

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: P623967

Luminaire Tested: **IFLD-S-SA6B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 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:	35448 lumens	Max Intensity:	19687.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15338 lumens	Field Lumens:	25115.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

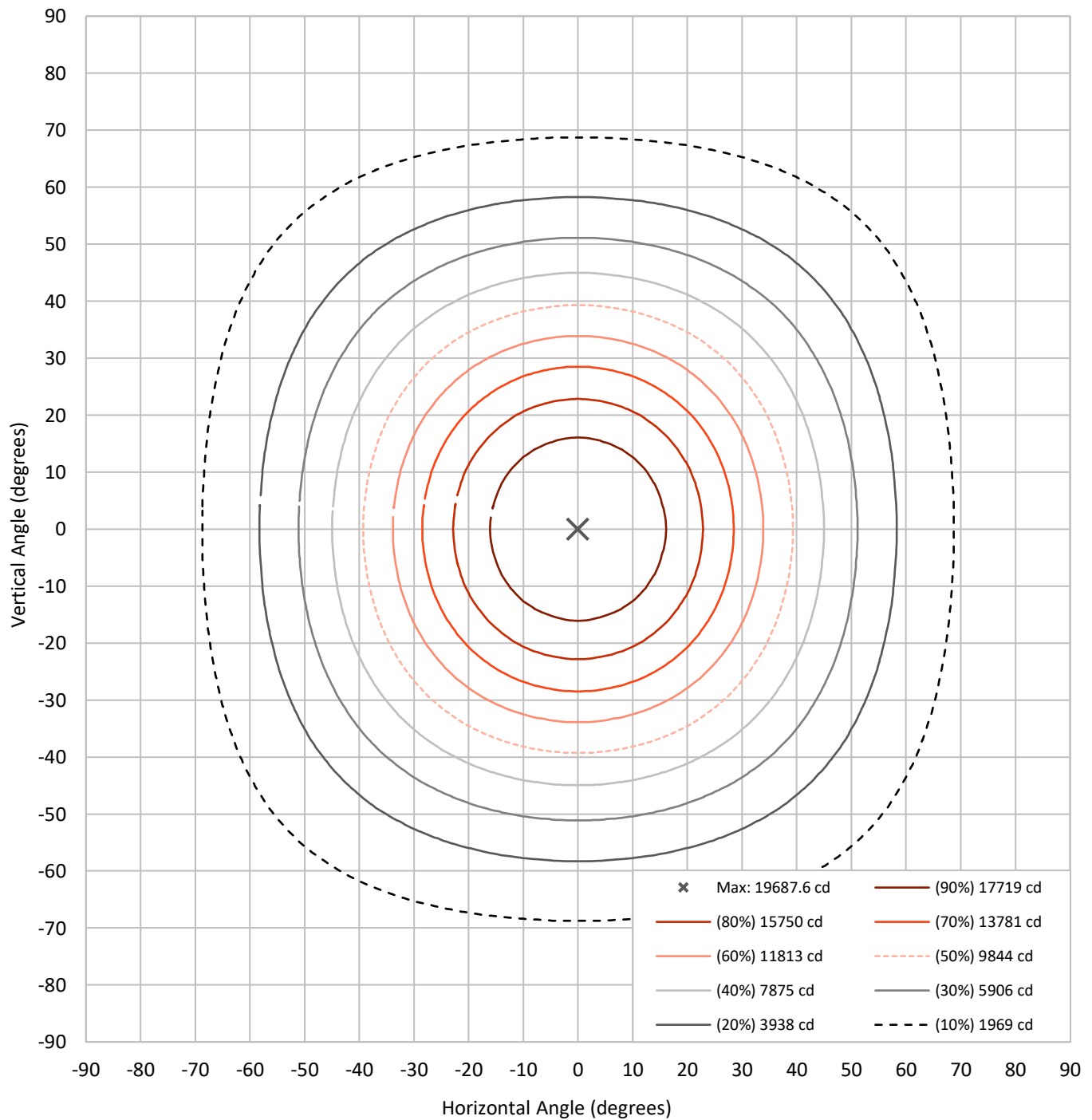
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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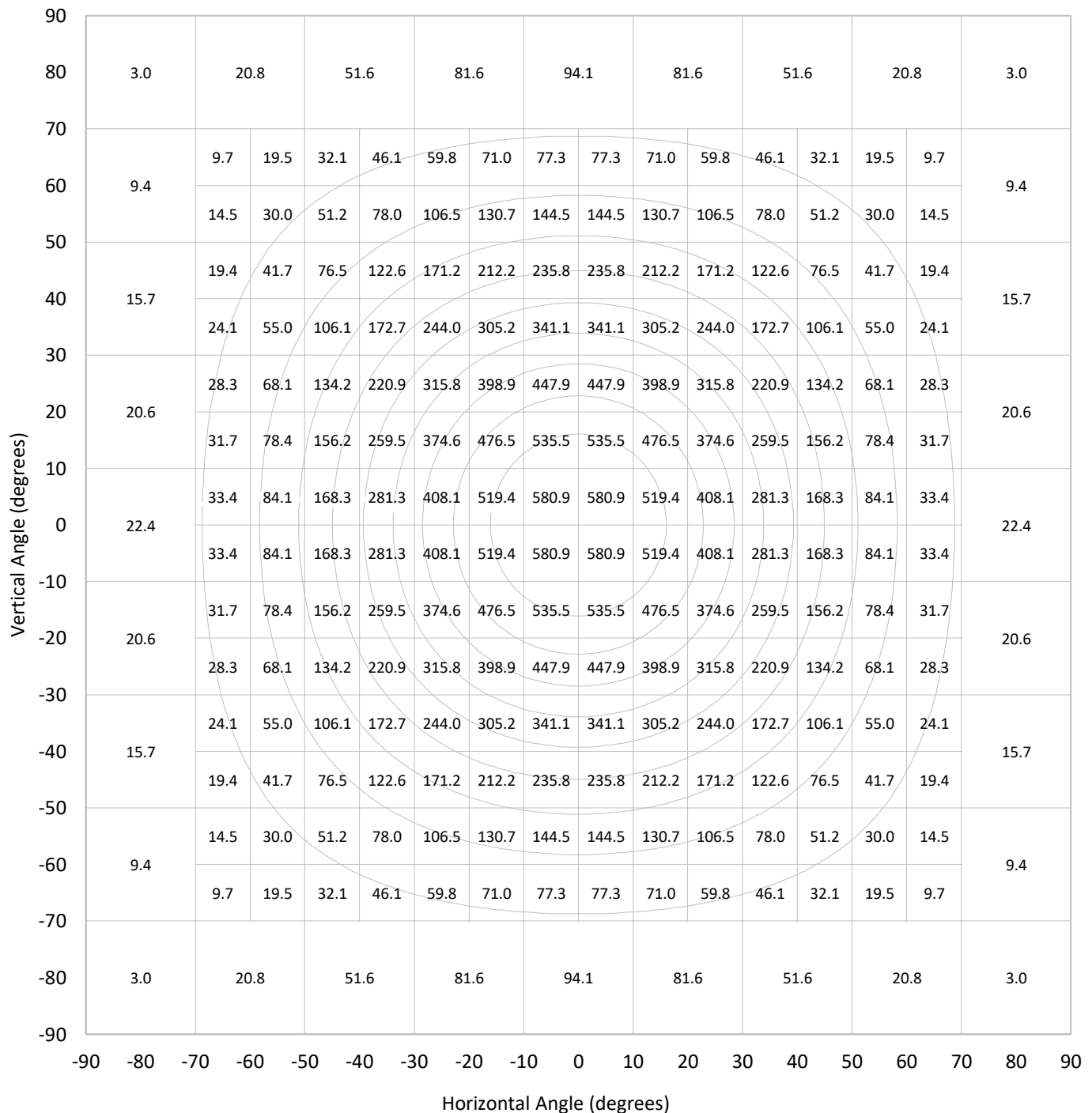
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Iso-Candela Plot



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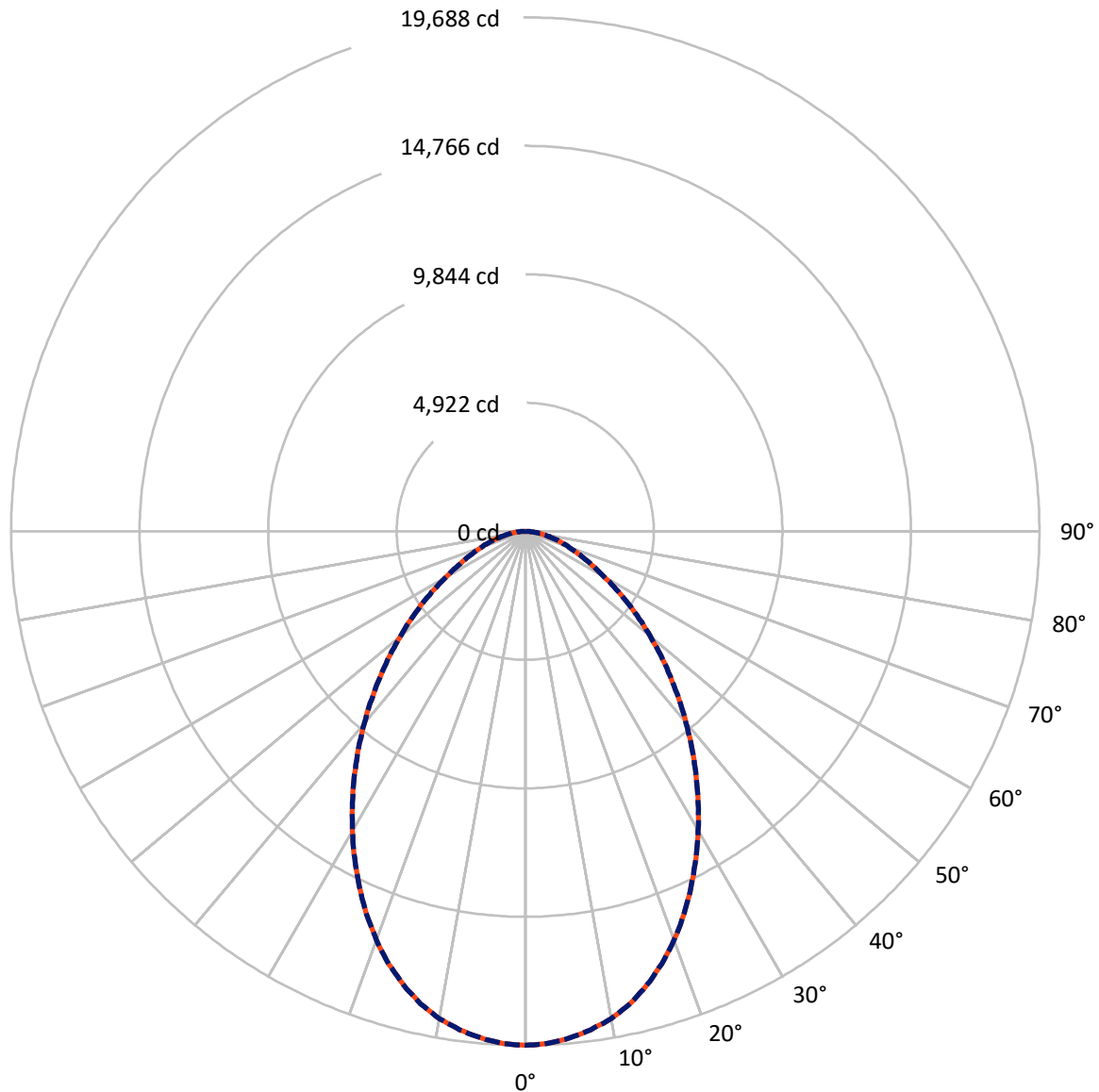
Lumen Table



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Luminous Intensity Polar Plot



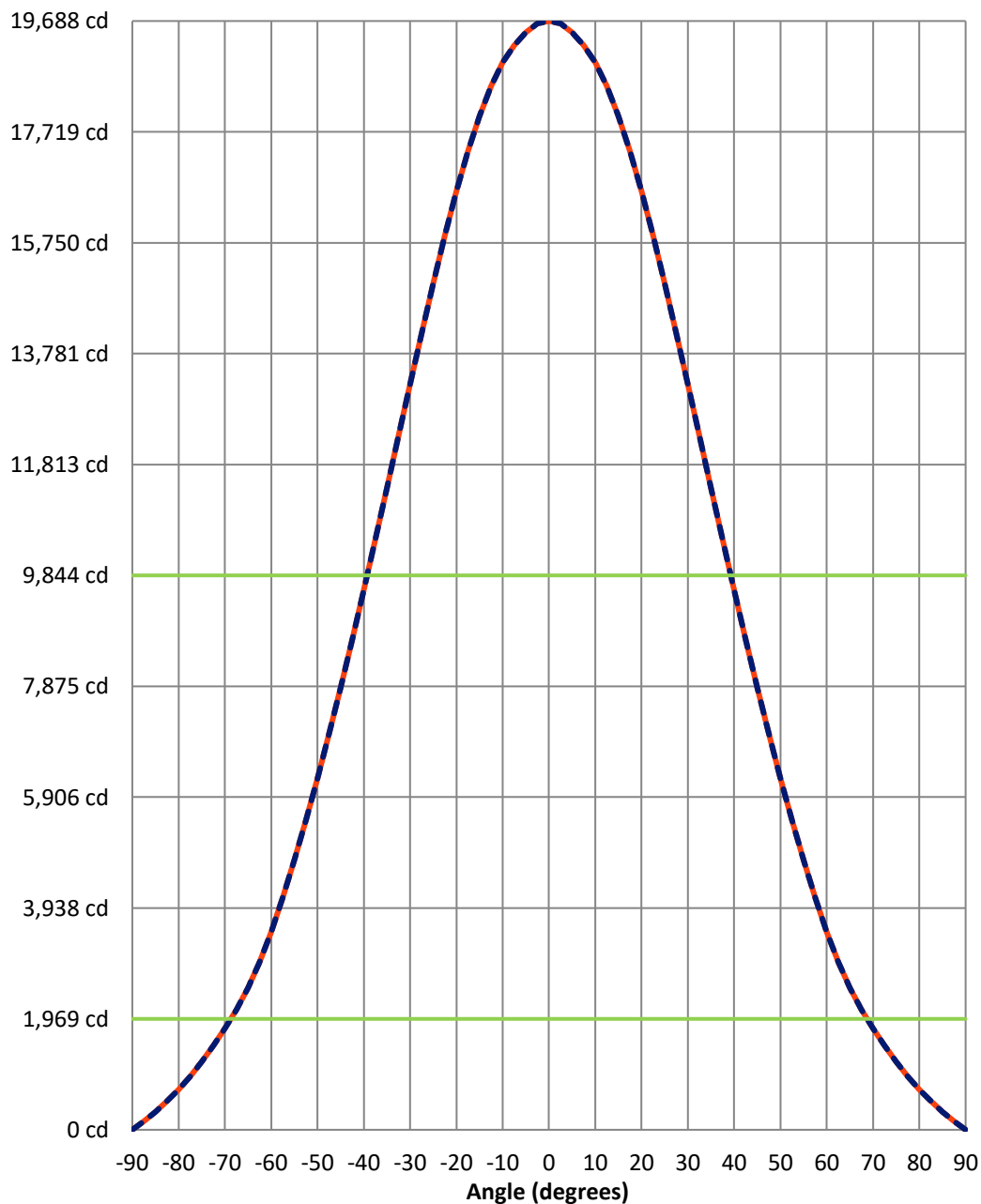
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 15338
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 25115.5
Efficiency: 70.9%

Spill:
Lumens: 10332.6
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	144.1	144.1	140.4	136.7
85°	317.8	317.8	317.8	317.8	317.8	310.4	306.8	303.1	299.4	292.0	288.3
82.5°	510.0	510.0	510.0	510.0	502.6	495.2	491.5	484.2	476.8	465.7	454.6
80°	713.3	713.3	713.3	713.3	702.2	694.8	683.7	676.3	665.2	650.5	635.7
77.5°	946.1	946.1	946.1	935.0	927.7	916.6	905.5	890.7	875.9	857.4	835.3
75°	1208.5	1208.5	1208.5	1193.8	1182.7	1171.6	1153.1	1134.6	1112.4	1086.6	1057.0
72.5°	1493.1	1493.1	1493.1	1474.6	1463.5	1445.1	1422.9	1397.0	1371.1	1337.9	1300.9
70°	1799.9	1799.9	1799.9	1777.7	1759.2	1740.7	1711.2	1681.6	1644.6	1607.7	1563.3
67.5°	2132.5	2132.5	2132.5	2106.6	2084.4	2058.6	2025.3	1988.4	1944.0	1892.3	1840.5
65°	2520.6	2520.6	2505.8	2483.6	2457.7	2420.8	2380.1	2328.4	2272.9	2206.4	2136.2
62.5°	2978.8	2978.8	2956.7	2930.8	2897.5	2849.5	2794.0	2727.5	2649.9	2564.9	2479.9
60°	3511.0	3511.0	3485.2	3451.9	3403.9	3344.7	3270.8	3185.8	3089.7	2982.5	2879.0
57.5°	4124.5	4124.5	4091.3	4046.9	3987.8	3913.9	3821.5	3714.3	3592.3	3459.3	3329.9
55°	4789.8	4789.8	4749.1	4697.4	4627.2	4538.5	4427.6	4301.9	4154.1	4002.6	3836.3
52.5°	5495.7	5495.7	5447.6	5388.5	5307.2	5203.7	5078.1	4930.2	4760.2	4582.8	4386.9
50°	6238.5	6238.5	6183.1	6116.6	6024.2	5902.2	5758.1	5588.1	5399.6	5192.6	4967.2
47.5°	7033.1	7033.1	6970.3	6892.7	6781.8	6641.4	6471.4	6275.5	6061.1	5828.3	5573.3
45°	7849.9	7849.9	7779.7	7691.0	7569.0	7410.1	7221.6	7033.1	6759.7	6489.9	6194.2
42.5°	8700.0	8700.0	8618.7	8518.9	8378.4	8204.7	7990.4	7746.4	7476.6	7173.6	6852.1
40°	9583.3	9583.3	9490.9	9376.3	9221.1	9021.5	8781.3	8507.8	8204.7	7868.4	7513.6
37.5°	10485.0	10485.0	10381.6	10255.9	10082.2	9860.5	9590.7	9287.6	8947.6	8574.3	8182.5
35°	11394.2	11394.2	11279.6	11142.9	10950.7	10706.8	10414.8	10078.5	9701.5	9295.0	8855.2
32.5°	12321.9	12321.9	12196.2	12041.0	11822.9	11553.1	11231.6	10865.7	10485.0	10012.0	9531.5
30°	13238.4	13238.4	13101.7	12931.7	12698.8	12403.2	12052.1	11649.2	11202.0	10717.9	10200.5
27.5°	14140.2	14103.3	13988.7	13807.6	13552.6	13238.4	12857.8	12421.7	11937.5	11405.3	10850.9
25°	15027.2	14986.6	14860.9	14661.3	14387.8	14044.1	13633.9	13168.2	12647.1	12085.3	11479.2
22.5°	15877.2	15832.9	15699.8	15485.5	15193.5	14820.2	14380.4	13881.5	13327.1	12724.7	12085.3
20°	16664.5	16616.4	16479.7	16254.2	15951.2	15555.7	15090.0	14554.1	13962.8	13327.1	12647.1
17.5°	17374.1	17326.0	17181.9	16949.0	16664.5	16224.7	15744.2	15178.7	14554.1	13881.5	13168.2
15°	17998.6	17946.9	17799.1	17566.2	17241.0	16827.1	16320.7	15744.2	15090.0	14380.4	13633.9
12.5°	18530.8	18479.1	18327.6	18094.7	17758.4	17344.5	16827.1	16224.7	15555.7	14820.2	14044.1
10°	18952.2	18900.4	18756.3	18534.5	18187.1	17758.4	17241.0	16664.5	15951.2	15193.5	14387.8
7.5°	19255.2	19207.2	19074.1	18852.4	18534.5	18094.7	17566.2	16949.0	16254.2	15485.5	14661.3
5°	19484.4	19428.9	19295.9	19074.1	18756.3	18327.6	17799.1	17181.9	16479.7	15699.8	14860.9
2.5°	19643.3	19576.8	19428.9	19207.2	18900.4	18479.1	17946.9	17326.0	16616.4	15832.9	14986.6
0°	19687.6	19643.3	19484.4	19255.2	18952.2	18530.8	17998.6	17374.1	16664.5	15877.2	15027.2

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CATALOG NUMBER: IFLD-S-SA6B-750-U-77

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°	133.0	133.0	129.4	125.7	122.0	114.6	110.9	107.2	103.5	96.1	92.4
85°	280.9	273.5	266.1	258.7	247.6	240.2	229.1	221.7	210.7	199.6	188.5
82.5°	443.5	432.4	417.6	406.5	391.8	373.3	358.5	340.0	321.5	306.8	288.3
80°	620.9	602.4	583.9	565.5	543.3	521.1	498.9	476.8	450.9	425.0	399.1
77.5°	813.1	787.2	761.3	731.8	705.9	676.3	646.8	617.2	583.9	550.7	517.4
75°	1027.4	994.2	957.2	920.3	887.0	846.3	805.7	765.0	720.7	680.0	635.7
72.5°	1260.3	1219.6	1175.3	1130.9	1082.9	1031.1	979.4	924.0	872.2	820.5	765.0
70°	1511.6	1463.5	1408.1	1352.7	1293.5	1230.7	1167.9	1101.4	1034.8	968.3	901.8
67.5°	1781.4	1722.3	1655.7	1589.2	1515.3	1441.4	1367.5	1289.8	1208.5	1127.2	1049.6
65°	2069.7	1995.7	1918.1	1833.1	1748.1	1663.1	1574.4	1482.0	1389.6	1293.5	1208.5
62.5°	2391.2	2298.8	2199.0	2095.5	1999.4	1896.0	1799.9	1685.3	1574.4	1467.2	1360.1
60°	2764.5	2642.5	2520.6	2391.2	2269.2	2136.2	2017.9	1892.3	1766.6	1644.6	1519.0
57.5°	3182.1	3026.9	2879.0	2723.8	2561.2	2413.4	2261.8	2110.3	1969.9	1825.7	1689.0
55°	3655.2	3466.7	3281.9	3089.7	2901.2	2716.4	2524.2	2354.2	2180.5	2017.9	1859.0
52.5°	4172.6	3958.2	3729.1	3511.0	3270.8	3041.7	2827.3	2612.9	2409.7	2213.8	2032.7
50°	4727.0	4475.6	4213.2	3947.1	3673.6	3403.9	3145.1	2893.8	2657.3	2428.2	2213.8
47.5°	5303.5	5018.9	4719.6	4416.5	4124.5	3795.6	3485.2	3200.6	2916.0	2657.3	2409.7
45°	5894.8	5573.3	5244.4	4900.7	4556.9	4202.1	3858.4	3511.0	3200.6	2893.8	2612.9
42.5°	6504.6	6142.5	5776.6	5395.9	5015.2	4627.2	4239.1	3858.4	3485.2	3145.1	2827.3
40°	7132.9	6733.8	6316.2	5902.2	5495.7	5052.2	4627.2	4202.1	3795.6	3403.9	3041.7
37.5°	7761.2	7325.1	6874.2	6408.6	5942.9	5495.7	5015.2	4556.9	4124.5	3673.6	3270.8
35°	8393.2	7912.8	7424.9	6918.6	6408.6	5902.2	5395.9	4900.7	4416.5	3947.1	3511.0
32.5°	9028.9	8504.1	7964.5	7424.9	6874.2	6316.2	5776.6	5244.4	4719.6	4213.2	3729.1
30°	9653.5	9084.3	8504.1	7912.8	7325.1	6733.8	6142.5	5573.3	5018.9	4475.6	3958.2
27.5°	10263.3	9653.5	9028.9	8393.2	7761.2	7132.9	6504.6	5894.8	5303.5	4727.0	4172.6
25°	10850.9	10200.5	9531.5	8855.2	8182.5	7513.6	6852.1	6194.2	5573.3	4967.2	4386.9
22.5°	11405.3	10717.9	10012.0	9295.0	8574.3	7868.4	7173.6	6489.9	5828.3	5192.6	4582.8
20°	11937.5	11202.0	10485.0	9701.5	8947.6	8204.7	7476.6	6759.7	6061.1	5399.6	4760.2
17.5°	12421.7	11649.2	10865.7	10078.5	9287.6	8507.8	7746.4	7033.1	6275.5	5588.1	4930.2
15°	12857.8	12052.1	11231.6	10414.8	9590.7	8781.3	7990.4	7221.6	6471.4	5758.1	5078.1
12.5°	13238.4	12403.2	11553.1	10706.8	9860.5	9021.5	8204.7	7410.1	6641.4	5902.2	5203.7
10°	13552.6	12698.8	11822.9	10950.7	10082.2	9221.1	8378.4	7569.0	6781.8	6024.2	5307.2
7.5°	13807.6	12931.7	12041.0	11142.9	10255.9	9376.3	8518.9	7691.0	6892.7	6116.6	5388.5
5°	13988.7	13101.7	12196.2	11279.6	10381.6	9490.9	8618.7	7779.7	6970.3	6183.1	5447.6
2.5°	14103.3	13238.4	12321.9	11394.2	10485.0	9583.3	8700.0	7849.9	7033.1	6238.5	5495.7
0°	14140.2	13238.4	12321.9	11394.2	10485.0	9583.3	8700.0	7849.9	7033.1	6238.5	5495.7

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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°	88.7	81.3	73.9	70.2	62.8	59.1	51.7	44.3	40.7	33.3	25.9
85°	177.4	162.6	151.5	140.4	129.4	114.6	103.5	92.4	77.6	66.5	51.7
82.5°	269.8	251.3	232.8	214.4	195.9	177.4	155.2	136.7	118.3	99.8	77.6
80°	373.3	343.7	317.8	292.0	266.1	240.2	210.7	184.8	155.2	129.4	103.5
77.5°	480.5	447.2	410.2	373.3	336.3	303.1	266.1	232.8	199.6	162.6	129.4
75°	595.0	550.7	510.0	462.0	417.6	369.6	325.2	280.9	240.2	199.6	155.2
72.5°	713.3	657.9	602.4	550.7	495.2	439.8	388.1	332.6	280.9	232.8	184.8
70°	835.3	768.7	702.2	639.4	576.5	510.0	450.9	388.1	325.2	266.1	210.7
67.5°	964.6	887.0	809.4	728.1	657.9	583.9	510.0	439.8	369.6	303.1	240.2
65°	1105.1	1012.7	916.6	831.6	739.2	657.9	576.5	495.2	417.6	336.3	266.1
62.5°	1249.2	1142.0	1034.8	927.7	831.6	728.1	639.4	550.7	462.0	373.3	292.0
60°	1397.0	1275.1	1153.1	1034.8	916.6	809.4	702.2	602.4	510.0	410.2	317.8
57.5°	1548.5	1411.8	1275.1	1142.0	1012.7	887.0	768.7	657.9	550.7	447.2	343.7
55°	1703.8	1548.5	1397.0	1249.2	1105.1	964.6	835.3	713.3	595.0	480.5	373.3
52.5°	1859.0	1689.0	1519.0	1360.1	1208.5	1049.6	901.8	765.0	635.7	517.4	399.1
50°	2017.9	1825.7	1644.6	1467.2	1293.5	1127.2	968.3	820.5	680.0	550.7	425.0
47.5°	2180.5	1969.9	1766.6	1574.4	1389.6	1208.5	1034.8	872.2	720.7	583.9	450.9
45°	2354.2	2110.3	1892.3	1685.3	1482.0	1289.8	1101.4	924.0	765.0	617.2	476.8
42.5°	2524.2	2261.8	2017.9	1799.9	1574.4	1367.5	1167.9	979.4	805.7	646.8	498.9
40°	2716.4	2413.4	2136.2	1896.0	1663.1	1441.4	1230.7	1031.1	846.3	676.3	521.1
37.5°	2901.2	2561.2	2269.2	1999.4	1748.1	1515.3	1293.5	1082.9	887.0	705.9	543.3
35°	3089.7	2723.8	2391.2	2095.5	1833.1	1589.2	1352.7	1130.9	920.3	731.8	565.5
32.5°	3281.9	2879.0	2520.6	2199.0	1918.1	1655.7	1408.1	1175.3	957.2	761.3	583.9
30°	3466.7	3026.9	2642.5	2298.8	1995.7	1722.3	1463.5	1219.6	994.2	787.2	602.4
27.5°	3655.2	3182.1	2764.5	2391.2	2069.7	1781.4	1511.6	1260.3	1027.4	813.1	620.9
25°	3836.3	3329.9	2879.0	2479.9	2136.2	1840.5	1563.3	1300.9	1057.0	835.3	635.7
22.5°	4002.6	3459.3	2982.5	2564.9	2206.4	1892.3	1607.7	1337.9	1086.6	857.4	650.5
20°	4154.1	3592.3	3089.7	2649.9	2272.9	1944.0	1644.6	1371.1	1112.4	875.9	665.2
17.5°	4301.9	3714.3	3185.8	2727.5	2328.4	1988.4	1681.6	1397.0	1134.6	890.7	676.3
15°	4427.6	3821.5	3270.8	2794.0	2380.1	2025.3	1711.2	1422.9	1153.1	905.5	683.7
12.5°	4538.5	3913.9	3344.7	2849.5	2420.8	2058.6	1740.7	1445.1	1171.6	916.6	694.8
10°	4627.2	3987.8	3403.9	2897.5	2457.7	2084.4	1759.2	1463.5	1182.7	927.7	702.2
7.5°	4697.4	4046.9	3451.9	2930.8	2483.6	2106.6	1777.7	1474.6	1193.8	935.0	713.3
5°	4749.1	4091.3	3485.2	2956.7	2505.8	2132.5	1799.9	1493.1	1208.5	946.1	713.3
2.5°	4789.8	4124.5	3511.0	2978.8	2520.6	2132.5	1799.9	1493.1	1208.5	946.1	713.3
0°	4789.8	4124.5	3511.0	2978.8	2520.6	2132.5	1799.9	1493.1	1208.5	946.1	713.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.5	14.8	7.4	0.0
85°	40.7	25.9	14.8	0.0
82.5°	59.1	40.7	18.5	0.0
80°	77.6	51.7	25.9	0.0
77.5°	99.8	66.5	33.3	0.0
75°	118.3	77.6	40.7	0.0
72.5°	136.7	92.4	44.3	0.0
70°	155.2	103.5	51.7	0.0
67.5°	177.4	114.6	59.1	0.0
65°	195.9	129.4	62.8	0.0
62.5°	214.4	140.4	70.2	0.0
60°	232.8	151.5	73.9	0.0
57.5°	251.3	162.6	81.3	0.0
55°	269.8	177.4	88.7	0.0
52.5°	288.3	188.5	92.4	0.0
50°	306.8	199.6	96.1	0.0
47.5°	321.5	210.7	103.5	0.0
45°	340.0	221.7	107.2	0.0
42.5°	358.5	229.1	110.9	0.0
40°	373.3	240.2	114.6	0.0
37.5°	391.8	247.6	122.0	0.0
35°	406.5	258.7	125.7	0.0
32.5°	417.6	266.1	129.4	0.0
30°	432.4	273.5	133.0	0.0
27.5°	443.5	280.9	133.0	0.0
25°	454.6	288.3	136.7	0.0
22.5°	465.7	292.0	140.4	0.0
20°	476.8	299.4	144.1	0.0
17.5°	484.2	303.1	144.1	0.0
15°	491.5	306.8	151.5	0.0
12.5°	495.2	310.4	151.5	0.0
10°	502.6	317.8	151.5	0.0
7.5°	510.0	317.8	151.5	0.0
5°	510.0	317.8	151.5	0.0
2.5°	510.0	317.8	151.5	0.0
0°	510.0	317.8	151.5	0.0

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