

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: P628156

Luminaire Tested: **IFLD-S-SA3B-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628156
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12899.5 lumens	Max Intensity:	4204.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	105.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

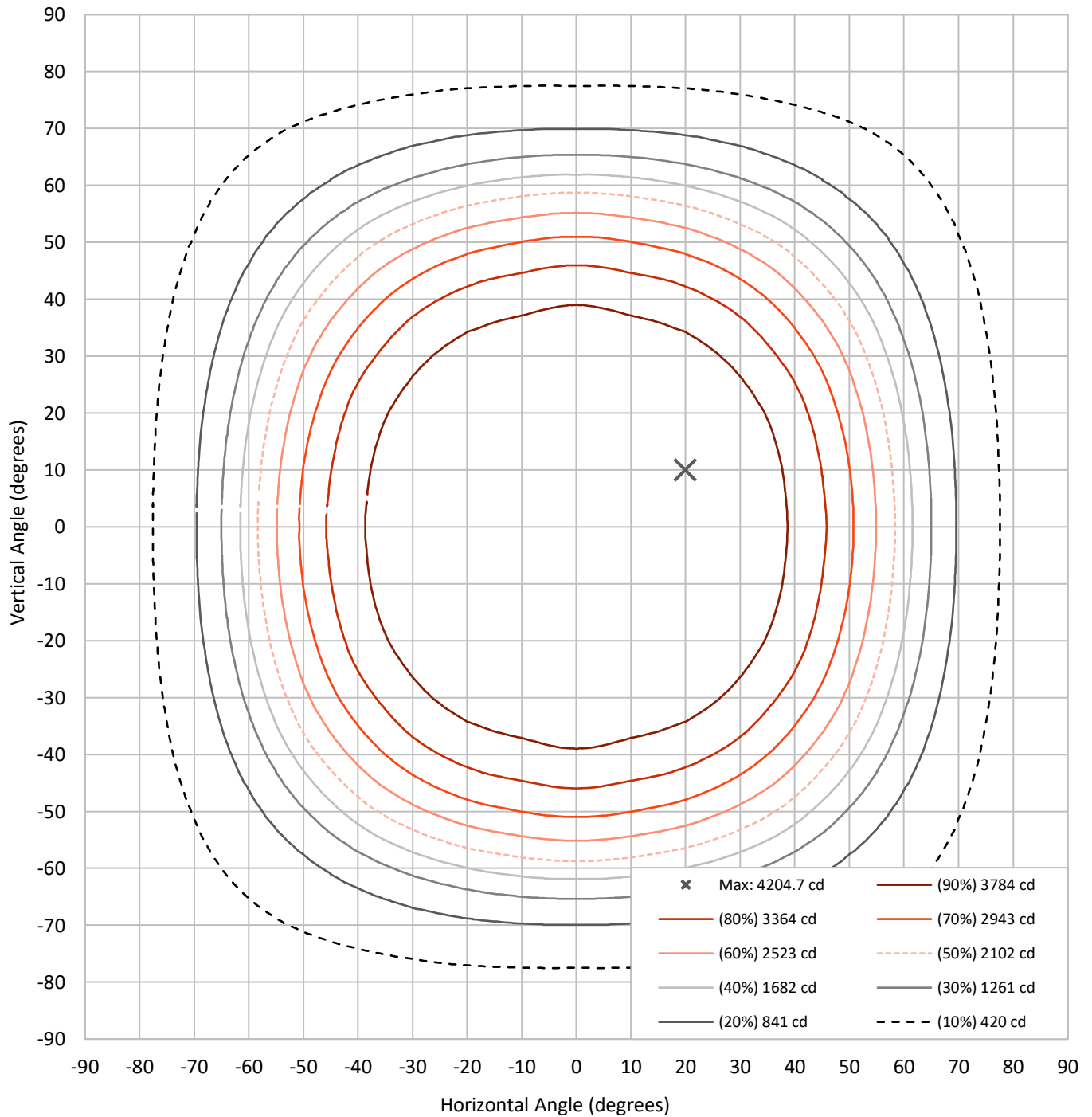
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7915.4 lumens	Field Lumens:	9489.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 122.4
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: P628156
CATALOG NUMBER: IFLD-S-SA3B-722-U-LAM

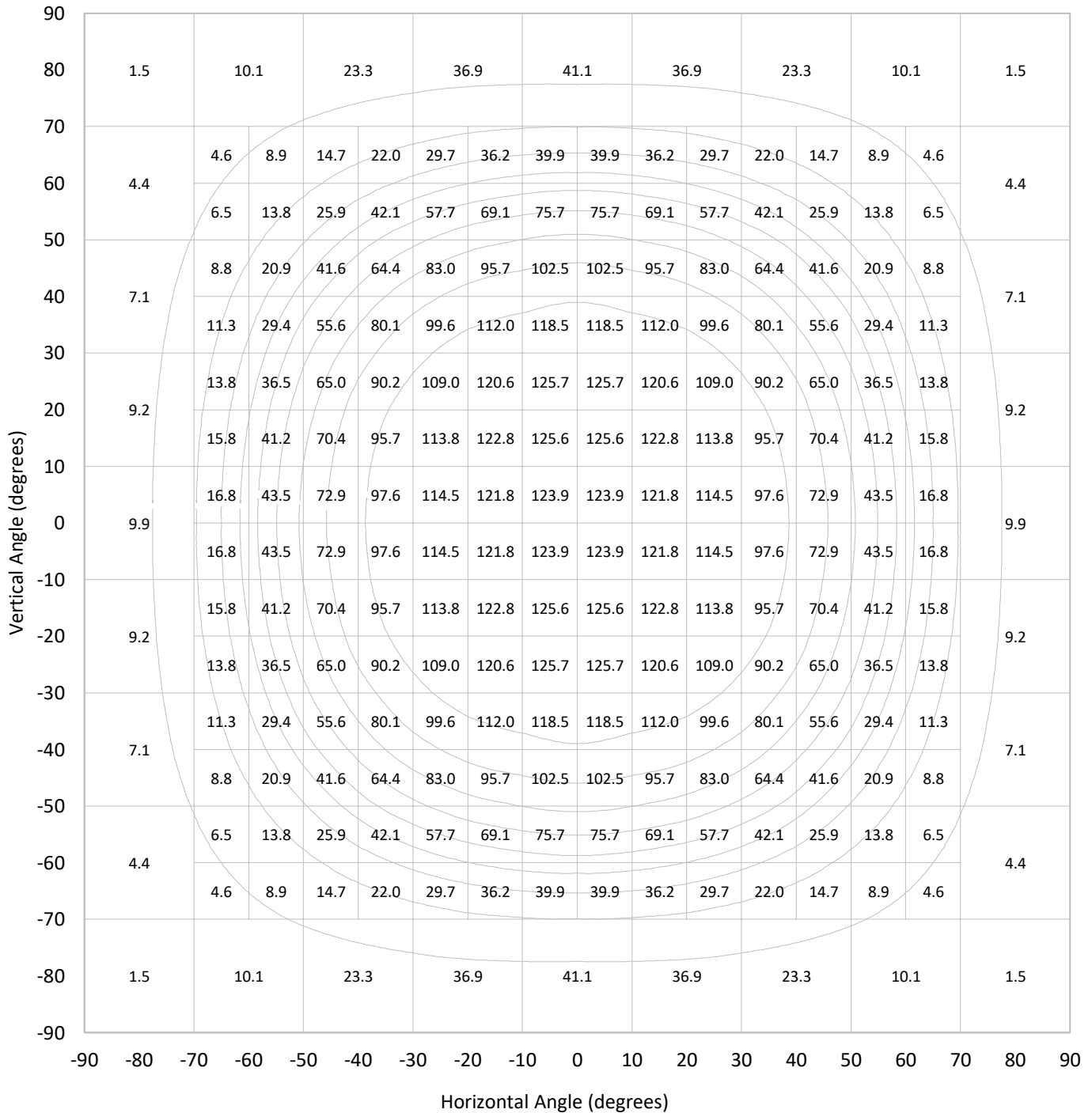
Iso-Candela Plot





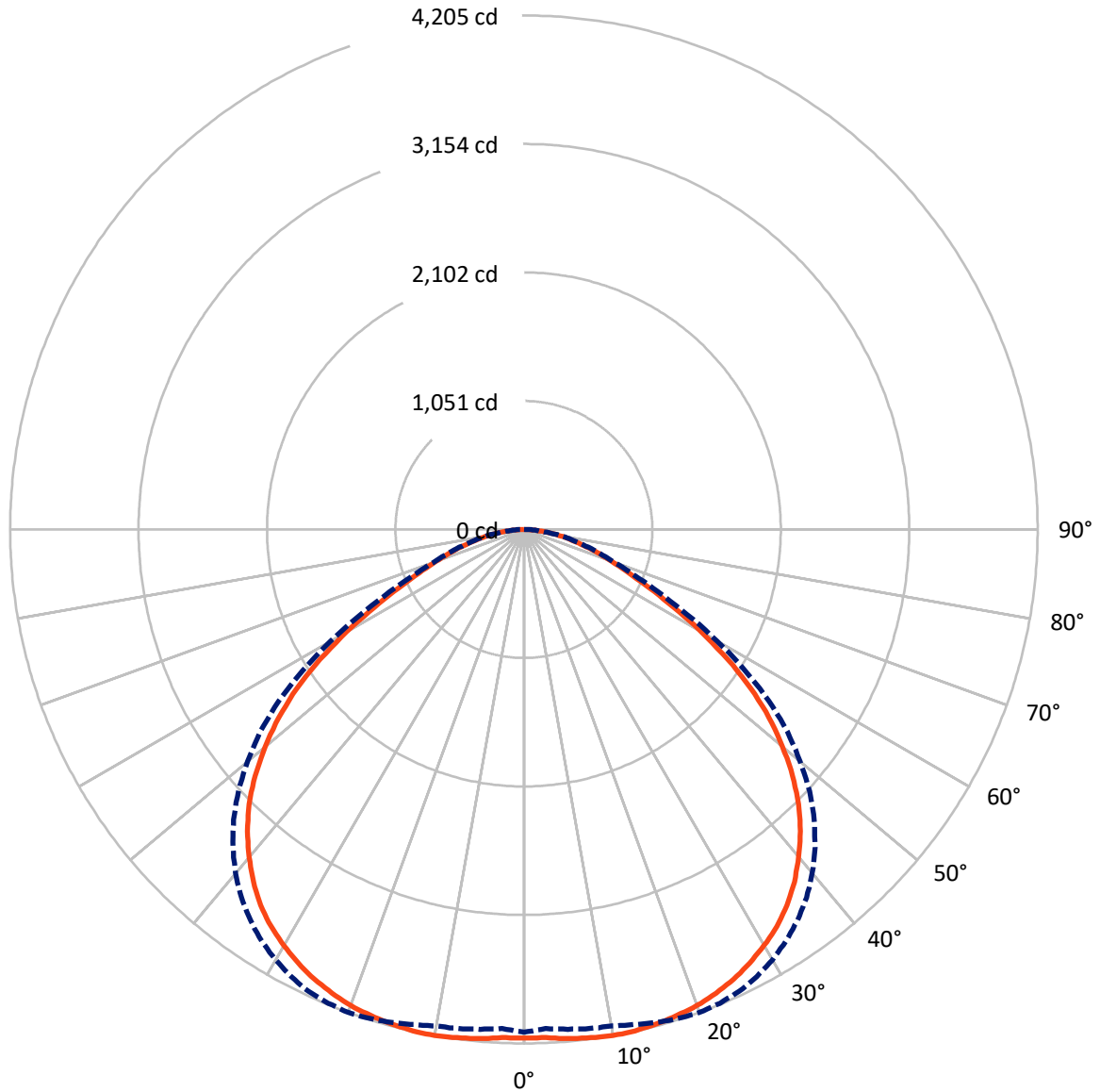
REPORT NUMBER: P628156
 CATALOG NUMBER: IFLD-S-SA3B-722-U-LAM

Lumen Table



REPORT NUMBER: P628156
CATALOG NUMBER: IFLD-S-SA3B-722-U-LAM

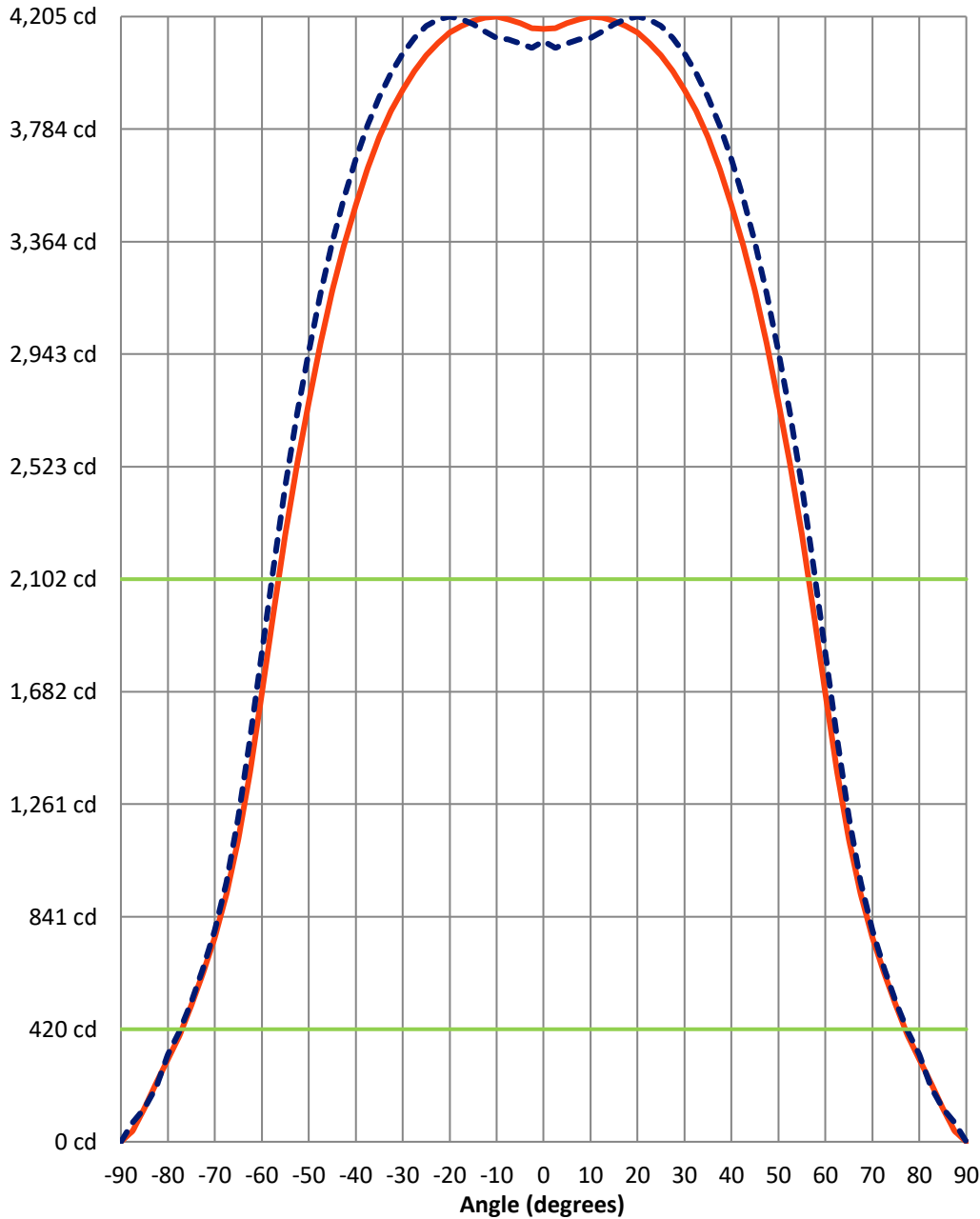
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628156
CATALOG NUMBER: IFLD-S-SA3B-722-U-LAM

Luminous Intensity Plot



Beam:
H Angle: 115.7°
V Angle: 112.9°
Lumens: 7915.4
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 9489.2
Efficiency: 73.6%

Spill:
Lumens: 3410.3
Efficiency: 26.4%

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



REPORT NUMBER: P628156
 CATALOG NUMBER: IFLD-S-SA3B-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°	33.9	36.6	38.0	39.4	40.7	42.1	43.4	42.1	40.7	40.7	39.4
85°	90.9	93.6	95.0	104.5	114.0	119.4	126.2	124.9	124.9	123.5	122.2
82.5°	181.9	190.0	196.8	206.3	211.7	219.9	225.3	221.2	218.5	213.1	209.0
80°	323.0	325.7	327.1	328.5	321.7	320.3	317.6	313.5	308.1	301.3	294.5
77.5°	411.2	414.0	416.7	414.0	412.6	411.2	407.2	403.1	397.7	392.2	384.1
75°	544.3	544.3	544.3	540.2	537.5	533.4	526.6	519.8	510.3	499.5	487.2
72.5°	685.4	684.0	682.7	674.5	667.8	659.6	650.1	642.0	631.1	618.9	602.6
70°	833.3	836.1	837.4	826.6	818.4	807.6	795.3	780.4	764.1	746.5	723.4
67.5°	1036.9	1034.2	1031.5	1016.6	1005.7	990.8	973.1	951.4	927.0	899.8	867.3
65°	1289.4	1293.4	1285.3	1270.4	1250.0	1225.6	1198.4	1167.2	1130.6	1089.9	1043.7
62.5°	1594.8	1601.5	1592.0	1573.0	1547.3	1514.7	1476.7	1431.9	1381.7	1324.7	1267.7
60°	1942.2	1940.8	1923.2	1897.4	1863.5	1822.8	1780.7	1731.8	1674.8	1608.3	1539.1
57.5°	2261.2	2258.4	2236.7	2210.9	2177.0	2133.6	2088.8	2037.2	1977.5	1906.9	1826.8
55°	2547.5	2544.8	2523.1	2496.0	2460.7	2417.2	2376.5	2327.7	2269.3	2194.7	2109.1
52.5°	2801.3	2802.7	2783.7	2753.8	2715.8	2673.8	2634.4	2585.5	2529.9	2455.2	2372.5
50°	3034.8	3033.4	3013.1	2985.9	2950.6	2909.9	2870.6	2821.7	2763.3	2691.4	2611.3
47.5°	3251.9	3249.2	3226.2	3196.3	3159.6	3124.4	3087.7	3044.3	2983.2	2911.3	2831.2
45°	3433.8	3428.4	3405.3	3376.8	3341.5	3310.3	3277.7	3245.2	3180.0	3113.5	3037.5
42.5°	3589.9	3588.5	3565.5	3537.0	3501.7	3474.5	3444.7	3404.0	3349.7	3288.6	3213.9
40°	3739.2	3728.3	3705.3	3678.1	3645.5	3622.5	3592.6	3551.9	3499.0	3439.2	3367.3
37.5°	3850.5	3851.8	3827.4	3797.6	3769.0	3747.3	3720.2	3682.2	3636.0	3577.7	3505.7
35°	3956.3	3949.6	3929.2	3903.4	3877.6	3853.2	3824.7	3792.1	3754.1	3699.8	3632.0
32.5°	4025.6	4035.1	4010.6	3983.5	3968.6	3949.6	3919.7	3885.8	3851.8	3797.6	3736.5
30°	4101.6	4093.4	4074.4	4051.4	4040.5	4028.3	4002.5	3969.9	3930.6	3881.7	3824.7
27.5°	4154.5	4150.4	4127.4	4105.6	4100.2	4089.4	4069.0	4040.5	4001.1	3953.6	3900.7
25°	4177.6	4180.3	4158.6	4146.4	4146.4	4139.6	4123.3	4098.9	4059.5	4016.1	3964.5
22.5°	4188.4	4185.7	4170.8	4168.1	4174.9	4169.4	4162.6	4140.9	4105.6	4070.4	4026.9
20°	4195.2	4176.2	4162.6	4173.5	4181.6	4180.3	4174.9	4161.3	4145.0	4115.1	4077.1
17.5°	4180.3	4168.1	4151.8	4168.1	4185.7	4187.1	4181.6	4173.5	4169.4	4150.4	4116.5
15°	4143.6	4134.1	4136.9	4153.1	4173.5	4180.3	4184.4	4193.9	4188.4	4173.5	4143.6
12.5°	4119.2	4107.0	4119.2	4135.5	4146.4	4150.4	4183.0	4200.6	4200.6	4187.1	4168.1
10°	4112.4	4088.0	4104.3	4119.2	4124.6	4149.1	4176.2	4195.2	4204.7	4193.9	4169.4
7.5°	4098.9	4082.6	4089.4	4096.1	4127.4	4145.0	4159.9	4180.3	4193.9	4192.5	4170.8
5°	4092.1	4071.7	4074.4	4102.9	4124.6	4136.9	4142.3	4159.9	4180.3	4184.4	4168.1
2.5°	4074.4	4064.9	4085.3	4088.0	4104.3	4113.8	4119.2	4135.5	4161.3	4170.8	4164.0
0°	4064.9	4051.4	4037.8	4048.6	4075.8	4096.1	4104.3	4128.7	4158.6	4168.1	4153.1



REPORT NUMBER: P628156
 CATALOG NUMBER: IFLD-S-SA3B-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°	38.0	36.6	35.3	33.9	35.3	35.3	35.3	33.9	35.3	33.9	33.9
85°	118.1	112.7	108.6	103.2	97.7	93.6	88.2	82.8	81.4	80.1	77.4
82.5°	203.6	196.8	190.0	181.9	173.7	164.2	154.7	143.9	141.2	138.4	134.4
80°	286.4	276.9	267.4	257.9	249.7	240.2	229.4	217.2	209.0	202.2	194.1
77.5°	373.2	359.7	346.1	329.8	320.3	310.8	299.9	287.7	275.5	264.7	252.4
75°	472.3	457.4	443.8	427.5	409.9	392.2	374.6	358.3	340.7	324.4	308.1
72.5°	582.3	560.5	538.8	518.5	496.7	475.0	452.0	430.2	408.5	386.8	363.7
70°	697.6	670.5	643.3	616.2	587.7	559.2	532.0	504.9	477.7	449.2	423.5
67.5°	833.3	802.1	766.8	728.8	686.8	650.1	614.8	582.3	549.7	517.1	484.5
65°	1003.0	959.6	912.1	860.5	811.6	762.8	711.2	662.3	624.3	586.3	549.7
62.5°	1212.0	1150.9	1084.4	1017.9	958.2	894.4	834.7	770.9	711.2	656.9	612.1
60°	1461.7	1379.0	1297.5	1212.0	1129.2	1042.4	966.4	887.6	813.0	746.5	681.3
57.5°	1737.3	1640.9	1543.2	1438.7	1326.0	1224.2	1121.1	1017.9	929.7	841.5	768.2
55°	2016.9	1915.1	1805.1	1687.0	1563.5	1433.2	1293.4	1178.1	1057.3	954.1	859.1
52.5°	2282.9	2177.0	2063.0	1954.4	1806.5	1657.2	1503.8	1351.8	1210.7	1079.0	963.6
50°	2520.4	2417.2	2307.3	2181.1	2044.0	1885.2	1714.2	1543.2	1376.2	1221.5	1077.6
47.5°	2737.5	2637.1	2527.2	2401.0	2276.1	2099.6	1927.3	1738.6	1552.7	1374.9	1206.6
45°	2941.1	2839.3	2725.3	2604.5	2460.7	2303.2	2125.4	1935.4	1735.9	1536.4	1342.3
42.5°	3125.7	3023.9	2908.6	2783.7	2641.2	2485.1	2312.7	2121.4	1920.5	1703.3	1490.2
40°	3287.2	3188.2	3076.9	2946.6	2813.6	2649.3	2479.7	2297.8	2090.1	1871.6	1636.8
37.5°	3428.4	3336.1	3226.2	3097.2	2956.1	2809.5	2634.4	2452.5	2265.2	2027.7	1787.5
35°	3553.2	3467.7	3355.1	3232.9	3094.5	2939.8	2775.6	2597.8	2395.5	2172.9	1939.5
32.5°	3661.8	3575.0	3471.8	3349.7	3215.3	3070.1	2901.8	2722.6	2531.2	2304.6	2050.8
30°	3754.1	3670.0	3572.2	3456.9	3327.9	3184.1	3019.9	2839.3	2643.9	2418.6	2167.5
27.5°	3834.2	3754.1	3659.1	3551.9	3428.4	3289.9	3124.4	2942.5	2743.0	2525.8	2274.7
25°	3903.4	3826.1	3737.8	3636.0	3513.9	3378.2	3222.1	3032.1	2832.6	2614.0	2365.7
22.5°	3965.8	3891.2	3803.0	3703.9	3592.6	3456.9	3299.4	3110.8	2908.6	2692.8	2448.5
20°	4021.5	3952.3	3865.4	3763.6	3652.3	3515.2	3359.2	3180.0	2976.4	2764.7	2523.1
17.5°	4066.3	4005.2	3918.3	3811.1	3699.8	3566.8	3414.8	3250.6	3034.8	2825.8	2585.5
15°	4097.5	4037.8	3959.1	3850.5	3741.9	3610.3	3458.2	3288.6	3087.7	2874.6	2637.1
12.5°	4119.2	4055.4	3982.1	3881.7	3773.1	3642.8	3494.9	3327.9	3132.5	2918.1	2681.9
10°	4124.6	4066.3	3993.0	3903.4	3797.6	3671.3	3526.1	3360.5	3169.1	2952.0	2718.5
7.5°	4127.4	4071.7	4005.2	3919.7	3815.2	3693.0	3549.2	3386.3	3196.3	2980.5	2745.7
5°	4126.0	4073.1	4013.4	3930.6	3826.1	3705.3	3564.1	3404.0	3215.3	2999.5	2766.0
2.5°	4121.9	4074.4	4018.8	3938.7	3838.3	3718.8	3579.0	3424.3	3235.7	3015.8	2782.3
0°	4132.8	4092.1	4021.5	3936.0	3841.0	3718.8	3577.7	3427.0	3238.4	3014.4	2781.0



REPORT NUMBER: P628156
 CATALOG NUMBER: IFLD-S-SA3B-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°	33.9	32.6	32.6	31.2	29.9	28.5	25.8	24.4	21.7	17.6	13.6
85°	73.3	69.2	65.1	62.4	59.7	57.0	52.9	48.9	43.4	35.3	27.1
82.5°	128.9	120.8	112.7	103.2	95.0	86.9	80.1	73.3	65.1	52.9	40.7
80°	184.6	172.4	160.2	146.6	134.4	120.8	108.6	97.7	86.9	70.6	54.3
77.5°	240.2	223.9	206.3	190.0	172.4	154.7	137.1	122.2	105.9	86.9	67.9
75°	291.8	272.8	256.5	233.4	211.7	188.7	165.6	145.2	124.9	101.8	81.4
72.5°	343.4	319.0	295.9	274.2	249.7	221.2	195.4	169.7	143.9	116.7	92.3
70°	395.0	365.1	336.6	310.8	283.7	255.2	223.9	194.1	162.9	130.3	101.8
67.5°	447.9	414.0	381.4	348.8	317.6	285.0	252.4	218.5	181.9	143.9	112.7
65°	506.2	464.2	424.8	388.2	351.5	316.2	279.6	242.9	202.2	158.8	122.2
62.5°	564.6	518.5	472.3	426.2	385.5	346.1	306.7	266.0	221.2	175.1	131.7
60°	627.0	574.1	521.2	469.6	419.4	376.0	332.5	289.1	241.6	190.0	141.2
57.5°	696.3	632.5	572.8	514.4	457.4	405.8	358.3	312.2	259.2	204.9	152.0
55°	775.0	696.3	625.7	560.5	498.1	435.7	384.1	336.6	279.6	219.9	164.2
52.5°	857.8	766.8	681.3	608.0	541.5	471.0	408.5	355.6	299.9	234.8	175.1
50°	954.1	838.8	743.8	654.2	579.5	506.2	434.3	377.3	320.3	252.4	185.9
47.5°	1053.2	925.6	806.2	708.5	620.3	540.2	464.2	396.3	339.3	268.7	196.8
45°	1168.6	1008.4	876.8	761.4	659.6	575.5	494.0	416.7	355.6	285.0	207.7
42.5°	1279.9	1106.1	950.1	819.8	704.4	609.4	521.2	438.4	371.9	301.3	217.2
40°	1411.5	1203.9	1020.6	875.4	749.2	642.0	548.3	461.5	386.8	316.2	226.7
37.5°	1537.7	1302.9	1106.1	936.5	792.6	674.5	575.5	483.2	400.4	331.2	238.9
35°	1662.6	1412.9	1187.6	993.5	837.4	711.2	602.6	503.5	414.0	343.4	249.7
32.5°	1782.1	1516.0	1270.4	1057.3	886.3	745.1	627.0	522.5	427.5	354.2	260.6
30°	1893.3	1613.8	1351.8	1122.4	931.1	776.3	650.1	541.5	443.8	363.7	271.4
27.5°	1995.1	1708.8	1433.2	1183.5	973.1	804.8	674.5	559.2	457.4	373.2	280.9
25°	2087.4	1794.3	1507.9	1239.2	1011.1	836.1	697.6	576.8	469.6	381.4	289.1
22.5°	2174.3	1873.0	1575.8	1294.8	1057.3	867.3	719.3	593.1	481.8	389.5	297.2
20°	2250.3	1944.9	1640.9	1350.5	1098.0	895.8	738.3	608.0	492.7	395.0	305.4
17.5°	2311.4	2008.7	1699.3	1399.3	1133.3	920.2	754.6	621.6	502.2	401.7	310.8
15°	2365.7	2063.0	1748.1	1441.4	1164.5	940.6	769.6	632.5	510.3	405.8	317.6
12.5°	2411.8	2109.1	1790.2	1478.0	1191.7	958.2	781.8	640.6	517.1	409.9	321.7
10°	2449.8	2145.8	1825.5	1506.5	1213.4	971.8	791.3	648.8	522.5	414.0	325.7
7.5°	2478.3	2172.9	1851.3	1531.0	1231.0	981.3	799.4	654.2	528.0	416.7	332.5
5°	2500.0	2196.0	1871.6	1547.3	1244.6	994.9	808.9	661.0	533.4	419.4	332.5
2.5°	2516.3	2215.0	1887.9	1560.8	1255.4	992.1	808.9	659.6	533.4	419.4	331.2
0°	2513.6	2216.4	1886.6	1560.8	1255.4	989.4	808.9	658.3	533.4	419.4	331.2



REPORT NUMBER: P628156
 CATALOG NUMBER: IFLD-S-SA3B-722-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.5	6.8	2.7	0.0
85°	20.4	13.6	6.8	0.0
82.5°	29.9	19.0	9.5	0.0
80°	39.4	25.8	12.2	0.0
77.5°	50.2	32.6	16.3	0.0
75°	59.7	38.0	19.0	0.0
72.5°	69.2	44.8	21.7	0.0
70°	77.4	50.2	24.4	0.0
67.5°	85.5	57.0	28.5	0.0
65°	92.3	62.4	31.2	0.0
62.5°	97.7	69.2	33.9	0.0
60°	104.5	74.6	36.6	0.0
57.5°	109.9	78.7	39.4	0.0
55°	115.4	81.4	42.1	0.0
52.5°	120.8	85.5	44.8	0.0
50°	126.2	89.6	47.5	0.0
47.5°	131.7	92.3	48.9	0.0
45°	139.8	96.4	51.6	0.0
42.5°	146.6	99.1	54.3	0.0
40°	153.4	101.8	55.6	0.0
37.5°	160.2	104.5	58.4	0.0
35°	166.9	107.2	59.7	0.0
32.5°	172.4	109.9	61.1	0.0
30°	177.8	112.7	62.4	0.0
27.5°	183.2	114.0	63.8	0.0
25°	187.3	116.7	65.1	0.0
22.5°	191.4	118.1	66.5	0.0
20°	194.1	119.4	67.9	0.0
17.5°	198.2	120.8	69.2	0.0
15°	199.5	122.2	71.9	0.0
12.5°	202.2	123.5	71.9	0.0
10°	203.6	124.9	71.9	0.0
7.5°	206.3	124.9	71.9	0.0
5°	204.9	124.9	71.9	0.0
2.5°	204.9	124.9	71.9	0.0
0°	203.6	124.9	71.9	0.0

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