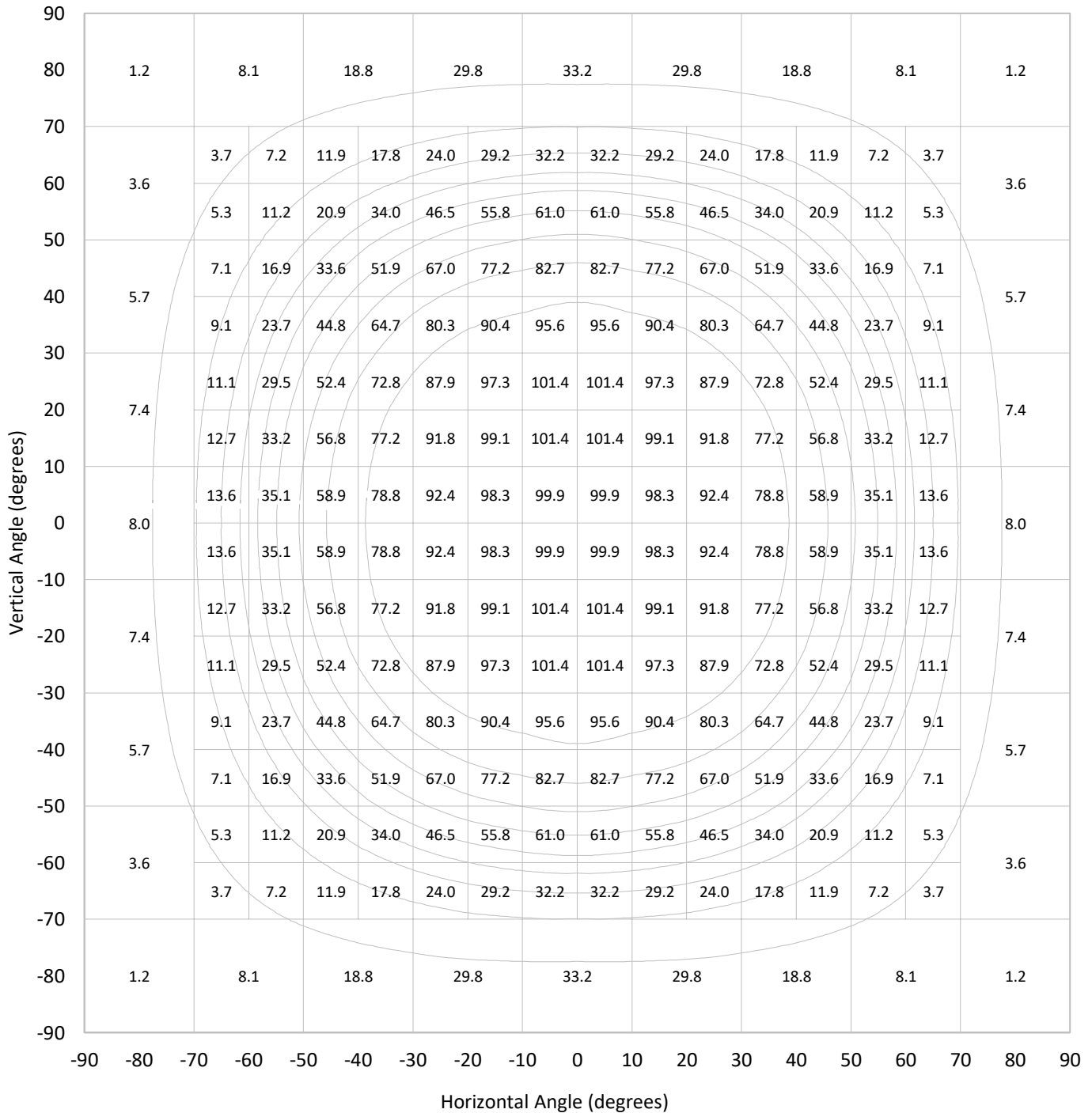
### Iso-Candela Plot





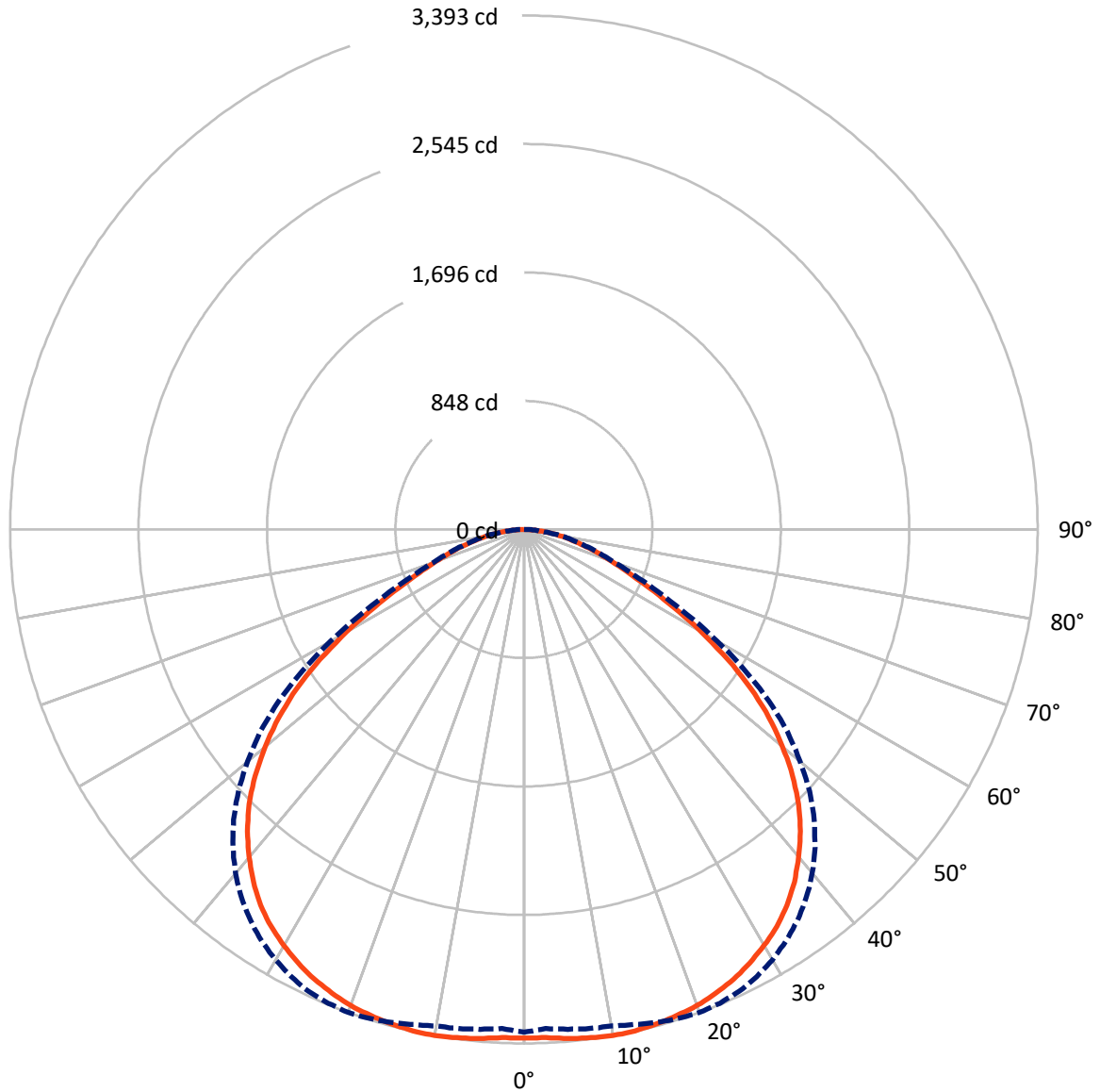
REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM

### Lumen Table



REPORT NUMBER: P628358  
CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM

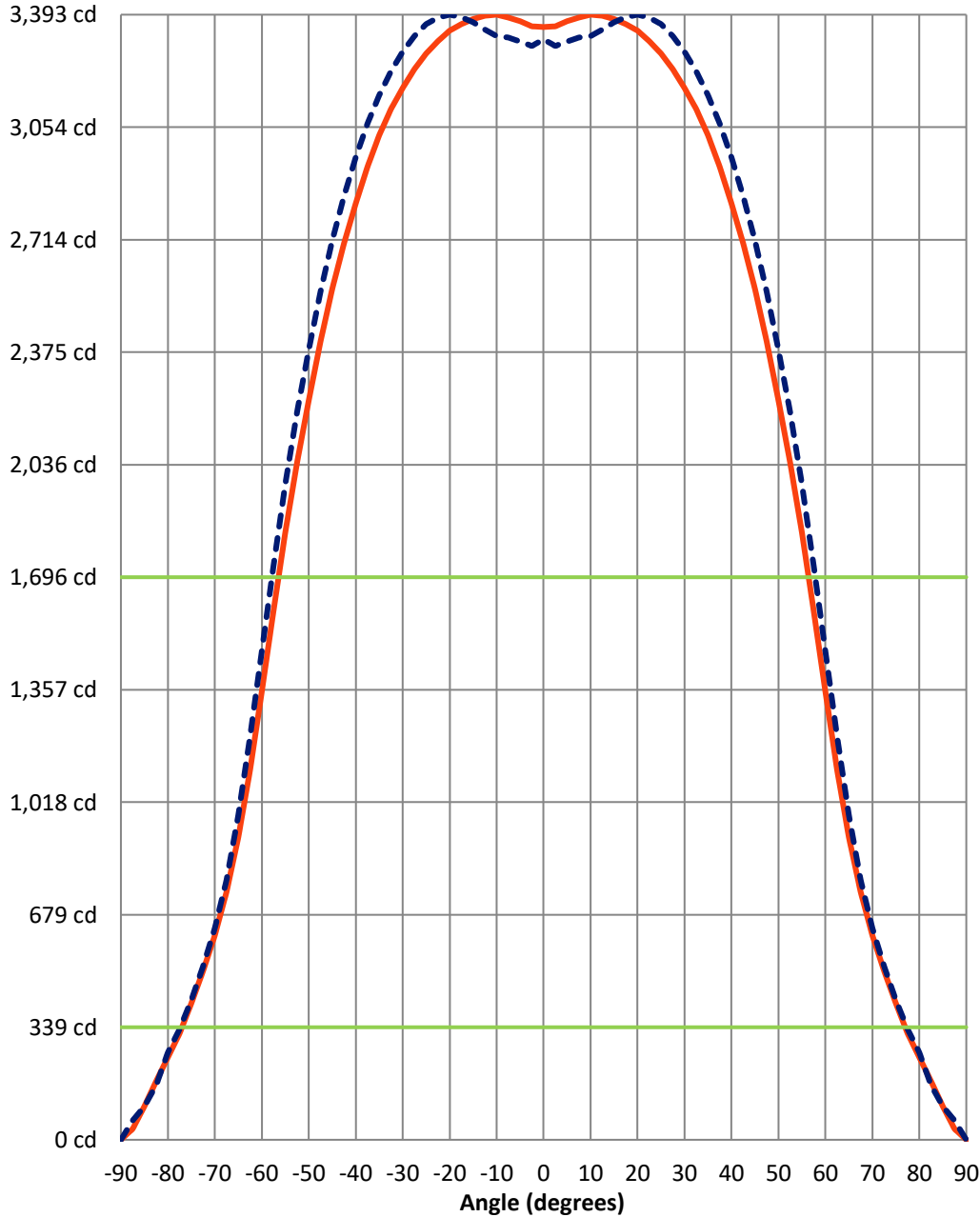
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 6387.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 7657.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2751.8  
 Efficiency: 26.4%

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



REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-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°	27.4	29.6	30.7	31.8	32.9	34.0	35.0	34.0	32.9	32.9	31.8
85°	73.4	75.6	76.7	84.3	92.0	96.4	101.9	100.8	100.8	99.7	98.6
82.5°	146.8	153.3	158.8	166.5	170.8	177.4	181.8	178.5	176.3	171.9	168.7
80°	260.7	262.8	263.9	265.0	259.6	258.5	256.3	253.0	248.6	243.1	237.7
77.5°	331.8	334.0	336.2	334.0	332.9	331.8	328.6	325.3	320.9	316.5	309.9
75°	439.2	439.2	439.2	435.9	433.7	430.4	424.9	419.5	411.8	403.0	393.2
72.5°	553.1	552.0	550.9	544.3	538.8	532.3	524.6	518.0	509.3	499.4	486.3
70°	672.4	674.6	675.7	667.0	660.4	651.6	641.8	629.7	616.6	602.4	583.7
67.5°	836.7	834.5	832.3	820.3	811.5	799.5	785.2	767.7	748.0	726.1	699.8
65°	1040.4	1043.7	1037.1	1025.1	1008.7	989.0	967.1	941.9	912.3	879.4	842.2
62.5°	1286.8	1292.3	1284.7	1269.3	1248.5	1222.2	1191.6	1155.4	1114.9	1068.9	1022.9
60°	1567.2	1566.1	1551.9	1531.1	1503.7	1470.8	1436.9	1397.5	1351.5	1297.8	1241.9
57.5°	1824.6	1822.4	1804.9	1784.1	1756.7	1721.6	1685.5	1643.9	1595.7	1538.7	1474.1
55°	2055.7	2053.5	2036.0	2014.0	1985.6	1950.5	1917.7	1878.2	1831.2	1770.9	1701.9
52.5°	2260.5	2261.6	2246.2	2222.1	2191.5	2157.5	2125.8	2086.3	2041.4	1981.2	1914.4
50°	2448.8	2447.7	2431.3	2409.4	2380.9	2348.1	2316.3	2276.9	2229.8	2171.8	2107.1
47.5°	2624.1	2621.9	2603.3	2579.2	2549.6	2521.1	2491.6	2456.5	2407.2	2349.2	2284.6
45°	2770.8	2766.4	2747.8	2724.8	2696.4	2671.2	2644.9	2618.6	2566.0	2512.4	2451.0
42.5°	2896.8	2895.7	2877.1	2854.1	2825.6	2803.7	2779.6	2746.7	2702.9	2653.6	2593.4
40°	3017.2	3008.5	2989.9	2968.0	2941.7	2923.1	2899.0	2866.1	2823.4	2775.2	2717.2
37.5°	3107.0	3108.1	3088.4	3064.3	3041.3	3023.8	3001.9	2971.2	2934.0	2886.9	2828.9
35°	3192.5	3187.0	3170.6	3149.8	3129.0	3109.2	3086.2	3060.0	3029.3	2985.5	2930.7
32.5°	3248.3	3256.0	3236.3	3214.4	3202.3	3187.0	3162.9	3135.5	3108.1	3064.3	3015.1
30°	3309.7	3303.1	3287.8	3269.1	3260.4	3250.5	3229.7	3203.4	3171.7	3132.2	3086.2
27.5°	3352.4	3349.1	3330.5	3312.9	3308.6	3299.8	3283.4	3260.4	3228.6	3190.3	3147.6
25°	3371.0	3373.2	3355.7	3345.8	3345.8	3340.3	3327.2	3307.5	3275.7	3240.7	3199.0
22.5°	3379.7	3377.6	3365.5	3363.3	3368.8	3364.4	3358.9	3341.4	3312.9	3284.5	3249.4
20°	3385.2	3369.9	3358.9	3367.7	3374.3	3373.2	3368.8	3357.8	3344.7	3320.6	3289.9
17.5°	3373.2	3363.3	3350.2	3363.3	3377.6	3378.7	3374.3	3367.7	3364.4	3349.1	3321.7
15°	3343.6	3335.9	3338.1	3351.3	3367.7	3373.2	3376.5	3384.1	3379.7	3367.7	3343.6
12.5°	3323.9	3314.0	3323.9	3337.0	3345.8	3349.1	3375.4	3389.6	3389.6	3378.7	3363.3
10°	3318.4	3298.7	3311.8	3323.9	3328.3	3348.0	3369.9	3385.2	3392.9	3384.1	3364.4
7.5°	3307.5	3294.3	3299.8	3305.3	3330.5	3344.7	3356.7	3373.2	3384.1	3383.0	3365.5
5°	3302.0	3285.6	3287.8	3310.8	3328.3	3338.1	3342.5	3356.7	3373.2	3376.5	3363.3
2.5°	3287.8	3280.1	3296.5	3298.7	3311.8	3319.5	3323.9	3337.0	3357.8	3365.5	3360.0
0°	3280.1	3269.1	3258.2	3266.9	3288.8	3305.3	3311.8	3331.6	3355.7	3363.3	3351.3



REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-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°	30.7	29.6	28.5	27.4	28.5	28.5	28.5	27.4	28.5	27.4	27.4
85°	95.3	90.9	87.6	83.2	78.9	75.6	71.2	66.8	65.7	64.6	62.4
82.5°	164.3	158.8	153.3	146.8	140.2	132.5	124.9	116.1	113.9	111.7	108.4
80°	231.1	223.4	215.8	208.1	201.5	193.8	185.1	175.2	168.7	163.2	156.6
77.5°	301.2	290.2	279.3	266.1	258.5	250.8	242.0	232.2	222.3	213.6	203.7
75°	381.1	369.1	358.1	345.0	330.7	316.5	302.3	289.1	274.9	261.7	248.6
72.5°	469.8	452.3	434.8	418.4	400.8	383.3	364.7	347.2	329.7	312.1	293.5
70°	562.9	541.0	519.1	497.2	474.2	451.2	429.3	407.4	385.5	362.5	341.7
67.5°	672.4	647.3	618.8	588.1	554.2	524.6	496.1	469.8	443.6	417.3	391.0
65°	809.3	774.3	736.0	694.3	654.9	615.5	573.9	534.5	503.8	473.1	443.6
62.5°	978.0	928.7	875.1	821.4	773.2	721.7	673.5	622.1	573.9	530.1	493.9
60°	1179.5	1112.7	1047.0	978.0	911.2	841.1	779.8	716.3	656.0	602.4	549.8
57.5°	1401.8	1324.1	1245.2	1160.9	1070.0	987.9	904.6	821.4	750.2	679.0	619.9
55°	1627.4	1545.3	1456.6	1361.3	1261.7	1156.5	1043.7	950.6	853.2	769.9	693.3
52.5°	1842.1	1756.7	1664.7	1577.1	1457.7	1337.2	1213.5	1090.8	976.9	870.7	777.6
50°	2033.8	1950.5	1861.8	1760.0	1649.4	1521.2	1383.2	1245.2	1110.5	985.7	869.6
47.5°	2209.0	2127.9	2039.2	1937.4	1836.6	1694.3	1555.2	1402.9	1252.9	1109.4	973.6
45°	2373.3	2291.1	2199.1	2101.7	1985.6	1858.5	1715.1	1561.7	1400.7	1239.8	1083.1
42.5°	2522.2	2440.1	2347.0	2246.2	2131.2	2005.3	1866.2	1711.8	1549.7	1374.5	1202.5
40°	2652.5	2572.6	2482.8	2377.7	2270.3	2137.8	2000.9	1854.2	1686.6	1510.3	1320.8
37.5°	2766.4	2692.0	2603.3	2499.2	2385.3	2267.0	2125.8	1979.0	1827.9	1636.2	1442.4
35°	2867.2	2798.2	2707.3	2608.7	2497.0	2372.2	2239.7	2096.2	1933.0	1753.4	1565.0
32.5°	2954.8	2884.7	2801.5	2702.9	2594.5	2477.3	2341.5	2196.9	2042.5	1859.6	1654.8
30°	3029.3	2961.4	2882.5	2789.4	2685.4	2569.3	2436.8	2291.1	2133.4	1951.6	1749.0
27.5°	3093.9	3029.3	2952.6	2866.1	2766.4	2654.7	2521.1	2374.4	2213.4	2038.1	1835.5
25°	3149.8	3087.3	3016.1	2934.0	2835.4	2725.9	2600.0	2446.6	2285.7	2109.3	1908.9
22.5°	3200.1	3139.9	3068.7	2988.8	2899.0	2789.4	2662.4	2510.2	2347.0	2172.9	1975.7
20°	3245.0	3189.2	3119.1	3037.0	2947.1	2836.5	2710.6	2566.0	2401.7	2230.9	2036.0
17.5°	3281.2	3231.9	3161.8	3075.3	2985.5	2878.2	2755.5	2623.0	2448.8	2280.2	2086.3
15°	3306.4	3258.2	3194.7	3107.0	3019.4	2913.2	2790.5	2653.6	2491.6	2319.6	2127.9
12.5°	3323.9	3272.4	3213.3	3132.2	3044.6	2939.5	2820.1	2685.4	2527.7	2354.7	2164.1
10°	3328.3	3281.2	3222.0	3149.8	3064.3	2962.5	2845.3	2711.7	2557.3	2382.0	2193.7
7.5°	3330.5	3285.6	3231.9	3162.9	3078.6	2980.0	2863.9	2732.5	2579.2	2405.0	2215.6
5°	3329.4	3286.7	3238.5	3171.7	3087.3	2989.9	2876.0	2746.7	2594.5	2420.4	2232.0
2.5°	3326.1	3287.8	3242.8	3178.2	3097.2	3000.8	2888.0	2763.2	2610.9	2433.5	2245.1
0°	3334.8	3302.0	3245.0	3176.0	3099.4	3000.8	2886.9	2765.3	2613.1	2432.4	2244.0





REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-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°	27.4	26.3	26.3	25.2	24.1	23.0	20.8	19.7	17.5	14.2	11.0
85°	59.1	55.9	52.6	50.4	48.2	46.0	42.7	39.4	35.0	28.5	21.9
82.5°	104.0	97.5	90.9	83.2	76.7	70.1	64.6	59.1	52.6	42.7	32.9
80°	148.9	139.1	129.2	118.3	108.4	97.5	87.6	78.9	70.1	56.9	43.8
77.5°	193.8	180.7	166.5	153.3	139.1	124.9	110.6	98.6	85.4	70.1	54.8
75°	235.5	220.1	207.0	188.4	170.8	152.2	133.6	117.2	100.8	82.1	65.7
72.5°	277.1	257.4	238.8	221.2	201.5	178.5	157.7	136.9	116.1	94.2	74.5
70°	318.7	294.6	271.6	250.8	228.9	205.9	180.7	156.6	131.4	105.1	82.1
67.5°	361.4	334.0	307.7	281.5	256.3	230.0	203.7	176.3	146.8	116.1	90.9
65°	408.5	374.6	342.8	313.2	283.7	255.2	225.6	196.0	163.2	128.1	98.6
62.5°	455.6	418.4	381.1	343.9	311.0	279.3	247.5	214.7	178.5	141.3	106.2
60°	506.0	463.3	420.6	378.9	338.4	303.4	268.3	233.3	194.9	153.3	113.9
57.5°	561.8	510.4	462.2	415.1	369.1	327.5	289.1	251.9	209.2	165.4	122.7
55°	625.4	561.8	504.9	452.3	401.9	351.6	309.9	271.6	225.6	177.4	132.5
52.5°	692.2	618.8	549.8	490.6	437.0	380.0	329.7	286.9	242.0	189.5	141.3
50°	769.9	676.8	600.2	527.9	467.6	408.5	350.5	304.5	258.5	203.7	150.0
47.5°	849.9	746.9	650.5	571.7	500.5	435.9	374.6	319.8	273.8	216.8	158.8
45°	943.0	813.7	707.5	614.4	532.3	464.4	398.6	336.2	286.9	230.0	167.6
42.5°	1032.8	892.6	766.6	661.5	568.4	491.7	420.6	353.7	300.1	243.1	175.2
40°	1139.0	971.4	823.6	706.4	604.5	518.0	442.5	372.4	312.1	255.2	182.9
37.5°	1240.8	1051.4	892.6	755.7	639.6	544.3	464.4	389.9	323.1	267.2	192.8
35°	1341.6	1140.1	958.3	801.7	675.7	573.9	486.3	406.3	334.0	277.1	201.5
32.5°	1438.0	1223.3	1025.1	853.2	715.2	601.3	506.0	421.6	345.0	285.8	210.3
30°	1527.8	1302.2	1090.8	905.7	751.3	626.4	524.6	437.0	358.1	293.5	219.0
27.5°	1609.9	1378.8	1156.5	955.0	785.2	649.4	544.3	451.2	369.1	301.2	226.7
25°	1684.4	1447.8	1216.8	999.9	815.9	674.6	562.9	465.5	378.9	307.7	233.3
22.5°	1754.5	1511.4	1271.5	1044.8	853.2	699.8	580.4	478.6	388.8	314.3	239.8
20°	1815.8	1569.4	1324.1	1089.7	886.0	722.8	595.8	490.6	397.6	318.7	246.4
17.5°	1865.1	1620.9	1371.2	1129.1	914.5	742.5	608.9	501.6	405.2	324.2	250.8
15°	1908.9	1664.7	1410.6	1163.1	939.7	759.0	621.0	510.4	411.8	327.5	256.3
12.5°	1946.1	1701.9	1444.6	1192.7	961.6	773.2	630.8	516.9	417.3	330.7	259.6
10°	1976.8	1731.5	1473.0	1215.7	979.1	784.2	638.5	523.5	421.6	334.0	262.8
7.5°	1999.8	1753.4	1493.8	1235.4	993.3	791.8	645.1	527.9	426.0	336.2	268.3
5°	2017.3	1772.0	1510.3	1248.5	1004.3	802.8	652.7	533.4	430.4	338.4	268.3
2.5°	2030.5	1787.3	1523.4	1259.5	1013.0	800.6	652.7	532.3	430.4	338.4	267.2
0°	2028.3	1788.4	1522.3	1259.5	1013.0	798.4	652.7	531.2	430.4	338.4	267.2



REPORT NUMBER: P628358  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	5.5	2.2	0.0
85°	16.4	11.0	5.5	0.0
82.5°	24.1	15.3	7.7	0.0
80°	31.8	20.8	9.9	0.0
77.5°	40.5	26.3	13.1	0.0
75°	48.2	30.7	15.3	0.0
72.5°	55.9	36.1	17.5	0.0
70°	62.4	40.5	19.7	0.0
67.5°	69.0	46.0	23.0	0.0
65°	74.5	50.4	25.2	0.0
62.5°	78.9	55.9	27.4	0.0
60°	84.3	60.2	29.6	0.0
57.5°	88.7	63.5	31.8	0.0
55°	93.1	65.7	34.0	0.0
52.5°	97.5	69.0	36.1	0.0
50°	101.9	72.3	38.3	0.0
47.5°	106.2	74.5	39.4	0.0
45°	112.8	77.8	41.6	0.0
42.5°	118.3	79.9	43.8	0.0
40°	123.8	82.1	44.9	0.0
37.5°	129.2	84.3	47.1	0.0
35°	134.7	86.5	48.2	0.0
32.5°	139.1	88.7	49.3	0.0
30°	143.5	90.9	50.4	0.0
27.5°	147.9	92.0	51.5	0.0
25°	151.1	94.2	52.6	0.0
22.5°	154.4	95.3	53.7	0.0
20°	156.6	96.4	54.8	0.0
17.5°	159.9	97.5	55.9	0.0
15°	161.0	98.6	58.0	0.0
12.5°	163.2	99.7	58.0	0.0
10°	164.3	100.8	58.0	0.0
7.5°	166.5	100.8	58.0	0.0
5°	165.4	100.8	58.0	0.0
2.5°	165.4	100.8	58.0	0.0
0°	164.3	100.8	58.0	0.0

(END OF REPORT)