

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: P628302

Luminaire Tested: **IFLD-S-SA3C-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

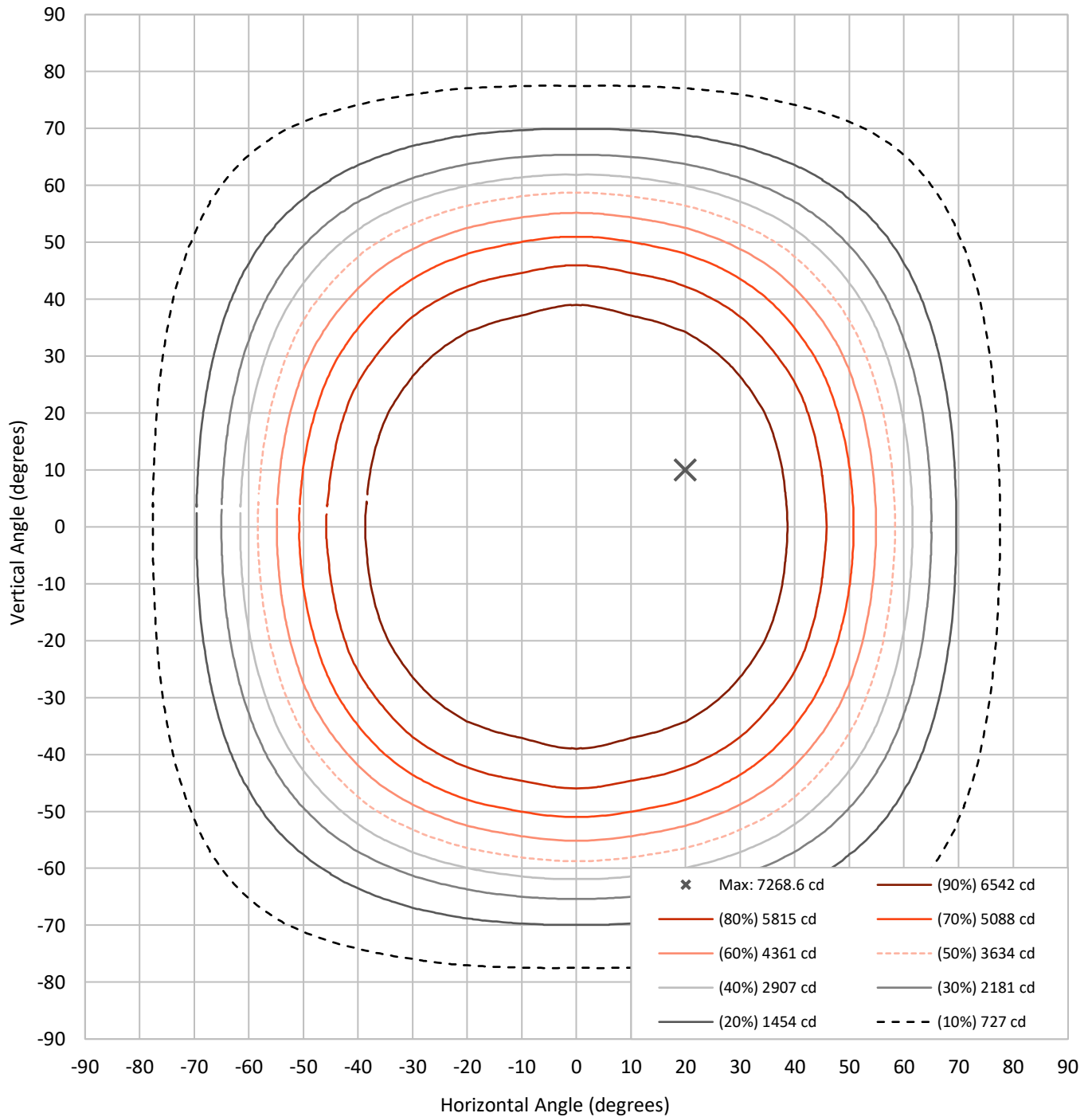
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22299.1 lumens	Max Intensity:	7268.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	138.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13683.2 lumens	Field Lumens:	16403.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	160.8		
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		



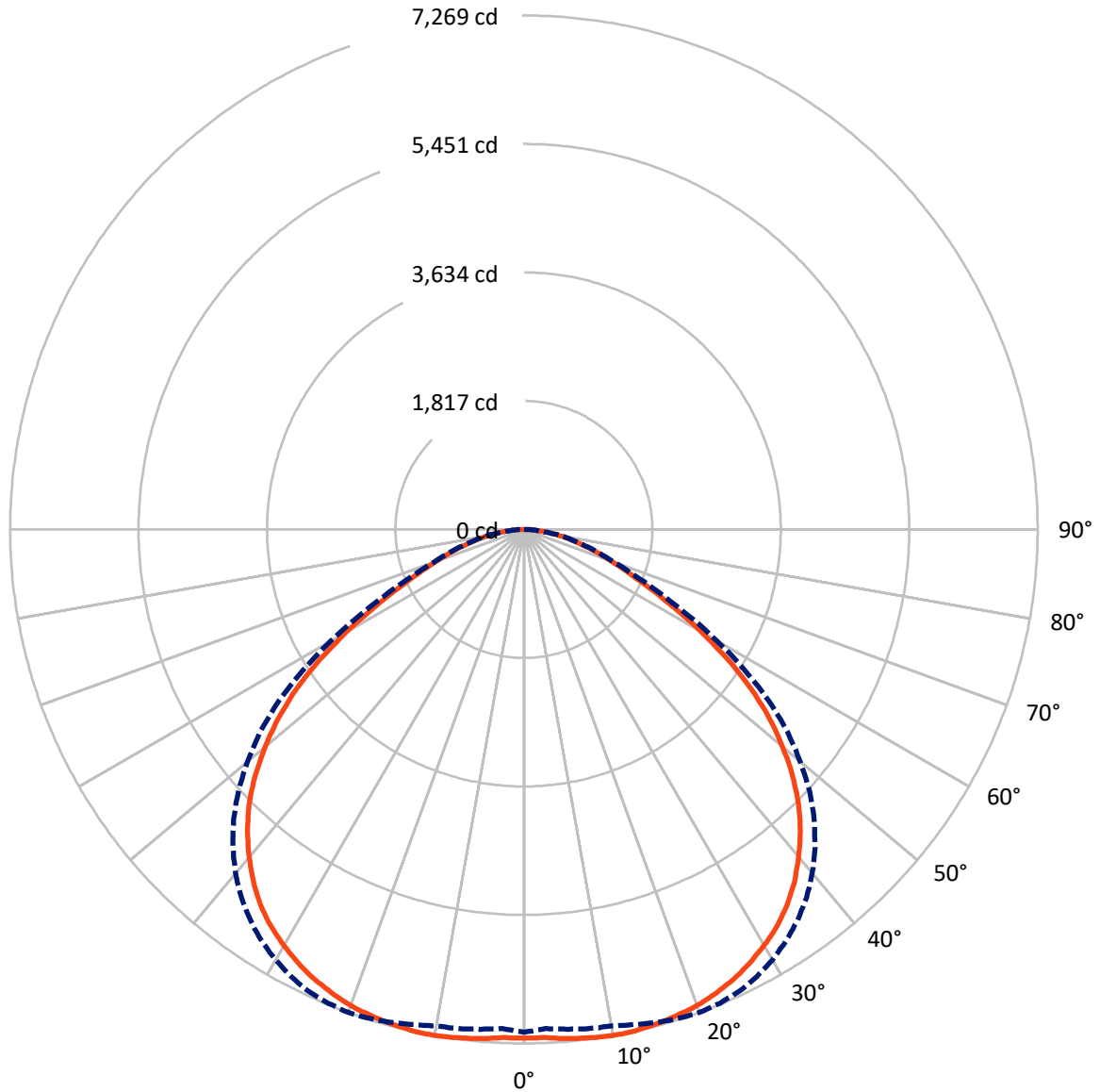
REPORT NUMBER: P628302
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Iso-Candela Plot



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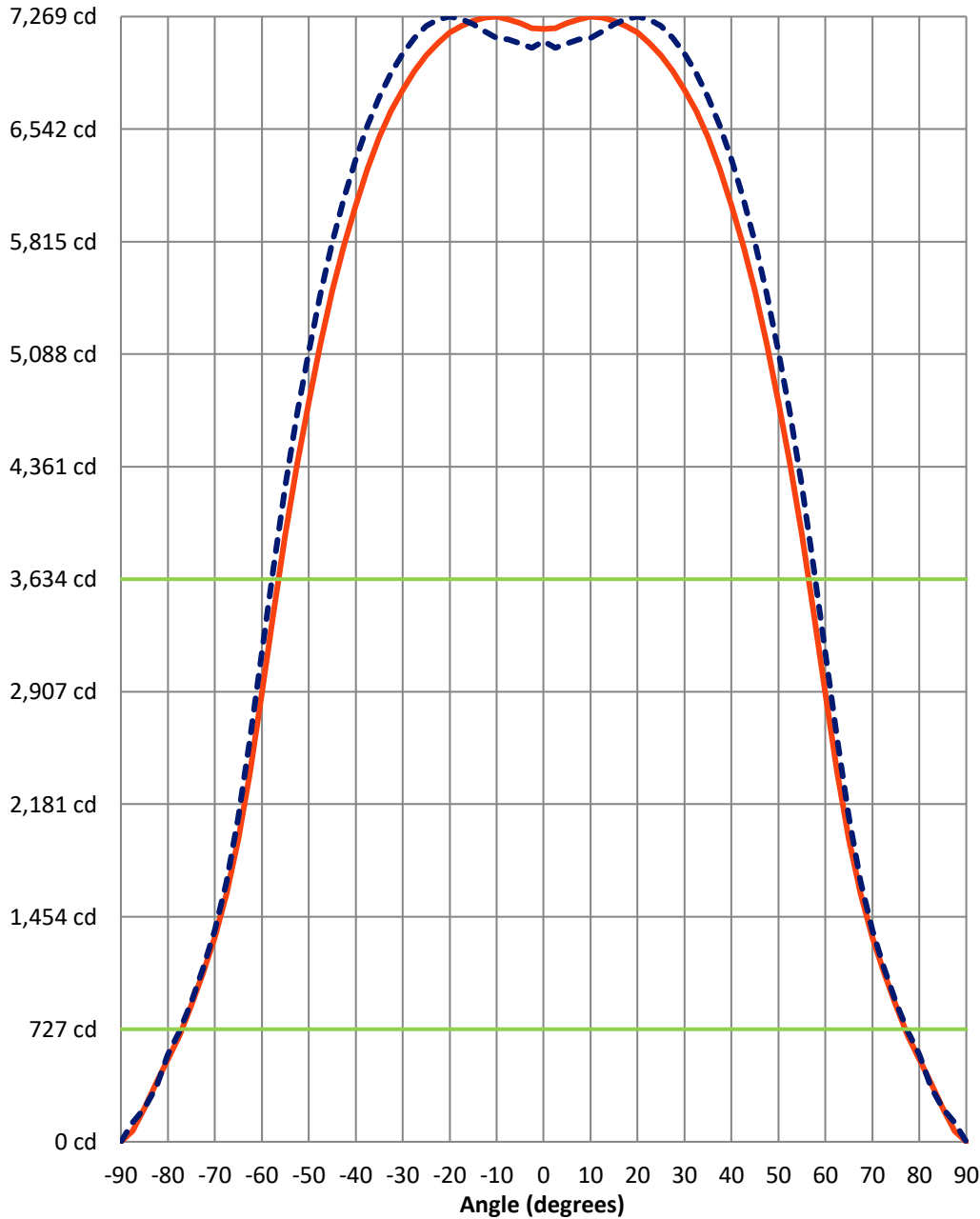
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 13683.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 16403.8
 Efficiency: 73.6%

Spill:
 Lumens: 5895.3
 Efficiency: 26.4%

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



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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°	58.7	63.3	65.7	68.0	70.4	72.7	75.1	72.7	70.4	70.4	68.0
85°	157.2	161.9	164.2	180.7	197.1	206.5	218.2	215.9	215.9	213.5	211.2
82.5°	314.4	328.5	340.2	356.6	366.0	380.1	389.5	382.4	377.7	368.4	361.3
80°	558.4	563.1	565.4	567.8	556.1	553.7	549.0	542.0	532.6	520.9	509.1
77.5°	710.9	715.6	720.3	715.6	713.3	710.9	703.9	696.8	687.4	678.1	664.0
75°	940.8	940.8	940.8	933.8	929.1	922.1	910.3	898.6	882.2	863.4	842.3
72.5°	1184.8	1182.5	1180.2	1166.1	1154.3	1140.3	1123.8	1109.8	1091.0	1069.9	1041.7
70°	1440.6	1445.3	1447.6	1428.9	1414.8	1396.0	1374.9	1349.1	1320.9	1290.4	1250.5
67.5°	1792.5	1787.8	1783.1	1757.3	1738.6	1712.7	1682.2	1644.7	1602.5	1555.5	1499.2
65°	2228.9	2236.0	2221.9	2196.1	2160.9	2118.6	2071.7	2017.8	1954.4	1884.0	1804.2
62.5°	2756.8	2768.5	2752.1	2719.3	2674.7	2618.4	2552.7	2475.3	2388.5	2289.9	2191.4
60°	3357.4	3355.1	3324.6	3280.0	3221.4	3151.0	3078.2	2993.8	2895.2	2780.3	2660.6
57.5°	3908.8	3904.1	3866.6	3822.0	3763.3	3688.3	3610.8	3521.7	3418.5	3296.4	3158.0
55°	4403.9	4399.2	4361.6	4314.7	4253.7	4178.6	4108.2	4023.8	3922.9	3793.8	3646.0
52.5°	4842.6	4845.0	4812.1	4760.5	4694.8	4622.1	4554.0	4469.6	4373.4	4244.3	4101.2
50°	5246.2	5243.8	5208.6	5161.7	5100.7	5030.3	4962.3	4877.8	4776.9	4652.6	4514.1
47.5°	5621.6	5616.9	5577.0	5525.4	5462.0	5401.0	5337.7	5262.6	5157.0	5032.7	4894.2
45°	5936.0	5926.6	5886.7	5837.4	5776.4	5722.4	5666.1	5609.8	5497.2	5382.2	5250.9
42.5°	6205.8	6203.4	6163.5	6114.3	6053.3	6006.3	5954.7	5884.3	5790.5	5684.9	5555.9
40°	6463.9	6445.1	6405.2	6358.3	6302.0	6262.1	6210.5	6140.1	6048.6	5945.3	5821.0
37.5°	6656.2	6658.6	6616.4	6564.7	6515.5	6477.9	6431.0	6365.3	6285.5	6184.7	6060.3
35°	6839.2	6827.5	6792.3	6747.7	6703.2	6660.9	6611.7	6555.4	6489.7	6395.8	6278.5
32.5°	6958.9	6975.3	6933.1	6886.2	6860.4	6827.5	6775.9	6717.2	6658.6	6564.7	6459.2
30°	7090.3	7076.2	7043.4	7003.5	6984.7	6963.6	6919.0	6862.7	6794.7	6710.2	6611.7
27.5°	7181.8	7174.8	7134.9	7097.3	7087.9	7069.2	7034.0	6984.7	6916.7	6834.6	6743.1
25°	7221.7	7226.4	7188.8	7167.7	7167.7	7156.0	7127.8	7085.6	7017.6	6942.5	6853.3
22.5°	7240.5	7235.8	7210.0	7205.3	7217.0	7207.6	7195.9	7158.3	7097.3	7036.3	6961.3
20°	7252.2	7219.3	7195.9	7214.6	7228.7	7226.4	7217.0	7193.5	7165.4	7113.8	7048.1
17.5°	7226.4	7205.3	7177.1	7205.3	7235.8	7238.1	7228.7	7214.6	7207.6	7174.8	7116.1
15°	7163.0	7146.6	7151.3	7179.5	7214.6	7226.4	7233.4	7249.8	7240.5	7214.6	7163.0
12.5°	7120.8	7099.7	7120.8	7148.9	7167.7	7174.8	7231.1	7261.6	7261.6	7238.1	7205.3
10°	7109.1	7066.8	7095.0	7120.8	7130.2	7172.4	7219.3	7252.2	7268.6	7249.8	7207.6
7.5°	7085.6	7057.4	7069.2	7080.9	7134.9	7165.4	7191.2	7226.4	7249.8	7247.5	7210.0
5°	7073.9	7038.7	7043.4	7092.6	7130.2	7151.3	7160.7	7191.2	7226.4	7233.4	7205.3
2.5°	7043.4	7026.9	7062.1	7066.8	7095.0	7111.4	7120.8	7148.9	7193.5	7210.0	7198.2
0°	7026.9	7003.5	6980.0	6998.8	7045.7	7080.9	7095.0	7137.2	7188.8	7205.3	7179.5



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 CATALOG NUMBER: IFLD-S-SA3C-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°	65.7	63.3	61.0	58.7	61.0	61.0	61.0	58.7	61.0	58.7	58.7
85°	204.1	194.7	187.7	178.3	168.9	161.9	152.5	143.1	140.8	138.4	133.7
82.5°	351.9	340.2	328.5	314.4	300.3	283.9	267.5	248.7	244.0	239.3	232.3
80°	495.1	478.6	462.2	445.8	431.7	415.3	396.5	375.4	361.3	349.6	335.5
77.5°	645.2	621.7	598.3	570.1	553.7	537.3	518.5	497.4	476.3	457.5	436.4
75°	816.5	790.7	767.2	739.1	708.6	678.1	647.6	619.4	588.9	560.7	532.6
72.5°	1006.5	969.0	931.5	896.3	858.7	821.2	781.3	743.8	706.2	668.7	628.8
70°	1206.0	1159.0	1112.1	1065.2	1015.9	966.6	919.7	872.8	825.9	776.6	732.0
67.5°	1440.6	1386.6	1325.6	1259.9	1187.2	1123.8	1062.8	1006.5	950.2	893.9	837.6
65°	1733.9	1658.8	1576.7	1487.5	1403.0	1318.6	1229.4	1145.0	1079.3	1013.6	950.2
62.5°	2095.2	1989.6	1874.6	1759.7	1656.4	1546.2	1442.9	1332.7	1229.4	1135.6	1058.1
60°	2526.9	2383.8	2243.0	2095.2	1952.1	1801.9	1670.5	1534.4	1405.4	1290.4	1177.8
57.5°	3003.2	2836.6	2667.7	2487.0	2292.3	2116.3	1938.0	1759.7	1607.2	1454.7	1328.0
55°	3486.5	3310.5	3120.5	2916.4	2702.9	2477.6	2236.0	2036.5	1827.7	1649.4	1485.2
52.5°	3946.4	3763.3	3566.3	3378.6	3122.8	2864.7	2599.6	2336.8	2092.8	1865.2	1665.8
50°	4356.9	4178.6	3988.6	3770.4	3533.4	3258.9	2963.3	2667.7	2379.1	2111.6	1862.9
47.5°	4732.3	4558.7	4368.7	4150.5	3934.6	3629.6	3331.6	3005.5	2684.1	2376.7	2085.8
45°	5084.3	4908.3	4711.2	4502.4	4253.7	3981.5	3674.2	3345.7	3000.8	2655.9	2320.4
42.5°	5403.4	5227.4	5028.0	4812.1	4565.8	4295.9	3998.0	3667.2	3319.9	2944.5	2576.2
40°	5682.6	5511.3	5318.9	5093.7	4863.7	4579.8	4286.6	3972.2	3613.2	3235.4	2829.5
37.5°	5926.6	5767.0	5577.0	5354.1	5110.1	4856.7	4554.0	4239.6	3915.9	3505.3	3090.0
35°	6142.4	5994.6	5799.9	5588.7	5349.4	5081.9	4798.0	4490.7	4141.1	3756.3	3352.8
32.5°	6330.1	6180.0	6001.6	5790.5	5558.2	5307.2	5016.2	4706.5	4375.7	3983.9	3545.1
30°	6489.7	6344.2	6175.3	5975.8	5752.9	5504.2	5220.4	4908.3	4570.4	4181.0	3746.9
27.5°	6628.1	6489.7	6325.4	6140.1	5926.6	5687.3	5401.0	5086.6	4741.7	4366.3	3932.3
25°	6747.7	6614.0	6461.5	6285.5	6074.4	5839.8	5569.9	5241.5	4896.6	4518.8	4089.5
22.5°	6855.7	6726.6	6574.1	6402.9	6210.5	5975.8	5703.7	5377.5	5028.0	4654.9	4232.6
20°	6951.9	6832.2	6682.1	6506.1	6313.7	6076.7	5806.9	5497.2	5145.3	4779.3	4361.6
17.5°	7029.3	6923.7	6773.6	6588.2	6395.8	6165.9	5903.1	5619.2	5246.2	4884.8	4469.6
15°	7083.3	6980.0	6843.9	6656.2	6468.5	6241.0	5978.2	5684.9	5337.7	4969.3	4558.7
12.5°	7120.8	7010.5	6883.8	6710.2	6522.5	6297.3	6041.5	5752.9	5415.1	5044.4	4636.1
10°	7130.2	7029.3	6902.6	6747.7	6564.7	6346.5	6095.5	5809.3	5478.4	5103.0	4699.5
7.5°	7134.9	7038.7	6923.7	6775.9	6595.2	6384.1	6135.4	5853.8	5525.4	5152.3	4746.4
5°	7132.5	7041.0	6937.8	6794.7	6614.0	6405.2	6161.2	5884.3	5558.2	5185.2	4781.6
2.5°	7125.5	7043.4	6947.2	6808.7	6635.1	6428.7	6187.0	5919.5	5593.4	5213.3	4809.8
0°	7144.3	7073.9	6951.9	6804.1	6639.8	6428.7	6184.7	5924.2	5598.1	5211.0	4807.4



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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°	58.7	56.3	56.3	54.0	51.6	49.3	44.6	42.2	37.5	30.5	23.5
85°	126.7	119.7	112.6	107.9	103.2	98.5	91.5	84.5	75.1	61.0	46.9
82.5°	222.9	208.8	194.7	178.3	164.2	150.2	138.4	126.7	112.6	91.5	70.4
80°	319.1	298.0	276.9	253.4	232.3	208.8	187.7	168.9	150.2	122.0	93.8
77.5°	415.3	387.1	356.6	328.5	298.0	267.5	237.0	211.2	183.0	150.2	117.3
75°	504.4	471.6	443.4	403.6	366.0	326.1	286.2	251.0	215.9	176.0	140.8
72.5°	593.6	551.4	511.5	473.9	431.7	382.4	337.9	293.3	248.7	201.8	159.5
70°	682.8	631.1	581.9	537.3	490.4	441.1	387.1	335.5	281.5	225.2	176.0
67.5°	774.3	715.6	659.3	603.0	549.0	492.7	436.4	377.7	314.4	248.7	194.7
65°	875.1	802.4	734.4	671.0	607.7	546.7	483.3	420.0	349.6	274.5	211.2
62.5°	976.0	896.3	816.5	736.7	666.3	598.3	530.2	459.9	382.4	302.7	227.6
60°	1084.0	992.5	901.0	811.8	725.0	649.9	574.8	499.7	417.6	328.5	244.0
57.5°	1203.6	1093.3	990.1	889.2	790.7	701.5	619.4	539.6	448.1	354.3	262.8
55°	1339.7	1203.6	1081.6	969.0	861.1	753.1	664.0	581.9	483.3	380.1	283.9
52.5°	1482.8	1325.6	1177.8	1051.1	936.1	814.1	706.2	614.7	518.5	405.9	302.7
50°	1649.4	1450.0	1285.7	1130.9	1001.8	875.1	750.8	652.3	553.7	436.4	321.4
47.5°	1820.7	1600.1	1393.7	1224.7	1072.2	933.8	802.4	685.1	586.6	464.6	340.2
45°	2020.1	1743.2	1515.7	1316.2	1140.3	994.8	854.0	720.3	614.7	492.7	359.0
42.5°	2212.5	1912.2	1642.4	1417.1	1217.7	1053.5	901.0	757.8	642.9	520.9	375.4
40°	2440.1	2081.1	1764.4	1513.3	1295.1	1109.8	947.9	797.7	668.7	546.7	391.8
37.5°	2658.3	2252.4	1912.2	1618.9	1370.2	1166.1	994.8	835.3	692.1	572.5	412.9
35°	2874.1	2442.4	2052.9	1717.4	1447.6	1229.4	1041.7	870.4	715.6	593.6	431.7
32.5°	3080.6	2620.7	2196.1	1827.7	1532.1	1288.1	1084.0	903.3	739.1	612.4	450.5
30°	3273.0	2789.7	2336.8	1940.3	1609.5	1342.0	1123.8	936.1	767.2	628.8	469.2
27.5°	3449.0	2953.9	2477.6	2045.9	1682.2	1391.3	1166.1	966.6	790.7	645.2	485.7
25°	3608.5	3101.7	2606.7	2142.1	1747.9	1445.3	1206.0	997.1	811.8	659.3	499.7
22.5°	3758.7	3237.8	2724.0	2238.3	1827.7	1499.2	1243.5	1025.3	832.9	673.4	513.8
20°	3890.0	3362.1	2836.6	2334.5	1898.1	1548.5	1276.3	1051.1	851.7	682.8	527.9
17.5°	3995.6	3472.4	2937.5	2419.0	1959.1	1590.7	1304.5	1074.6	868.1	694.5	537.3
15°	4089.5	3566.3	3021.9	2491.7	2013.1	1625.9	1330.3	1093.3	882.2	701.5	549.0
12.5°	4169.2	3646.0	3094.7	2555.0	2060.0	1656.4	1351.4	1107.4	893.9	708.6	556.1
10°	4234.9	3709.4	3155.7	2604.3	2097.5	1679.9	1367.8	1121.5	903.3	715.6	563.1
7.5°	4284.2	3756.3	3200.3	2646.5	2128.0	1696.3	1381.9	1130.9	912.7	720.3	574.8
5°	4321.7	3796.2	3235.4	2674.7	2151.5	1719.8	1398.4	1142.6	922.1	725.0	574.8
2.5°	4349.9	3829.0	3263.6	2698.2	2170.3	1715.1	1398.4	1140.3	922.1	725.0	572.5
0°	4345.2	3831.4	3261.3	2698.2	2170.3	1710.4	1398.4	1137.9	922.1	725.0	572.5



REPORT NUMBER: P628302
 CATALOG NUMBER: IFLD-S-SA3C-750-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.4	11.7	4.7	0.0
85°	35.2	23.5	11.7	0.0
82.5°	51.6	32.8	16.4	0.0
80°	68.0	44.6	21.1	0.0
77.5°	86.8	56.3	28.2	0.0
75°	103.2	65.7	32.8	0.0
72.5°	119.7	77.4	37.5	0.0
70°	133.7	86.8	42.2	0.0
67.5°	147.8	98.5	49.3	0.0
65°	159.5	107.9	54.0	0.0
62.5°	168.9	119.7	58.7	0.0
60°	180.7	129.0	63.3	0.0
57.5°	190.0	136.1	68.0	0.0
55°	199.4	140.8	72.7	0.0
52.5°	208.8	147.8	77.4	0.0
50°	218.2	154.9	82.1	0.0
47.5°	227.6	159.5	84.5	0.0
45°	241.7	166.6	89.2	0.0
42.5°	253.4	171.3	93.8	0.0
40°	265.1	176.0	96.2	0.0
37.5°	276.9	180.7	100.9	0.0
35°	288.6	185.4	103.2	0.0
32.5°	298.0	190.0	105.6	0.0
30°	307.4	194.7	107.9	0.0
27.5°	316.7	197.1	110.3	0.0
25°	323.8	201.8	112.6	0.0
22.5°	330.8	204.1	115.0	0.0
20°	335.5	206.5	117.3	0.0
17.5°	342.5	208.8	119.7	0.0
15°	344.9	211.2	124.3	0.0
12.5°	349.6	213.5	124.3	0.0
10°	351.9	215.9	124.3	0.0
7.5°	356.6	215.9	124.3	0.0
5°	354.3	215.9	124.3	0.0
2.5°	354.3	215.9	124.3	0.0
0°	351.9	215.9	124.3	0.0

(END OF REPORT)