

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: P628356

Luminaire Tested: **IFLD-S-SA2D-827-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628356  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11832 lumens	Max Intensity:	3856.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

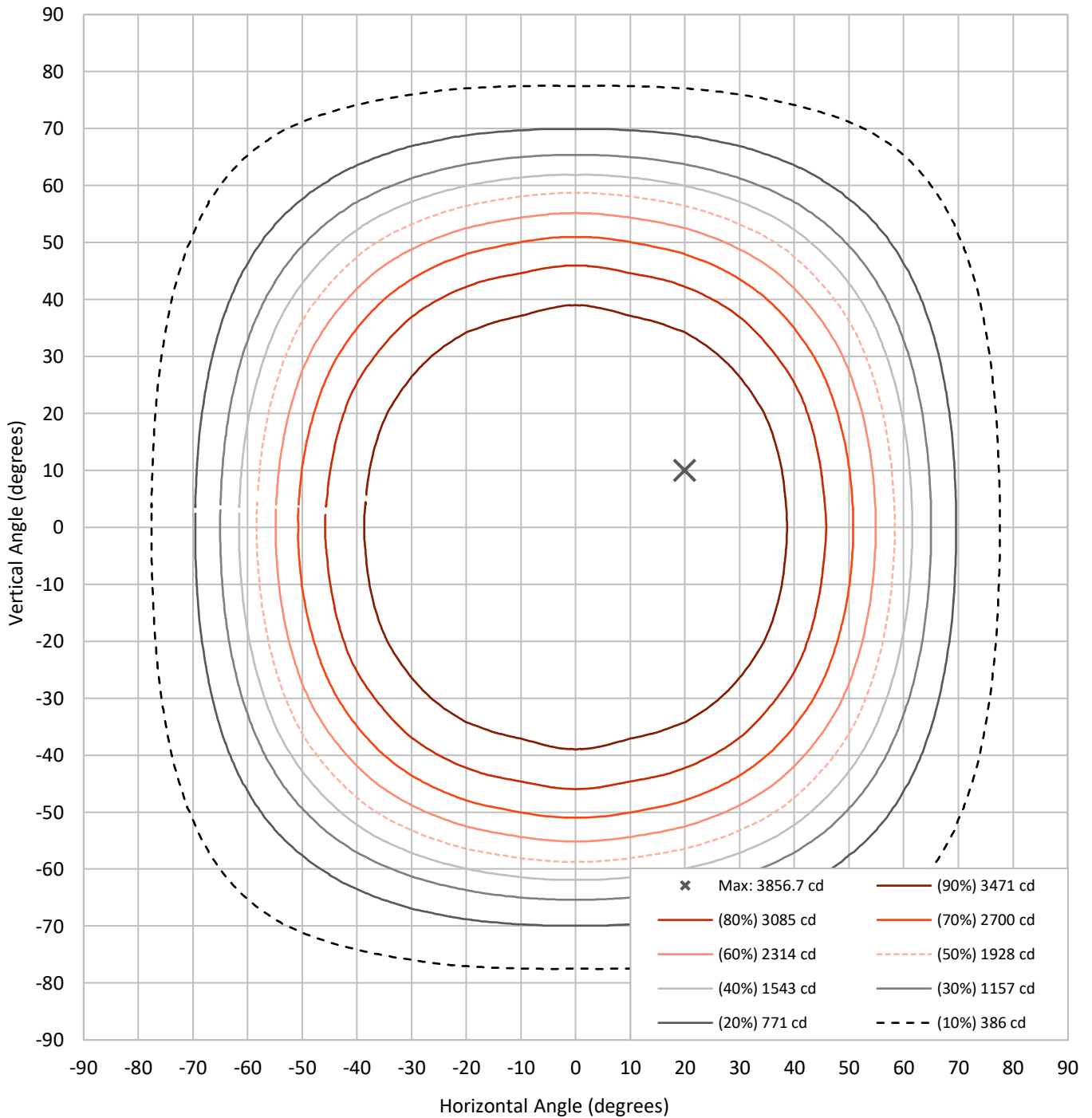
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7260.3 lumens	Field Lumens:	8703.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 123.9  
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: P628356  
CATALOG NUMBER: IFLD-S-SA2D-827-U-LAM

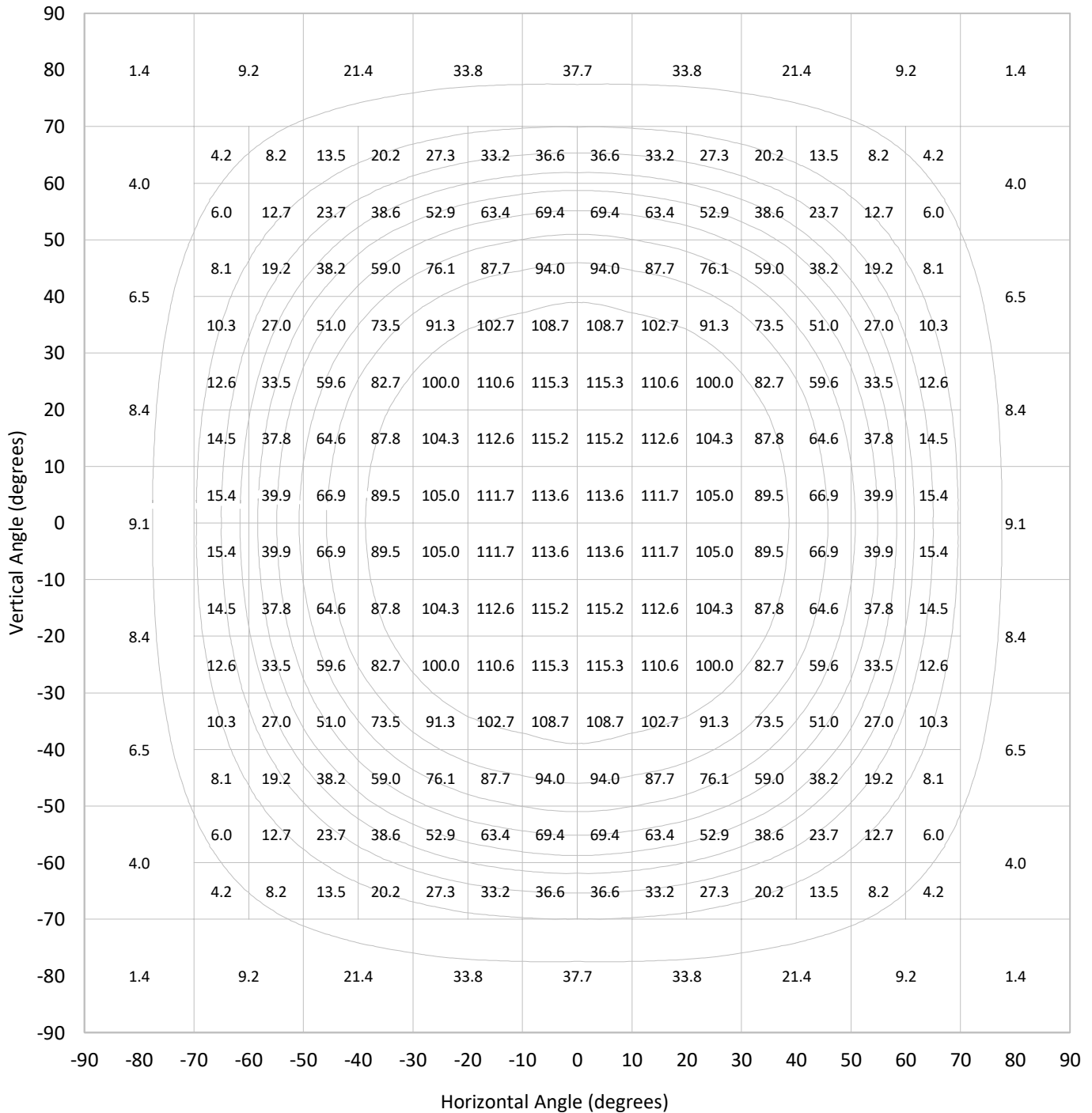
### Iso-Candela Plot





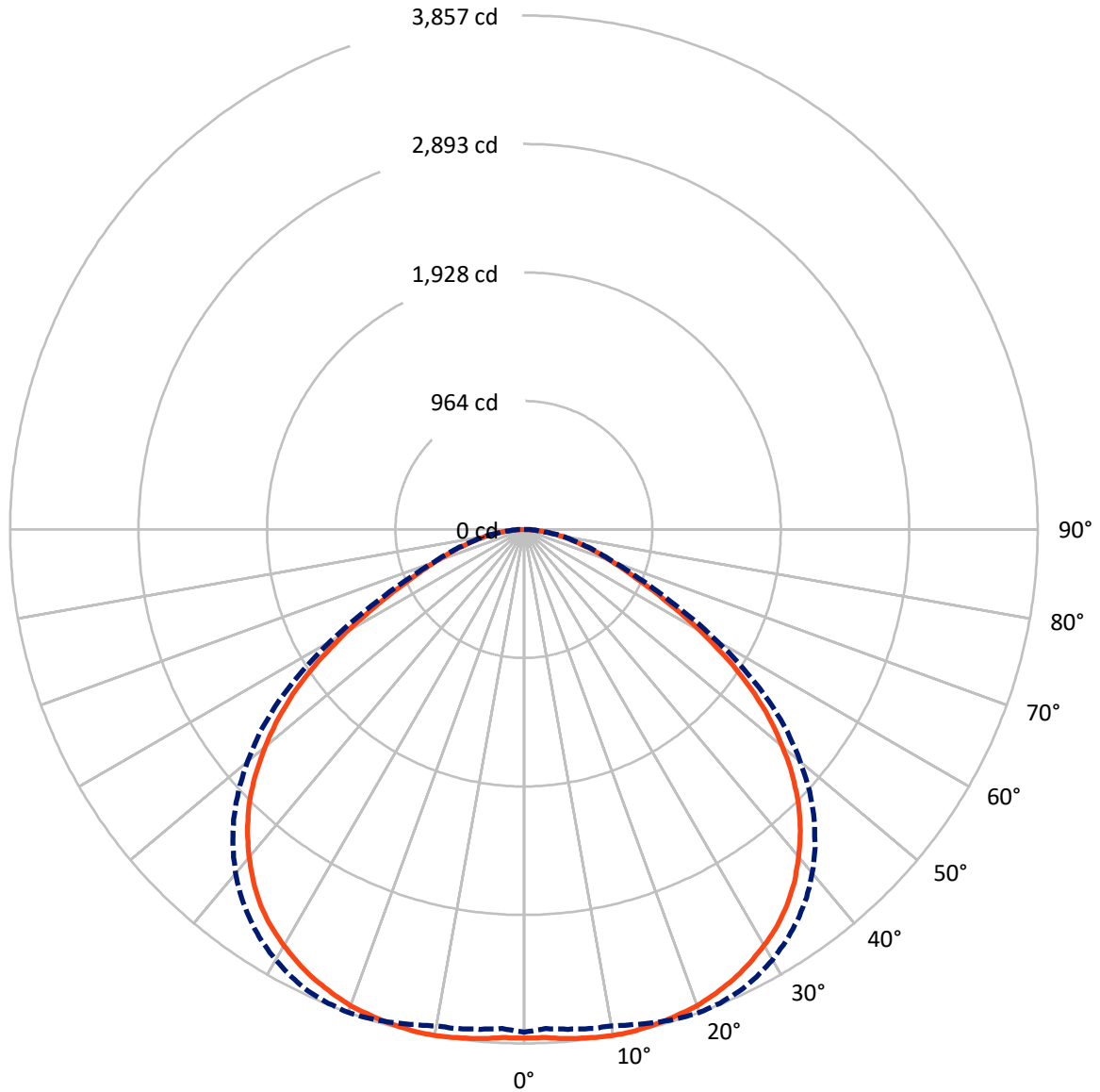
REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-LAM

### Lumen Table



REPORT NUMBER: P628356  
CATALOG NUMBER: IFLD-S-SA2D-827-U-LAM

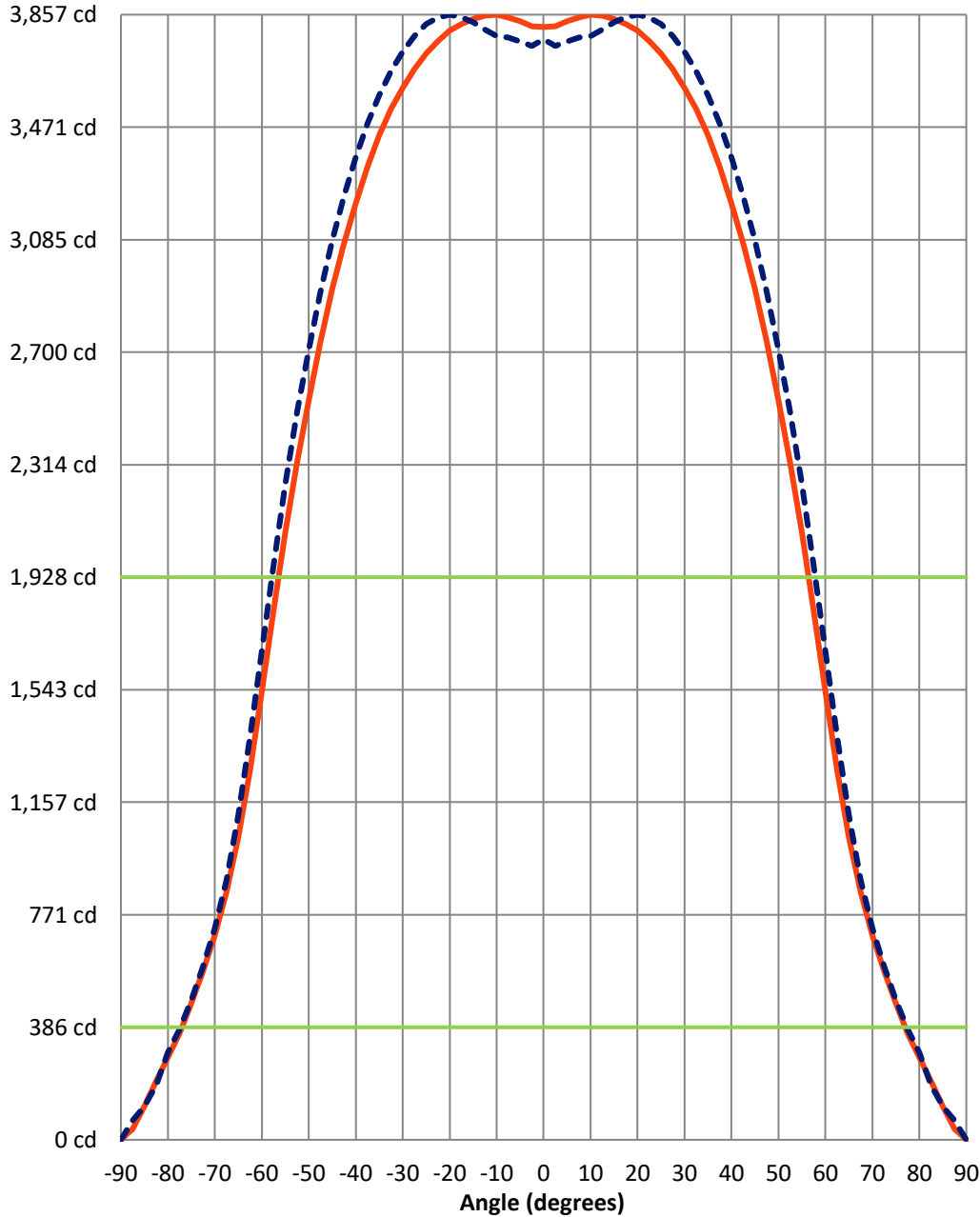
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 7260.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 8703.9  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3128.1  
 Efficiency: 26.4%

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



REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-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°	31.1	33.6	34.9	36.1	37.3	38.6	39.8	38.6	37.3	37.3	36.1
85°	83.4	85.9	87.1	95.9	104.6	109.6	115.8	114.5	114.5	113.3	112.0
82.5°	166.8	174.3	180.5	189.2	194.2	201.7	206.7	202.9	200.4	195.5	191.7
80°	296.3	298.8	300.0	301.3	295.0	293.8	291.3	287.6	282.6	276.4	270.1
77.5°	377.2	379.7	382.2	379.7	378.5	377.2	373.5	369.7	364.8	359.8	352.3
75°	499.2	499.2	499.2	495.5	493.0	489.3	483.0	476.8	468.1	458.1	446.9
72.5°	628.7	627.4	626.2	618.7	612.5	605.0	596.3	588.8	578.9	567.7	552.7
70°	764.4	766.9	768.1	758.2	750.7	740.7	729.5	715.8	700.9	684.7	663.5
67.5°	951.1	948.6	946.1	932.4	922.5	908.8	892.6	872.7	850.3	825.4	795.5
65°	1182.7	1186.4	1178.9	1165.2	1146.6	1124.2	1099.3	1070.6	1037.0	999.7	957.3
62.5°	1462.8	1469.0	1460.3	1442.9	1419.2	1389.3	1354.5	1313.4	1267.3	1215.0	1162.8
60°	1781.5	1780.2	1764.0	1740.4	1709.3	1671.9	1633.3	1588.5	1536.2	1475.2	1411.7
57.5°	2074.0	2071.5	2051.6	2028.0	1996.8	1957.0	1915.9	1868.6	1813.8	1749.1	1675.7
55°	2336.7	2334.2	2314.3	2289.4	2257.0	2217.2	2179.8	2135.0	2081.5	2013.0	1934.6
52.5°	2569.5	2570.8	2553.3	2525.9	2491.1	2452.5	2416.4	2371.6	2320.5	2252.1	2176.1
50°	2783.6	2782.4	2763.7	2738.8	2706.4	2669.1	2633.0	2588.2	2534.6	2468.7	2395.2
47.5°	2982.8	2980.3	2959.2	2931.8	2898.2	2865.8	2832.2	2792.3	2736.3	2670.3	2596.9
45°	3149.6	3144.7	3123.5	3097.4	3065.0	3036.4	3006.5	2976.6	2916.8	2855.8	2786.1
42.5°	3292.8	3291.6	3270.4	3244.3	3211.9	3187.0	3159.6	3122.2	3072.5	3016.4	2948.0
40°	3429.7	3419.8	3398.6	3373.7	3343.8	3322.7	3295.3	3257.9	3209.4	3154.6	3088.6
37.5°	3531.8	3533.1	3510.7	3483.3	3457.1	3437.2	3412.3	3377.5	3335.1	3281.6	3215.6
35°	3628.9	3622.7	3604.0	3580.4	3556.7	3534.3	3508.2	3478.3	3443.4	3393.6	3331.4
32.5°	3692.4	3701.1	3678.7	3653.8	3640.1	3622.7	3595.3	3564.2	3533.1	3483.3	3427.3
30°	3762.1	3754.7	3737.2	3716.1	3706.1	3694.9	3671.3	3641.4	3605.3	3560.5	3508.2
27.5°	3810.7	3807.0	3785.8	3765.9	3760.9	3750.9	3732.3	3706.1	3670.0	3626.4	3577.9
25°	3831.9	3834.3	3814.4	3803.2	3803.2	3797.0	3782.1	3759.6	3723.5	3683.7	3636.4
22.5°	3841.8	3839.3	3825.6	3823.1	3829.4	3824.4	3818.2	3798.2	3765.9	3733.5	3693.7
20°	3848.0	3830.6	3818.2	3828.1	3835.6	3834.3	3829.4	3816.9	3802.0	3774.6	3739.7
17.5°	3834.3	3823.1	3808.2	3823.1	3839.3	3840.6	3835.6	3828.1	3824.4	3807.0	3775.8
15°	3800.7	3792.0	3794.5	3809.4	3828.1	3834.3	3838.1	3846.8	3841.8	3828.1	3800.7
12.5°	3778.3	3767.1	3778.3	3793.3	3803.2	3807.0	3836.8	3853.0	3853.0	3840.6	3823.1
10°	3772.1	3749.7	3764.6	3778.3	3783.3	3805.7	3830.6	3848.0	3856.7	3846.8	3824.4
7.5°	3759.6	3744.7	3750.9	3757.2	3785.8	3802.0	3815.7	3834.3	3846.8	3845.5	3825.6
5°	3753.4	3734.7	3737.2	3763.4	3783.3	3794.5	3799.5	3815.7	3834.3	3838.1	3823.1
2.5°	3737.2	3728.5	3747.2	3749.7	3764.6	3773.3	3778.3	3793.3	3816.9	3825.6	3819.4
0°	3728.5	3716.1	3703.6	3713.6	3738.5	3757.2	3764.6	3787.0	3814.4	3823.1	3809.4



REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-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°	34.9	33.6	32.4	31.1	32.4	32.4	32.4	31.1	32.4	31.1	31.1
85°	108.3	103.3	99.6	94.6	89.6	85.9	80.9	75.9	74.7	73.5	71.0
82.5°	186.7	180.5	174.3	166.8	159.3	150.6	141.9	132.0	129.5	127.0	123.2
80°	262.7	254.0	245.2	236.5	229.1	220.4	210.4	199.2	191.7	185.5	178.0
77.5°	342.4	329.9	317.5	302.5	293.8	285.1	275.1	263.9	252.7	242.8	231.6
75°	433.2	419.5	407.1	392.1	376.0	359.8	343.6	328.7	312.5	297.5	282.6
72.5°	534.1	514.2	494.2	475.6	455.6	435.7	414.6	394.6	374.7	354.8	333.6
70°	639.9	615.0	590.1	565.2	539.0	512.9	488.0	463.1	438.2	412.1	388.4
67.5°	764.4	735.7	703.4	668.5	629.9	596.3	563.9	534.1	504.2	474.3	444.4
65°	920.0	880.2	836.6	789.3	744.5	699.6	652.3	607.5	572.7	537.8	504.2
62.5°	1111.7	1055.7	994.7	933.7	878.9	820.4	765.6	707.1	652.3	602.5	561.5
60°	1340.8	1264.8	1190.1	1111.7	1035.8	956.1	886.4	814.2	745.7	684.7	624.9
57.5°	1593.5	1505.1	1415.5	1319.6	1216.3	1122.9	1028.3	933.7	852.8	771.8	704.6
55°	1849.9	1756.6	1655.7	1547.4	1434.1	1314.6	1186.4	1080.6	969.8	875.2	788.0
52.5°	2093.9	1996.8	1892.3	1792.7	1657.0	1520.0	1379.4	1239.9	1110.5	989.7	883.9
50°	2311.8	2217.2	2116.4	2000.6	1874.8	1729.2	1572.3	1415.5	1262.3	1120.4	988.5
47.5°	2511.0	2418.9	2318.0	2202.3	2087.7	1925.9	1767.8	1594.7	1424.2	1261.1	1106.7
45°	2697.7	2604.4	2499.8	2389.0	2257.0	2112.6	1949.5	1775.3	1592.2	1409.2	1231.2
42.5°	2867.0	2773.7	2667.9	2553.3	2422.6	2279.4	2121.3	1945.8	1761.6	1562.4	1366.9
40°	3015.2	2924.3	2822.2	2702.7	2580.7	2430.1	2274.5	2107.6	1917.2	1716.7	1501.4
37.5°	3144.7	3060.0	2959.2	2840.9	2711.4	2577.0	2416.4	2249.6	2077.8	1859.9	1639.6
35°	3259.2	3180.8	3077.4	2965.4	2838.4	2696.5	2545.9	2382.8	2197.3	1993.1	1779.0
32.5°	3358.8	3279.1	3184.5	3072.5	2949.2	2816.0	2661.6	2497.3	2321.8	2113.9	1881.1
30°	3443.4	3366.3	3276.6	3170.8	3052.5	2920.6	2769.9	2604.4	2425.1	2218.4	1988.1
27.5°	3516.9	3443.4	3356.3	3257.9	3144.7	3017.7	2865.8	2699.0	2516.0	2316.8	2086.5
25°	3580.4	3509.4	3428.5	3335.1	3223.1	3098.6	2955.4	2781.1	2598.1	2397.7	2169.9
22.5°	3637.6	3569.2	3488.3	3397.4	3295.3	3170.8	3026.4	2853.3	2667.9	2469.9	2245.8
20°	3688.7	3625.2	3545.5	3452.2	3350.1	3224.3	3081.2	2916.8	2730.1	2535.9	2314.3
17.5°	3729.8	3673.7	3594.1	3495.7	3393.6	3271.6	3132.2	2981.6	2783.6	2591.9	2371.6
15°	3758.4	3703.6	3631.4	3531.8	3432.2	3311.5	3172.0	3016.4	2832.2	2636.7	2418.9
12.5°	3778.3	3719.8	3652.6	3560.5	3460.9	3341.4	3205.7	3052.5	2873.3	2676.6	2460.0
10°	3783.3	3729.8	3662.5	3580.4	3483.3	3367.5	3234.3	3082.4	2906.9	2707.7	2493.6
7.5°	3785.8	3734.7	3673.7	3595.3	3499.5	3387.4	3255.5	3106.1	2931.8	2733.8	2518.5
5°	3784.5	3736.0	3681.2	3605.3	3509.4	3398.6	3269.1	3122.2	2949.2	2751.3	2537.1
2.5°	3780.8	3737.2	3686.2	3612.7	3520.6	3411.1	3282.8	3140.9	2967.9	2766.2	2552.1
0°	3790.8	3753.4	3688.7	3610.3	3523.1	3411.1	3281.6	3143.4	2970.4	2765.0	2550.8





REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-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°	31.1	29.9	29.9	28.6	27.4	26.1	23.7	22.4	19.9	16.2	12.4
85°	67.2	63.5	59.8	57.3	54.8	52.3	48.6	44.8	39.8	32.4	24.9
82.5°	118.3	110.8	103.3	94.6	87.1	79.7	73.5	67.2	59.8	48.6	37.3
80°	169.3	158.1	146.9	134.5	123.2	110.8	99.6	89.6	79.7	64.7	49.8
77.5°	220.4	205.4	189.2	174.3	158.1	141.9	125.7	112.0	97.1	79.7	62.2
75°	267.7	250.2	235.3	214.1	194.2	173.0	151.9	133.2	114.5	93.4	74.7
72.5°	315.0	292.6	271.4	251.5	229.1	202.9	179.3	155.6	132.0	107.1	84.7
70°	362.3	334.9	308.7	285.1	260.2	234.0	205.4	178.0	149.4	119.5	93.4
67.5°	410.8	379.7	349.8	319.9	291.3	261.4	231.6	200.4	166.8	132.0	103.3
65°	464.4	425.8	389.7	356.0	322.4	290.1	256.5	222.8	185.5	145.7	112.0
62.5°	517.9	475.6	433.2	390.9	353.6	317.5	281.4	244.0	202.9	160.6	120.8
60°	575.2	526.6	478.0	430.7	384.7	344.8	305.0	265.2	221.6	174.3	129.5
57.5°	638.6	580.1	525.4	471.8	419.5	372.2	328.7	286.3	237.8	188.0	139.4
55°	710.8	638.6	573.9	514.2	456.9	399.6	352.3	308.7	256.5	201.7	150.6
52.5°	786.8	703.4	624.9	557.7	496.7	432.0	374.7	326.2	275.1	215.4	160.6
50°	875.2	769.4	682.2	600.0	531.6	464.4	398.4	346.1	293.8	231.6	170.6
47.5°	966.1	849.0	739.5	649.8	568.9	495.5	425.8	363.5	311.2	246.5	180.5
45°	1071.9	925.0	804.2	698.4	605.0	527.8	453.1	382.2	326.2	261.4	190.5
42.5°	1174.0	1014.6	871.4	751.9	646.1	559.0	478.0	402.1	341.1	276.4	199.2
40°	1294.7	1104.2	936.2	803.0	687.2	588.8	502.9	423.3	354.8	290.1	207.9
37.5°	1410.5	1195.1	1014.6	859.0	727.0	618.7	527.8	443.2	367.3	303.8	219.1
35°	1525.0	1296.0	1089.3	911.3	768.1	652.3	552.7	461.9	379.7	315.0	229.1
32.5°	1634.6	1390.6	1165.2	969.8	812.9	683.5	575.2	479.3	392.1	324.9	239.0
30°	1736.7	1480.2	1239.9	1029.5	854.0	712.1	596.3	496.7	407.1	333.6	249.0
27.5°	1830.0	1567.3	1314.6	1085.6	892.6	738.2	618.7	512.9	419.5	342.4	257.7
25°	1914.7	1645.8	1383.1	1136.6	927.5	766.9	639.9	529.1	430.7	349.8	265.2
22.5°	1994.4	1718.0	1445.3	1187.6	969.8	795.5	659.8	544.0	441.9	357.3	272.6
20°	2064.1	1784.0	1505.1	1238.7	1007.1	821.6	677.2	557.7	451.9	362.3	280.1
17.5°	2120.1	1842.5	1558.6	1283.5	1039.5	844.1	692.2	570.2	460.6	368.5	285.1
15°	2169.9	1892.3	1603.5	1322.1	1068.1	862.7	705.9	580.1	468.1	372.2	291.3
12.5°	2212.2	1934.6	1642.0	1355.7	1093.0	878.9	717.1	587.6	474.3	376.0	295.0
10°	2247.1	1968.2	1674.4	1381.9	1113.0	891.4	725.8	595.1	479.3	379.7	298.8
7.5°	2273.2	1993.1	1698.1	1404.3	1129.1	900.1	733.3	600.0	484.3	382.2	305.0
5°	2293.1	2014.3	1716.7	1419.2	1141.6	912.5	742.0	606.3	489.3	384.7	305.0
2.5°	2308.1	2031.7	1731.7	1431.7	1151.5	910.0	742.0	605.0	489.3	384.7	303.8
0°	2305.6	2032.9	1730.4	1431.7	1151.5	907.5	742.0	603.8	489.3	384.7	303.8



REPORT NUMBER: P628356  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	6.2	2.5	0.0
85°	18.7	12.4	6.2	0.0
82.5°	27.4	17.4	8.7	0.0
80°	36.1	23.7	11.2	0.0
77.5°	46.1	29.9	14.9	0.0
75°	54.8	34.9	17.4	0.0
72.5°	63.5	41.1	19.9	0.0
70°	71.0	46.1	22.4	0.0
67.5°	78.4	52.3	26.1	0.0
65°	84.7	57.3	28.6	0.0
62.5°	89.6	63.5	31.1	0.0
60°	95.9	68.5	33.6	0.0
57.5°	100.8	72.2	36.1	0.0
55°	105.8	74.7	38.6	0.0
52.5°	110.8	78.4	41.1	0.0
50°	115.8	82.2	43.6	0.0
47.5°	120.8	84.7	44.8	0.0
45°	128.2	88.4	47.3	0.0
42.5°	134.5	90.9	49.8	0.0
40°	140.7	93.4	51.0	0.0
37.5°	146.9	95.9	53.5	0.0
35°	153.1	98.3	54.8	0.0
32.5°	158.1	100.8	56.0	0.0
30°	163.1	103.3	57.3	0.0
27.5°	168.1	104.6	58.5	0.0
25°	171.8	107.1	59.8	0.0
22.5°	175.5	108.3	61.0	0.0
20°	178.0	109.6	62.2	0.0
17.5°	181.8	110.8	63.5	0.0
15°	183.0	112.0	66.0	0.0
12.5°	185.5	113.3	66.0	0.0
10°	186.7	114.5	66.0	0.0
7.5°	189.2	114.5	66.0	0.0
5°	188.0	114.5	66.0	0.0
2.5°	188.0	114.5	66.0	0.0
0°	186.7	114.5	66.0	0.0

(END OF REPORT)