

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: P628154

Luminaire Tested: **IFLD-S-SA2E-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628154  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-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:	13720.9 lumens	Max Intensity:	4472.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	87.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

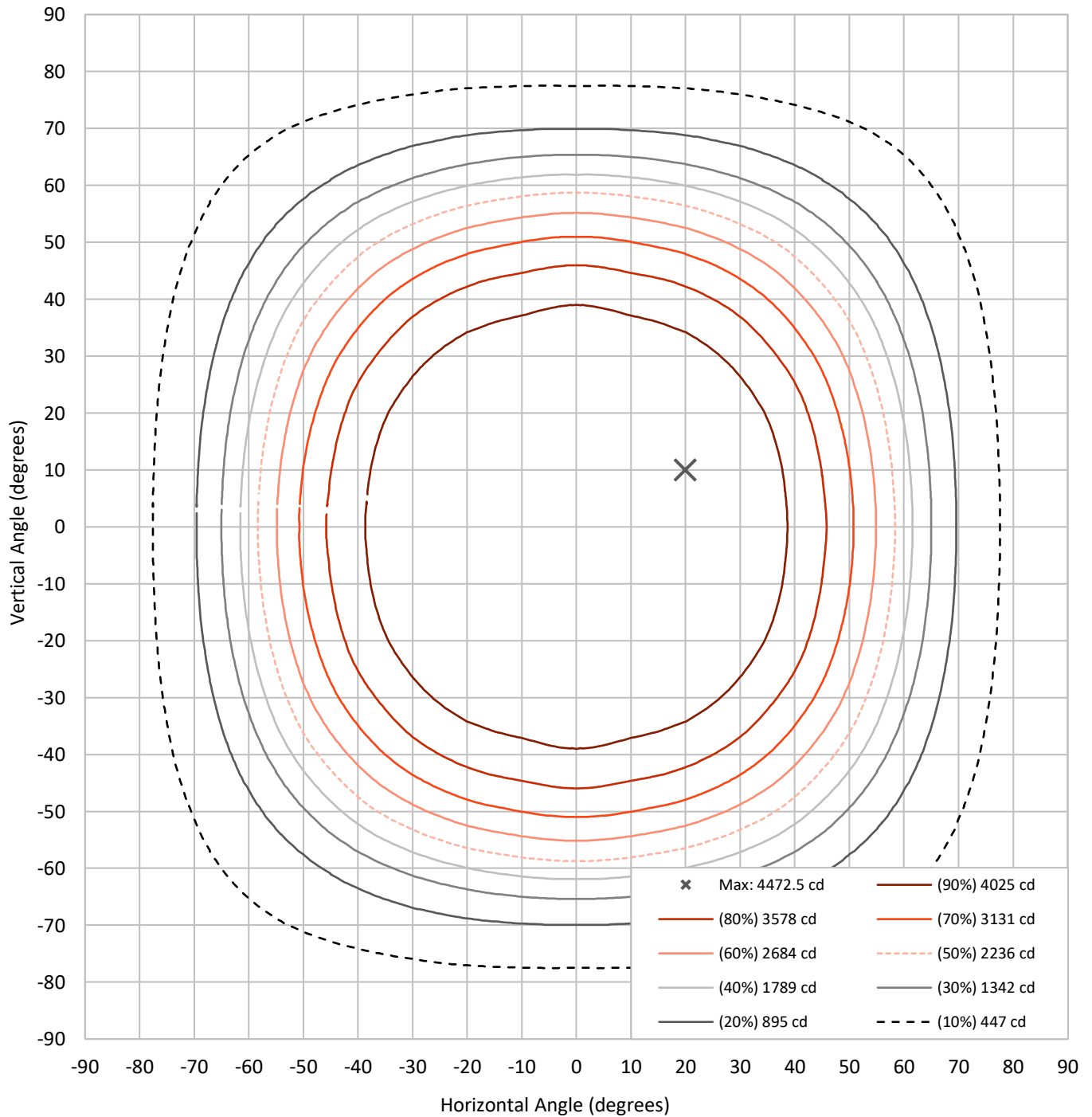
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8419.4 lumens	Field Lumens:	10093.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 156.2  
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: P628154  
CATALOG NUMBER: IFLD-S-SA2E-722-U-LAM

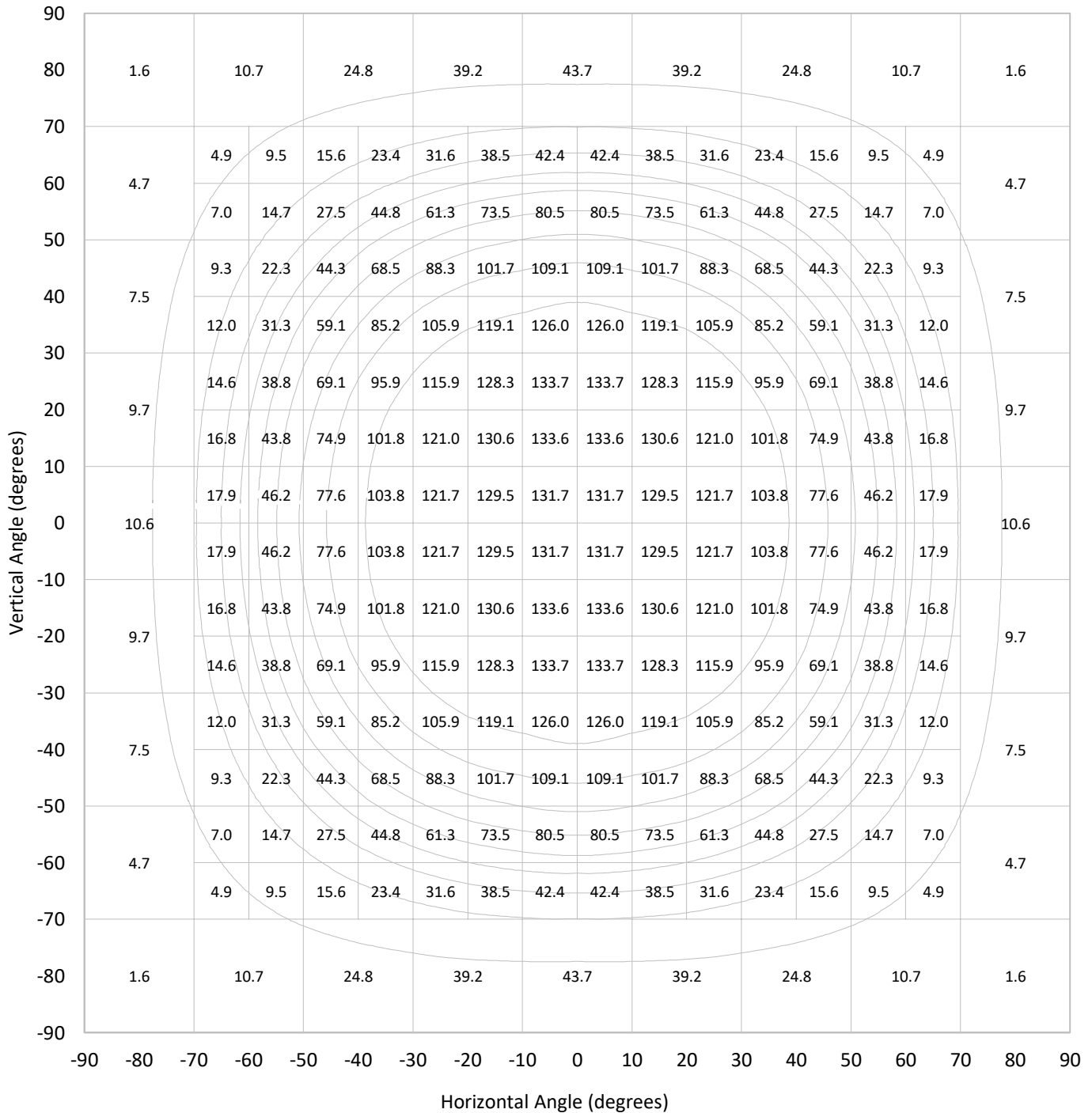
### Iso-Candela Plot





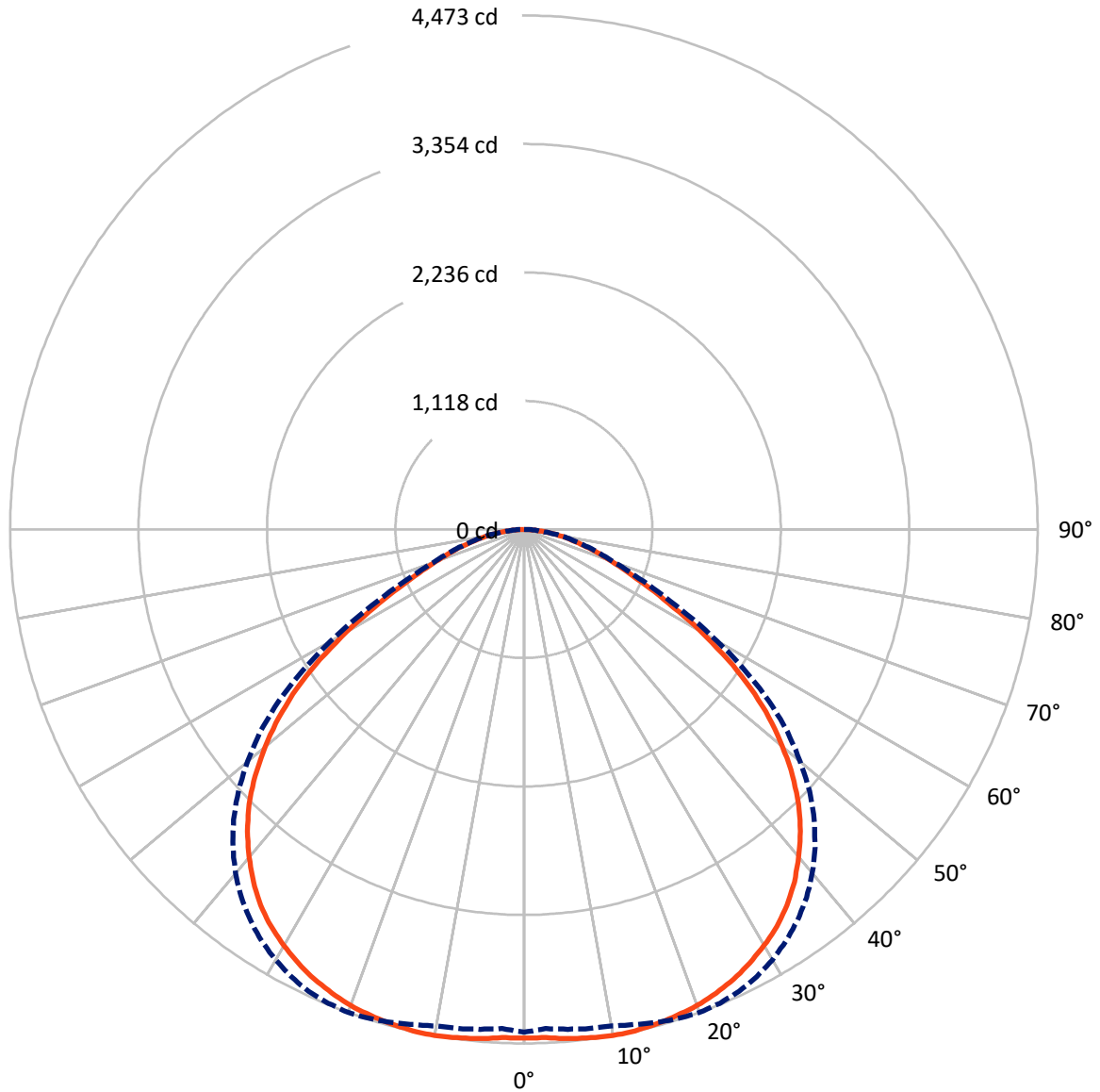
REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-722-U-LAM

### Lumen Table



REPORT NUMBER: P628154  
CATALOG NUMBER: IFLD-S-SA2E-722-U-LAM

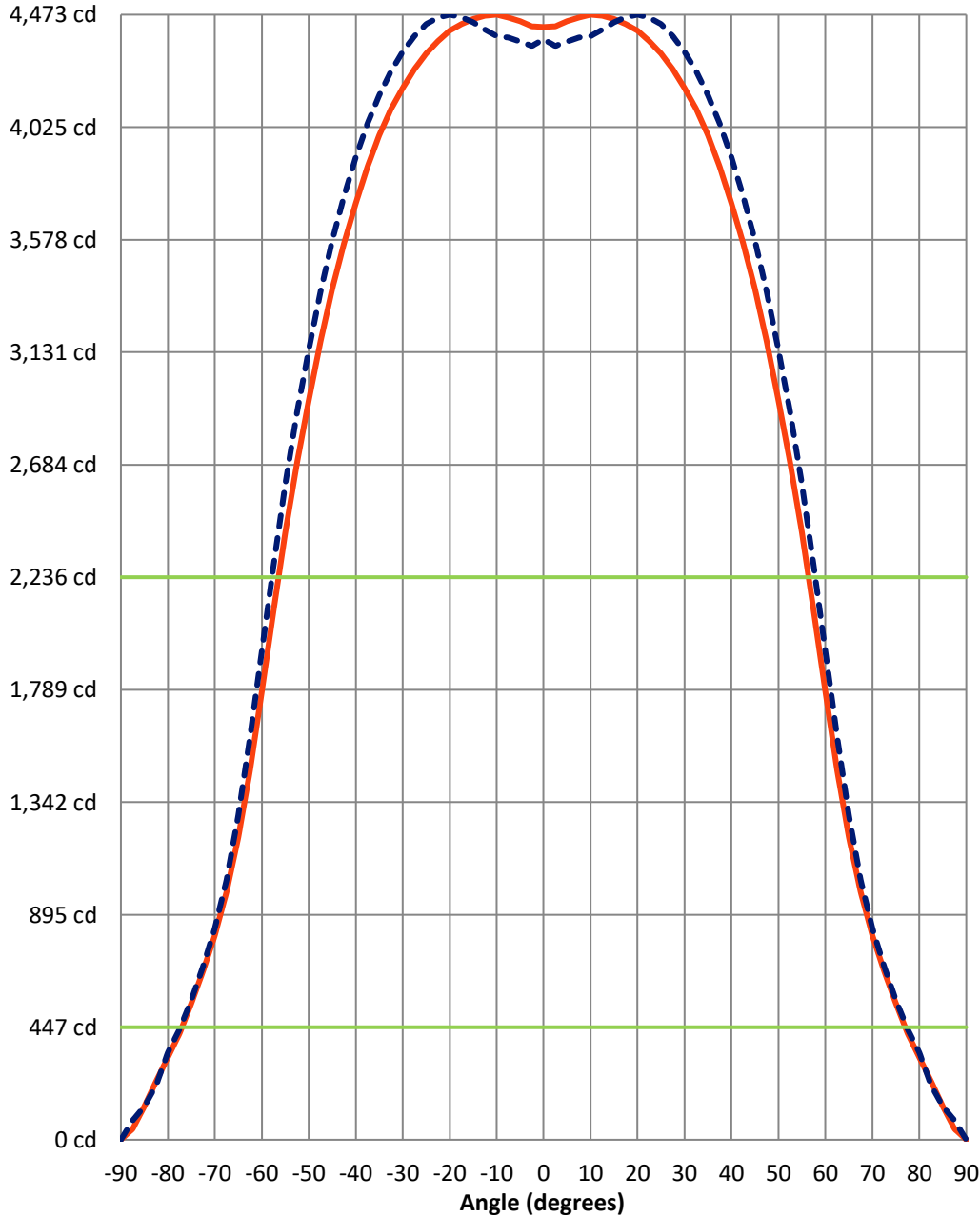
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-722-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 8419.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 10093.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3627.4  
 Efficiency: 26.4%

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



REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-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°	36.1	39.0	40.4	41.9	43.3	44.8	46.2	44.8	43.3	43.3	41.9
85°	96.7	99.6	101.1	111.2	121.3	127.0	134.3	132.8	132.8	131.4	129.9
82.5°	193.5	202.1	209.3	219.4	225.2	233.9	239.6	235.3	232.4	226.7	222.3
80°	343.6	346.5	347.9	349.4	342.1	340.7	337.8	333.5	327.7	320.5	313.3
77.5°	437.4	440.3	443.2	440.3	438.9	437.4	433.1	428.8	423.0	417.2	408.6
75°	578.9	578.9	578.9	574.6	571.7	567.4	560.1	552.9	542.8	531.3	518.3
72.5°	729.0	727.6	726.2	717.5	710.3	701.6	691.5	682.9	671.3	658.3	641.0
70°	886.4	889.3	890.7	879.2	870.5	859.0	846.0	830.1	812.8	794.0	769.5
67.5°	1103.0	1100.1	1097.2	1081.3	1069.8	1053.9	1035.1	1012.0	986.0	957.1	922.5
65°	1371.5	1375.8	1367.1	1351.3	1329.6	1303.6	1274.8	1241.5	1202.6	1159.3	1110.2
62.5°	1696.3	1703.5	1693.4	1673.2	1645.8	1611.1	1570.7	1523.1	1469.6	1409.0	1348.4
60°	2065.9	2064.4	2045.7	2018.2	1982.1	1938.8	1894.1	1842.1	1781.5	1710.7	1637.1
57.5°	2405.1	2402.3	2379.2	2351.7	2315.6	2269.4	2221.8	2166.9	2103.4	2028.3	1943.2
55°	2709.8	2706.9	2683.8	2654.9	2617.4	2571.2	2527.9	2475.9	2413.8	2334.4	2243.4
52.5°	2979.7	2981.2	2960.9	2929.2	2888.8	2844.0	2802.1	2750.2	2691.0	2611.6	2523.5
50°	3228.0	3226.6	3204.9	3176.1	3138.5	3095.2	3053.3	3001.4	2939.3	2862.8	2777.6
47.5°	3459.0	3456.1	3431.6	3399.8	3360.8	3323.3	3284.3	3238.1	3173.2	3096.7	3011.5
45°	3652.5	3646.7	3622.1	3591.8	3554.3	3521.1	3486.4	3451.8	3382.5	3311.8	3230.9
42.5°	3818.5	3817.0	3792.5	3762.2	3724.6	3695.8	3664.0	3620.7	3563.0	3498.0	3418.6
40°	3977.3	3965.7	3941.2	3912.3	3877.7	3853.1	3821.4	3778.1	3721.8	3658.2	3581.7
37.5°	4095.7	4097.1	4071.1	4039.4	4009.0	3985.9	3957.1	3916.7	3867.6	3805.5	3729.0
35°	4208.3	4201.1	4179.4	4152.0	4124.5	4098.6	4068.2	4033.6	3993.2	3935.4	3863.2
32.5°	4281.9	4292.0	4266.0	4237.1	4221.3	4201.1	4169.3	4133.2	4097.1	4039.4	3974.4
30°	4362.7	4354.1	4333.9	4309.3	4297.8	4284.8	4257.4	4222.7	4180.8	4128.9	4068.2
27.5°	4419.0	4414.7	4390.2	4367.1	4361.3	4349.8	4328.1	4297.8	4255.9	4205.4	4149.1
25°	4443.6	4446.5	4423.4	4410.4	4410.4	4403.2	4385.8	4359.9	4318.0	4271.8	4216.9
22.5°	4455.1	4452.3	4436.4	4433.5	4440.7	4434.9	4427.7	4404.6	4367.1	4329.5	4283.3
20°	4462.4	4442.1	4427.7	4439.3	4447.9	4446.5	4440.7	4426.3	4408.9	4377.2	4336.8
17.5°	4446.5	4433.5	4416.2	4433.5	4452.3	4453.7	4447.9	4439.3	4434.9	4414.7	4378.6
15°	4407.5	4397.4	4400.3	4417.6	4439.3	4446.5	4450.8	4460.9	4455.1	4439.3	4407.5
12.5°	4381.5	4368.5	4381.5	4398.8	4410.4	4414.7	4449.4	4468.1	4468.1	4453.7	4433.5
10°	4374.3	4348.3	4365.6	4381.5	4387.3	4413.3	4442.1	4462.4	4472.5	4460.9	4434.9
7.5°	4359.9	4342.5	4349.8	4357.0	4390.2	4408.9	4424.8	4446.5	4460.9	4459.5	4436.4
5°	4352.6	4331.0	4333.9	4364.2	4387.3	4400.3	4406.1	4424.8	4446.5	4450.8	4433.5
2.5°	4333.9	4323.8	4345.4	4348.3	4365.6	4375.7	4381.5	4398.8	4426.3	4436.4	4429.2
0°	4323.8	4309.3	4294.9	4306.4	4335.3	4357.0	4365.6	4391.6	4423.4	4433.5	4417.6



REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-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°	40.4	39.0	37.5	36.1	37.5	37.5	37.5	36.1	37.5	36.1	36.1
85°	125.6	119.8	115.5	109.7	103.9	99.6	93.8	88.1	86.6	85.2	82.3
82.5°	216.5	209.3	202.1	193.5	184.8	174.7	164.6	153.0	150.1	147.3	142.9
80°	304.6	294.5	284.4	274.3	265.6	255.5	244.0	231.0	222.3	215.1	206.4
77.5°	397.0	382.6	368.1	350.8	340.7	330.6	319.0	306.1	293.1	281.5	268.5
75°	502.4	486.5	472.1	454.8	436.0	417.2	398.5	381.1	362.4	345.0	327.7
72.5°	619.3	596.2	573.1	551.5	528.4	505.3	480.7	457.6	434.5	411.4	386.9
70°	742.0	713.2	684.3	655.4	625.1	594.8	565.9	537.0	508.2	477.9	450.4
67.5°	886.4	853.2	815.7	775.2	730.5	691.5	654.0	619.3	584.7	550.0	515.4
65°	1066.9	1020.7	970.1	915.3	863.3	811.3	756.5	704.5	664.1	623.7	584.7
62.5°	1289.2	1224.2	1153.5	1082.7	1019.2	951.4	887.9	820.0	756.5	698.7	651.1
60°	1554.8	1466.8	1380.1	1289.2	1201.1	1108.7	1027.9	944.2	864.8	794.0	724.7
57.5°	1847.9	1745.4	1641.4	1530.3	1410.5	1302.2	1192.5	1082.7	988.9	895.1	817.1
55°	2145.3	2037.0	1920.1	1794.5	1663.1	1524.5	1375.8	1253.1	1124.6	1014.9	913.8
52.5°	2428.2	2315.6	2194.4	2078.9	1921.5	1762.7	1599.6	1437.9	1287.7	1147.7	1025.0
50°	2680.9	2571.2	2454.2	2320.0	2174.2	2005.2	1823.3	1641.4	1463.9	1299.3	1146.3
47.5°	2911.9	2805.0	2688.1	2553.8	2421.0	2233.3	2050.0	1849.3	1651.5	1462.4	1283.4
45°	3128.4	3020.1	2898.9	2770.4	2617.4	2449.9	2260.8	2058.7	1846.4	1634.2	1427.8
42.5°	3324.8	3216.5	3093.8	2960.9	2809.4	2643.3	2460.0	2256.4	2042.8	1811.8	1585.1
40°	3496.5	3391.2	3272.8	3134.2	2992.7	2818.0	2637.6	2444.1	2223.2	1990.8	1741.1
37.5°	3646.7	3548.5	3431.6	3294.4	3144.3	2988.4	2802.1	2608.7	2409.5	2156.8	1901.3
35°	3779.5	3688.6	3568.7	3438.8	3291.5	3127.0	2952.3	2763.2	2548.1	2311.3	2063.0
32.5°	3895.0	3802.6	3692.9	3563.0	3420.0	3265.6	3086.5	2896.0	2692.4	2451.3	2181.4
30°	3993.2	3903.7	3799.7	3677.0	3539.9	3386.8	3212.1	3020.1	2812.3	2572.6	2305.5
27.5°	4078.3	3993.2	3892.1	3778.1	3646.7	3499.4	3323.3	3129.9	2917.6	2686.7	2419.6
25°	4152.0	4069.7	3975.8	3867.6	3737.6	3593.3	3427.3	3225.1	3012.9	2780.5	2516.3
22.5°	4218.4	4139.0	4045.1	3939.8	3821.4	3677.0	3509.5	3308.9	3093.8	2864.2	2604.4
20°	4277.6	4203.9	4111.5	4003.3	3884.9	3739.1	3573.1	3382.5	3165.9	2940.7	2683.8
17.5°	4325.2	4260.2	4167.8	4053.8	3935.4	3793.9	3632.3	3457.6	3228.0	3005.7	2750.2
15°	4358.4	4294.9	4211.2	4095.7	3980.2	3840.1	3678.4	3498.0	3284.3	3057.7	2805.0
12.5°	4381.5	4313.7	4235.7	4128.9	4013.4	3874.8	3717.4	3539.9	3332.0	3103.9	2852.7
10°	4387.3	4325.2	4247.3	4152.0	4039.4	3905.1	3750.6	3574.5	3370.9	3140.0	2891.7
7.5°	4390.2	4331.0	4260.2	4169.3	4058.1	3928.2	3775.2	3601.9	3399.8	3170.3	2920.5
5°	4388.7	4332.4	4268.9	4180.8	4069.7	3941.2	3791.1	3620.7	3420.0	3190.5	2942.2
2.5°	4384.4	4333.9	4274.7	4189.5	4082.7	3955.6	3806.9	3642.4	3441.7	3207.8	2959.5
0°	4395.9	4352.6	4277.6	4186.6	4085.6	3955.6	3805.5	3645.2	3444.6	3206.4	2958.1





REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-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°	36.1	34.6	34.6	33.2	31.8	30.3	27.4	26.0	23.1	18.8	14.4
85°	78.0	73.6	69.3	66.4	63.5	60.6	56.3	52.0	46.2	37.5	28.9
82.5°	137.1	128.5	119.8	109.7	101.1	92.4	85.2	78.0	69.3	56.3	43.3
80°	196.3	183.3	170.4	155.9	142.9	128.5	115.5	103.9	92.4	75.1	57.7
77.5°	255.5	238.2	219.4	202.1	183.3	164.6	145.8	129.9	112.6	92.4	72.2
75°	310.4	290.2	272.9	248.3	225.2	200.7	176.1	154.5	132.8	108.3	86.6
72.5°	365.2	339.3	314.7	291.6	265.6	235.3	207.9	180.5	153.0	124.2	98.2
70°	420.1	388.3	358.0	330.6	301.7	271.4	238.2	206.4	173.2	138.6	108.3
67.5°	476.4	440.3	405.7	371.0	337.8	303.2	268.5	232.4	193.5	153.0	119.8
65°	538.5	493.7	451.9	412.9	373.9	336.4	297.4	258.4	215.1	168.9	129.9
62.5°	600.6	551.5	502.4	453.3	410.0	368.1	326.3	283.0	235.3	186.2	140.0
60°	667.0	610.7	554.4	499.5	446.1	399.9	353.7	307.5	257.0	202.1	150.1
57.5°	740.6	672.7	609.2	547.1	486.5	431.7	381.1	332.0	275.7	218.0	161.7
55°	824.3	740.6	665.5	596.2	529.8	463.4	408.6	358.0	297.4	233.9	174.7
52.5°	912.4	815.7	724.7	646.8	576.0	501.0	434.5	378.2	319.0	249.8	186.2
50°	1014.9	892.2	791.1	695.8	616.4	538.5	462.0	401.3	340.7	268.5	197.8
47.5°	1120.3	984.6	857.5	753.6	659.8	574.6	493.7	421.5	360.9	285.8	209.3
45°	1243.0	1072.6	932.6	809.9	701.6	612.1	525.5	443.2	378.2	303.2	220.9
42.5°	1361.4	1176.6	1010.6	872.0	749.3	648.2	554.4	466.3	395.6	320.5	231.0
40°	1501.4	1280.5	1085.6	931.2	796.9	682.9	583.2	490.8	411.4	336.4	241.1
37.5°	1635.7	1385.9	1176.6	996.1	843.1	717.5	612.1	513.9	425.9	352.3	254.1
35°	1768.5	1502.9	1263.2	1056.8	890.7	756.5	641.0	535.6	440.3	365.2	265.6
32.5°	1895.5	1612.6	1351.3	1124.6	942.7	792.6	667.0	555.8	454.8	376.8	277.2
30°	2013.9	1716.5	1437.9	1193.9	990.4	825.8	691.5	576.0	472.1	386.9	288.7
27.5°	2122.2	1817.6	1524.5	1258.9	1035.1	856.1	717.5	594.8	486.5	397.0	298.8
25°	2220.4	1908.5	1603.9	1318.1	1075.5	889.3	742.0	613.6	499.5	405.7	307.5
22.5°	2312.7	1992.3	1676.1	1377.3	1124.6	922.5	765.1	630.9	512.5	414.3	316.2
20°	2393.6	2068.8	1745.4	1436.4	1167.9	952.8	785.4	646.8	524.0	420.1	324.8
17.5°	2458.6	2136.6	1807.5	1488.4	1205.5	978.8	802.7	661.2	534.2	427.3	330.6
15°	2516.3	2194.4	1859.4	1533.2	1238.7	1000.5	818.6	672.7	542.8	431.7	337.8
12.5°	2565.4	2243.4	1904.2	1572.1	1267.5	1019.2	831.5	681.4	550.0	436.0	342.1
10°	2605.8	2282.4	1941.7	1602.5	1290.6	1033.7	841.7	690.1	555.8	440.3	346.5
7.5°	2636.1	2311.3	1969.2	1628.4	1309.4	1043.8	850.3	695.8	561.6	443.2	353.7
5°	2659.2	2335.8	1990.8	1645.8	1323.8	1058.2	860.4	703.1	567.4	446.1	353.7
2.5°	2676.5	2356.1	2008.1	1660.2	1335.4	1055.3	860.4	701.6	567.4	446.1	352.3
0°	2673.7	2357.5	2006.7	1660.2	1335.4	1052.4	860.4	700.2	567.4	446.1	352.3



REPORT NUMBER: P628154  
 CATALOG NUMBER: IFLD-S-SA2E-722-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.1	7.2	2.9	0.0
85°	21.7	14.4	7.2	0.0
82.5°	31.8	20.2	10.1	0.0
80°	41.9	27.4	13.0	0.0
77.5°	53.4	34.6	17.3	0.0
75°	63.5	40.4	20.2	0.0
72.5°	73.6	47.6	23.1	0.0
70°	82.3	53.4	26.0	0.0
67.5°	91.0	60.6	30.3	0.0
65°	98.2	66.4	33.2	0.0
62.5°	103.9	73.6	36.1	0.0
60°	111.2	79.4	39.0	0.0
57.5°	116.9	83.7	41.9	0.0
55°	122.7	86.6	44.8	0.0
52.5°	128.5	91.0	47.6	0.0
50°	134.3	95.3	50.5	0.0
47.5°	140.0	98.2	52.0	0.0
45°	148.7	102.5	54.9	0.0
42.5°	155.9	105.4	57.7	0.0
40°	163.1	108.3	59.2	0.0
37.5°	170.4	111.2	62.1	0.0
35°	177.6	114.0	63.5	0.0
32.5°	183.3	116.9	65.0	0.0
30°	189.1	119.8	66.4	0.0
27.5°	194.9	121.3	67.9	0.0
25°	199.2	124.2	69.3	0.0
22.5°	203.6	125.6	70.7	0.0
20°	206.4	127.0	72.2	0.0
17.5°	210.8	128.5	73.6	0.0
15°	212.2	129.9	76.5	0.0
12.5°	215.1	131.4	76.5	0.0
10°	216.5	132.8	76.5	0.0
7.5°	219.4	132.8	76.5	0.0
5°	218.0	132.8	76.5	0.0
2.5°	218.0	132.8	76.5	0.0
0°	216.5	132.8	76.5	0.0

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