

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: P628160

Luminaire Tested: **IFLD-S-SA6A-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628160  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

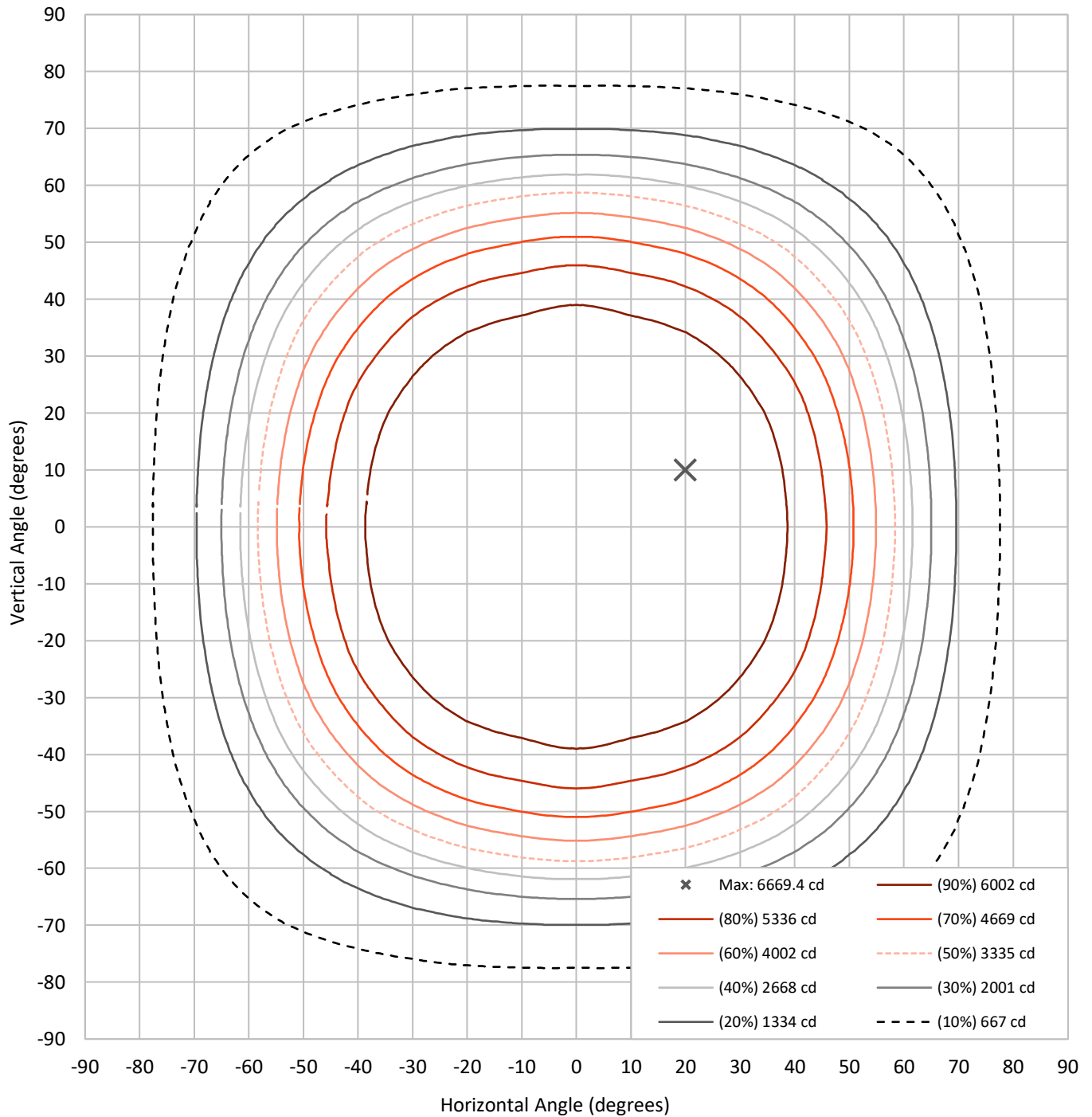
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20460.7 lumens	Max Intensity:	6669.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	12555.1 lumens	Field Lumens:	15051.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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: P628160  
CATALOG NUMBER: IFLD-S-SA6A-722-U-LAM

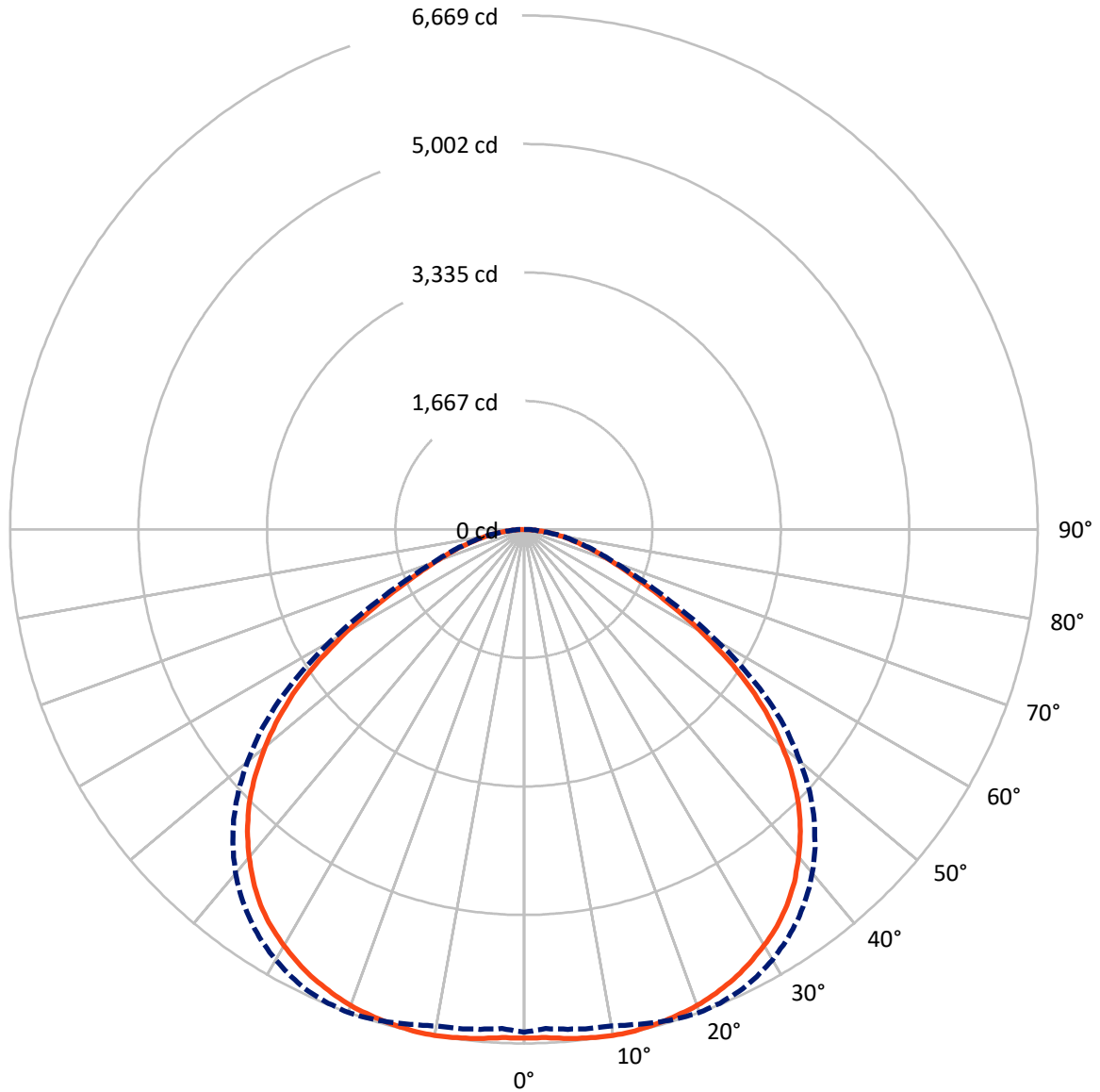
### Iso-Candela Plot





REPORT NUMBER: P628160  
CATALOG NUMBER: IFLD-S-SA6A-722-U-LAM

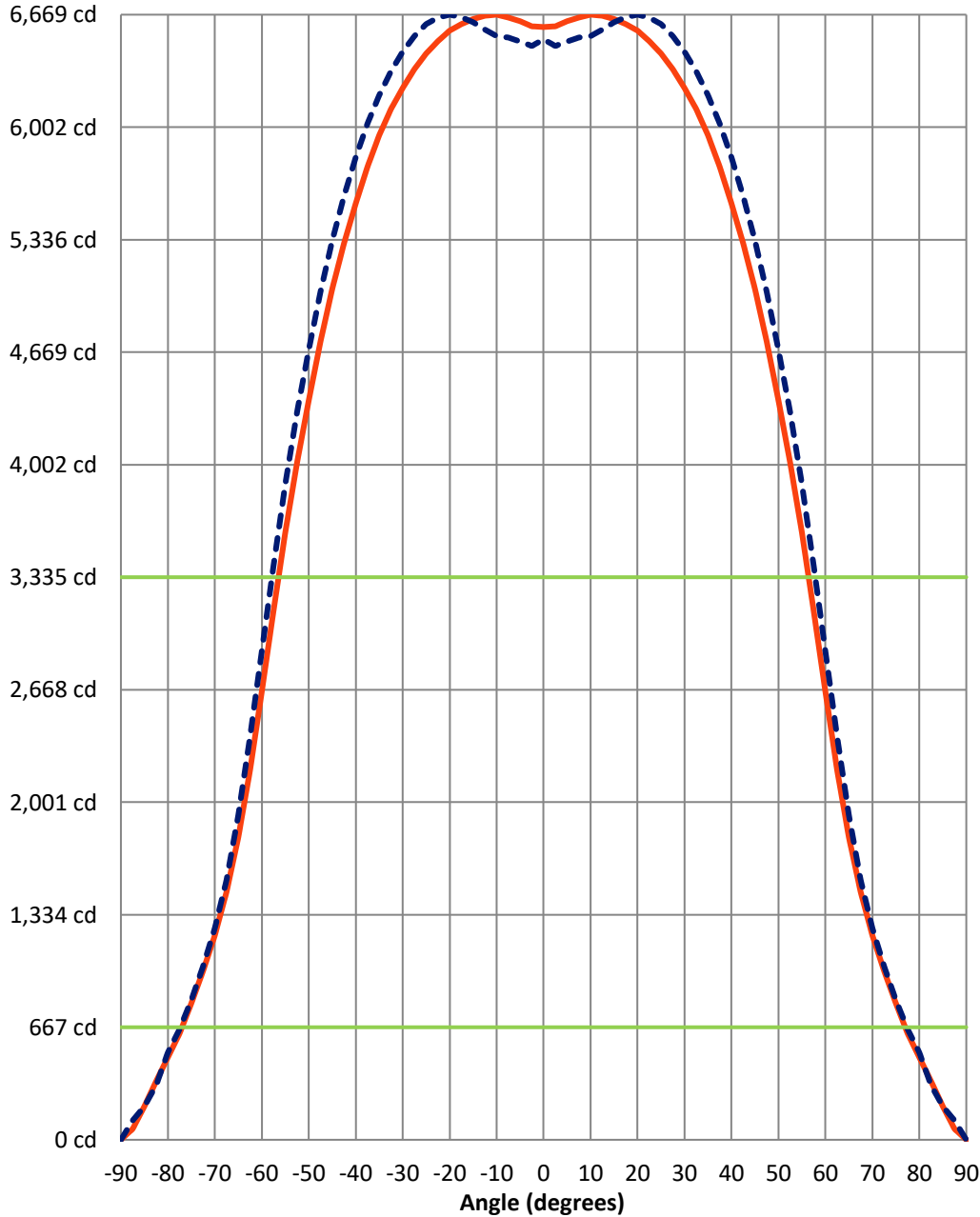
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628160  
 CATALOG NUMBER: IFLD-S-SA6A-722-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 12555.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 15051.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5409.3  
 Efficiency: 26.4%

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



REPORT NUMBER: P628160  
 CATALOG NUMBER: IFLD-S-SA6A-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°	53.8	58.1	60.3	62.4	64.6	66.7	68.9	66.7	64.6	64.6	62.4
85°	144.2	148.5	150.7	165.8	180.8	189.4	200.2	198.1	198.1	195.9	193.8
82.5°	288.5	301.4	312.2	327.2	335.8	348.8	357.4	350.9	346.6	338.0	331.5
80°	512.4	516.7	518.8	521.0	510.2	508.1	503.8	497.3	488.7	477.9	467.2
77.5°	652.3	656.6	660.9	656.6	654.5	652.3	645.8	639.4	630.8	622.2	609.2
75°	863.3	863.3	863.3	856.8	852.5	846.1	835.3	824.5	809.5	792.2	772.9
72.5°	1087.2	1085.0	1082.9	1069.9	1059.2	1046.3	1031.2	1018.3	1001.1	981.7	955.8
70°	1321.8	1326.1	1328.3	1311.1	1298.1	1280.9	1261.5	1237.9	1212.0	1184.0	1147.4
67.5°	1644.7	1640.4	1636.1	1612.4	1595.2	1571.5	1543.6	1509.1	1470.4	1427.3	1375.6
65°	2045.2	2051.6	2038.7	2015.0	1982.7	1944.0	1900.9	1851.4	1793.3	1728.7	1655.5
62.5°	2529.5	2540.3	2525.2	2495.1	2454.2	2402.5	2342.2	2271.2	2191.6	2101.1	2010.7
60°	3080.7	3078.5	3050.5	3009.6	2955.8	2891.2	2824.5	2747.0	2656.6	2551.1	2441.3
57.5°	3586.6	3582.3	3547.8	3506.9	3453.1	3384.2	3313.2	3231.4	3136.6	3024.7	2897.7
55°	4040.8	4036.5	4002.1	3959.0	3903.0	3834.1	3769.6	3692.1	3599.5	3481.1	3345.5
52.5°	4443.4	4445.5	4415.4	4368.0	4307.8	4241.0	4178.6	4101.1	4012.8	3894.4	3763.1
50°	4813.7	4811.5	4779.2	4736.2	4680.2	4615.6	4553.2	4475.7	4383.1	4269.0	4142.0
47.5°	5158.1	5153.8	5117.2	5069.8	5011.7	4955.7	4897.6	4828.7	4731.9	4617.8	4490.7
45°	5446.6	5438.0	5401.4	5356.2	5300.2	5250.7	5199.0	5147.3	5044.0	4938.5	4818.0
42.5°	5694.2	5692.0	5655.4	5610.2	5554.2	5511.2	5463.8	5399.2	5313.1	5216.2	5097.8
40°	5931.0	5913.7	5877.1	5834.1	5782.4	5745.8	5698.5	5633.9	5549.9	5455.2	5341.1
37.5°	6107.5	6109.6	6070.9	6023.5	5978.3	5943.9	5900.8	5840.5	5767.4	5674.8	5560.7
35°	6275.4	6264.6	6232.4	6191.5	6150.6	6111.8	6066.6	6014.9	5954.6	5868.5	5760.9
32.5°	6385.2	6400.3	6361.5	6318.5	6294.8	6264.6	6217.3	6163.5	6109.6	6023.5	5926.7
30°	6505.8	6492.8	6462.7	6426.1	6408.9	6389.5	6348.6	6296.9	6234.5	6157.0	6066.6
27.5°	6589.7	6583.3	6546.7	6512.2	6503.6	6486.4	6454.1	6408.9	6346.5	6271.1	6187.1
25°	6626.3	6630.6	6596.2	6576.8	6576.8	6566.0	6540.2	6501.5	6439.0	6370.1	6288.3
22.5°	6643.5	6639.2	6615.6	6611.2	6622.0	6613.4	6602.6	6568.2	6512.2	6456.2	6387.4
20°	6654.3	6624.2	6602.6	6619.9	6632.8	6630.6	6622.0	6600.5	6574.7	6527.3	6467.0
17.5°	6630.6	6611.2	6585.4	6611.2	6639.2	6641.4	6632.8	6619.9	6613.4	6583.3	6529.4
15°	6572.5	6557.4	6561.7	6587.6	6619.9	6630.6	6637.1	6652.2	6643.5	6619.9	6572.5
12.5°	6533.7	6514.4	6533.7	6559.6	6576.8	6583.3	6634.9	6662.9	6662.9	6641.4	6611.2
10°	6523.0	6484.2	6510.1	6533.7	6542.4	6581.1	6624.2	6654.3	6669.4	6652.2	6613.4
7.5°	6501.5	6475.6	6486.4	6497.2	6546.7	6574.7	6598.3	6630.6	6652.2	6650.0	6615.6
5°	6490.7	6458.4	6462.7	6507.9	6542.4	6561.7	6570.3	6598.3	6630.6	6637.1	6611.2
2.5°	6462.7	6447.6	6479.9	6484.2	6510.1	6525.1	6533.7	6559.6	6600.5	6615.6	6604.8
0°	6447.6	6426.1	6404.6	6421.8	6464.9	6497.2	6510.1	6548.8	6596.2	6611.2	6587.6



REPORT NUMBER: P628160  
 CATALOG NUMBER: IFLD-S-SA6A-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°	60.3	58.1	56.0	53.8	56.0	56.0	56.0	53.8	56.0	53.8	53.8
85°	187.3	178.7	172.2	163.6	155.0	148.5	139.9	131.3	129.2	127.0	122.7
82.5°	322.9	312.2	301.4	288.5	275.6	260.5	245.4	228.2	223.9	219.6	213.1
80°	454.2	439.2	424.1	409.0	396.1	381.0	363.8	344.4	331.5	320.8	307.9
77.5°	592.0	570.5	549.0	523.1	508.1	493.0	475.8	456.4	437.0	419.8	400.4
75°	749.2	725.5	704.0	678.1	650.1	622.2	594.2	568.3	540.4	514.5	488.7
72.5°	923.6	889.1	854.7	822.4	787.9	753.5	716.9	682.4	648.0	613.5	577.0
70°	1106.5	1063.5	1020.4	977.4	932.2	887.0	843.9	800.8	757.8	712.6	671.7
67.5°	1321.8	1272.3	1216.3	1156.1	1089.3	1031.2	975.2	923.6	871.9	820.2	768.5
65°	1590.9	1522.0	1446.7	1364.9	1287.4	1209.9	1128.1	1050.6	990.3	930.0	871.9
62.5°	1922.5	1825.6	1720.1	1614.6	1519.9	1418.7	1324.0	1222.8	1128.1	1042.0	970.9
60°	2318.6	2187.2	2058.1	1922.5	1791.1	1653.4	1532.8	1407.9	1289.5	1184.0	1080.7
57.5°	2755.6	2602.7	2447.7	2282.0	2103.3	1941.8	1778.2	1614.6	1474.7	1334.7	1218.5
55°	3199.1	3037.6	2863.2	2675.9	2480.0	2273.4	2051.6	1868.6	1677.0	1513.4	1362.7
52.5°	3621.0	3453.1	3272.3	3100.0	2865.4	2628.6	2385.3	2144.2	1920.3	1711.5	1528.5
50°	3997.8	3834.1	3659.8	3459.6	3242.1	2990.2	2719.0	2447.7	2182.9	1937.5	1709.3
47.5°	4342.2	4182.9	4008.5	3808.3	3610.2	3330.4	3057.0	2757.7	2462.8	2180.8	1913.8
45°	4665.1	4503.7	4322.8	4131.2	3903.0	3653.3	3371.3	3069.9	2753.4	2437.0	2129.1
42.5°	4957.9	4796.4	4613.5	4415.4	4189.3	3941.8	3668.4	3364.8	3046.2	2701.8	2363.8
40°	5214.1	5056.9	4880.4	4673.7	4462.8	4202.3	3933.2	3644.7	3315.3	2968.7	2596.3
37.5°	5438.0	5291.6	5117.2	4912.7	4688.8	4456.3	4178.6	3890.1	3593.0	3216.3	2835.2
35°	5636.0	5500.4	5321.7	5128.0	4908.4	4663.0	4402.5	4120.5	3799.7	3446.6	3076.4
32.5°	5808.3	5670.5	5506.9	5313.1	5100.0	4869.6	4602.7	4318.5	4015.0	3655.5	3252.9
30°	5954.6	5821.2	5666.2	5483.2	5278.7	5050.5	4790.0	4503.7	4193.7	3836.3	3438.0
27.5°	6081.7	5954.6	5803.9	5633.9	5438.0	5218.4	4955.7	4667.3	4350.8	4006.4	3608.1
25°	6191.5	6068.7	5928.8	5767.4	5573.6	5358.3	5110.7	4809.4	4492.9	4146.3	3752.3
22.5°	6290.5	6172.1	6032.1	5875.0	5698.5	5483.2	5233.5	4934.2	4613.5	4271.2	3883.7
20°	6378.7	6269.0	6131.2	5969.7	5793.2	5575.8	5328.2	5044.0	4721.1	4385.3	4002.1
17.5°	6449.8	6352.9	6215.1	6045.1	5868.5	5657.6	5416.4	5156.0	4813.7	4482.1	4101.1
15°	6499.3	6404.6	6279.7	6107.5	5935.3	5726.4	5485.3	5216.2	4897.6	4559.6	4182.9
12.5°	6533.7	6432.6	6316.3	6157.0	5984.8	5778.1	5543.5	5278.7	4968.7	4628.5	4253.9
10°	6542.4	6449.8	6333.5	6191.5	6023.5	5823.3	5593.0	5330.3	5026.8	4682.3	4312.1
7.5°	6546.7	6458.4	6352.9	6217.3	6051.5	5857.8	5629.6	5371.2	5069.8	4727.5	4355.1
5°	6544.5	6460.6	6365.8	6234.5	6068.7	5877.1	5653.3	5399.2	5100.0	4757.7	4387.4
2.5°	6538.1	6462.7	6374.4	6247.4	6088.1	5898.7	5676.9	5431.5	5132.3	4783.5	4413.2
0°	6555.3	6490.7	6378.7	6243.1	6092.4	5898.7	5674.8	5435.8	5136.6	4781.4	4411.1





REPORT NUMBER: P628160  
 CATALOG NUMBER: IFLD-S-SA6A-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°	53.8	51.7	51.7	49.5	47.4	45.2	40.9	38.8	34.4	28.0	21.5
85°	116.3	109.8	103.3	99.0	94.7	90.4	84.0	77.5	68.9	56.0	43.1
82.5°	204.5	191.6	178.7	163.6	150.7	137.8	127.0	116.3	103.3	84.0	64.6
80°	292.8	273.4	254.0	232.5	213.1	191.6	172.2	155.0	137.8	111.9	86.1
77.5°	381.0	355.2	327.2	301.4	273.4	245.4	217.4	193.8	167.9	137.8	107.6
75°	462.9	432.7	406.9	370.3	335.8	299.2	262.6	230.3	198.1	161.5	129.2
72.5°	544.7	505.9	469.3	434.9	396.1	350.9	310.0	269.1	228.2	185.1	146.4
70°	626.5	579.1	533.9	493.0	449.9	404.7	355.2	307.9	258.3	206.7	161.5
67.5°	710.4	656.6	604.9	553.3	503.8	452.1	400.4	346.6	288.5	228.2	178.7
65°	803.0	736.3	673.8	615.7	557.6	501.6	443.5	385.4	320.8	251.9	193.8
62.5°	895.6	822.4	749.2	676.0	611.4	549.0	486.5	421.9	350.9	277.7	208.8
60°	994.6	910.6	826.7	744.9	665.2	596.3	527.4	458.5	383.2	301.4	223.9
57.5°	1104.4	1003.2	908.5	815.9	725.5	643.7	568.3	495.1	411.2	325.1	241.1
55°	1229.2	1104.4	992.4	889.1	790.1	691.0	609.2	533.9	443.5	348.8	260.5
52.5°	1360.6	1216.3	1080.7	964.5	859.0	747.0	648.0	564.0	475.8	372.4	277.7
50°	1513.4	1330.4	1179.7	1037.6	919.2	803.0	688.9	598.5	508.1	400.4	294.9
47.5°	1670.6	1468.2	1278.8	1123.8	983.8	856.8	736.3	628.6	538.2	426.3	312.2
45°	1853.6	1599.5	1390.7	1207.7	1046.3	912.8	783.6	660.9	564.0	452.1	329.4
42.5°	2030.1	1754.5	1507.0	1300.3	1117.3	966.6	826.7	695.4	589.9	477.9	344.4
40°	2238.9	1909.5	1618.9	1388.6	1188.3	1018.3	869.7	732.0	613.5	501.6	359.5
37.5°	2439.1	2066.7	1754.5	1485.4	1257.2	1069.9	912.8	766.4	635.1	525.3	378.9
35°	2637.2	2241.1	1883.7	1575.8	1328.3	1128.1	955.8	798.7	656.6	544.7	396.1
32.5°	2826.6	2404.7	2015.0	1677.0	1405.8	1181.9	994.6	828.8	678.1	561.9	413.3
30°	3003.2	2559.7	2144.2	1780.4	1476.8	1231.4	1031.2	859.0	704.0	577.0	430.6
27.5°	3164.6	2710.4	2273.4	1877.2	1543.6	1276.6	1069.9	887.0	725.5	592.0	445.6
25°	3311.0	2846.0	2391.8	1965.5	1603.8	1326.1	1106.5	914.9	744.9	604.9	458.5
22.5°	3448.8	2970.9	2499.4	2053.8	1677.0	1375.6	1141.0	940.8	764.2	617.9	471.5
20°	3569.3	3085.0	2602.7	2142.0	1741.6	1420.8	1171.1	964.5	781.5	626.5	484.4
17.5°	3666.2	3186.1	2695.3	2219.5	1797.6	1459.6	1197.0	986.0	796.5	637.2	493.0
15°	3752.3	3272.3	2772.8	2286.3	1847.1	1491.9	1220.6	1003.2	809.5	643.7	503.8
12.5°	3825.5	3345.5	2839.5	2344.4	1890.2	1519.9	1240.0	1016.1	820.2	650.1	510.2
10°	3885.8	3403.6	2895.5	2389.6	1924.6	1541.4	1255.1	1029.0	828.8	656.6	516.7
7.5°	3931.0	3446.6	2936.4	2428.4	1952.6	1556.5	1268.0	1037.6	837.4	660.9	527.4
5°	3965.5	3483.2	2968.7	2454.2	1974.1	1578.0	1283.1	1048.4	846.1	665.2	527.4
2.5°	3991.3	3513.4	2994.5	2475.7	1991.3	1573.7	1283.1	1046.3	846.1	665.2	525.3
0°	3987.0	3515.5	2992.4	2475.7	1991.3	1569.4	1283.1	1044.1	846.1	665.2	525.3



REPORT NUMBER: P628160  
 CATALOG NUMBER: IFLD-S-SA6A-722-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.1	10.8	4.3	0.0
85°	32.3	21.5	10.8	0.0
82.5°	47.4	30.1	15.1	0.0
80°	62.4	40.9	19.4	0.0
77.5°	79.7	51.7	25.8	0.0
75°	94.7	60.3	30.1	0.0
72.5°	109.8	71.0	34.4	0.0
70°	122.7	79.7	38.8	0.0
67.5°	135.6	90.4	45.2	0.0
65°	146.4	99.0	49.5	0.0
62.5°	155.0	109.8	53.8	0.0
60°	165.8	118.4	58.1	0.0
57.5°	174.4	124.9	62.4	0.0
55°	183.0	129.2	66.7	0.0
52.5°	191.6	135.6	71.0	0.0
50°	200.2	142.1	75.3	0.0
47.5°	208.8	146.4	77.5	0.0
45°	221.7	152.8	81.8	0.0
42.5°	232.5	157.2	86.1	0.0
40°	243.3	161.5	88.3	0.0
37.5°	254.0	165.8	92.6	0.0
35°	264.8	170.1	94.7	0.0
32.5°	273.4	174.4	96.9	0.0
30°	282.0	178.7	99.0	0.0
27.5°	290.6	180.8	101.2	0.0
25°	297.1	185.1	103.3	0.0
22.5°	303.5	187.3	105.5	0.0
20°	307.9	189.4	107.6	0.0
17.5°	314.3	191.6	109.8	0.0
15°	316.5	193.8	114.1	0.0
12.5°	320.8	195.9	114.1	0.0
10°	322.9	198.1	114.1	0.0
7.5°	327.2	198.1	114.1	0.0
5°	325.1	198.1	114.1	0.0
2.5°	325.1	198.1	114.1	0.0
0°	322.9	198.1	114.1	0.0

(END OF REPORT)