

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: P628299

Luminaire Tested: **IFLD-S-SA2E-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628299
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19053.9 lumens	Max Intensity:	6210.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	122.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

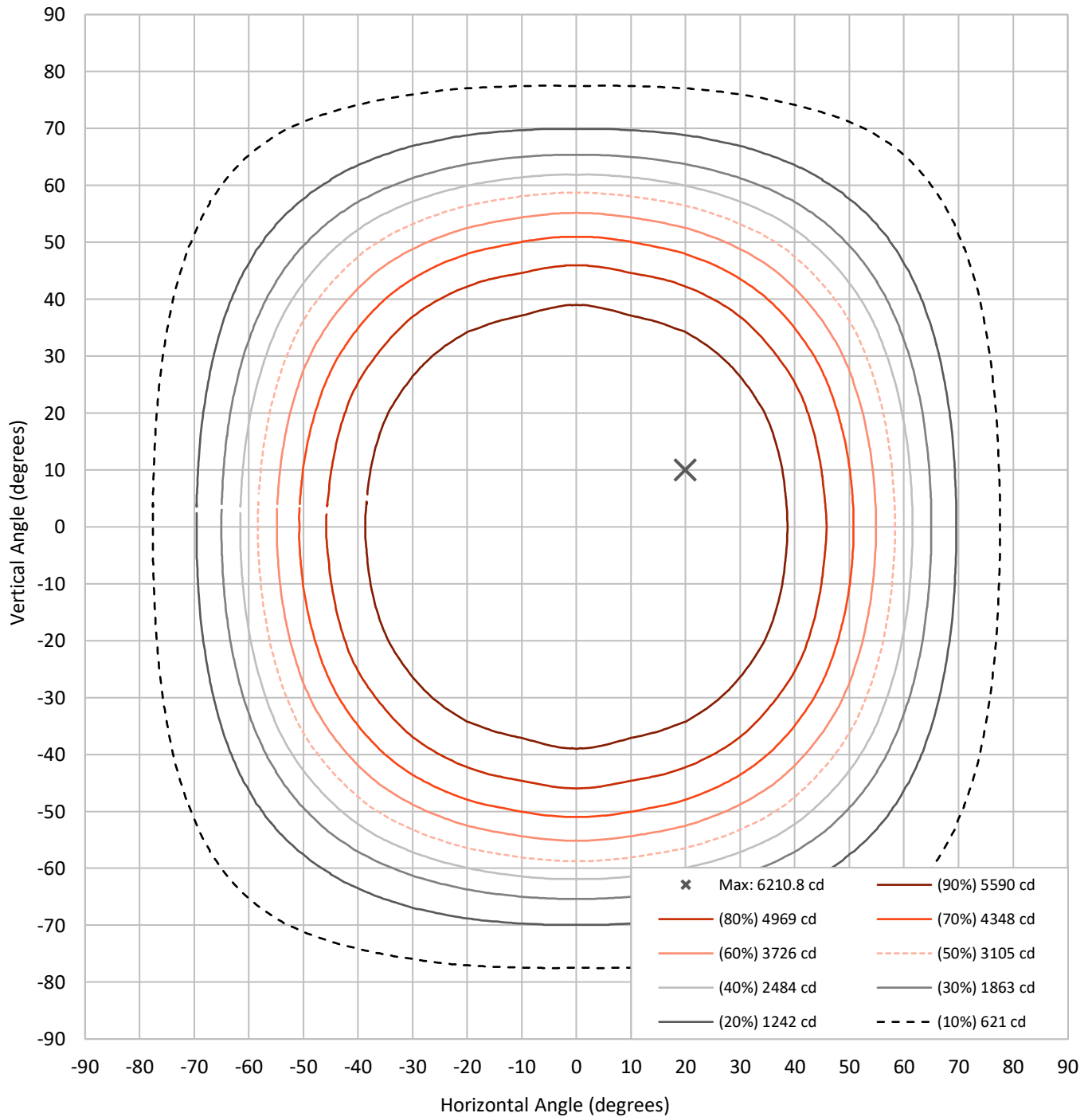
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	11691.9 lumens	Field Lumens:	14016.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



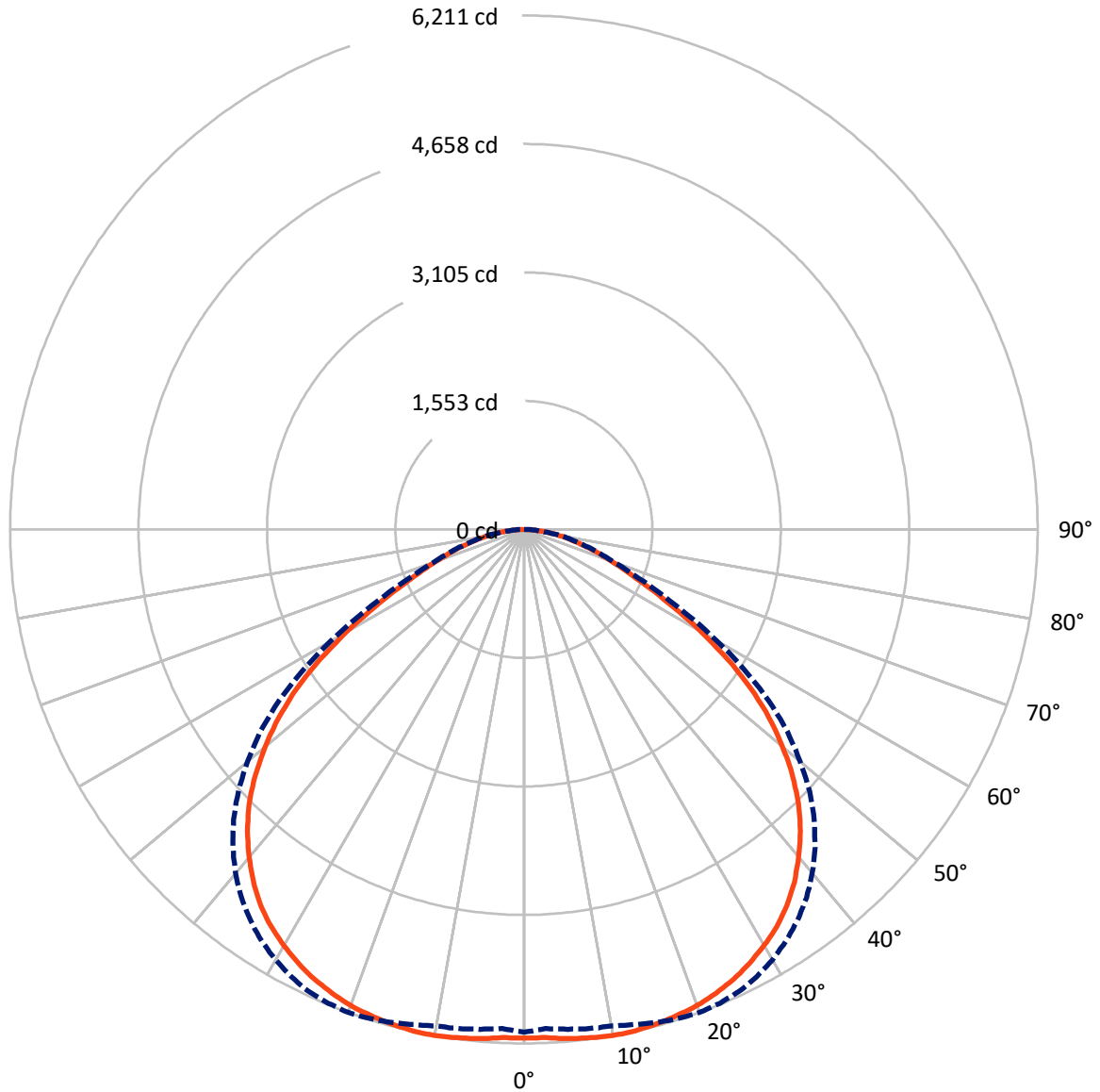
REPORT NUMBER: P628299
CATALOG NUMBER: IFLD-S-SA2E-750-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628299
CATALOG NUMBER: IFLD-S-SA2E-750-U-LAM

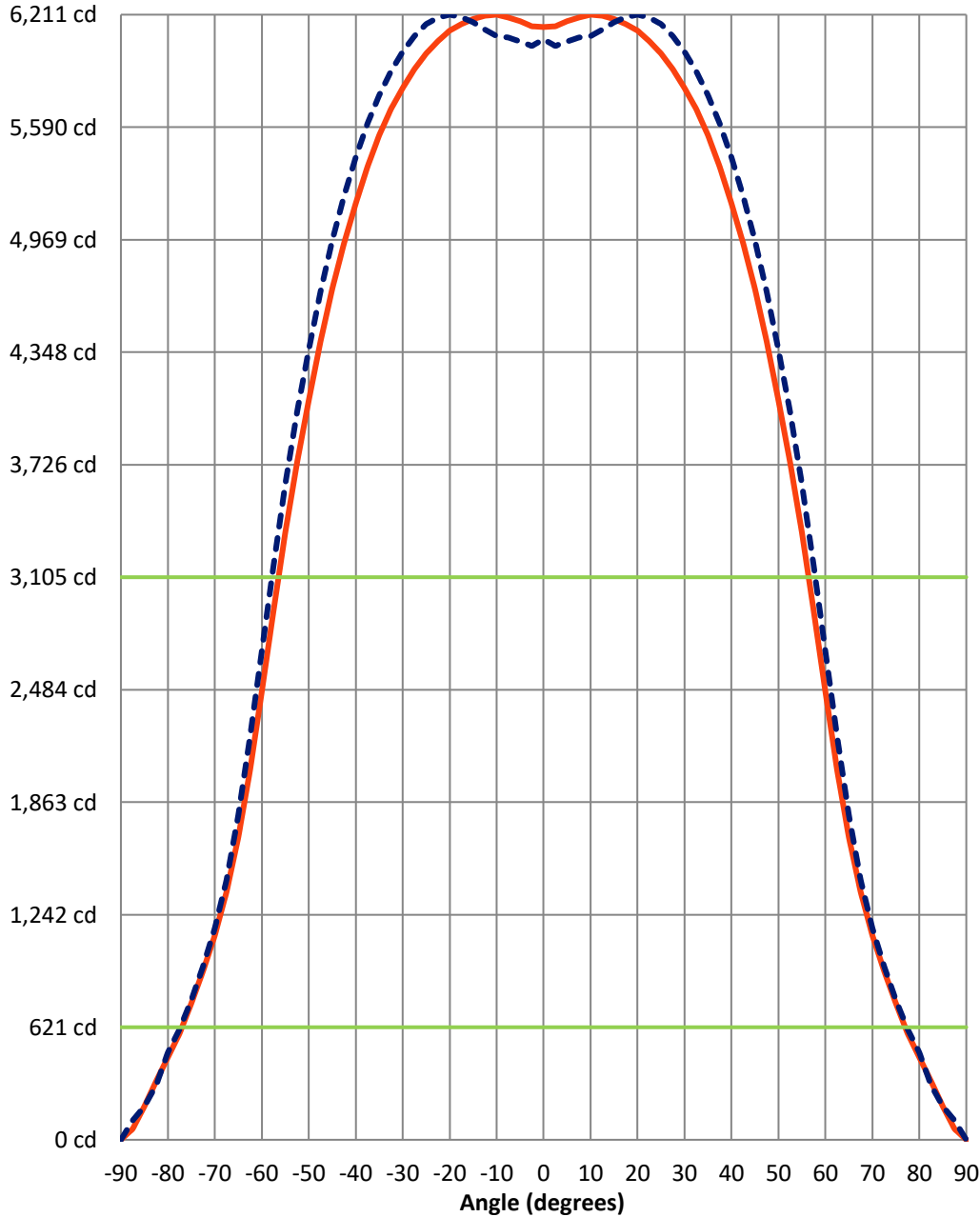
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628299
 CATALOG NUMBER: IFLD-S-SA2E-750-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 11691.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 14016.6
 Efficiency: 73.6%

Spill:
 Lumens: 5037.3
 Efficiency: 26.4%

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



REPORT NUMBER: P628299
 CATALOG NUMBER: IFLD-S-SA2E-750-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°	50.1	54.1	56.1	58.1	60.1	62.1	64.2	62.1	60.1	60.1	58.1
85°	134.3	138.3	140.3	154.4	168.4	176.4	186.4	184.4	184.4	182.4	180.4
82.5°	268.6	280.7	290.7	304.7	312.7	324.8	332.8	326.8	322.8	314.8	308.7
80°	477.1	481.1	483.2	485.2	475.1	473.1	469.1	463.1	455.1	445.1	435.0
77.5°	607.4	611.5	615.5	611.5	609.5	607.4	601.4	595.4	587.4	579.4	567.4
75°	803.9	803.9	803.9	797.9	793.9	787.9	777.9	767.8	753.8	737.8	719.7
72.5°	1012.4	1010.4	1008.4	996.4	986.4	974.3	960.3	948.3	932.2	914.2	890.1
70°	1230.9	1234.9	1236.9	1220.9	1208.9	1192.8	1174.8	1152.7	1128.7	1102.6	1068.5
67.5°	1531.7	1527.6	1523.6	1501.6	1485.5	1463.5	1437.4	1405.4	1369.3	1329.2	1281.1
65°	1904.5	1910.6	1898.5	1876.5	1846.4	1810.3	1770.2	1724.1	1670.0	1609.8	1541.7
62.5°	2355.6	2365.6	2351.6	2323.5	2285.4	2237.3	2181.2	2115.0	2040.9	1956.7	1872.5
60°	2868.8	2866.8	2840.8	2802.7	2752.6	2692.4	2630.3	2558.1	2473.9	2375.7	2273.4
57.5°	3340.0	3336.0	3303.9	3265.8	3215.7	3151.5	3085.4	3009.2	2921.0	2816.7	2698.4
55°	3763.0	3759.0	3726.9	3686.8	3634.7	3570.5	3510.4	3438.2	3352.0	3241.7	3115.4
52.5°	4137.9	4139.9	4111.8	4067.7	4011.6	3949.4	3891.3	3819.1	3736.9	3626.6	3504.4
50°	4482.7	4480.7	4450.6	4410.5	4358.4	4298.2	4240.1	4167.9	4081.7	3975.5	3857.2
47.5°	4803.5	4799.4	4765.4	4721.3	4667.1	4615.0	4560.9	4496.7	4406.5	4300.3	4182.0
45°	5072.1	5064.1	5030.0	4987.9	4935.8	4889.7	4841.5	4793.4	4697.2	4599.0	4486.7
42.5°	5302.6	5300.6	5266.6	5224.5	5172.3	5132.2	5088.1	5028.0	4947.8	4857.6	4747.3
40°	5523.2	5507.1	5473.0	5433.0	5384.8	5350.8	5306.7	5246.5	5168.3	5080.1	4973.9
37.5°	5687.6	5689.6	5653.5	5609.4	5567.3	5535.2	5495.1	5439.0	5370.8	5284.6	5178.3
35°	5843.9	5833.9	5803.8	5765.7	5727.7	5691.6	5649.5	5601.4	5545.2	5465.0	5364.8
32.5°	5946.2	5960.2	5924.1	5884.0	5862.0	5833.9	5789.8	5739.7	5689.6	5609.4	5519.2
30°	6058.4	6046.4	6018.3	5984.3	5968.2	5950.2	5912.1	5864.0	5805.8	5733.7	5649.5
27.5°	6136.6	6130.6	6096.5	6064.5	6056.4	6040.4	6010.3	5968.2	5910.1	5839.9	5761.7
25°	6170.7	6174.7	6142.6	6124.6	6124.6	6114.6	6090.5	6054.4	5996.3	5932.1	5856.0
22.5°	6186.7	6182.7	6160.7	6156.7	6166.7	6158.7	6148.7	6116.6	6064.5	6012.3	5948.2
20°	6196.8	6168.7	6148.7	6164.7	6176.7	6174.7	6166.7	6146.7	6122.6	6078.5	6022.4
17.5°	6174.7	6156.7	6132.6	6156.7	6182.7	6184.7	6176.7	6164.7	6158.7	6130.6	6080.5
15°	6120.6	6106.6	6110.6	6134.6	6164.7	6174.7	6180.7	6194.8	6186.7	6164.7	6120.6
12.5°	6084.5	6066.5	6084.5	6108.6	6124.6	6130.6	6178.7	6204.8	6204.8	6184.7	6156.7
10°	6074.5	6038.4	6062.5	6084.5	6092.5	6128.6	6168.7	6196.8	6210.8	6194.8	6158.7
7.5°	6054.4	6030.4	6040.4	6050.4	6096.5	6122.6	6144.6	6174.7	6194.8	6192.8	6160.7
5°	6044.4	6014.3	6018.3	6060.4	6092.5	6110.6	6118.6	6144.6	6174.7	6180.7	6156.7
2.5°	6018.3	6004.3	6034.4	6038.4	6062.5	6076.5	6084.5	6108.6	6146.7	6160.7	6150.7
0°	6004.3	5984.3	5964.2	5980.3	6020.4	6050.4	6062.5	6098.5	6142.6	6156.7	6134.6



REPORT NUMBER: P628299
 CATALOG NUMBER: IFLD-S-SA2E-750-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°	56.1	54.1	52.1	50.1	52.1	52.1	52.1	50.1	52.1	50.1	50.1
85°	174.4	166.4	160.4	152.4	144.3	138.3	130.3	122.3	120.3	118.3	114.3
82.5°	300.7	290.7	280.7	268.6	256.6	242.6	228.5	212.5	208.5	204.5	198.5
80°	423.0	409.0	394.9	380.9	368.9	354.8	338.8	320.8	308.7	298.7	286.7
77.5°	551.3	531.3	511.2	487.2	473.1	459.1	443.1	425.0	407.0	390.9	372.9
75°	697.7	675.6	655.6	631.5	605.4	579.4	553.3	529.3	503.2	479.1	455.1
72.5°	860.1	828.0	795.9	765.8	733.7	701.7	667.6	635.5	603.4	571.4	537.3
70°	1030.5	990.4	950.3	910.2	868.1	826.0	785.9	745.8	705.7	663.6	625.5
67.5°	1230.9	1184.8	1132.7	1076.6	1014.4	960.3	908.2	860.1	811.9	763.8	715.7
65°	1481.5	1417.4	1347.2	1271.0	1198.9	1126.7	1050.5	978.3	922.2	866.1	811.9
62.5°	1790.3	1700.1	1601.8	1503.6	1415.4	1321.1	1232.9	1138.7	1050.5	970.3	904.2
60°	2159.1	2036.9	1916.6	1790.3	1668.0	1539.7	1427.4	1311.1	1200.9	1102.6	1006.4
57.5°	2566.1	2423.8	2279.4	2125.1	1958.7	1808.3	1655.9	1503.6	1373.3	1243.0	1134.7
55°	2979.1	2828.7	2666.4	2491.9	2309.5	2117.0	1910.6	1740.1	1561.7	1409.4	1269.0
52.5°	3372.0	3215.7	3047.3	2886.9	2668.4	2447.8	2221.3	1996.8	1788.3	1593.8	1423.4
50°	3722.9	3570.5	3408.1	3221.7	3019.2	2784.6	2532.0	2279.4	2032.8	1804.3	1591.8
47.5°	4043.6	3895.3	3732.9	3546.5	3362.0	3101.4	2846.8	2568.1	2293.5	2030.8	1782.2
45°	4344.4	4194.0	4025.6	3847.2	3634.7	3402.1	3139.5	2858.8	2564.1	2269.4	1982.7
42.5°	4617.0	4466.6	4296.2	4111.8	3901.3	3670.8	3416.1	3133.5	2836.8	2516.0	2201.2
40°	4855.6	4709.2	4544.8	4352.4	4155.9	3913.3	3662.7	3394.1	3087.4	2764.6	2417.8
37.5°	5064.1	4927.7	4765.4	4574.9	4366.4	4149.9	3891.3	3622.6	3346.0	2995.1	2640.3
35°	5248.5	5122.2	4955.8	4775.4	4570.9	4342.4	4099.8	3837.1	3538.4	3209.7	2864.8
32.5°	5408.9	5280.6	5128.2	4947.8	4749.3	4534.8	4286.2	4021.6	3738.9	3404.1	3029.2
30°	5545.2	5420.9	5276.6	5106.2	4915.7	4703.2	4460.6	4194.0	3905.3	3572.5	3201.6
27.5°	5663.5	5545.2	5404.9	5246.5	5064.1	4859.6	4615.0	4346.4	4051.7	3730.9	3360.0
25°	5765.7	5651.5	5521.2	5370.8	5190.4	4989.9	4759.3	4478.7	4184.0	3861.2	3494.3
22.5°	5858.0	5747.7	5617.4	5471.0	5306.7	5106.2	4873.6	4595.0	4296.2	3977.5	3616.6
20°	5940.2	5837.9	5709.6	5559.3	5394.9	5192.4	4961.8	4697.2	4396.5	4083.7	3726.9
17.5°	6006.3	5916.1	5787.8	5629.4	5465.0	5268.6	5044.0	4801.4	4482.7	4174.0	3819.1
15°	6052.4	5964.2	5847.9	5687.6	5527.2	5332.7	5108.2	4857.6	4560.9	4246.1	3895.3
12.5°	6084.5	5990.3	5882.0	5733.7	5573.3	5380.8	5162.3	4915.7	4627.0	4310.3	3961.4
10°	6092.5	6006.3	5898.1	5765.7	5609.4	5422.9	5208.4	4963.8	4681.2	4360.4	4015.6
7.5°	6096.5	6014.3	5916.1	5789.8	5635.4	5455.0	5242.5	5001.9	4721.3	4402.5	4055.7
5°	6094.5	6016.3	5928.1	5805.8	5651.5	5473.0	5264.6	5028.0	4749.3	4430.6	4085.7
2.5°	6088.5	6018.3	5936.2	5817.9	5669.5	5493.1	5286.6	5058.1	4779.4	4454.6	4109.8
0°	6104.6	6044.4	5940.2	5813.9	5673.5	5493.1	5284.6	5062.1	4783.4	4452.6	4107.8



REPORT NUMBER: P628299
 CATALOG NUMBER: IFLD-S-SA2E-750-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°	50.1	48.1	48.1	46.1	44.1	42.1	38.1	36.1	32.1	26.1	20.0
85°	108.3	102.2	96.2	92.2	88.2	84.2	78.2	72.2	64.2	52.1	40.1
82.5°	190.5	178.4	166.4	152.4	140.3	128.3	118.3	108.3	96.2	78.2	60.1
80°	272.7	254.6	236.6	216.5	198.5	178.4	160.4	144.3	128.3	104.2	80.2
77.5°	354.8	330.8	304.7	280.7	254.6	228.5	202.5	180.4	156.4	128.3	100.2
75°	431.0	403.0	378.9	344.8	312.7	278.7	244.6	214.5	184.4	150.4	120.3
72.5°	507.2	471.1	437.0	405.0	368.9	326.8	288.7	250.6	212.5	172.4	136.3
70°	583.4	539.3	497.2	459.1	419.0	376.9	330.8	286.7	240.6	192.5	150.4
67.5°	661.6	611.5	563.3	515.2	469.1	421.0	372.9	322.8	268.6	212.5	166.4
65°	747.8	685.6	627.5	573.4	519.2	467.1	413.0	358.9	298.7	234.6	180.4
62.5°	834.0	765.8	697.7	629.5	569.4	511.2	453.1	392.9	326.8	258.6	194.5
60°	926.2	848.0	769.8	693.7	619.5	555.3	491.2	427.0	356.9	280.7	208.5
57.5°	1028.5	934.2	846.0	759.8	675.6	599.4	529.3	461.1	382.9	302.7	224.5
55°	1144.7	1028.5	924.2	828.0	735.8	643.5	567.4	497.2	413.0	324.8	242.6
52.5°	1267.0	1132.7	1006.4	898.1	799.9	695.7	603.4	525.3	443.1	346.8	258.6
50°	1409.4	1239.0	1098.6	966.3	856.0	747.8	641.5	557.3	473.1	372.9	274.7
47.5°	1555.7	1367.3	1190.8	1046.5	916.2	797.9	685.6	585.4	501.2	396.9	290.7
45°	1726.1	1489.6	1295.1	1124.7	974.3	850.0	729.7	615.5	525.3	421.0	306.7
42.5°	1890.5	1633.9	1403.3	1210.9	1040.5	900.1	769.8	647.5	549.3	445.1	320.8
40°	2085.0	1778.2	1507.6	1293.1	1106.6	948.3	809.9	681.6	571.4	467.1	334.8
37.5°	2271.4	1924.6	1633.9	1383.3	1170.8	996.4	850.0	713.7	591.4	489.2	352.8
35°	2455.9	2087.0	1754.2	1467.5	1236.9	1050.5	890.1	743.8	611.5	507.2	368.9
32.5°	2632.3	2239.3	1876.5	1561.7	1309.1	1100.6	926.2	771.8	631.5	523.2	384.9
30°	2796.7	2383.7	1996.8	1658.0	1375.3	1146.7	960.3	799.9	655.6	537.3	401.0
27.5°	2947.0	2524.0	2117.0	1748.2	1437.4	1188.8	996.4	826.0	675.6	551.3	415.0
25°	3083.4	2650.3	2227.3	1830.4	1493.6	1234.9	1030.5	852.0	693.7	563.3	427.0
22.5°	3211.7	2766.6	2327.5	1912.6	1561.7	1281.1	1062.5	876.1	711.7	575.4	439.0
20°	3323.9	2872.8	2423.8	1994.8	1621.9	1323.2	1090.6	898.1	727.7	583.4	451.1
17.5°	3414.1	2967.1	2510.0	2066.9	1674.0	1359.2	1114.7	918.2	741.8	593.4	459.1
15°	3494.3	3047.3	2582.2	2129.1	1720.1	1389.3	1136.7	934.2	753.8	599.4	469.1
12.5°	3562.5	3115.4	2644.3	2183.2	1760.2	1415.4	1154.8	946.3	763.8	605.4	475.1
10°	3618.6	3169.6	2696.4	2225.3	1792.3	1435.4	1168.8	958.3	771.8	611.5	481.1
7.5°	3660.7	3209.7	2734.5	2261.4	1818.3	1449.5	1180.8	966.3	779.9	615.5	491.2
5°	3692.8	3243.7	2764.6	2285.4	1838.4	1469.5	1194.8	976.3	787.9	619.5	491.2
2.5°	3716.9	3271.8	2788.6	2305.5	1854.4	1465.5	1194.8	974.3	787.9	619.5	489.2
0°	3712.9	3273.8	2786.6	2305.5	1854.4	1461.5	1194.8	972.3	787.9	619.5	489.2



REPORT NUMBER: P628299
 CATALOG NUMBER: IFLD-S-SA2E-750-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.0	10.0	4.0	0.0
85°	30.1	20.0	10.0	0.0
82.5°	44.1	28.1	14.0	0.0
80°	58.1	38.1	18.0	0.0
77.5°	74.2	48.1	24.1	0.0
75°	88.2	56.1	28.1	0.0
72.5°	102.2	66.2	32.1	0.0
70°	114.3	74.2	36.1	0.0
67.5°	126.3	84.2	42.1	0.0
65°	136.3	92.2	46.1	0.0
62.5°	144.3	102.2	50.1	0.0
60°	154.4	110.3	54.1	0.0
57.5°	162.4	116.3	58.1	0.0
55°	170.4	120.3	62.1	0.0
52.5°	178.4	126.3	66.2	0.0
50°	186.4	132.3	70.2	0.0
47.5°	194.5	136.3	72.2	0.0
45°	206.5	142.3	76.2	0.0
42.5°	216.5	146.3	80.2	0.0
40°	226.5	150.4	82.2	0.0
37.5°	236.6	154.4	86.2	0.0
35°	246.6	158.4	88.2	0.0
32.5°	254.6	162.4	90.2	0.0
30°	262.6	166.4	92.2	0.0
27.5°	270.6	168.4	94.2	0.0
25°	276.7	172.4	96.2	0.0
22.5°	282.7	174.4	98.2	0.0
20°	286.7	176.4	100.2	0.0
17.5°	292.7	178.4	102.2	0.0
15°	294.7	180.4	106.3	0.0
12.5°	298.7	182.4	106.3	0.0
10°	300.7	184.4	106.3	0.0
7.5°	304.7	184.4	106.3	0.0
5°	302.7	184.4	106.3	0.0
2.5°	302.7	184.4	106.3	0.0
0°	300.7	184.4	106.3	0.0

(END OF REPORT)