

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: P623969

Luminaire Tested: **IFLD-S-SA6D-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623969
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

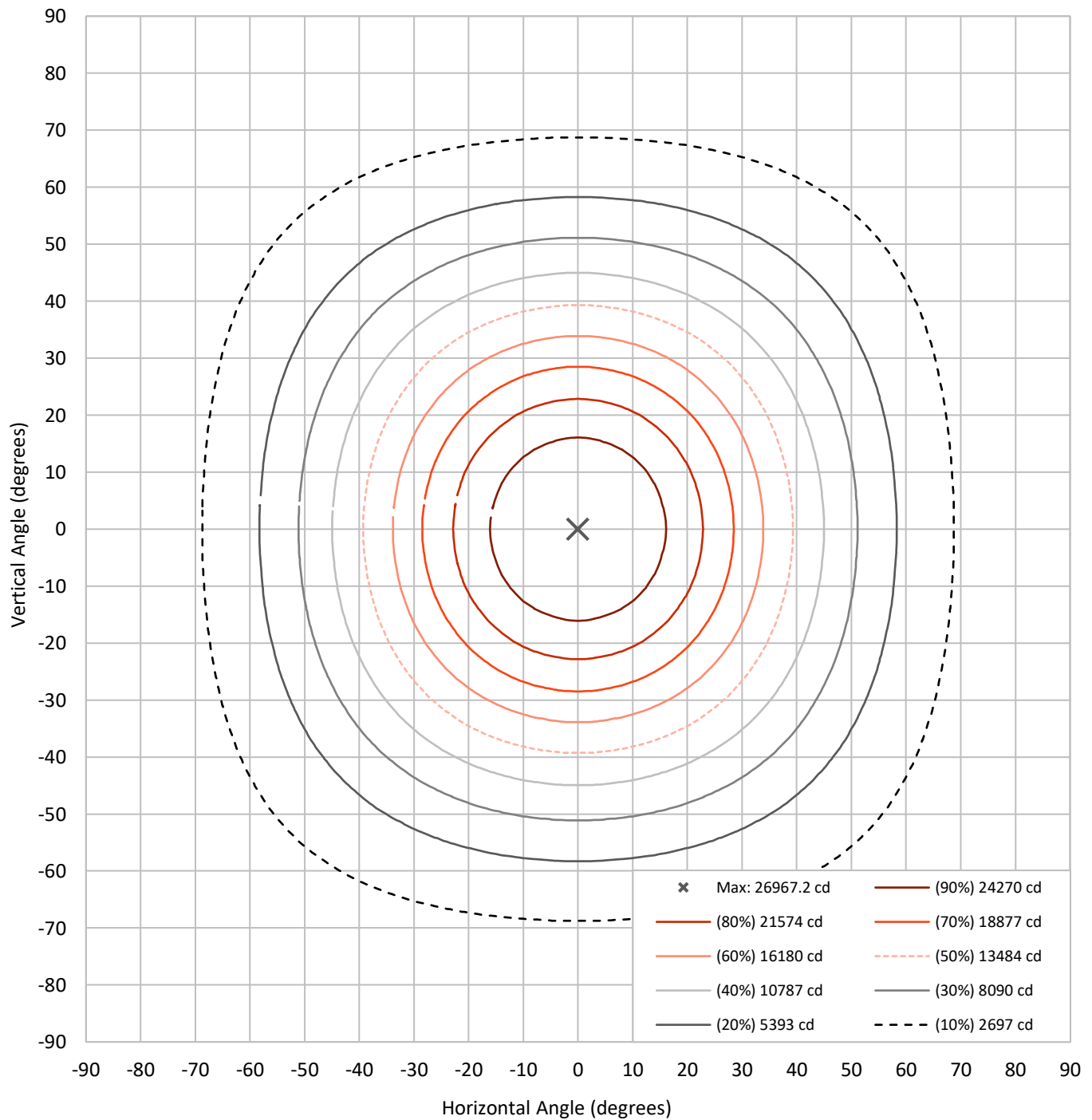
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	48555 lumens	Max Intensity:	26967.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	21009.3 lumens	Field Lumens:	34401.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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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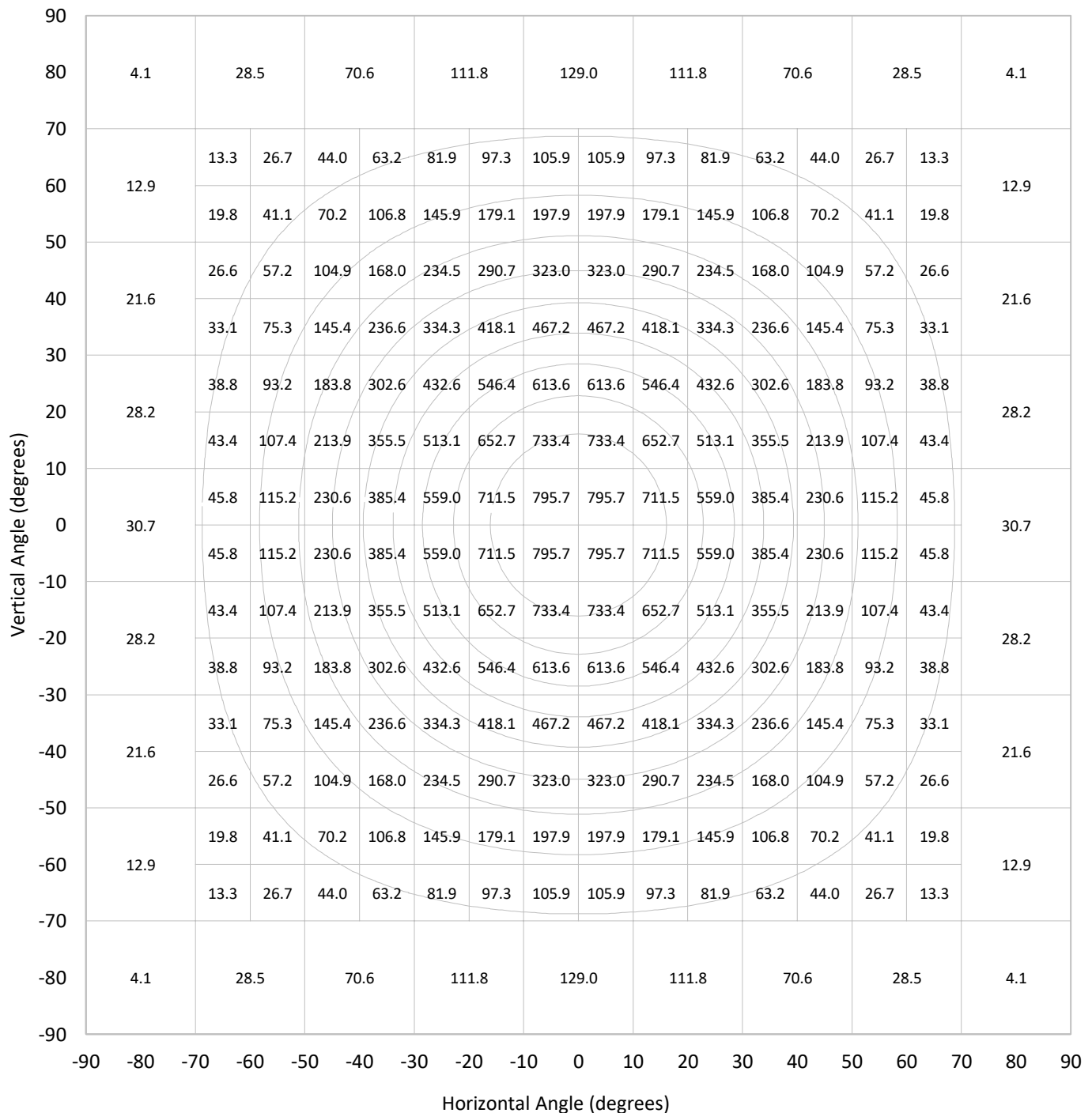
CATALOG NUMBER: IFLD-S-SA6D-750-U-77

Iso-Candela Plot



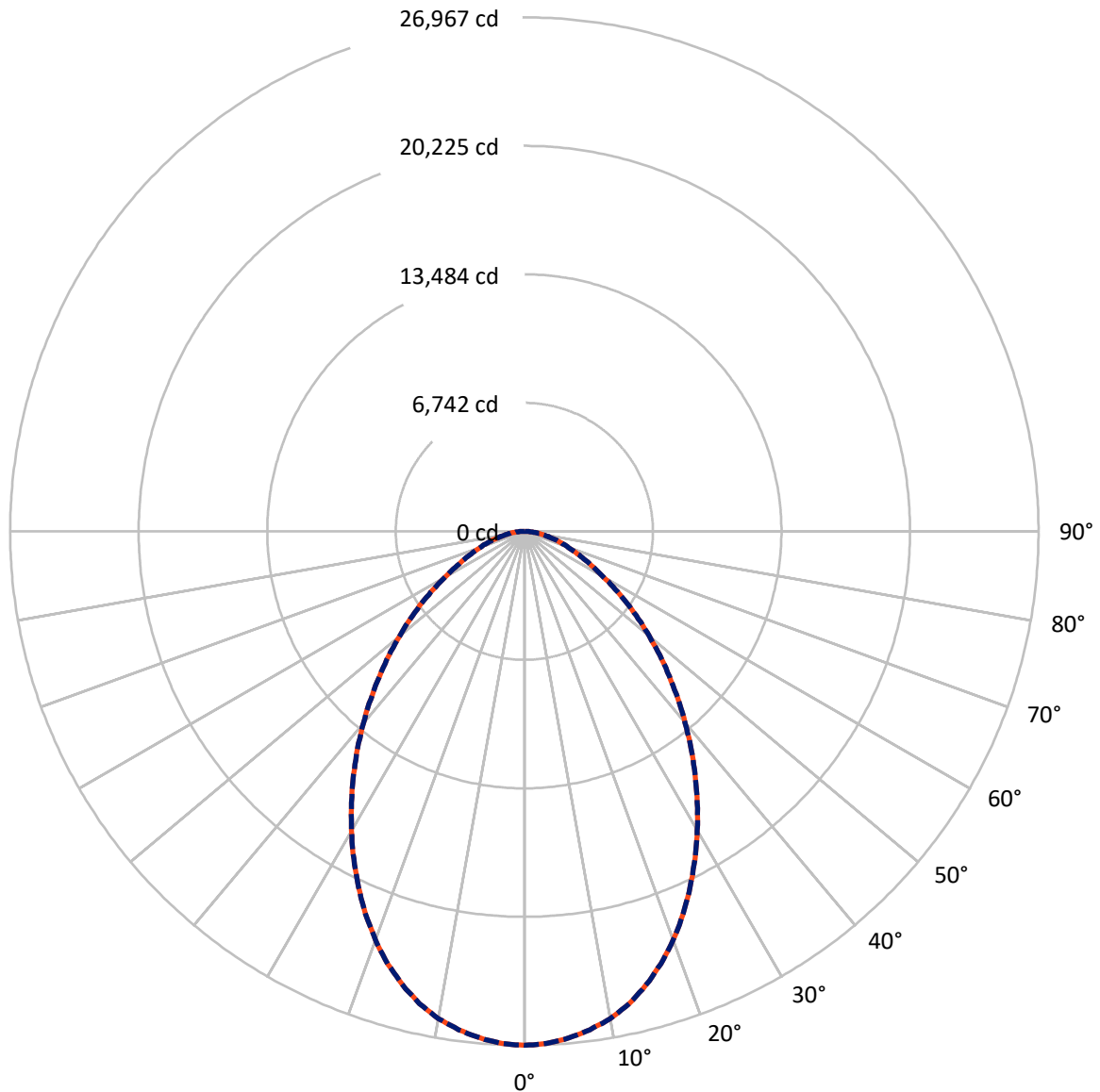
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Lumen Table



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Luminous Intensity Polar Plot

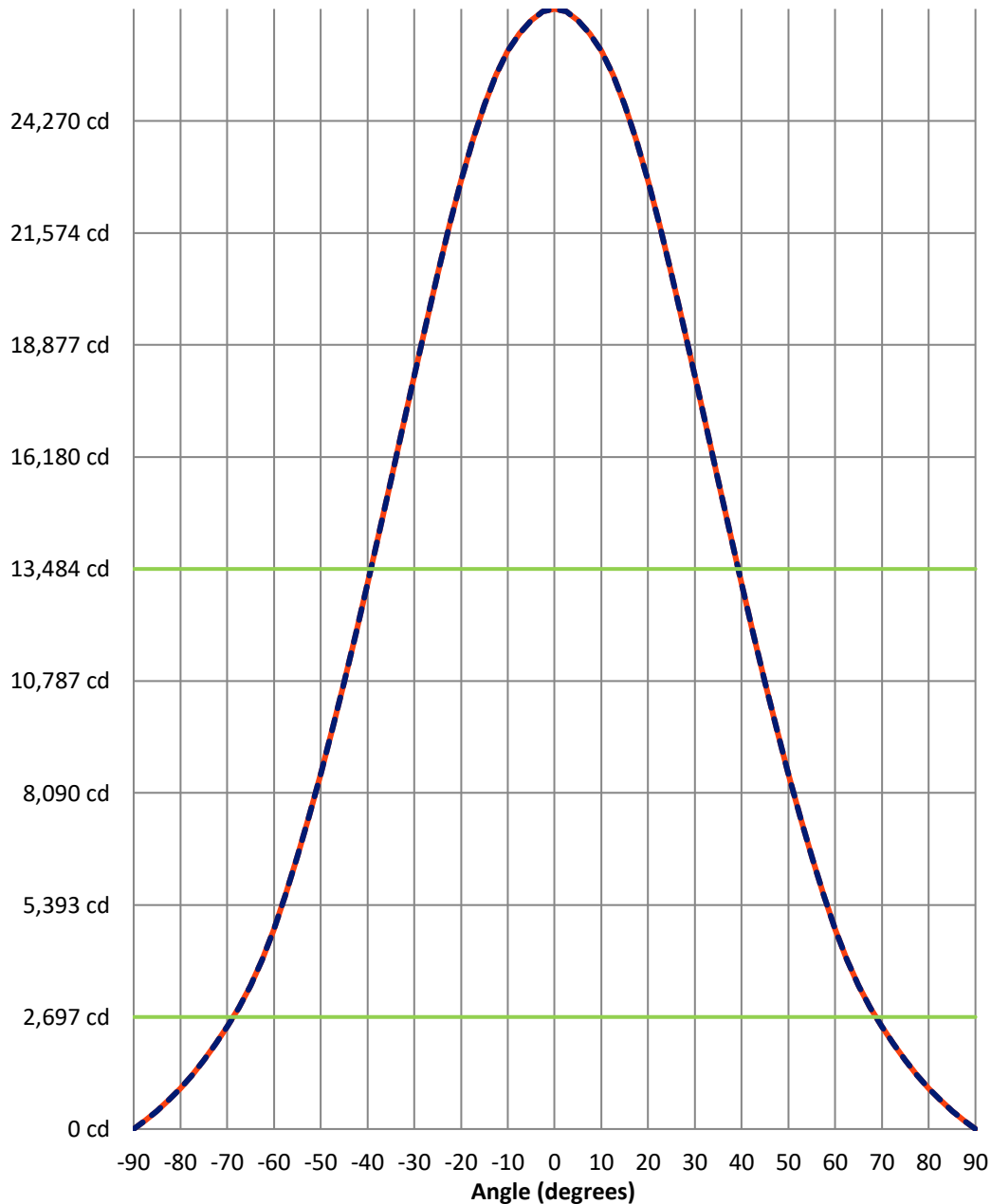


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 21009.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 34401.9
Efficiency: 70.9%

Spill:

Lumens: 14153
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°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	197.4	197.4	192.4	187.3
85°	435.4	435.4	435.4	435.4	435.4	425.2	420.2	415.1	410.1	399.9	394.9
82.5°	698.6	698.6	698.6	698.6	688.5	678.4	673.3	663.2	653.0	637.9	622.7
80°	977.0	977.0	977.0	977.0	961.8	951.7	936.5	926.4	911.2	891.0	870.7
77.5°	1296.0	1296.0	1296.0	1280.8	1270.7	1255.5	1240.3	1220.0	1199.8	1174.5	1144.1
75°	1655.4	1655.4	1655.4	1635.1	1620.0	1604.8	1579.5	1554.1	1523.8	1488.3	1447.8
72.5°	2045.2	2045.2	2045.2	2019.9	2004.7	1979.4	1949.0	1913.6	1878.1	1832.6	1781.9
70°	2465.4	2465.4	2465.4	2435.0	2409.7	2384.4	2343.9	2303.4	2252.7	2202.1	2141.4
67.5°	2921.0	2921.0	2921.0	2885.5	2855.2	2819.7	2774.2	2723.5	2662.8	2591.9	2521.1
65°	3452.5	3452.5	3432.3	3401.9	3366.5	3315.8	3260.2	3189.3	3113.3	3022.2	2926.0
62.5°	4080.3	4080.3	4049.9	4014.4	3968.9	3903.1	3827.1	3736.0	3629.7	3513.3	3396.8
60°	4809.2	4809.2	4773.8	4728.2	4662.4	4581.4	4480.2	4363.7	4232.1	4085.3	3943.6
57.5°	5649.6	5649.6	5604.0	5543.3	5462.3	5361.0	5234.5	5087.7	4920.6	4738.4	4561.2
55°	6560.8	6560.8	6505.1	6434.3	6338.1	6216.6	6064.7	5892.6	5690.1	5482.5	5254.7
52.5°	7527.7	7527.7	7461.9	7380.9	7269.5	7127.8	6955.7	6753.2	6520.3	6277.3	6009.0
50°	8545.3	8545.3	8469.3	8378.2	8251.6	8084.6	7887.1	7654.3	7396.1	7112.6	6803.8
47.5°	9633.7	9633.7	9547.6	9441.3	9289.4	9097.1	8864.2	8595.9	8302.3	7983.3	7634.0
45°	10752.4	10752.4	10656.3	10534.8	10367.7	10150.0	9891.8	9633.7	9259.0	8889.5	8484.5
42.5°	11916.8	11916.8	11805.4	11668.7	11476.4	11238.4	10944.8	10610.7	10241.1	9826.0	9385.6
40°	13126.7	13126.7	13000.1	12843.2	12630.6	12357.2	12028.2	11653.5	11238.4	10777.8	10291.8
37.5°	14361.9	14361.9	14220.2	14048.0	13810.1	13506.4	13136.8	12721.7	12256.0	11744.7	11208.1
35°	15607.2	15607.2	15450.3	15263.0	14999.8	14665.6	14265.7	13805.0	13288.7	12731.8	12129.4
32.5°	16877.9	16877.9	16705.8	16493.1	16194.5	15824.9	15384.5	14883.3	14361.9	13713.9	13055.8
30°	18133.4	18133.4	17946.0	17713.2	17394.2	16989.3	16508.3	15956.5	15344.0	14680.8	13972.1
27.5°	19368.6	19317.9	19161.0	18913.0	18563.7	18133.4	17611.9	17014.6	16351.4	15622.4	14863.1
25°	20583.5	20527.8	20355.7	20082.4	19707.7	19236.9	18675.0	18037.2	17323.4	16553.9	15723.7
22.5°	21747.9	21687.1	21504.9	21211.3	20811.3	20300.0	19697.6	19014.2	18254.8	17429.7	16553.9
20°	22826.2	22760.3	22573.0	22264.2	21849.1	21307.4	20669.6	19935.6	19125.6	18254.8	17323.4
17.5°	23798.1	23732.3	23534.9	23216.0	22826.2	22223.7	21565.6	20791.1	19935.6	19014.2	18037.2
15°	24653.7	24582.8	24380.3	24061.4	23615.9	23048.9	22355.4	21565.6	20669.6	19697.6	18675.0
12.5°	25382.6	25311.8	25104.2	24785.3	24324.6	23757.6	23048.9	22223.7	21307.4	20300.0	19236.9
10°	25959.8	25888.9	25691.4	25387.7	24911.8	24324.6	23615.9	22826.2	21849.1	20811.3	19707.7
7.5°	26374.9	26309.1	26126.8	25823.1	25387.7	24785.3	24061.4	23216.0	22264.2	21211.3	20082.4
5°	26688.7	26612.8	26430.6	26126.8	25691.4	25104.2	24380.3	23534.9	22573.0	21504.9	20355.7
2.5°	26906.4	26815.3	26612.8	26309.1	25888.9	25311.8	24582.8	23732.3	22760.3	21687.1	20527.8
0°	26967.2	26906.4	26688.7	26374.9	25959.8	25382.6	24653.7	23798.1	22826.2	21747.9	20583.5

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CATALOG NUMBER: IFLD-S-SA6D-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°	182.2	182.2	177.2	172.1	167.1	156.9	151.9	146.8	141.7	131.6	126.6
85°	384.7	374.6	364.5	354.4	339.2	329.1	313.9	303.7	288.6	273.4	258.2
82.5°	607.5	592.3	572.0	556.9	536.6	511.3	491.0	465.7	440.4	420.2	394.9
80°	850.5	825.2	799.9	774.5	744.2	713.8	683.4	653.0	617.6	582.2	546.7
77.5°	1113.7	1078.3	1042.8	1002.3	966.9	926.4	885.9	845.4	799.9	754.3	708.7
75°	1407.3	1361.8	1311.1	1260.5	1215.0	1159.3	1103.6	1047.9	987.2	931.5	870.7
72.5°	1726.3	1670.6	1609.8	1549.1	1483.3	1412.4	1341.5	1265.6	1194.7	1123.8	1047.9
70°	2070.5	2004.7	1928.8	1852.8	1771.8	1685.8	1599.7	1508.6	1417.5	1326.3	1235.2
67.5°	2440.1	2359.1	2267.9	2176.8	2075.6	1974.3	1873.1	1766.8	1655.4	1544.0	1437.7
65°	2834.9	2733.7	2627.4	2510.9	2394.5	2278.1	2156.6	2030.0	1903.4	1771.8	1655.4
62.5°	3275.3	3148.8	3012.1	2870.4	2738.7	2597.0	2465.4	2308.4	2156.6	2009.8	1862.9
60°	3786.6	3619.6	3452.5	3275.3	3108.3	2926.0	2764.0	2591.9	2419.8	2252.7	2080.6
57.5°	4358.7	4146.1	3943.6	3731.0	3508.2	3305.7	3098.2	2890.6	2698.2	2500.8	2313.5
55°	5006.7	4748.5	4495.4	4232.1	3973.9	3720.8	3457.6	3224.7	2986.8	2764.0	2546.4
52.5°	5715.4	5421.8	5107.9	4809.2	4480.2	4166.3	3872.7	3579.1	3300.7	3032.4	2784.3
50°	6474.8	6130.5	5771.1	5406.6	5032.0	4662.4	4308.1	3963.8	3639.8	3326.0	3032.4
47.5°	7264.5	6874.7	6464.6	6049.5	5649.6	5199.0	4773.8	4384.0	3994.2	3639.8	3300.7
45°	8074.5	7634.0	7183.5	6712.7	6241.9	5755.9	5285.1	4809.2	4384.0	3963.8	3579.1
42.5°	8909.7	8413.6	7912.5	7391.0	6869.6	6338.1	5806.5	5285.1	4773.8	4308.1	3872.7
40°	9770.3	9223.6	8651.6	8084.6	7527.7	6920.2	6338.1	5755.9	5199.0	4662.4	4166.3
37.5°	10630.9	10033.6	9416.0	8778.1	8140.3	7527.7	6869.6	6241.9	5649.6	5032.0	4480.2
35°	11496.6	10838.5	10170.3	9476.7	8778.1	8084.6	7391.0	6712.7	6049.5	5406.6	4809.2
32.5°	12367.3	11648.5	10909.4	10170.3	9416.0	8651.6	7912.5	7183.5	6464.6	5771.1	5107.9
30°	13222.9	12443.3	11648.5	10838.5	10033.6	9223.6	8413.6	7634.0	6874.7	6130.5	5421.8
27.5°	14058.2	13222.9	12367.3	11496.6	10630.9	9770.3	8909.7	8074.5	7264.5	6474.8	5715.4
25°	14863.1	13972.1	13055.8	12129.4	11208.1	10291.8	9385.6	8484.5	7634.0	6803.8	6009.0
22.5°	15622.4	14680.8	13713.9	12731.8	11744.7	10777.8	9826.0	8889.5	7983.3	7112.6	6277.3
20°	16351.4	15344.0	14361.9	13288.7	12256.0	11238.4	10241.1	9259.0	8302.3	7396.1	6520.3
17.5°	17014.6	15956.5	14883.3	13805.0	12721.7	11653.5	10610.7	9633.7	8595.9	7654.3	6753.2
15°	17611.9	16508.3	15384.5	14265.7	13136.8	12028.2	10944.8	9891.8	8864.2	7887.1	6955.7
12.5°	18133.4	16989.3	15824.9	14665.6	13506.4	12357.2	11238.4	10150.0	9097.1	8084.6	7127.8
10°	18563.7	17394.2	16194.5	14999.8	13810.1	12630.6	11476.4	10367.7	9289.4	8251.6	7269.5
7.5°	18913.0	17713.2	16493.1	15263.0	14048.0	12843.2	11668.7	10534.8	9441.3	8378.2	7380.9
5°	19161.0	17946.0	16705.8	15450.3	14220.2	13000.1	11805.4	10656.3	9547.6	8469.3	7461.9
2.5°	19317.9	18133.4	16877.9	15607.2	14361.9	13126.7	11916.8	10752.4	9633.7	8545.3	7527.7
0°	19368.6	18133.4	16877.9	15607.2	14361.9	13126.7	11916.8	10752.4	9633.7	8545.3	7527.7

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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°	121.5	111.4	101.2	96.2	86.1	81.0	70.9	60.7	55.7	45.6	35.4
85°	243.0	222.7	207.6	192.4	177.2	156.9	141.7	126.6	106.3	91.1	70.9
82.5°	369.6	344.2	318.9	293.6	268.3	243.0	212.6	187.3	162.0	136.7	106.3
80°	511.3	470.8	435.4	399.9	364.5	329.1	288.6	253.1	212.6	177.2	141.7
77.5°	658.1	612.5	561.9	511.3	460.7	415.1	364.5	318.9	273.4	222.7	177.2
75°	815.0	754.3	698.6	632.8	572.0	506.2	445.5	384.7	329.1	273.4	212.6
72.5°	977.0	901.1	825.2	754.3	678.4	602.4	531.5	455.6	384.7	318.9	253.1
70°	1144.1	1053.0	961.8	875.8	789.7	698.6	617.6	531.5	445.5	364.5	288.6
67.5°	1321.3	1215.0	1108.7	997.3	901.1	799.9	698.6	602.4	506.2	415.1	329.1
65°	1513.6	1387.1	1255.5	1139.0	1012.5	901.1	789.7	678.4	572.0	460.7	364.5
62.5°	1711.1	1564.3	1417.5	1270.7	1139.0	997.3	875.8	754.3	632.8	511.3	399.9
60°	1913.6	1746.5	1579.5	1417.5	1255.5	1108.7	961.8	825.2	698.6	561.9	435.4
57.5°	2121.1	1933.8	1746.5	1564.3	1387.1	1215.0	1053.0	901.1	754.3	612.5	470.8
55°	2333.7	2121.1	1913.6	1711.1	1513.6	1321.3	1144.1	977.0	815.0	658.1	511.3
52.5°	2546.4	2313.5	2080.6	1862.9	1655.4	1437.7	1235.2	1047.9	870.7	708.7	546.7
50°	2764.0	2500.8	2252.7	2009.8	1771.8	1544.0	1326.3	1123.8	931.5	754.3	582.2
47.5°	2986.8	2698.2	2419.8	2156.6	1903.4	1655.4	1417.5	1194.7	987.2	799.9	617.6
45°	3224.7	2890.6	2591.9	2308.4	2030.0	1766.8	1508.6	1265.6	1047.9	845.4	653.0
42.5°	3457.6	3098.2	2764.0	2465.4	2156.6	1873.1	1599.7	1341.5	1103.6	885.9	683.4
40°	3720.8	3305.7	2926.0	2597.0	2278.1	1974.3	1685.8	1412.4	1159.3	926.4	713.8
37.5°	3973.9	3508.2	3108.3	2738.7	2394.5	2075.6	1771.8	1483.3	1215.0	966.9	744.2
35°	4232.1	3731.0	3275.3	2870.4	2510.9	2176.8	1852.8	1549.1	1260.5	1002.3	774.5
32.5°	4495.4	3943.6	3452.5	3012.1	2627.4	2267.9	1928.8	1609.8	1311.1	1042.8	799.9
30°	4748.5	4146.1	3619.6	3148.8	2733.7	2359.1	2004.7	1670.6	1361.8	1078.3	825.2
27.5°	5006.7	4358.7	3786.6	3275.3	2834.9	2440.1	2070.5	1726.3	1407.3	1113.7	850.5
25°	5254.7	4561.2	3943.6	3396.8	2926.0	2521.1	2141.4	1781.9	1447.8	1144.1	870.7
22.5°	5482.5	4738.4	4085.3	3513.3	3022.2	2591.9	2202.1	1832.6	1488.3	1174.5	891.0
20°	5690.1	4920.6	4232.1	3629.7	3113.3	2662.8	2252.7	1878.1	1523.8	1199.8	911.2
17.5°	5892.6	5087.7	4363.7	3736.0	3189.3	2723.5	2303.4	1913.6	1554.1	1220.0	926.4
15°	6064.7	5234.5	4480.2	3827.1	3260.2	2774.2	2343.9	1949.0	1579.5	1240.3	936.5
12.5°	6216.6	5361.0	4581.4	3903.1	3315.8	2819.7	2384.4	1979.4	1604.8	1255.5	951.7
10°	6338.1	5462.3	4662.4	3968.9	3366.5	2855.2	2409.7	2004.7	1620.0	1270.7	961.8
7.5°	6434.3	5543.3	4728.2	4014.4	3401.9	2885.5	2435.0	2019.9	1635.1	1280.8	977.0
5°	6505.1	5604.0	4773.8	4049.9	3432.3	2921.0	2465.4	2045.2	1655.4	1296.0	977.0
2.5°	6560.8	5649.6	4809.2	4080.3	3452.5	2921.0	2465.4	2045.2	1655.4	1296.0	977.0
0°	6560.8	5649.6	4809.2	4080.3	3452.5	2921.0	2465.4	2045.2	1655.4	1296.0	977.0

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CATALOG NUMBER: IFLD-S-SA6D-750-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.3	20.2	10.1	0.0
85°	55.7	35.4	20.2	0.0
82.5°	81.0	55.7	25.3	0.0
80°	106.3	70.9	35.4	0.0
77.5°	136.7	91.1	45.6	0.0
75°	162.0	106.3	55.7	0.0
72.5°	187.3	126.6	60.7	0.0
70°	212.6	141.7	70.9	0.0
67.5°	243.0	156.9	81.0	0.0
65°	268.3	177.2	86.1	0.0
62.5°	293.6	192.4	96.2	0.0
60°	318.9	207.6	101.2	0.0
57.5°	344.2	222.7	111.4	0.0
55°	369.6	243.0	121.5	0.0
52.5°	394.9	258.2	126.6	0.0
50°	420.2	273.4	131.6	0.0
47.5°	440.4	288.6	141.7	0.0
45°	465.7	303.7	146.8	0.0
42.5°	491.0	313.9	151.9	0.0
40°	511.3	329.1	156.9	0.0
37.5°	536.6	339.2	167.1	0.0
35°	556.9	354.4	172.1	0.0
32.5°	572.0	364.5	177.2	0.0
30°	592.3	374.6	182.2	0.0
27.5°	607.5	384.7	182.2	0.0
25°	622.7	394.9	187.3	0.0
22.5°	637.9	399.9	192.4	0.0
20°	653.0	410.1	197.4	0.0
17.5°	663.2	415.1	197.4	0.0
15°	673.3	420.2	207.6	0.0
12.5°	678.4	425.2	207.6	0.0
10°	688.5	435.4	207.6	0.0
7.5°	698.6	435.4	207.6	0.0
5°	698.6	435.4	207.6	0.0
2.5°	698.6	435.4	207.6	0.0
0°	698.6	435.4	207.6	0.0

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