

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: P628460

Luminaire Tested: **IFLD-L-SA7A-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628460  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

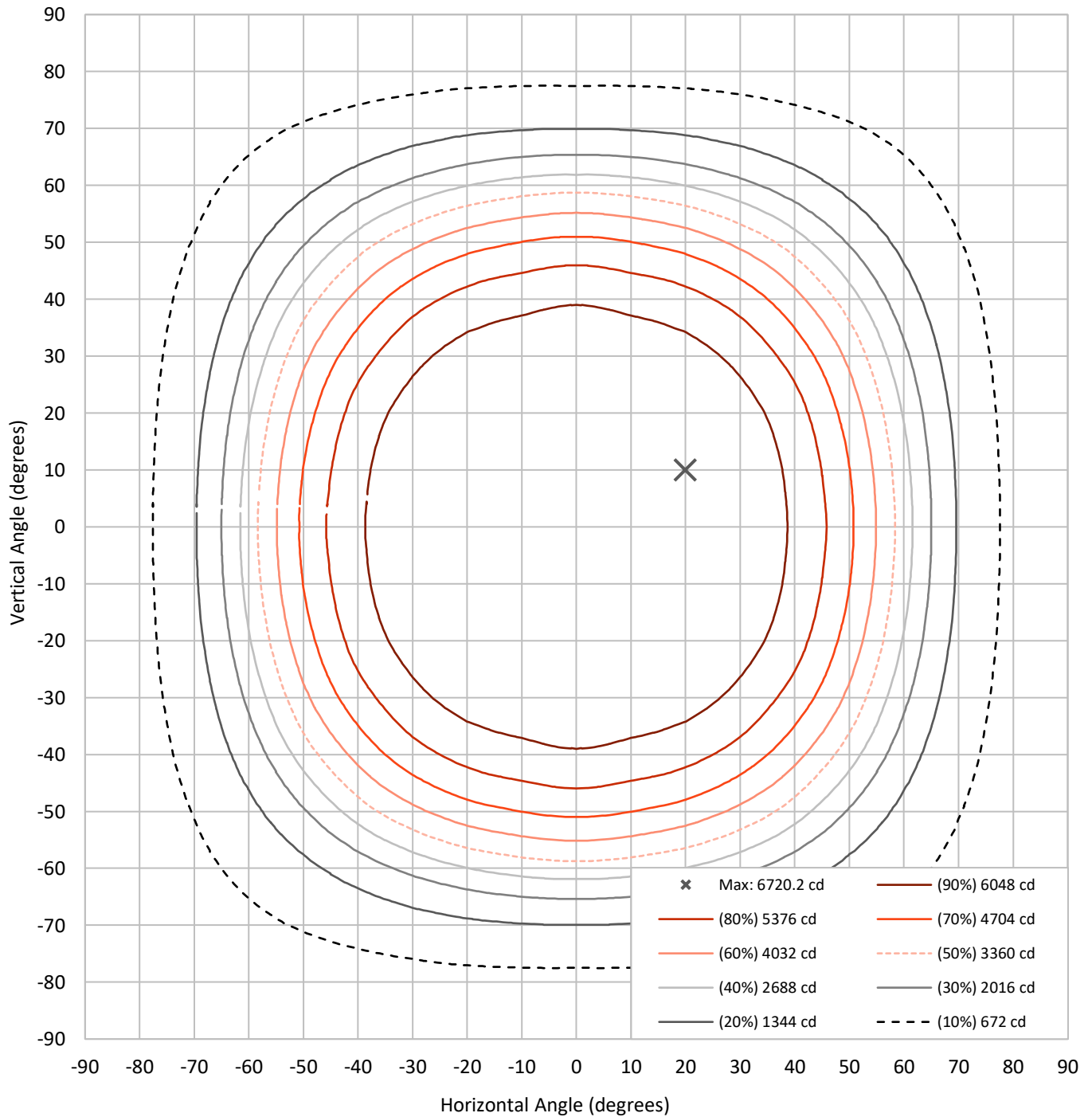
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20616.7 lumens	Max Intensity:	6720.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	12650.8 lumens	Field Lumens:	15166.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	217.6		
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: P628460  
CATALOG NUMBER: IFLD-L-SA7A-930-U-LAM

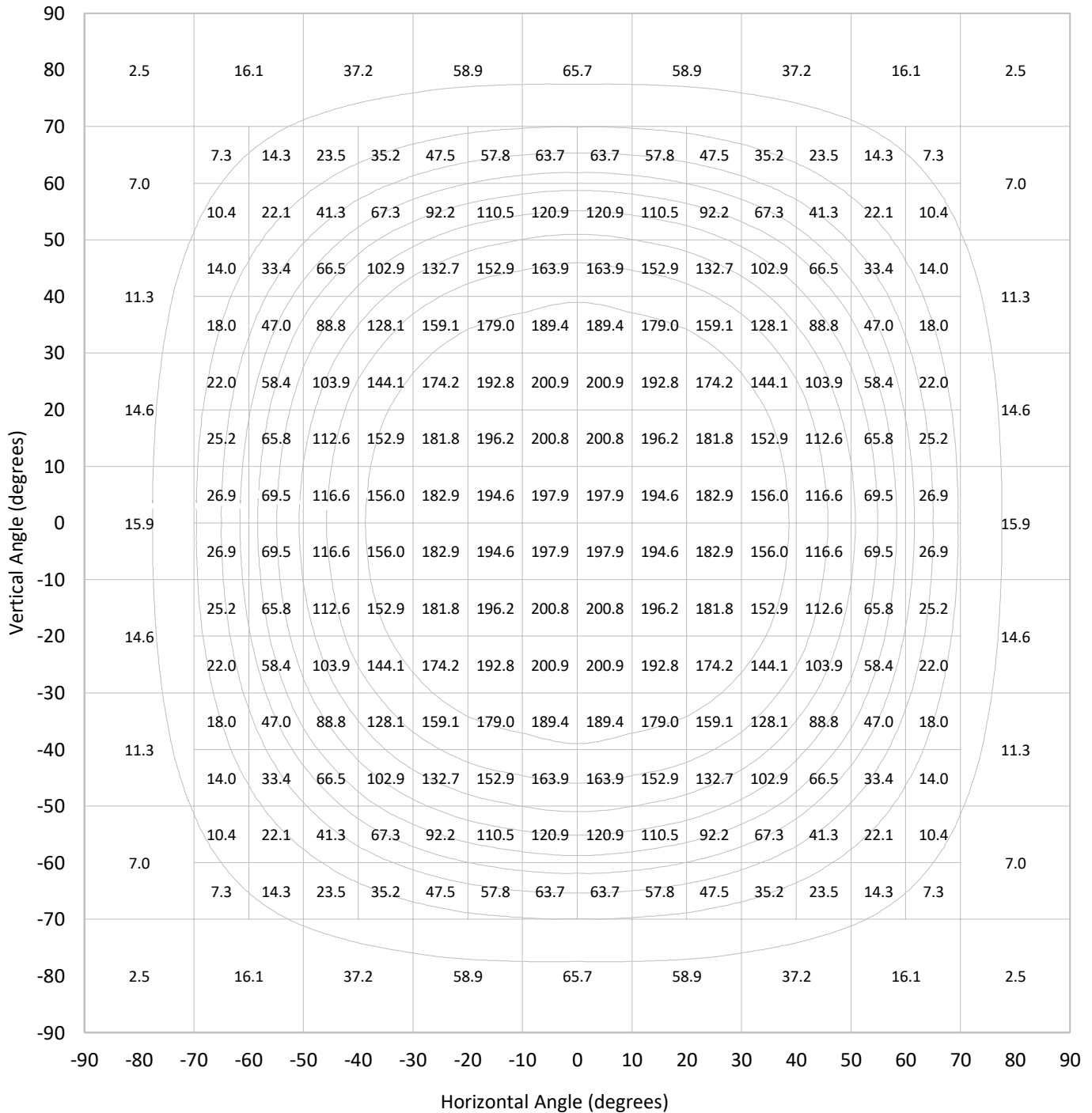
### Iso-Candela Plot





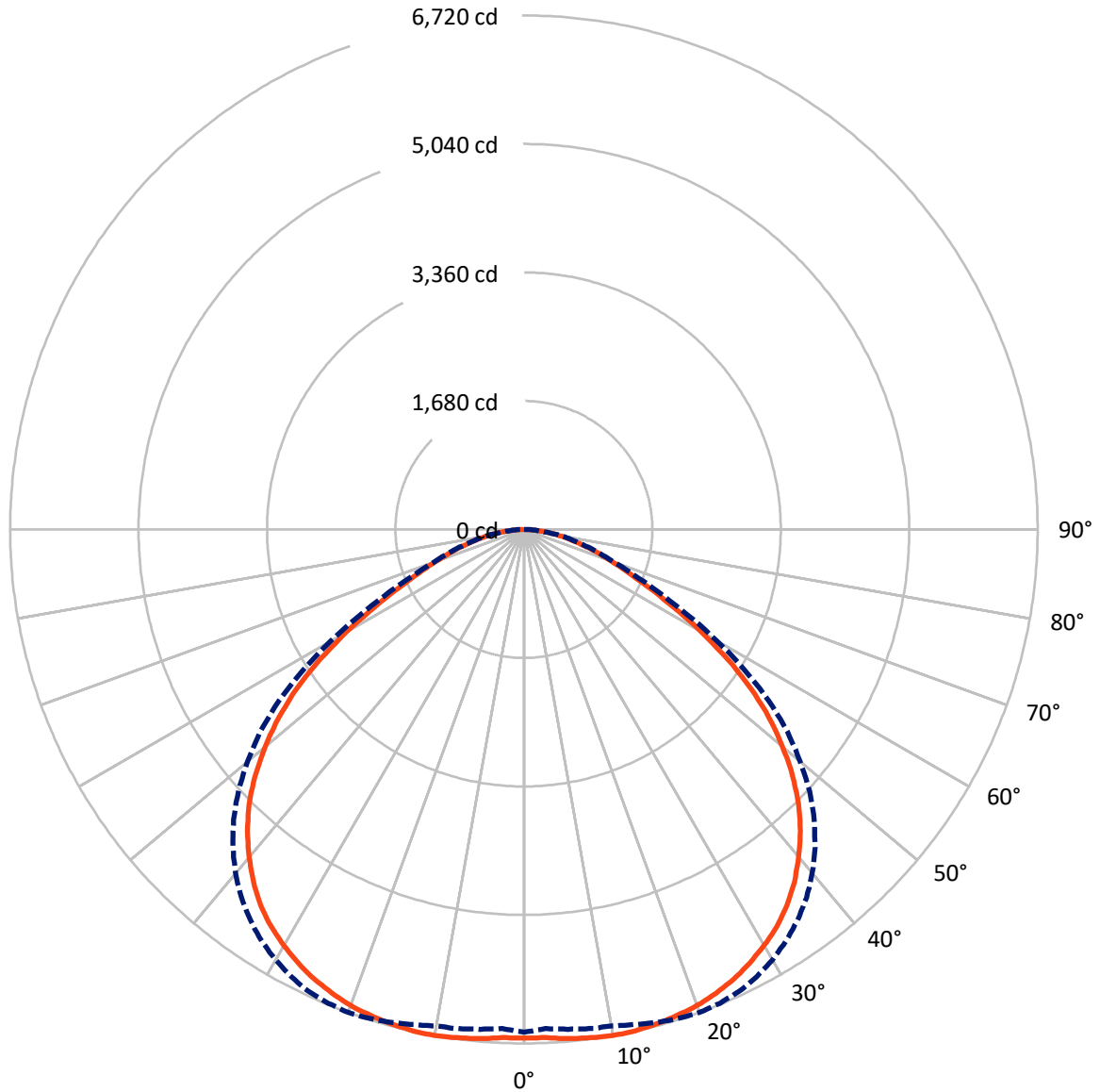
REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-U-LAM

### Lumen Table



REPORT NUMBER: P628460  
CATALOG NUMBER: IFLD-L-SA7A-930-U-LAM

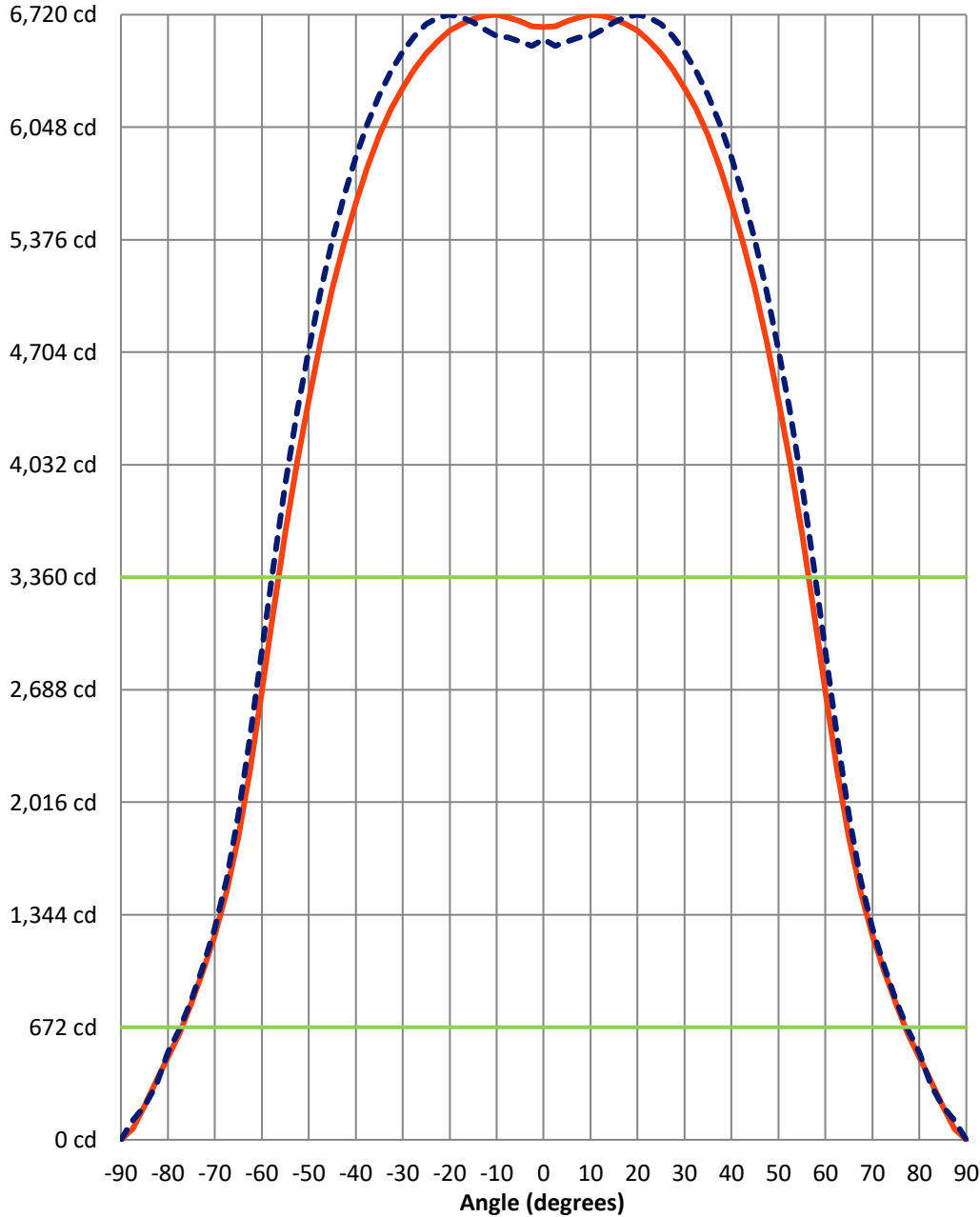
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 12650.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 15166.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5450.5  
 Efficiency: 26.4%

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



REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-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°	54.2	58.6	60.7	62.9	65.1	67.2	69.4	67.2	65.1	65.1	62.9
85°	145.3	149.7	151.8	167.0	182.2	190.9	201.7	199.6	199.6	197.4	195.2
82.5°	290.7	303.7	314.5	329.7	338.4	351.4	360.1	353.6	349.2	340.6	334.1
80°	516.3	520.6	522.8	524.9	514.1	511.9	507.6	501.1	492.4	481.6	470.7
77.5°	657.3	661.6	665.9	661.6	659.4	657.3	650.8	644.3	635.6	626.9	613.9
75°	869.9	869.9	869.9	863.3	859.0	852.5	841.7	830.8	815.6	798.3	778.7
72.5°	1095.5	1093.3	1091.1	1078.1	1067.3	1054.2	1039.1	1026.0	1008.7	989.2	963.1
70°	1331.9	1336.2	1338.4	1321.0	1308.0	1290.7	1271.2	1247.3	1221.3	1193.1	1156.2
67.5°	1657.3	1652.9	1648.6	1624.7	1607.4	1583.5	1555.3	1520.6	1481.6	1438.2	1386.1
65°	2060.7	2067.3	2054.2	2030.4	1997.8	1958.8	1915.4	1865.5	1807.0	1741.9	1668.1
62.5°	2548.8	2559.7	2544.5	2514.1	2472.9	2420.8	2360.1	2288.5	2208.3	2117.1	2026.0
60°	3104.1	3102.0	3073.8	3032.6	2978.3	2913.2	2846.0	2767.9	2676.8	2570.5	2459.9
57.5°	3613.9	3609.6	3574.9	3533.6	3479.4	3410.0	3338.4	3256.0	3160.5	3047.7	2919.8
55°	4071.6	4067.3	4032.6	3989.2	3932.8	3863.4	3798.3	3720.2	3626.9	3507.6	3371.0
52.5°	4477.2	4479.4	4449.1	4401.3	4340.6	4273.3	4210.4	4132.3	4043.4	3924.1	3791.8
50°	4850.4	4848.2	4815.6	4772.3	4715.9	4650.8	4587.9	4509.8	4416.5	4301.5	4173.6
47.5°	5197.4	5193.1	5156.2	5108.5	5049.9	4993.5	4935.0	4865.5	4767.9	4653.0	4525.0
45°	5488.1	5479.4	5442.5	5397.0	5340.6	5290.7	5238.6	5186.6	5082.5	4976.2	4854.7
42.5°	5737.6	5735.4	5698.5	5653.0	5596.6	5553.2	5505.5	5440.4	5353.6	5256.0	5136.7
40°	5976.2	5958.8	5921.9	5878.6	5826.5	5789.6	5741.9	5676.8	5592.2	5496.8	5381.8
37.5°	6154.0	6156.2	6117.2	6069.5	6023.9	5989.2	5945.8	5885.1	5811.3	5718.0	5603.1
35°	6323.2	6312.4	6279.9	6238.6	6197.4	6158.4	6112.8	6060.8	6000.0	5913.3	5804.8
32.5°	6433.9	6449.1	6410.0	6366.6	6342.8	6312.4	6264.7	6210.4	6156.2	6069.5	5971.8
30°	6555.4	6542.3	6512.0	6475.1	6457.7	6438.2	6397.0	6344.9	6282.0	6203.9	6112.8
27.5°	6640.0	6633.4	6596.6	6561.9	6553.2	6535.8	6503.3	6457.7	6394.8	6318.9	6234.3
25°	6676.8	6681.2	6646.5	6626.9	6626.9	6616.1	6590.1	6551.0	6488.1	6418.7	6336.3
22.5°	6694.2	6689.8	6666.0	6661.6	6672.5	6663.8	6653.0	6618.3	6561.9	6505.5	6436.0
20°	6705.0	6674.7	6653.0	6670.3	6683.3	6681.2	6672.5	6650.8	6624.8	6577.0	6516.3
17.5°	6681.2	6661.6	6635.6	6661.6	6689.8	6692.0	6683.3	6670.3	6663.8	6633.4	6579.2
15°	6622.6	6607.4	6611.8	6637.8	6670.3	6681.2	6687.7	6702.9	6694.2	6670.3	6622.6
12.5°	6583.6	6564.0	6583.6	6609.6	6626.9	6633.4	6685.5	6713.7	6713.7	6692.0	6661.6
10°	6572.7	6533.7	6559.7	6583.6	6592.2	6631.3	6674.7	6705.0	6720.2	6702.9	6663.8
7.5°	6551.0	6525.0	6535.8	6546.7	6596.6	6624.8	6648.6	6681.2	6702.9	6700.7	6666.0
5°	6540.2	6507.6	6512.0	6557.5	6592.2	6611.8	6620.4	6648.6	6681.2	6687.7	6661.6
2.5°	6512.0	6496.8	6529.3	6533.7	6559.7	6574.9	6583.6	6609.6	6650.8	6666.0	6655.1
0°	6496.8	6475.1	6453.4	6470.8	6514.1	6546.7	6559.7	6598.7	6646.5	6661.6	6637.8



REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-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°	60.7	58.6	56.4	54.2	56.4	56.4	56.4	54.2	56.4	54.2	54.2
85°	188.7	180.0	173.5	164.9	156.2	149.7	141.0	132.3	130.2	128.0	123.6
82.5°	325.4	314.5	303.7	290.7	277.7	262.5	247.3	229.9	225.6	221.3	214.8
80°	457.7	442.5	427.3	412.1	399.1	384.0	366.6	347.1	334.1	323.2	310.2
77.5°	596.5	574.8	553.1	527.1	511.9	496.7	479.4	459.9	440.3	423.0	403.5
75°	754.9	731.0	709.3	683.3	655.1	626.9	598.7	572.7	544.5	518.4	492.4
72.5°	930.6	895.9	861.2	828.6	793.9	759.2	722.3	687.6	652.9	618.2	581.3
70°	1115.0	1071.6	1028.2	984.8	939.3	893.7	850.3	806.9	763.6	718.0	676.8
67.5°	1331.9	1282.0	1225.6	1164.9	1097.6	1039.1	982.7	930.6	878.5	826.5	774.4
65°	1603.0	1533.6	1457.7	1375.3	1297.2	1219.1	1136.7	1058.6	997.8	937.1	878.5
62.5°	1937.1	1839.5	1733.2	1626.9	1531.5	1429.5	1334.1	1232.1	1136.7	1049.9	978.3
60°	2336.2	2203.9	2073.8	1937.1	1804.8	1666.0	1544.5	1418.7	1299.4	1193.1	1088.9
57.5°	2776.6	2622.6	2466.4	2299.4	2119.3	1956.6	1791.8	1626.9	1485.9	1344.9	1227.8
55°	3223.4	3060.8	2885.0	2696.3	2498.9	2290.7	2067.3	1882.9	1689.8	1525.0	1373.1
52.5°	3648.6	3479.4	3297.2	3123.7	2887.2	2648.6	2403.5	2160.5	1934.9	1724.5	1540.1
50°	4028.2	3863.4	3687.7	3485.9	3266.8	3013.0	2739.7	2466.4	2199.6	1952.3	1722.4
47.5°	4375.3	4214.8	4039.1	3837.3	3637.8	3355.8	3080.3	2778.8	2481.6	2197.4	1928.4
45°	4700.7	4538.0	4355.8	4162.7	3932.8	3681.1	3397.0	3093.3	2774.4	2455.5	2145.3
42.5°	4995.7	4833.0	4648.6	4449.1	4221.3	3971.8	3696.3	3390.5	3069.4	2722.4	2381.8
40°	5253.8	5095.5	4917.6	4709.4	4496.8	4234.3	3963.1	3672.5	3340.6	2991.3	2616.1
37.5°	5479.4	5331.9	5156.2	4950.1	4724.5	4490.3	4210.4	3919.8	3620.4	3240.8	2856.8
35°	5679.0	5542.3	5362.3	5167.1	4945.8	4698.5	4436.0	4151.9	3828.7	3472.9	3099.8
32.5°	5852.5	5713.7	5548.8	5353.6	5138.9	4906.8	4637.8	4351.4	4045.6	3683.3	3277.7
30°	6000.0	5865.5	5709.4	5525.0	5318.9	5089.0	4826.5	4538.0	4225.6	3865.5	3464.2
27.5°	6128.0	6000.0	5848.2	5676.8	5479.4	5258.2	4993.5	4702.8	4384.0	4036.9	3635.6
25°	6238.6	6115.0	5974.0	5811.3	5616.1	5399.2	5149.7	4846.0	4527.1	4177.9	3780.9
22.5°	6338.4	6219.1	6078.1	5919.8	5741.9	5525.0	5273.4	4971.8	4648.6	4303.7	3913.3
20°	6427.4	6316.7	6177.9	6015.2	5837.3	5618.3	5368.8	5082.5	4757.1	4418.7	4032.6
17.5°	6499.0	6401.3	6262.5	6091.1	5913.3	5700.7	5457.7	5195.3	4850.4	4516.3	4132.3
15°	6548.8	6453.4	6327.6	6154.0	5980.5	5770.1	5527.1	5256.0	4935.0	4594.4	4214.8
12.5°	6583.6	6481.6	6364.5	6203.9	6030.4	5822.2	5585.7	5318.9	5006.5	4663.8	4286.4
10°	6592.2	6499.0	6381.8	6238.6	6069.5	5867.7	5635.6	5371.0	5065.1	4718.0	4344.9
7.5°	6596.6	6507.6	6401.3	6264.7	6097.7	5902.4	5672.5	5412.2	5108.5	4763.6	4388.3
5°	6594.4	6509.8	6414.4	6282.0	6115.0	5921.9	5696.3	5440.4	5138.9	4794.0	4420.9
2.5°	6587.9	6512.0	6423.0	6295.0	6134.5	5943.6	5720.2	5472.9	5171.4	4820.0	4446.9
0°	6605.2	6540.2	6427.4	6290.7	6138.9	5943.6	5718.0	5477.3	5175.7	4817.8	4444.7





REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-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°	54.2	52.1	52.1	49.9	47.7	45.6	41.2	39.0	34.7	28.2	21.7
85°	117.1	110.6	104.1	99.8	95.4	91.1	84.6	78.1	69.4	56.4	43.4
82.5°	206.1	193.1	180.0	164.9	151.8	138.8	128.0	117.1	104.1	84.6	65.1
80°	295.0	275.5	256.0	234.3	214.8	193.1	173.5	156.2	138.8	112.8	86.8
77.5°	384.0	357.9	329.7	303.7	275.5	247.3	219.1	195.2	169.2	138.8	108.5
75°	466.4	436.0	410.0	373.1	338.4	301.5	264.6	232.1	199.6	162.7	130.2
72.5°	548.8	509.8	472.9	438.2	399.1	353.6	312.4	271.2	229.9	186.6	147.5
70°	631.2	583.5	538.0	496.7	453.4	407.8	357.9	310.2	260.3	208.2	162.7
67.5°	715.8	661.6	609.5	557.5	507.6	455.5	403.5	349.2	290.7	229.9	180.0
65°	809.1	741.9	679.0	620.4	561.8	505.4	446.9	388.3	323.2	253.8	195.2
62.5°	902.4	828.6	754.9	681.1	616.1	553.1	490.2	425.2	353.6	279.8	210.4
60°	1002.2	917.6	833.0	750.5	670.3	600.9	531.5	462.0	386.1	303.7	225.6
57.5°	1112.8	1010.9	915.4	822.1	731.0	648.6	572.7	498.9	414.3	327.6	243.0
55°	1238.6	1112.8	1000.0	895.9	796.1	696.3	613.9	538.0	446.9	351.4	262.5
52.5°	1370.9	1225.6	1088.9	971.8	865.5	752.7	652.9	568.3	479.4	375.3	279.8
50°	1525.0	1340.6	1188.7	1045.6	926.3	809.1	694.1	603.0	511.9	403.5	297.2
47.5°	1683.3	1479.4	1288.5	1132.3	991.3	863.3	741.9	633.4	542.3	429.5	314.5
45°	1867.7	1611.7	1401.3	1216.9	1054.2	919.7	789.6	665.9	568.3	455.5	331.9
42.5°	2045.6	1767.9	1518.4	1310.2	1125.8	974.0	833.0	700.7	594.4	481.6	347.1
40°	2256.0	1924.1	1631.2	1399.1	1197.4	1026.0	876.4	737.5	618.2	505.4	362.3
37.5°	2457.7	2082.4	1767.9	1496.8	1266.8	1078.1	919.7	772.2	639.9	529.3	381.8
35°	2657.3	2258.1	1898.1	1587.9	1338.4	1136.7	963.1	804.8	661.6	548.8	399.1
32.5°	2848.2	2423.0	2030.4	1689.8	1416.5	1190.9	1002.2	835.1	683.3	566.2	416.5
30°	3026.0	2579.2	2160.5	1793.9	1488.1	1240.8	1039.1	865.5	709.3	581.3	433.8
27.5°	3188.7	2731.0	2290.7	1891.6	1555.3	1286.3	1078.1	893.7	731.0	596.5	449.0
25°	3336.2	2867.7	2410.0	1980.5	1616.1	1336.2	1115.0	921.9	750.5	609.5	462.0
22.5°	3475.1	2993.5	2518.5	2069.4	1689.8	1386.1	1149.7	947.9	770.1	622.6	475.1
20°	3596.6	3108.5	2622.6	2158.4	1754.9	1431.7	1180.1	971.8	787.4	631.2	488.1
17.5°	3694.2	3210.4	2715.9	2236.5	1811.3	1470.7	1206.1	993.5	802.6	642.1	496.7
15°	3780.9	3297.2	2793.9	2303.7	1861.2	1503.3	1229.9	1010.9	815.6	648.6	507.6
12.5°	3854.7	3371.0	2861.2	2362.3	1904.6	1531.5	1249.5	1023.9	826.5	655.1	514.1
10°	3915.4	3429.5	2917.6	2407.8	1939.3	1553.2	1264.6	1036.9	835.1	661.6	520.6
7.5°	3961.0	3472.9	2958.8	2446.9	1967.5	1568.3	1277.7	1045.6	843.8	665.9	531.5
5°	3995.7	3509.8	2991.3	2472.9	1989.2	1590.0	1292.8	1056.4	852.5	670.3	531.5
2.5°	4021.7	3540.2	3017.4	2494.6	2006.5	1585.7	1292.8	1054.2	852.5	670.3	529.3
0°	4017.4	3542.3	3015.2	2494.6	2006.5	1581.4	1292.8	1052.1	852.5	670.3	529.3



REPORT NUMBER: P628460  
 CATALOG NUMBER: IFLD-L-SA7A-930-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.2	10.8	4.3	0.0
85°	32.5	21.7	10.8	0.0
82.5°	47.7	30.4	15.2	0.0
80°	62.9	41.2	19.5	0.0
77.5°	80.3	52.1	26.0	0.0
75°	95.4	60.7	30.4	0.0
72.5°	110.6	71.6	34.7	0.0
70°	123.6	80.3	39.0	0.0
67.5°	136.7	91.1	45.6	0.0
65°	147.5	99.8	49.9	0.0
62.5°	156.2	110.6	54.2	0.0
60°	167.0	119.3	58.6	0.0
57.5°	175.7	125.8	62.9	0.0
55°	184.4	130.2	67.2	0.0
52.5°	193.1	136.7	71.6	0.0
50°	201.7	143.2	75.9	0.0
47.5°	210.4	147.5	78.1	0.0
45°	223.4	154.0	82.4	0.0
42.5°	234.3	158.4	86.8	0.0
40°	245.1	162.7	88.9	0.0
37.5°	256.0	167.0	93.3	0.0
35°	266.8	171.4	95.4	0.0
32.5°	275.5	175.7	97.6	0.0
30°	284.2	180.0	99.8	0.0
27.5°	292.8	182.2	102.0	0.0
25°	299.4	186.6	104.1	0.0
22.5°	305.9	188.7	106.3	0.0
20°	310.2	190.9	108.5	0.0
17.5°	316.7	193.1	110.6	0.0
15°	318.9	195.2	115.0	0.0
12.5°	323.2	197.4	115.0	0.0
10°	325.4	199.6	115.0	0.0
7.5°	329.7	199.6	115.0	0.0
5°	327.6	199.6	115.0	0.0
2.5°	327.6	199.6	115.0	0.0
0°	325.4	199.6	115.0	0.0

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