

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: P628308

Luminaire Tested: **IFLD-S-SA6D-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	48133.2 lumens	Max Intensity:	15689.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	130.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

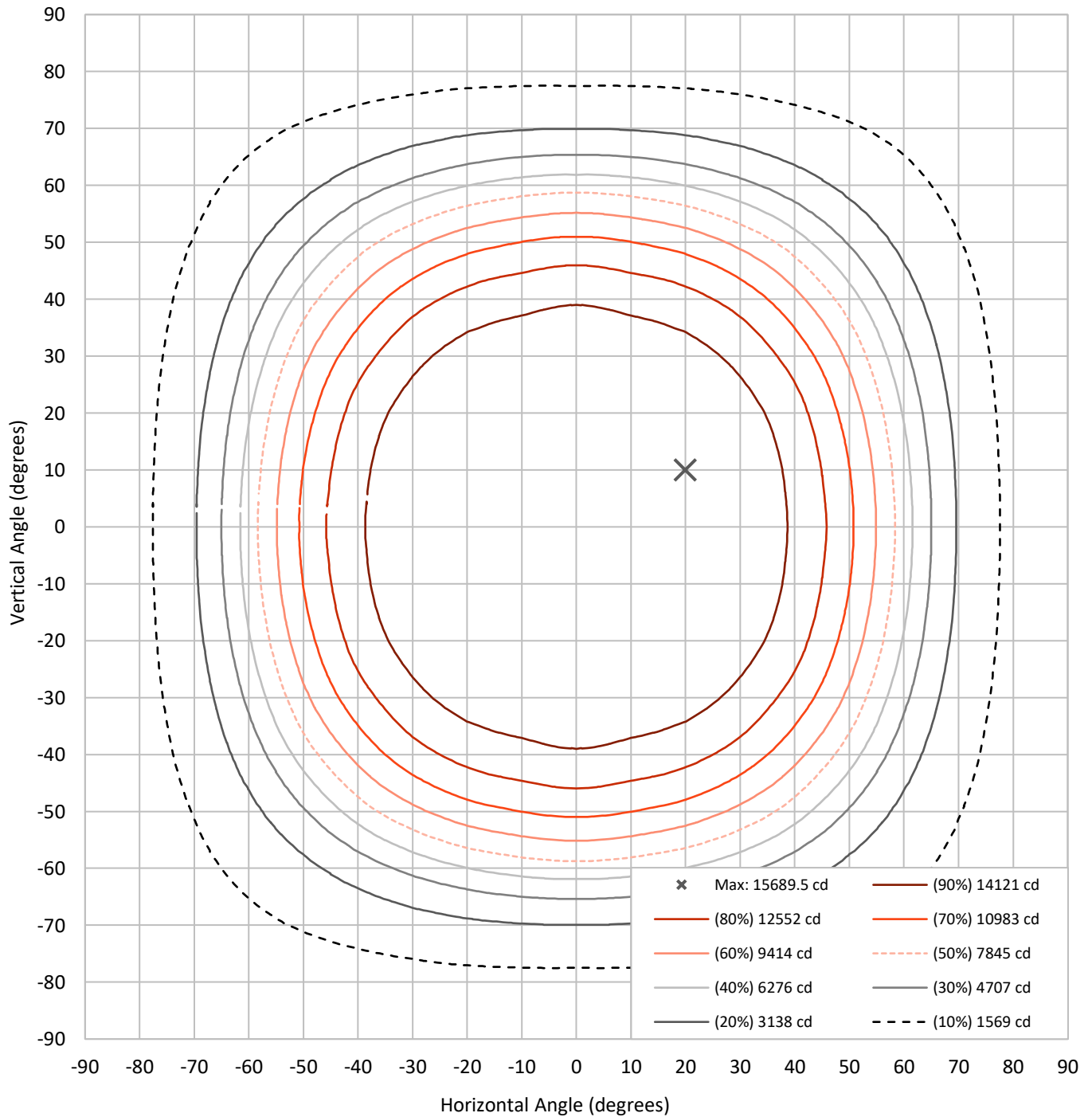
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	29535.5 lumens	Field Lumens:	35408 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2
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



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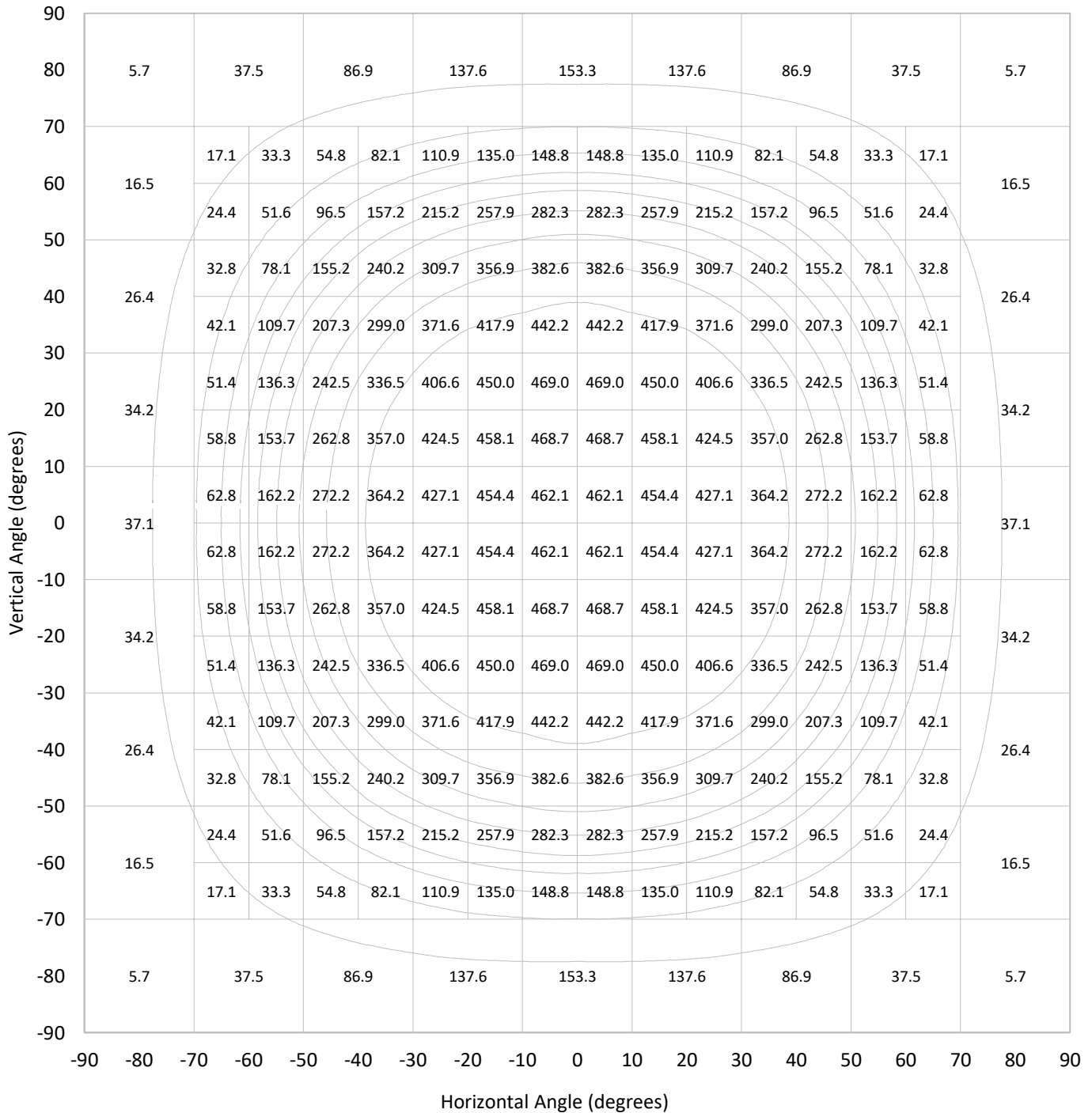
Iso-Candela Plot





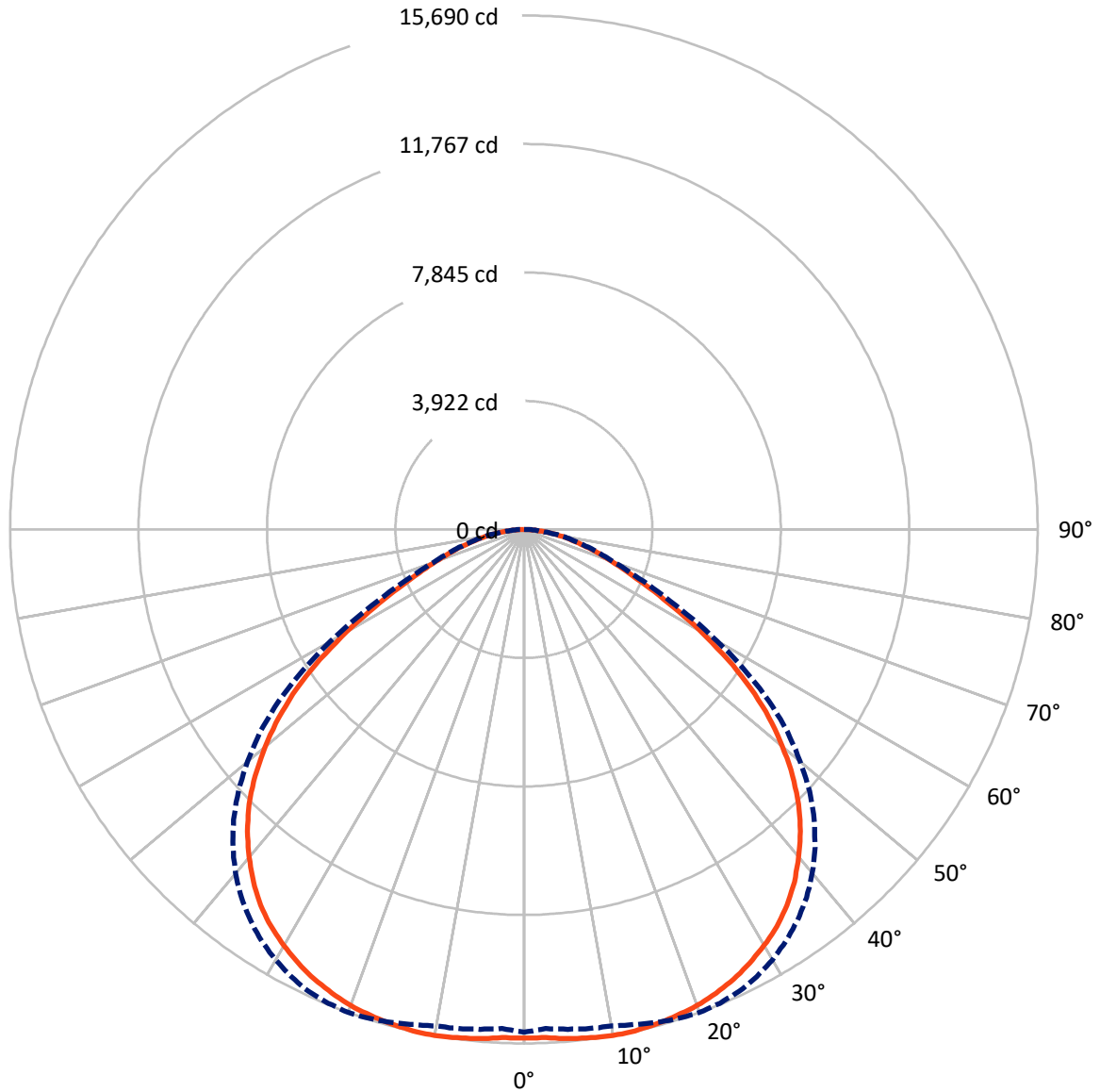
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Lumen Table



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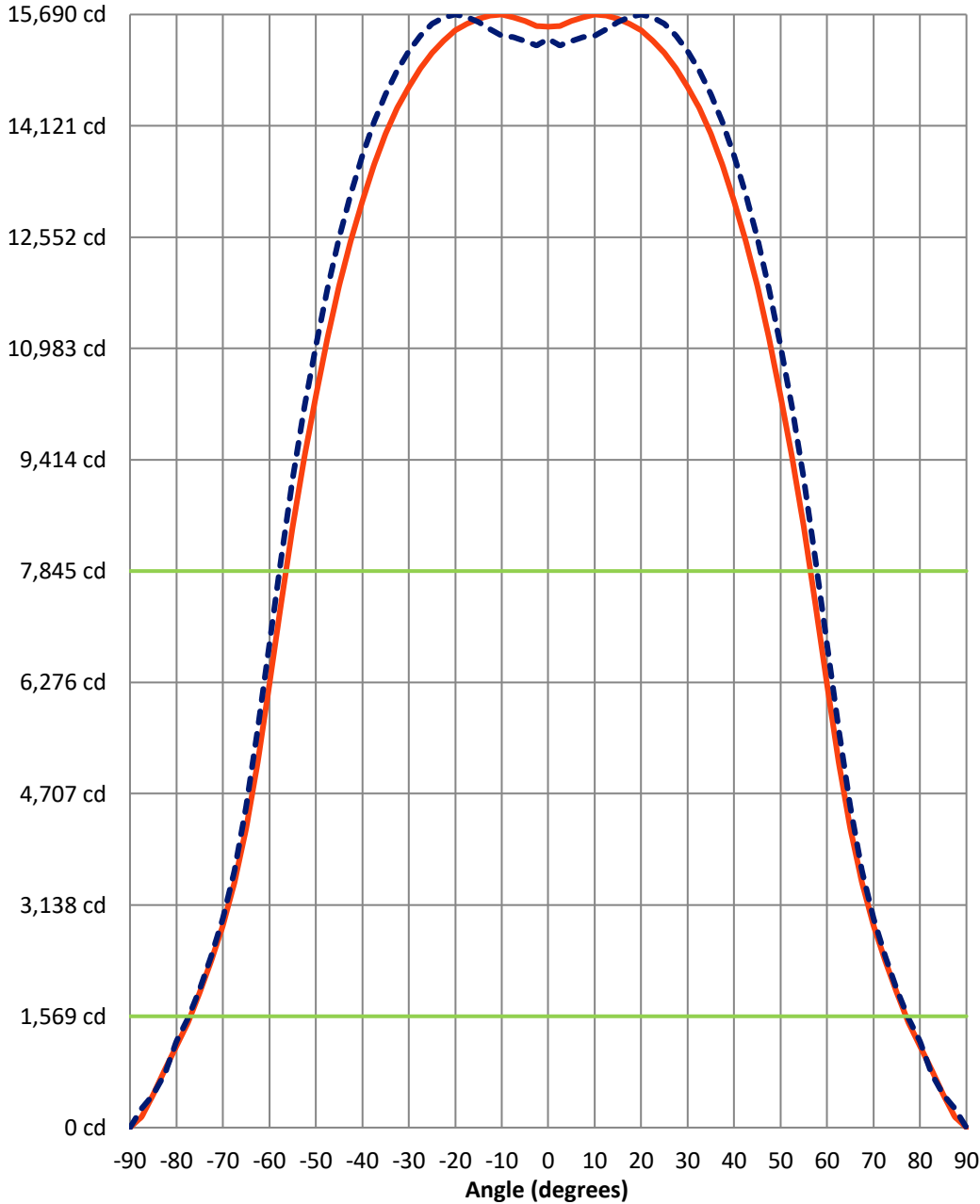
Luminous Intensity Polar Plot



— 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: 29535.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 35408
 Efficiency: 73.6%

Spill:
 Lumens: 12725.1
 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°	126.6	136.7	141.8	146.9	151.9	157.0	162.1	157.0	151.9	151.9	146.9
85°	339.3	349.4	354.5	390.0	425.4	445.7	471.0	465.9	465.9	460.9	455.8
82.5°	678.6	709.0	734.3	769.8	790.0	820.4	840.7	825.5	815.4	795.1	779.9
80°	1205.3	1215.5	1220.5	1225.6	1200.3	1195.2	1185.1	1169.9	1149.6	1124.3	1099.0
77.5°	1534.5	1544.6	1554.8	1544.6	1539.6	1534.5	1519.3	1504.1	1483.9	1463.6	1433.2
75°	2030.8	2030.8	2030.8	2015.6	2005.5	1990.3	1965.0	1939.7	1904.2	1863.7	1818.1
72.5°	2557.5	2552.5	2547.4	2517.0	2491.7	2461.3	2425.8	2395.5	2354.9	2309.4	2248.6
70°	3109.5	3119.7	3124.7	3084.2	3053.8	3013.3	2967.7	2912.0	2851.3	2785.4	2699.3
67.5°	3869.2	3859.1	3848.9	3793.2	3752.7	3697.0	3631.2	3550.1	3459.0	3357.7	3236.1
65°	4811.2	4826.4	4796.0	4740.3	4664.3	4573.1	4471.9	4355.4	4218.6	4066.7	3894.5
62.5°	5950.7	5976.0	5940.5	5869.6	5773.4	5651.9	5510.1	5342.9	5155.5	4942.8	4730.1
60°	7247.1	7242.1	7176.2	7080.0	6953.4	6801.5	6644.5	6462.2	6249.5	6001.3	5743.0
57.5°	8437.3	8427.1	8346.1	8249.9	8123.3	7961.2	7794.1	7601.6	7378.8	7115.5	6816.7
55°	9505.9	9495.7	9414.7	9313.4	9181.7	9019.7	8867.7	8685.4	8467.7	8189.1	7870.1
52.5°	10452.9	10458.0	10387.1	10275.6	10133.8	9976.8	9830.0	9647.7	9440.0	9161.5	8852.5
50°	11324.0	11318.9	11242.9	11141.7	11010.0	10858.0	10711.2	10528.9	10311.1	10042.7	9743.9
47.5°	12134.3	12124.1	12038.0	11926.6	11789.9	11658.2	11521.5	11359.4	11131.5	10863.1	10564.3
45°	12812.9	12792.6	12706.5	12600.2	12468.5	12352.0	12230.5	12109.0	11865.9	11617.7	11334.1
42.5°	13395.3	13390.2	13304.1	13197.8	13066.1	12964.8	12853.4	12701.5	12498.9	12271.0	11992.5
40°	13952.4	13911.9	13825.8	13724.5	13602.9	13516.9	13405.4	13253.5	13056.0	12833.2	12564.7
37.5°	14367.7	14372.7	14281.6	14170.2	14063.8	13982.8	13881.5	13739.7	13567.5	13349.7	13081.3
35°	14762.7	14737.4	14661.4	14565.2	14469.0	14377.8	14271.4	14149.9	14008.1	13805.5	13552.3
32.5°	15021.0	15056.4	14965.3	14864.0	14808.3	14737.4	14626.0	14499.3	14372.7	14170.2	13942.3
30°	15304.6	15274.2	15203.3	15117.2	15076.7	15031.1	14934.9	14813.3	14666.5	14484.1	14271.4
27.5°	15502.1	15486.9	15400.8	15319.8	15299.5	15259.0	15183.0	15076.7	14929.8	14752.6	14555.1
25°	15588.2	15598.3	15517.3	15471.7	15471.7	15446.4	15385.6	15294.5	15147.6	14985.5	14793.1
22.5°	15628.7	15618.6	15562.9	15552.7	15578.1	15557.8	15532.5	15451.4	15319.8	15188.1	15026.0
20°	15654.0	15583.1	15532.5	15573.0	15603.4	15598.3	15578.1	15527.4	15466.6	15355.2	15213.4
17.5°	15598.3	15552.7	15492.0	15552.7	15618.6	15623.6	15603.4	15573.0	15557.8	15486.9	15360.3
15°	15461.6	15426.1	15436.3	15497.0	15573.0	15598.3	15613.5	15649.0	15628.7	15573.0	15461.6
12.5°	15370.4	15324.8	15370.4	15431.2	15471.7	15486.9	15608.4	15674.3	15674.3	15623.6	15552.7
10°	15345.1	15253.9	15314.7	15370.4	15390.7	15481.8	15583.1	15654.0	15689.5	15649.0	15557.8
7.5°	15294.5	15233.7	15259.0	15284.3	15400.8	15466.6	15522.3	15598.3	15649.0	15643.9	15562.9
5°	15269.1	15193.2	15203.3	15309.6	15390.7	15436.3	15456.5	15522.3	15598.3	15613.5	15552.7
2.5°	15203.3	15167.8	15243.8	15253.9	15314.7	15350.2	15370.4	15431.2	15527.4	15562.9	15537.5
0°	15167.8	15117.2	15066.6	15107.1	15208.4	15284.3	15314.7	15405.9	15517.3	15552.7	15497.0



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 CATALOG NUMBER: IFLD-S-SA6D-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°	141.8	136.7	131.7	126.6	131.7	131.7	131.7	126.6	131.7	126.6	126.6
85°	440.6	420.3	405.2	384.9	364.6	349.4	329.2	308.9	303.9	298.8	288.7
82.5°	759.7	734.3	709.0	678.6	648.2	612.8	577.3	536.8	526.7	516.6	501.4
80°	1068.6	1033.1	997.7	962.2	931.8	896.4	855.9	810.3	779.9	754.6	724.2
77.5°	1392.7	1342.1	1291.4	1230.6	1195.2	1159.7	1119.2	1073.7	1028.1	987.6	942.0
75°	1762.4	1706.7	1656.1	1595.3	1529.4	1463.6	1397.8	1337.0	1271.2	1210.4	1149.6
72.5°	2172.6	2091.6	2010.6	1934.6	1853.6	1772.5	1686.4	1605.4	1524.4	1443.4	1357.3
70°	2603.1	2501.8	2400.5	2299.2	2192.9	2086.5	1985.2	1884.0	1782.7	1676.3	1580.1
67.5°	3109.5	2993.1	2861.4	2719.6	2562.6	2425.8	2294.2	2172.6	2051.1	1929.5	1808.0
65°	3742.6	3580.5	3403.3	3210.8	3028.5	2846.2	2653.7	2471.4	2329.6	2187.8	2051.1
62.5°	4522.5	4294.6	4046.4	3798.3	3575.5	3337.4	3114.6	2876.6	2653.7	2451.2	2284.0
60°	5454.3	5145.4	4841.6	4522.5	4213.6	3889.4	3605.8	3312.1	3033.6	2785.4	2542.3
57.5°	6482.4	6122.8	5758.2	5368.3	4947.9	4568.1	4183.2	3798.3	3469.1	3139.9	2866.4
55°	7525.7	7145.9	6735.6	6295.0	5834.2	5348.0	4826.4	4395.9	3945.2	3560.3	3205.8
52.5°	8518.3	8123.3	7697.9	7292.7	6740.7	6183.6	5611.3	5044.1	4517.4	4026.2	3595.7
50°	9404.6	9019.7	8609.5	8138.5	7627.0	7034.4	6396.3	5758.2	5135.3	4557.9	4021.1
47.5°	10214.9	9840.1	9429.9	8958.9	8493.0	7834.6	7191.4	6487.5	5793.7	5130.2	4502.2
45°	10974.5	10594.7	10169.3	9718.6	9181.7	8594.3	7930.8	7221.8	6477.4	5732.9	5008.7
42.5°	11663.3	11283.5	10853.0	10387.1	9855.3	9272.9	8629.7	7915.6	7166.1	6355.8	5560.7
40°	12265.9	11896.2	11481.0	10994.8	10498.5	9885.7	9252.6	8574.0	7799.2	6983.8	6107.7
37.5°	12792.6	12448.3	12038.0	11556.9	11030.2	10483.3	9830.0	9151.3	8452.5	7566.2	6669.8
35°	13258.6	12939.5	12519.2	12063.4	11546.8	10969.5	10356.7	9693.2	8938.6	8108.1	7237.0
32.5°	13663.7	13339.6	12954.7	12498.9	11997.5	11455.6	10827.7	10159.2	9445.1	8599.3	7652.3
30°	14008.1	13694.1	13329.5	12899.0	12417.9	11881.1	11268.3	10594.7	9865.4	9024.7	8087.8
27.5°	14306.9	14008.1	13653.6	13253.5	12792.6	12276.1	11658.2	10979.6	10235.1	9424.8	8487.9
25°	14565.2	14276.5	13947.3	13567.5	13111.7	12605.3	12022.9	11313.8	10569.4	9754.0	8827.2
22.5°	14798.1	14519.6	14190.4	13820.7	13405.4	12899.0	12311.5	11607.6	10853.0	10047.7	9136.2
20°	15005.8	14747.5	14423.4	14043.5	13628.3	13116.8	12534.4	11865.9	11106.2	10316.2	9414.7
17.5°	15172.9	14945.0	14620.9	14220.8	13805.5	13309.2	12742.0	12129.2	11324.0	10544.1	9647.7
15°	15289.4	15066.6	14772.8	14367.7	13962.5	13471.3	12904.1	12271.0	11521.5	10726.4	9840.1
12.5°	15370.4	15132.4	14858.9	14484.1	14079.0	13592.8	13040.8	12417.9	11688.6	10888.4	10007.2
10°	15390.7	15172.9	14899.4	14565.2	14170.2	13699.2	13157.3	12539.4	11825.3	11015.0	10144.0
7.5°	15400.8	15193.2	14945.0	14626.0	14236.0	13780.2	13243.4	12635.6	11926.6	11121.4	10245.3
5°	15395.7	15198.2	14975.4	14666.5	14276.5	13825.8	13299.1	12701.5	11997.5	11192.3	10321.2
2.5°	15380.5	15203.3	14995.7	14696.9	14322.1	13876.4	13354.8	12777.5	12073.5	11253.1	10382.0
0°	15421.1	15269.1	15005.8	14686.7	14332.2	13876.4	13349.7	12787.6	12083.6	11248.0	10376.9



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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°	126.6	121.5	121.5	116.5	111.4	106.4	96.2	91.2	81.0	65.8	50.6
85°	273.5	258.3	243.1	233.0	222.8	212.7	197.5	182.3	162.1	131.7	101.3
82.5°	481.1	450.7	420.3	384.9	354.5	324.1	298.8	273.5	243.1	197.5	151.9
80°	688.8	643.2	597.6	547.0	501.4	450.7	405.2	364.6	324.1	263.3	202.6
77.5°	896.4	835.6	769.8	709.0	643.2	577.3	511.5	455.8	395.0	324.1	253.2
75°	1088.8	1017.9	957.2	871.1	790.0	703.9	617.9	541.9	465.9	379.8	303.9
72.5°	1281.3	1190.1	1104.0	1023.0	931.8	825.5	729.3	633.0	536.8	435.5	344.4
70°	1473.7	1362.3	1256.0	1159.7	1058.5	952.1	835.6	724.2	607.7	486.2	379.8
67.5°	1671.2	1544.6	1423.1	1301.5	1185.1	1063.5	942.0	815.4	678.6	536.8	420.3
65°	1889.0	1732.0	1585.2	1448.4	1311.7	1180.0	1043.3	906.5	754.6	592.5	455.8
62.5°	2106.8	1934.6	1762.4	1590.2	1438.3	1291.4	1144.6	992.6	825.5	653.3	491.2
60°	2339.7	2142.2	1944.7	1752.3	1564.9	1402.8	1240.8	1078.7	901.5	709.0	526.7
57.5°	2598.0	2360.0	2137.2	1919.4	1706.7	1514.3	1337.0	1164.8	967.3	764.7	567.2
55°	2891.8	2598.0	2334.7	2091.6	1858.6	1625.7	1433.2	1256.0	1043.3	820.4	612.8
52.5°	3200.7	2861.4	2542.3	2268.8	2020.7	1757.3	1524.4	1326.9	1119.2	876.1	653.3
50°	3560.3	3129.8	2775.3	2441.0	2162.5	1889.0	1620.6	1407.9	1195.2	942.0	693.8
47.5°	3930.0	3453.9	3008.2	2643.6	2314.4	2015.6	1732.0	1478.8	1266.1	1002.7	734.3
45°	4360.4	3762.8	3271.6	2841.1	2461.3	2147.3	1843.4	1554.8	1326.9	1063.5	774.9
42.5°	4775.7	4127.5	3545.1	3058.9	2628.4	2273.9	1944.7	1635.8	1387.6	1124.3	810.3
40°	5267.0	4492.1	3808.4	3266.5	2795.5	2395.5	2046.0	1721.9	1443.4	1180.0	845.8
37.5°	5738.0	4861.8	4127.5	3494.4	2957.6	2517.0	2147.3	1802.9	1494.0	1235.7	891.3
35°	6203.9	5272.0	4431.3	3707.1	3124.7	2653.7	2248.6	1878.9	1544.6	1281.3	931.8
32.5°	6649.5	5656.9	4740.3	3945.2	3307.0	2780.3	2339.7	1949.8	1595.3	1321.8	972.4
30°	7064.8	6021.6	5044.1	4188.2	3474.2	2896.8	2425.8	2020.7	1656.1	1357.3	1012.9
27.5°	7444.7	6376.1	5348.0	4416.1	3631.2	3003.2	2517.0	2086.5	1706.7	1392.7	1048.3
25°	7789.0	6695.1	5626.5	4623.8	3773.0	3119.7	2603.1	2152.4	1752.3	1423.1	1078.7
22.5°	8113.1	6988.9	5879.8	4831.4	3945.2	3236.1	2684.1	2213.1	1797.9	1453.5	1109.1
20°	8396.8	7257.3	6122.8	5039.1	4097.1	3342.5	2755.0	2268.8	1838.4	1473.7	1139.5
17.5°	8624.7	7495.3	6340.6	5221.4	4228.8	3433.7	2815.8	2319.5	1873.8	1499.1	1159.7
15°	8827.2	7697.9	6522.9	5378.4	4345.2	3509.6	2871.5	2360.0	1904.2	1514.3	1185.1
12.5°	8999.4	7870.1	6679.9	5515.1	4446.5	3575.5	2917.1	2390.4	1929.5	1529.4	1200.3
10°	9141.2	8006.8	6811.6	5621.5	4527.6	3626.1	2952.5	2420.8	1949.8	1544.6	1215.5
7.5°	9247.6	8108.1	6907.8	5712.6	4593.4	3661.6	2982.9	2441.0	1970.0	1554.8	1240.8
5°	9328.6	8194.2	6983.8	5773.4	4644.0	3712.2	3018.4	2466.4	1990.3	1564.9	1240.8
2.5°	9389.4	8265.1	7044.6	5824.0	4684.6	3702.1	3018.4	2461.3	1990.3	1564.9	1235.7
0°	9379.2	8270.1	7039.5	5824.0	4684.6	3691.9	3018.4	2456.2	1990.3	1564.9	1235.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	35.5	25.3	10.1	0.0
85°	76.0	50.6	25.3	0.0
82.5°	111.4	70.9	35.5	0.0
80°	146.9	96.2	45.6	0.0
77.5°	187.4	121.5	60.8	0.0
75°	222.8	141.8	70.9	0.0
72.5°	258.3	167.1	81.0	0.0
70°	288.7	187.4	91.2	0.0
67.5°	319.1	212.7	106.4	0.0
65°	344.4	233.0	116.5	0.0
62.5°	364.6	258.3	126.6	0.0
60°	390.0	278.5	136.7	0.0
57.5°	410.2	293.7	146.9	0.0
55°	430.5	303.9	157.0	0.0
52.5°	450.7	319.1	167.1	0.0
50°	471.0	334.2	177.3	0.0
47.5°	491.2	344.4	182.3	0.0
45°	521.6	359.6	192.4	0.0
42.5°	547.0	369.7	202.6	0.0
40°	572.3	379.8	207.6	0.0
37.5°	597.6	390.0	217.8	0.0
35°	622.9	400.1	222.8	0.0
32.5°	643.2	410.2	227.9	0.0
30°	663.4	420.3	233.0	0.0
27.5°	683.7	425.4	238.0	0.0
25°	698.9	435.5	243.1	0.0
22.5°	714.1	440.6	248.2	0.0
20°	724.2	445.7	253.2	0.0
17.5°	739.4	450.7	258.3	0.0
15°	744.5	455.8	268.4	0.0
12.5°	754.6	460.9	268.4	0.0
10°	759.7	465.9	268.4	0.0
7.5°	769.8	465.9	268.4	0.0
5°	764.7	465.9	268.4	0.0
2.5°	764.7	465.9	268.4	0.0
0°	759.7	465.9	268.4	0.0

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