

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: P628458

Luminaire Tested: **IFLD-M-SA4D-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628458  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

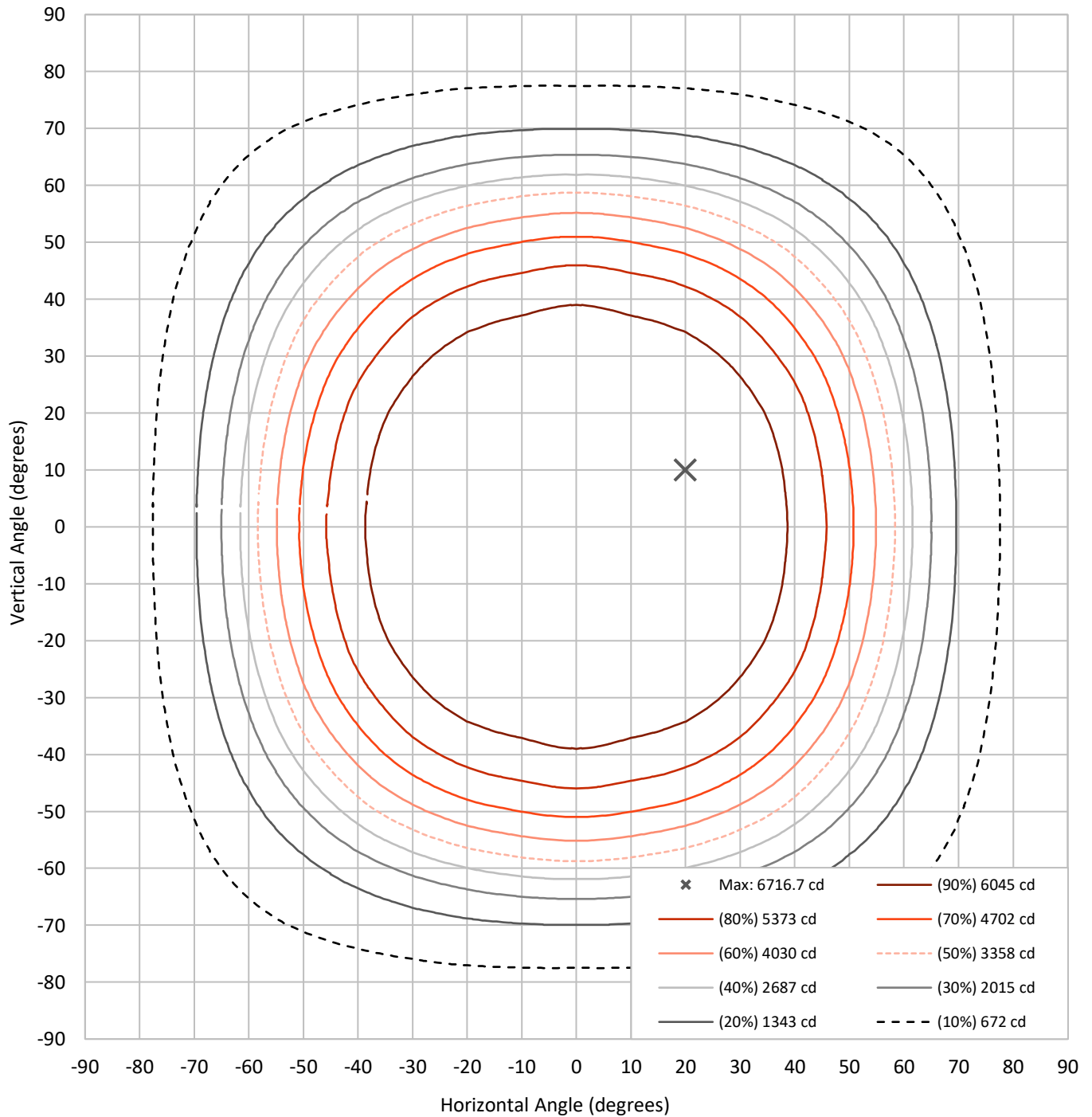
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20605.8 lumens	Max Intensity:	6716.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	12644.1 lumens	Field Lumens:	15158.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	249.7		
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: P628458  
CATALOG NUMBER: IFLD-M-SA4D-930-U-LAM

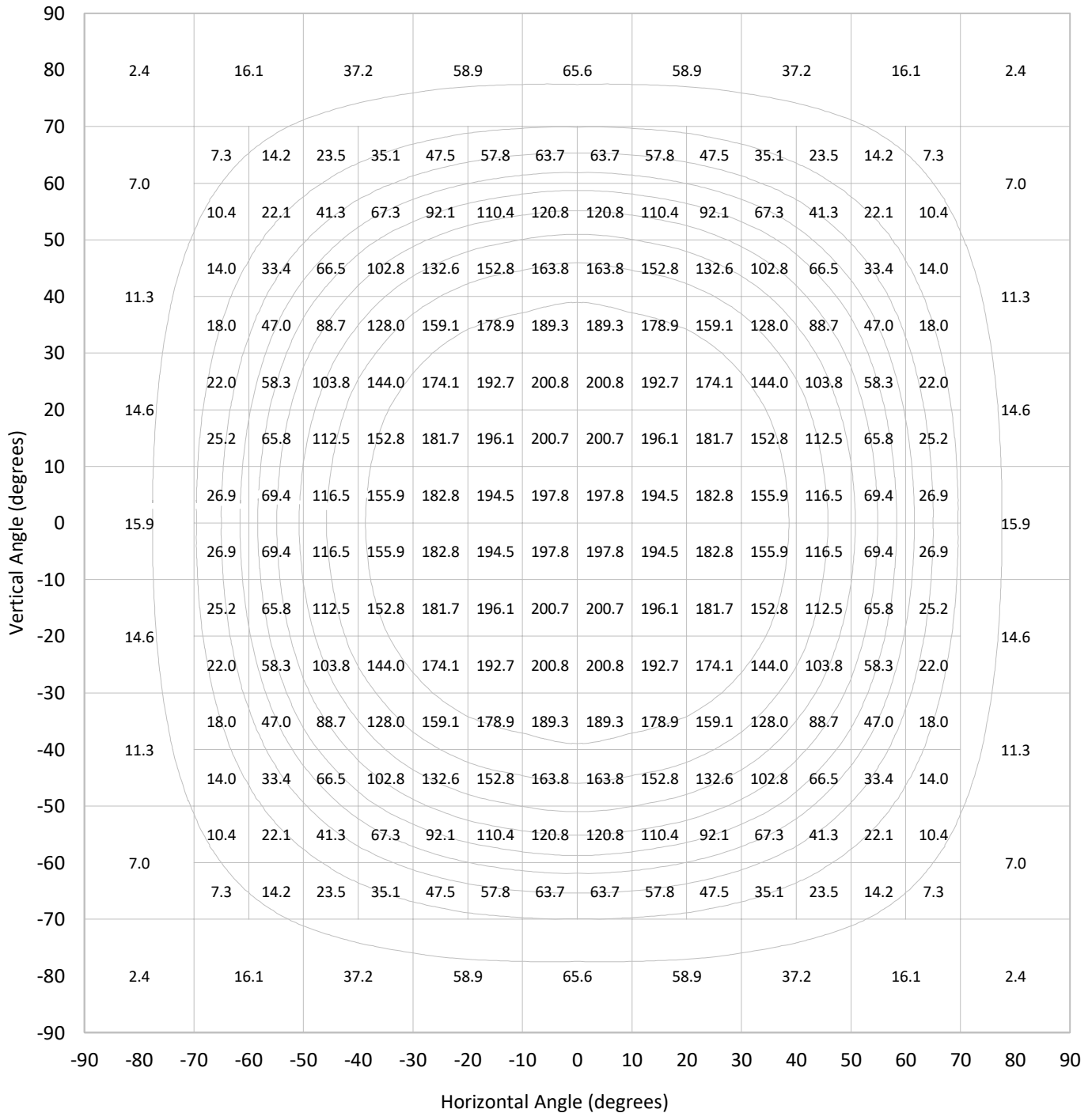
### Iso-Candela Plot





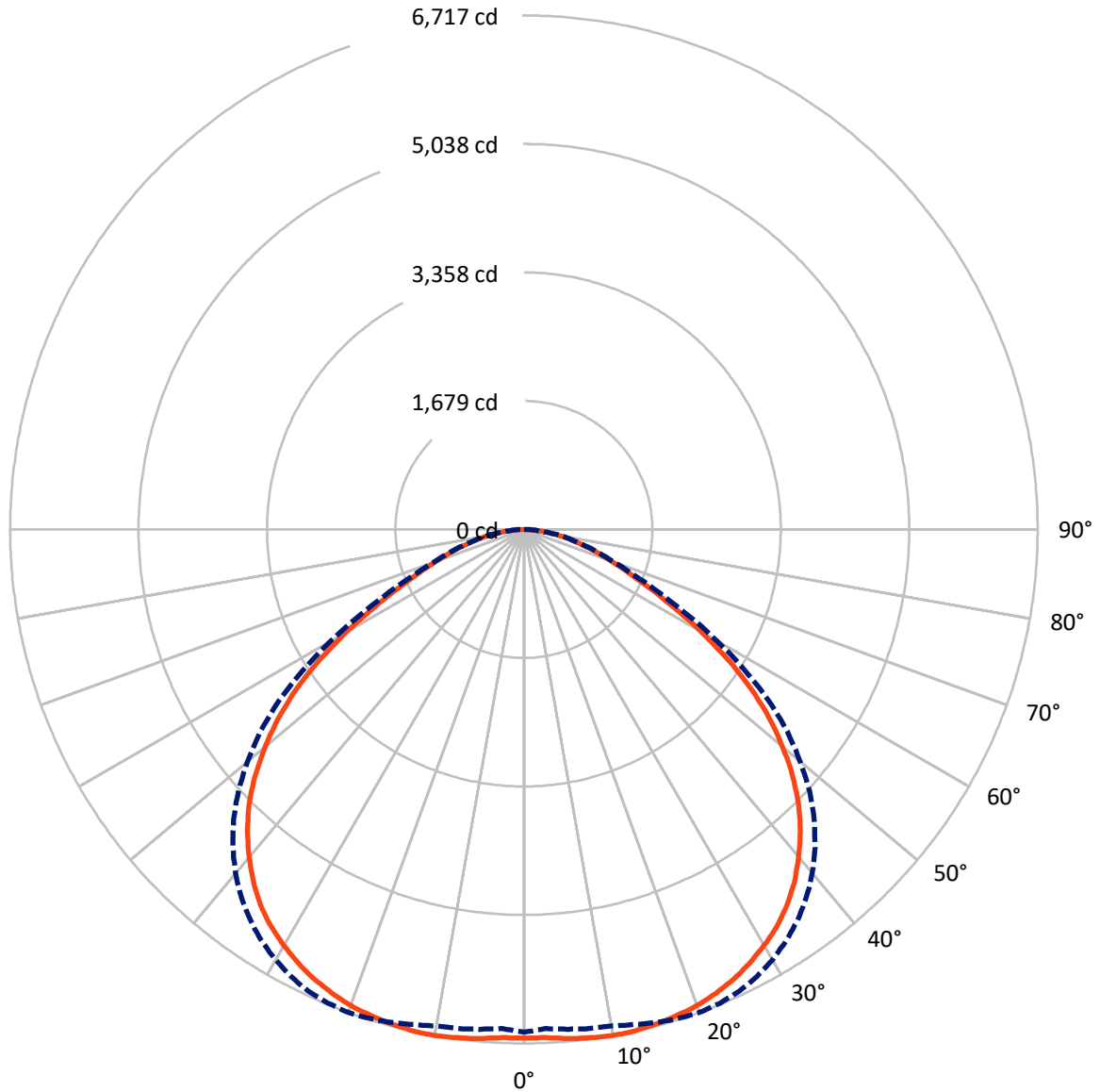
REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-930-U-LAM

### Lumen Table



REPORT NUMBER: P628458  
CATALOG NUMBER: IFLD-M-SA4D-930-U-LAM

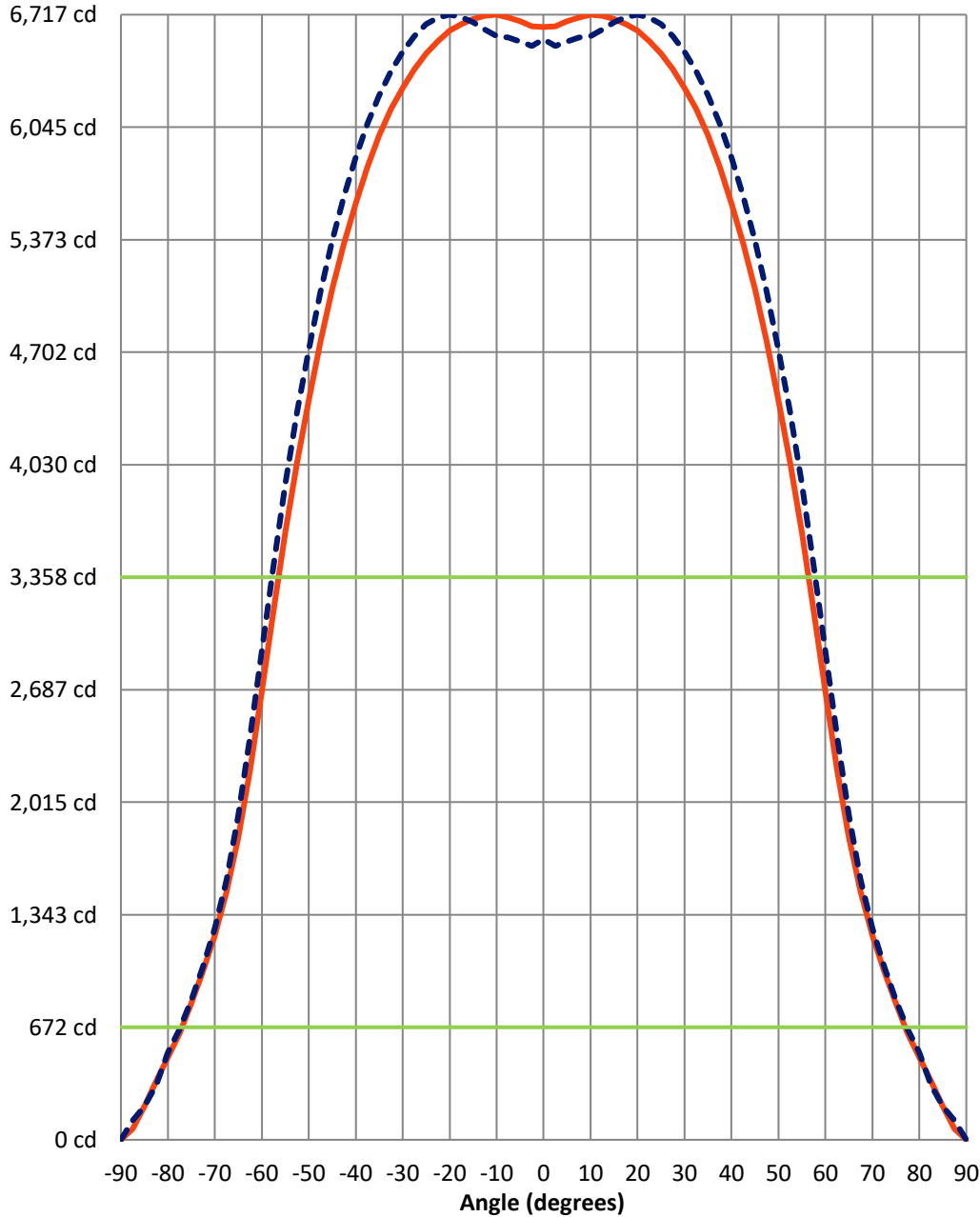
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-930-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 12644.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 15158.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5447.6  
 Efficiency: 26.4%

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



REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-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	58.5	60.7	62.9	65.0	67.2	69.4	67.2	65.0	65.0	62.9
85°	145.3	149.6	151.8	166.9	182.1	190.8	201.6	199.5	199.5	197.3	195.1
82.5°	290.5	303.5	314.4	329.5	338.2	351.2	359.9	353.4	349.1	340.4	333.9
80°	516.0	520.3	522.5	524.7	513.8	511.7	507.3	500.8	492.1	481.3	470.5
77.5°	656.9	661.3	665.6	661.3	659.1	656.9	650.4	643.9	635.2	626.6	613.6
75°	869.4	869.4	869.4	862.9	858.6	852.0	841.2	830.4	815.2	797.8	778.3
72.5°	1094.9	1092.7	1090.5	1077.5	1066.7	1053.7	1038.5	1025.5	1008.1	988.6	962.6
70°	1331.2	1335.5	1337.7	1320.3	1307.3	1290.0	1270.5	1246.6	1220.6	1192.4	1155.6
67.5°	1656.4	1652.1	1647.7	1623.9	1606.5	1582.7	1554.5	1519.8	1480.8	1437.4	1385.4
65°	2059.7	2066.2	2053.2	2029.3	1996.8	1957.8	1914.4	1864.5	1806.0	1741.0	1667.2
62.5°	2547.5	2558.3	2543.1	2512.8	2471.6	2419.6	2358.8	2287.3	2207.1	2116.0	2025.0
60°	3102.5	3100.3	3072.1	3030.9	2976.7	2911.7	2844.5	2766.4	2675.4	2569.2	2458.6
57.5°	3612.0	3607.7	3573.0	3531.8	3477.6	3408.2	3336.6	3254.3	3158.9	3046.1	2918.2
55°	4069.4	4065.1	4030.4	3987.1	3930.7	3861.3	3796.3	3718.2	3625.0	3505.8	3369.2
52.5°	4474.9	4477.0	4446.7	4399.0	4338.3	4271.1	4208.2	4130.2	4041.3	3922.0	3789.8
50°	4847.8	4845.6	4813.1	4769.7	4713.4	4648.3	4585.4	4507.4	4414.2	4299.3	4171.3
47.5°	5194.7	5190.3	5153.5	5105.8	5047.2	4990.9	4932.3	4863.0	4765.4	4650.5	4522.6
45°	5485.2	5476.5	5439.7	5394.1	5337.8	5287.9	5235.9	5183.8	5079.8	4973.5	4852.1
42.5°	5734.5	5732.4	5695.5	5650.0	5593.6	5550.2	5502.5	5437.5	5350.8	5253.2	5134.0
40°	5973.0	5955.7	5918.8	5875.4	5823.4	5786.6	5738.9	5673.8	5589.3	5493.9	5379.0
37.5°	6150.8	6153.0	6113.9	6066.2	6020.7	5986.0	5942.7	5881.9	5808.2	5715.0	5600.1
35°	6319.9	6309.1	6276.5	6235.3	6194.1	6155.1	6109.6	6057.6	5996.9	5910.1	5801.7
32.5°	6430.5	6445.6	6406.6	6363.3	6339.4	6309.1	6261.4	6207.2	6153.0	6066.2	5968.7
30°	6551.9	6538.9	6508.5	6471.7	6454.3	6434.8	6393.6	6341.6	6278.7	6200.7	6109.6
27.5°	6636.4	6629.9	6593.1	6558.4	6549.7	6532.4	6499.8	6454.3	6391.4	6315.6	6231.0
25°	6673.3	6677.6	6642.9	6623.4	6623.4	6612.6	6586.6	6547.5	6484.7	6415.3	6332.9
22.5°	6690.6	6686.3	6662.4	6658.1	6669.0	6660.3	6649.4	6614.8	6558.4	6502.0	6432.6
20°	6701.5	6671.1	6649.4	6666.8	6679.8	6677.6	6669.0	6647.3	6621.3	6573.6	6512.9
17.5°	6677.6	6658.1	6632.1	6658.1	6686.3	6688.5	6679.8	6666.8	6660.3	6629.9	6575.7
15°	6619.1	6603.9	6608.2	6634.3	6666.8	6677.6	6684.1	6699.3	6690.6	6666.8	6619.1
12.5°	6580.1	6560.6	6580.1	6606.1	6623.4	6629.9	6682.0	6710.1	6710.1	6688.5	6658.1
10°	6569.2	6530.2	6556.2	6580.1	6588.7	6627.8	6671.1	6701.5	6716.7	6699.3	6660.3
7.5°	6547.5	6521.5	6532.4	6543.2	6593.1	6621.3	6645.1	6677.6	6699.3	6697.1	6662.4
5°	6536.7	6504.2	6508.5	6554.0	6588.7	6608.2	6616.9	6645.1	6677.6	6684.1	6658.1
2.5°	6508.5	6493.3	6525.9	6530.2	6556.2	6571.4	6580.1	6606.1	6647.3	6662.4	6651.6
0°	6493.3	6471.7	6450.0	6467.3	6510.7	6543.2	6556.2	6595.2	6642.9	6658.1	6634.3



REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-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	58.5	56.4	54.2	56.4	56.4	56.4	54.2	56.4	54.2	54.2
85°	188.6	179.9	173.4	164.8	156.1	149.6	140.9	132.3	130.1	127.9	123.6
82.5°	325.2	314.4	303.5	290.5	277.5	262.3	247.2	229.8	225.5	221.1	214.6
80°	457.5	442.3	427.1	411.9	398.9	383.7	366.4	346.9	333.9	323.0	310.0
77.5°	596.2	574.5	552.9	526.8	511.7	496.5	479.1	459.6	440.1	422.8	403.3
75°	754.5	730.6	709.0	682.9	654.8	626.6	598.4	572.4	544.2	518.2	492.1
72.5°	930.1	895.4	860.7	828.2	793.5	758.8	722.0	687.3	652.6	617.9	581.0
70°	1114.4	1071.0	1027.7	984.3	938.8	893.2	849.9	806.5	763.2	717.6	676.4
67.5°	1331.2	1281.3	1225.0	1164.2	1097.0	1038.5	982.1	930.1	878.1	826.0	774.0
65°	1602.2	1532.8	1456.9	1374.6	1296.5	1218.4	1136.1	1058.0	997.3	936.6	878.1
62.5°	1936.1	1838.5	1732.3	1626.0	1530.7	1428.8	1333.4	1231.5	1136.1	1049.3	977.8
60°	2335.0	2202.7	2072.7	1936.1	1803.8	1665.1	1543.7	1417.9	1298.7	1192.4	1088.4
57.5°	2775.1	2621.2	2465.1	2298.1	2118.2	1955.6	1790.8	1626.0	1485.1	1344.2	1227.1
55°	3221.7	3059.1	2883.5	2694.9	2497.6	2289.5	2066.2	1881.9	1688.9	1524.1	1372.4
52.5°	3646.7	3477.6	3295.5	3122.0	2885.7	2647.2	2402.2	2159.4	1933.9	1723.6	1539.3
50°	4026.1	3861.3	3685.7	3484.1	3265.1	3011.4	2738.3	2465.1	2198.4	1951.3	1721.4
47.5°	4373.0	4212.5	4036.9	3835.3	3635.8	3354.0	3078.6	2777.3	2480.3	2196.2	1927.4
45°	4698.2	4535.6	4353.5	4160.5	3930.7	3679.2	3395.2	3091.7	2772.9	2454.2	2144.2
42.5°	4993.0	4830.4	4646.2	4446.7	4219.0	3969.7	3694.4	3388.7	3067.8	2720.9	2380.5
40°	5251.0	5092.8	4915.0	4706.9	4494.4	4232.1	3961.0	3670.5	3338.8	2989.8	2614.7
37.5°	5476.5	5329.1	5153.5	4947.5	4722.0	4487.9	4208.2	3917.7	3618.5	3239.1	2855.3
35°	5676.0	5539.4	5359.4	5164.3	4943.2	4696.0	4433.7	4149.7	3826.6	3471.1	3098.2
32.5°	5849.4	5710.7	5545.9	5350.8	5136.1	4904.2	4635.3	4349.1	4043.4	3681.4	3275.9
30°	5996.9	5862.4	5706.3	5522.0	5316.1	5086.3	4823.9	4535.6	4223.4	3863.5	3462.4
27.5°	6124.8	5996.9	5845.1	5673.8	5476.5	5255.4	4990.9	4700.4	4381.6	4034.8	3633.7
25°	6235.3	6111.8	5970.8	5808.2	5613.1	5396.3	5147.0	4843.4	4524.7	4175.7	3778.9
22.5°	6335.1	6215.8	6074.9	5916.6	5738.9	5522.0	5270.6	4969.2	4646.2	4301.4	3911.2
20°	6424.0	6313.4	6174.6	6012.0	5834.3	5615.3	5365.9	5079.8	4754.6	4416.3	4030.4
17.5°	6495.5	6397.9	6259.2	6087.9	5910.1	5697.7	5454.8	5192.5	4847.8	4513.9	4130.2
15°	6545.4	6450.0	6324.2	6150.8	5977.3	5767.0	5524.2	5253.2	4932.3	4592.0	4212.5
12.5°	6580.1	6478.2	6361.1	6200.7	6027.2	5819.1	5582.8	5316.1	5003.9	4661.3	4284.1
10°	6588.7	6495.5	6378.4	6235.3	6066.2	5864.6	5632.6	5368.1	5062.4	4715.5	4342.6
7.5°	6593.1	6504.2	6397.9	6261.4	6094.4	5899.3	5669.5	5409.3	5105.8	4761.1	4386.0
5°	6590.9	6506.3	6411.0	6278.7	6111.8	5918.8	5693.3	5437.5	5136.1	4791.4	4418.5
2.5°	6584.4	6508.5	6419.6	6291.7	6131.3	5940.5	5717.2	5470.0	5168.7	4817.4	4444.5
0°	6601.7	6536.7	6424.0	6287.4	6135.6	5940.5	5715.0	5474.4	5173.0	4815.3	4442.4





REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-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	52.0	52.0	49.9	47.7	45.5	41.2	39.0	34.7	28.2	21.7
85°	117.1	110.6	104.1	99.7	95.4	91.1	84.6	78.1	69.4	56.4	43.4
82.5°	206.0	193.0	179.9	164.8	151.8	138.8	127.9	117.1	104.1	84.6	65.0
80°	294.9	275.3	255.8	234.2	214.6	193.0	173.4	156.1	138.8	112.7	86.7
77.5°	383.7	357.7	329.5	303.5	275.3	247.2	219.0	195.1	169.1	138.8	108.4
75°	466.1	435.8	409.8	372.9	338.2	301.4	264.5	232.0	199.5	162.6	130.1
72.5°	548.5	509.5	472.6	437.9	398.9	353.4	312.2	271.0	229.8	186.5	147.4
70°	630.9	583.2	537.7	496.5	453.1	407.6	357.7	310.0	260.2	208.1	162.6
67.5°	715.5	661.3	609.2	557.2	507.3	455.3	403.3	349.1	290.5	229.8	179.9
65°	808.7	741.5	678.6	620.1	561.5	505.2	446.6	388.1	323.0	253.7	195.1
62.5°	901.9	828.2	754.5	680.8	615.7	552.9	490.0	424.9	353.4	279.7	210.3
60°	1001.6	917.1	832.5	750.1	669.9	600.6	531.2	461.8	385.9	303.5	225.5
57.5°	1112.2	1010.3	914.9	821.7	730.6	648.3	572.4	498.7	414.1	327.4	242.8
55°	1238.0	1112.2	999.5	895.4	795.7	695.9	613.6	537.7	446.6	351.2	262.3
52.5°	1370.2	1225.0	1088.4	971.3	865.1	752.3	652.6	568.0	479.1	375.1	279.7
50°	1524.1	1339.9	1188.1	1045.0	925.8	808.7	693.8	602.7	511.7	403.3	297.0
47.5°	1682.4	1478.6	1287.8	1131.7	990.8	862.9	741.5	633.1	542.0	429.3	314.4
45°	1866.7	1610.9	1400.6	1216.3	1053.7	919.3	789.2	665.6	568.0	455.3	331.7
42.5°	2044.5	1767.0	1517.6	1309.5	1125.2	973.5	832.5	700.3	594.0	481.3	346.9
40°	2254.8	1923.1	1630.4	1398.4	1196.8	1025.5	875.9	737.1	617.9	505.2	362.1
37.5°	2456.4	2081.3	1767.0	1496.0	1266.1	1077.5	919.3	771.8	639.6	529.0	381.6
35°	2655.9	2257.0	1897.1	1587.0	1337.7	1136.1	962.6	804.4	661.3	548.5	398.9
32.5°	2846.7	2421.7	2029.3	1688.9	1415.7	1190.3	1001.6	834.7	682.9	565.9	416.3
30°	3024.4	2577.8	2159.4	1793.0	1487.3	1240.1	1038.5	865.1	709.0	581.0	433.6
27.5°	3187.0	2729.6	2289.5	1890.5	1554.5	1285.7	1077.5	893.2	730.6	596.2	448.8
25°	3334.5	2866.2	2408.7	1979.4	1615.2	1335.5	1114.4	921.4	750.1	609.2	461.8
22.5°	3473.2	2991.9	2517.1	2068.3	1688.9	1385.4	1149.1	947.4	769.7	622.2	474.8
20°	3594.6	3106.8	2621.2	2157.2	1754.0	1430.9	1179.4	971.3	787.0	630.9	487.8
17.5°	3692.2	3208.7	2714.4	2235.3	1810.3	1469.9	1205.4	993.0	802.2	641.7	496.5
15°	3778.9	3295.5	2792.5	2302.5	1860.2	1502.5	1229.3	1010.3	815.2	648.3	507.3
12.5°	3852.6	3369.2	2859.7	2361.0	1903.6	1530.7	1248.8	1023.3	826.0	654.8	513.8
10°	3913.3	3427.7	2916.0	2406.5	1938.2	1552.3	1264.0	1036.3	834.7	661.3	520.3
7.5°	3958.9	3471.1	2957.2	2445.6	1966.4	1567.5	1277.0	1045.0	843.4	665.6	531.2
5°	3993.6	3507.9	2989.8	2471.6	1988.1	1589.2	1292.2	1055.8	852.0	669.9	531.2
2.5°	4019.6	3538.3	3015.8	2493.3	2005.5	1584.9	1292.2	1053.7	852.0	669.9	529.0
0°	4015.2	3540.4	3013.6	2493.3	2005.5	1580.5	1292.2	1051.5	852.0	669.9	529.0



REPORT NUMBER: P628458  
 CATALOG NUMBER: IFLD-M-SA4D-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°	80.2	52.0	26.0	0.0
75°	95.4	60.7	30.4	0.0
72.5°	110.6	71.5	34.7	0.0
70°	123.6	80.2	39.0	0.0
67.5°	136.6	91.1	45.5	0.0
65°	147.4	99.7	49.9	0.0
62.5°	156.1	110.6	54.2	0.0
60°	166.9	119.2	58.5	0.0
57.5°	175.6	125.7	62.9	0.0
55°	184.3	130.1	67.2	0.0
52.5°	193.0	136.6	71.5	0.0
50°	201.6	143.1	75.9	0.0
47.5°	210.3	147.4	78.1	0.0
45°	223.3	153.9	82.4	0.0
42.5°	234.2	158.3	86.7	0.0
40°	245.0	162.6	88.9	0.0
37.5°	255.8	166.9	93.2	0.0
35°	266.7	171.3	95.4	0.0
32.5°	275.3	175.6	97.6	0.0
30°	284.0	179.9	99.7	0.0
27.5°	292.7	182.1	101.9	0.0
25°	299.2	186.5	104.1	0.0
22.5°	305.7	188.6	106.2	0.0
20°	310.0	190.8	108.4	0.0
17.5°	316.5	193.0	110.6	0.0
15°	318.7	195.1	114.9	0.0
12.5°	323.0	197.3	114.9	0.0
10°	325.2	199.5	114.9	0.0
7.5°	329.5	199.5	114.9	0.0
5°	327.4	199.5	114.9	0.0
2.5°	327.4	199.5	114.9	0.0
0°	325.2	199.5	114.9	0.0

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