

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: P623713

Luminaire Tested: **IFLD-M-SA4D-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623713
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	33366 lumens	Max Intensity:	40774.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	133.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	16583.7 lumens	Field Lumens:	21567.6 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

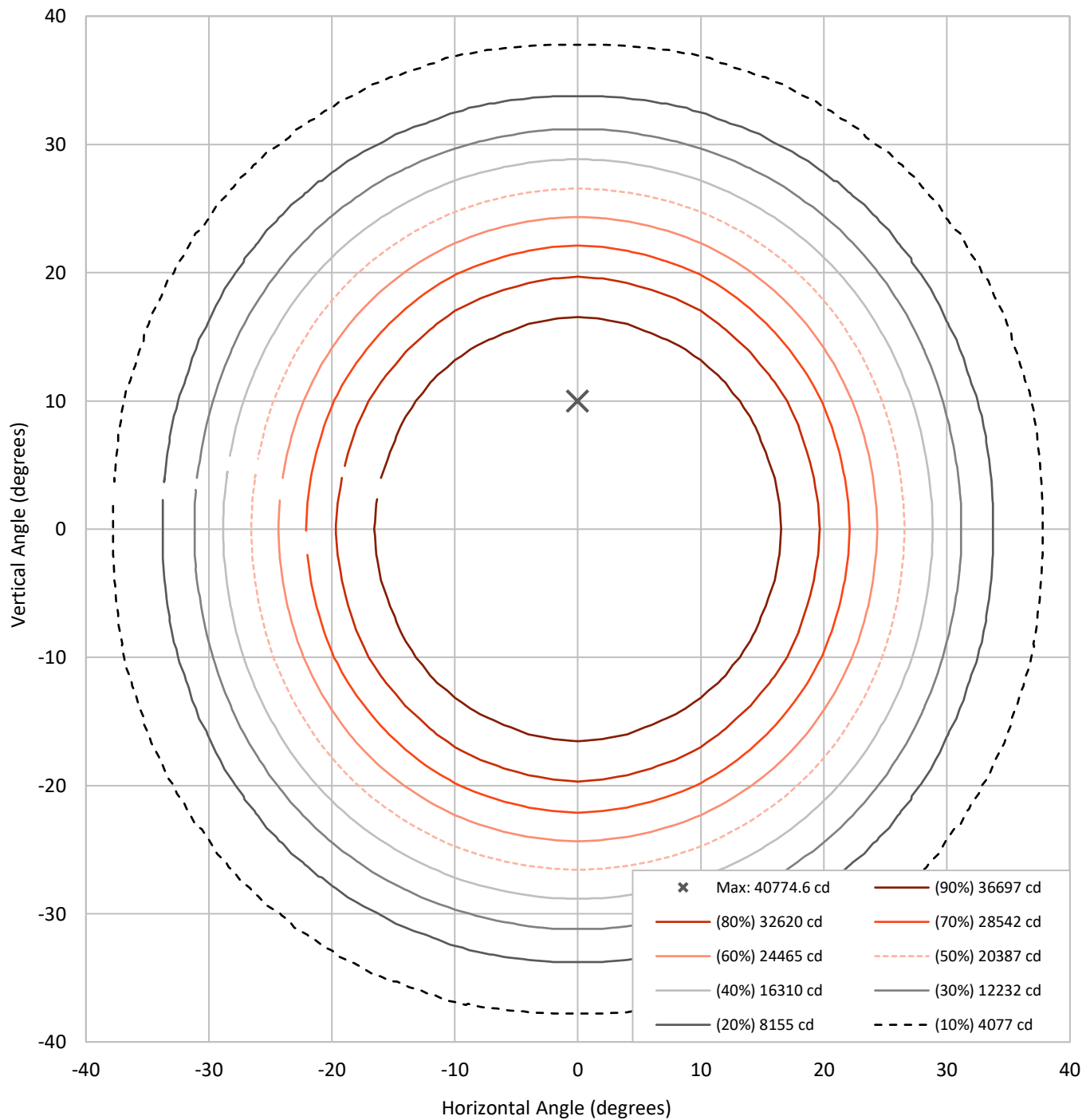
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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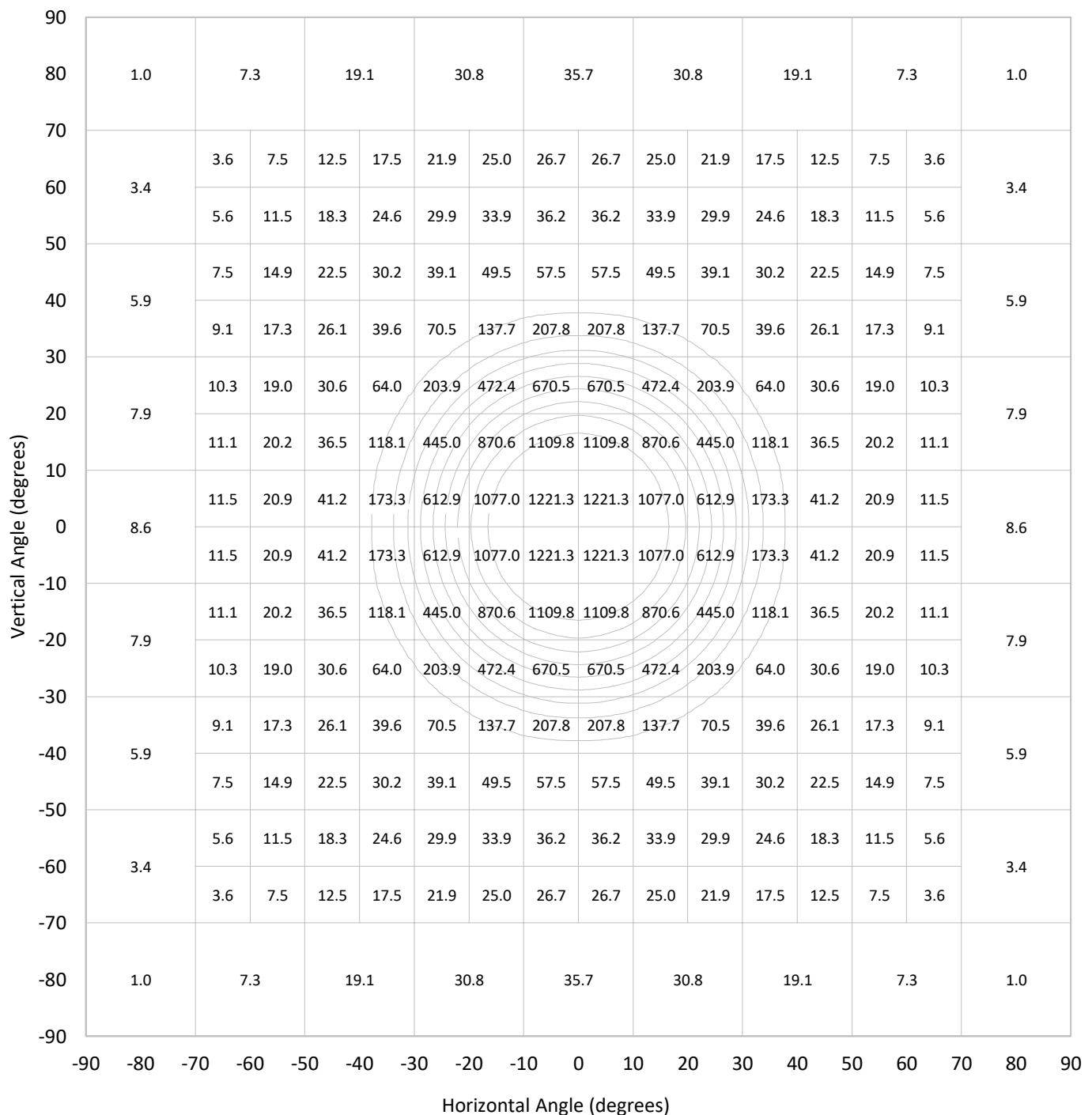
Iso-Candela Plot





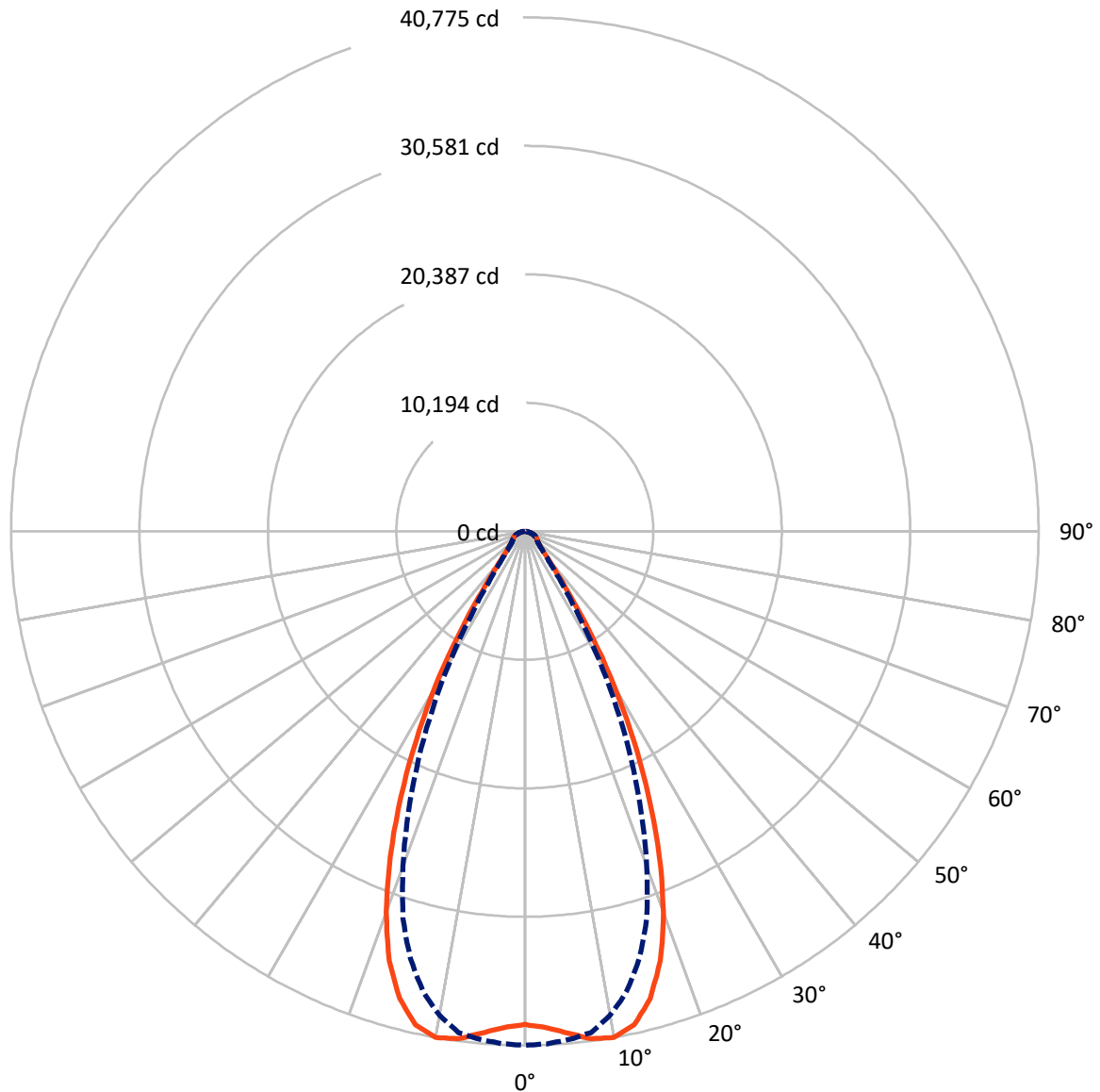
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Lumen Table



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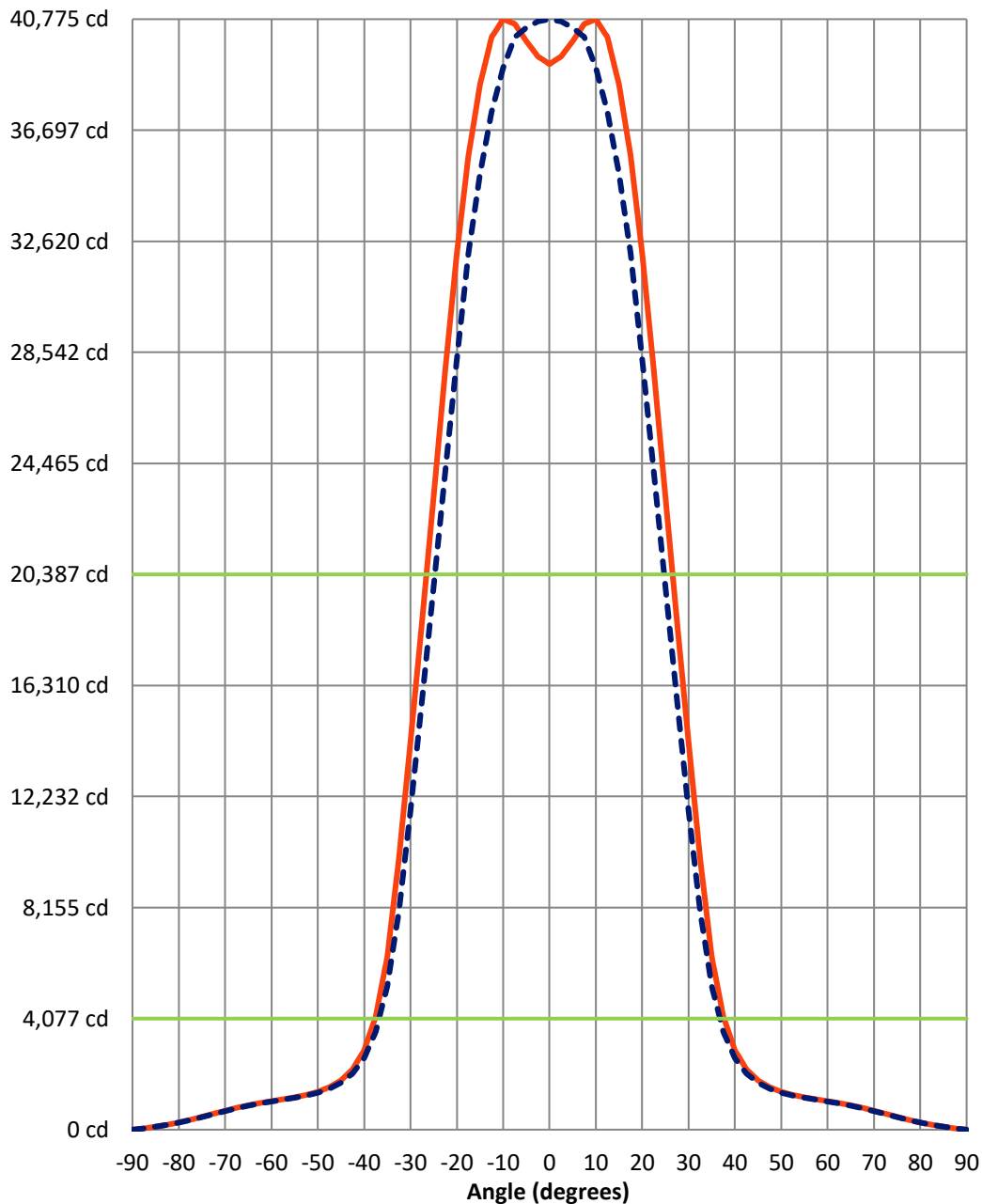
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 16583.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 21567.6
Efficiency: 64.6%

Spill:

Lumens: 11798.4
Efficiency: 35.4%

— Vertical Distribution through 0-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°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	41.6	41.6	41.6	41.6
85°	110.9	110.9	110.9	110.9	110.9	107.4	107.4	104.0	104.0	100.5	97.0
82.5°	180.2	180.2	180.2	180.2	176.8	176.8	173.3	169.8	166.4	162.9	159.4
80°	263.4	263.4	263.4	263.4	260.0	256.5	253.0	249.6	242.6	239.2	232.2
77.5°	360.5	360.5	360.5	357.0	353.5	350.1	343.1	336.2	329.3	322.3	315.4
75°	471.4	471.4	471.4	464.5	461.0	454.1	447.1	440.2	429.8	419.4	409.0
72.5°	585.8	585.8	585.8	578.8	571.9	565.0	558.0	547.6	537.2	523.4	509.5
70°	693.2	693.2	693.2	686.3	679.3	672.4	662.0	651.6	637.8	623.9	610.0
67.5°	804.1	804.1	804.1	793.7	786.8	779.9	769.5	755.6	741.7	724.4	707.1
65°	894.2	894.2	890.8	887.3	880.4	870.0	863.0	849.2	835.3	821.5	804.1
62.5°	977.4	977.4	974.0	970.5	963.6	953.2	942.8	932.4	918.5	901.2	883.8
60°	1046.7	1046.7	1043.3	1039.8	1032.9	1026.0	1015.6	1005.2	991.3	977.4	960.1
57.5°	1116.1	1116.1	1112.6	1109.1	1102.2	1091.8	1081.4	1071.0	1057.1	1039.8	1022.5
55°	1188.9	1188.9	1185.4	1178.5	1171.5	1161.1	1150.7	1136.9	1119.5	1102.2	1084.9
52.5°	1275.5	1275.5	1268.6	1261.6	1251.2	1240.8	1223.5	1206.2	1185.4	1164.6	1143.8
50°	1389.9	1389.9	1383.0	1372.6	1355.2	1337.9	1317.1	1289.4	1265.1	1237.4	1209.7
47.5°	1559.7	1559.7	1545.9	1528.5	1504.3	1476.5	1438.4	1396.8	1362.2	1327.5	1285.9
45°	1809.3	1809.3	1788.5	1760.8	1722.6	1674.1	1618.6	1559.7	1500.8	1441.9	1383.0
42.5°	2214.8	2214.8	2176.7	2128.2	2062.3	1979.1	1875.1	1778.1	1694.9	1601.3	1521.6
40°	2914.9	2914.9	2842.2	2752.0	2627.3	2467.8	2277.2	2124.7	1979.1	1816.2	1705.3
37.5°	4159.3	4159.3	4017.2	3843.9	3601.2	3296.2	2928.8	2682.7	2412.4	2155.9	1968.7
35°	6356.7	6356.7	6082.9	5746.7	5278.8	4689.6	4062.2	3597.8	3081.3	2686.2	2336.1
32.5°	9961.4	9961.4	9469.3	8862.7	8027.4	6970.2	5965.1	5081.2	4159.3	3504.2	2873.4
30°	14245.5	14245.5	13600.8	12807.1	11718.7	10346.2	8914.7	7344.6	5888.8	4720.8	3767.6
27.5°	18675.1	18491.4	17936.8	17032.2	15791.3	14245.5	12460.5	10432.8	8464.1	6405.3	5043.1
25°	23257.2	23042.3	22408.0	21368.2	19947.1	18196.8	16186.5	13919.7	11490.0	9036.0	6679.1
22.5°	27887.8	27645.2	26924.3	25749.3	24154.9	22193.1	19915.9	17396.1	14682.2	11847.0	9036.0
20°	32168.4	31911.9	31156.3	29932.8	28283.0	26130.6	23600.3	20806.7	17805.1	14682.2	11490.0
17.5°	35752.3	35506.2	34778.4	33610.3	32168.4	29787.2	27156.5	24085.6	20806.7	17396.1	13919.7
15°	38369.2	38157.8	37537.3	36556.4	35086.8	32979.5	30300.2	27156.5	23600.3	19915.9	16186.5
12.5°	40105.7	39935.8	39447.1	38684.6	37367.5	35599.8	32979.5	29787.2	26130.6	22193.1	18196.8
10°	40774.6	40691.4	40462.7	40112.6	38989.6	37367.5	35086.8	32168.4	28283.0	24154.9	19947.1
7.5°	40597.9	40625.6	40705.3	40615.2	40112.6	38684.6	36556.4	33610.3	29932.8	25749.3	21368.2
5°	39967.0	40116.1	40486.9	40705.3	40462.7	39447.1	37537.3	34778.4	31156.3	26924.3	22408.0
2.5°	39405.5	39637.8	40116.1	40625.6	40691.4	39935.8	38157.8	35506.2	31911.9	27645.2	23042.3
0°	39128.2	39405.5	39967.0	40597.9	40774.6	40105.7	38369.2	35752.3	32168.4	27887.8	23257.2

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CATALOG NUMBER: IFLD-M-SA4D-750-U-55

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°	41.6	38.1	38.1	38.1	34.7	34.7	34.7	31.2	31.2	27.7	27.7
85°	97.0	93.6	90.1	86.7	83.2	79.7	76.3	72.8	69.3	62.4	58.9
82.5°	156.0	152.5	149.0	142.1	138.6	131.7	124.8	117.8	110.9	107.4	100.5
80°	225.3	218.4	211.4	204.5	194.1	183.7	176.8	166.4	159.4	149.0	142.1
77.5°	305.0	294.6	284.2	270.4	260.0	249.6	235.7	225.3	211.4	197.6	183.7
75°	395.1	381.3	363.9	350.1	336.2	318.9	301.5	284.2	266.9	249.6	232.2
72.5°	492.2	474.8	457.5	440.2	419.4	395.1	374.3	350.1	329.3	308.5	284.2
70°	592.7	571.9	551.1	530.3	506.0	478.3	454.1	426.3	398.6	370.9	343.1
67.5°	686.3	665.5	641.2	620.4	592.7	565.0	533.8	502.6	471.4	436.7	402.1
65°	783.3	759.1	731.3	703.6	675.9	644.7	613.5	582.3	544.2	506.0	471.4
62.5°	863.0	842.3	818.0	790.3	759.1	724.4	693.2	651.6	613.5	575.4	530.3
60°	939.3	915.0	894.2	863.0	835.3	804.1	766.0	724.4	682.8	637.8	596.2
57.5°	1005.2	984.4	960.1	932.4	901.2	870.0	835.3	797.2	748.7	703.6	655.1
55°	1064.1	1039.8	1015.6	991.3	963.6	928.9	894.2	856.1	814.5	766.0	714.0
52.5°	1123.0	1098.7	1071.0	1046.7	1015.6	984.4	949.7	911.6	870.0	824.9	769.5
50°	1181.9	1154.2	1126.5	1095.3	1064.1	1032.9	998.2	963.6	918.5	873.4	824.9
47.5°	1251.2	1216.6	1181.9	1147.3	1116.1	1077.9	1043.3	1005.2	967.0	918.5	870.0
45°	1337.9	1285.9	1244.3	1202.7	1164.6	1126.5	1084.9	1046.7	1005.2	963.6	911.6
42.5°	1445.3	1376.0	1320.6	1265.1	1216.6	1171.5	1129.9	1084.9	1043.3	998.2	949.7
40°	1590.9	1497.3	1407.2	1337.9	1275.5	1220.0	1171.5	1126.5	1077.9	1032.9	984.4
37.5°	1781.6	1649.8	1525.1	1424.5	1344.8	1275.5	1216.6	1164.6	1116.1	1064.1	1015.6
35°	2069.2	1840.5	1681.0	1535.5	1424.5	1337.9	1265.1	1202.7	1147.3	1095.3	1046.7
32.5°	2474.8	2121.2	1864.7	1681.0	1525.1	1407.2	1320.6	1244.3	1181.9	1126.5	1071.0
30°	3008.5	2519.8	2121.2	1840.5	1649.8	1497.3	1376.0	1285.9	1216.6	1154.2	1098.7
27.5°	3854.2	3008.5	2474.8	2069.2	1781.6	1590.9	1445.3	1337.9	1251.2	1181.9	1123.0
25°	5043.1	3767.6	2873.4	2336.1	1968.7	1705.3	1521.6	1383.0	1285.9	1209.7	1143.8
22.5°	6405.3	4720.8	3504.2	2686.2	2155.9	1816.2	1601.3	1441.9	1327.5	1237.4	1164.6
20°	8464.1	5888.8	4159.3	3081.3	2412.4	1979.1	1694.9	1500.8	1362.2	1265.1	1185.4
17.5°	10432.8	7344.6	5081.2	3597.8	2682.7	2124.7	1778.1	1559.7	1396.8	1289.4	1206.2
15°	12460.5	8914.7	5965.1	4062.2	2928.8	2277.2	1875.1	1618.6	1438.4	1317.1	1223.5
12.5°	14245.5	10346.2	6970.2	4689.6	3296.2	2467.8	1979.1	1674.1	1476.5	1337.9	1240.8
10°	15791.3	11718.7	8027.4	5278.8	3601.2	2627.3	2062.3	1722.6	1504.3	1355.2	1251.2
7.5°	17032.2	12807.1	8862.7	5746.7	3843.9	2752.0	2128.2	1760.8	1528.5	1372.6	1261.6
5°	17936.8	13600.8	9469.3	6082.9	4017.2	2842.2	2176.7	1788.5	1545.9	1383.0	1268.6
2.5°	18491.4	14245.5	9961.4	6356.7	4159.3	2914.9	2214.8	1809.3	1559.7	1389.9	1275.5
0°	18675.1	14245.5	9961.4	6356.7	4159.3	2914.9	2214.8	1809.3	1559.7	1389.9	1275.5

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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°	24.3	24.3	20.8	20.8	17.3	17.3	13.9	13.9	10.4	10.4	6.9
85°	55.5	48.5	45.1	41.6	38.1	34.7	31.2	27.7	24.3	20.8	17.3
82.5°	93.6	86.7	76.3	69.3	62.4	55.5	45.1	41.6	34.7	27.7	24.3
80°	131.7	121.3	110.9	100.5	90.1	79.7	69.3	58.9	48.5	38.1	31.2
77.5°	169.8	156.0	145.6	131.7	117.8	104.0	90.1	76.3	62.4	48.5	38.1
75°	214.9	197.6	180.2	162.9	145.6	128.2	114.4	97.0	79.7	62.4	48.5
72.5°	263.4	239.2	218.4	197.6	173.3	156.0	135.2	117.8	97.0	76.3	58.9
70°	315.4	287.7	260.0	232.2	208.0	180.2	159.4	135.2	114.4	90.1	69.3
67.5°	367.4	336.2	305.0	270.4	239.2	211.4	180.2	156.0	128.2	104.0	79.7
65°	429.8	388.2	350.1	311.9	273.8	239.2	208.0	173.3	145.6	117.8	90.1
62.5°	488.7	443.7	398.6	353.5	311.9	270.4	232.2	197.6	162.9	131.7	100.5
60°	547.6	499.1	447.1	398.6	350.1	305.0	260.0	218.4	180.2	145.6	110.9
57.5°	606.6	551.1	499.1	443.7	388.2	336.2	287.7	239.2	197.6	156.0	121.3
55°	658.5	606.6	547.6	488.7	429.8	367.4	315.4	263.4	214.9	169.8	131.7
52.5°	714.0	655.1	596.2	530.3	471.4	402.1	343.1	284.2	232.2	183.7	142.1
50°	766.0	703.6	637.8	575.4	506.0	436.7	370.9	308.5	249.6	197.6	149.0
47.5°	814.5	748.7	682.8	613.5	544.2	471.4	398.6	329.3	266.9	211.4	159.4
45°	856.1	797.2	724.4	651.6	582.3	502.6	426.3	350.1	284.2	225.3	166.4
42.5°	894.2	835.3	766.0	693.2	613.5	533.8	454.1	374.3	301.5	235.7	176.8
40°	928.9	870.0	804.1	724.4	644.7	565.0	478.3	395.1	318.9	249.6	183.7
37.5°	963.6	901.2	835.3	759.1	675.9	592.7	506.0	419.4	336.2	260.0	194.1
35°	991.3	932.4	863.0	790.3	703.6	620.4	530.3	440.2	350.1	270.4	204.5
32.5°	1015.6	960.1	894.2	818.0	731.3	641.2	551.1	457.5	363.9	284.2	211.4
30°	1039.8	984.4	915.0	842.3	759.1	665.5	571.9	474.8	381.3	294.6	218.4
27.5°	1064.1	1005.2	939.3	863.0	783.3	686.3	592.7	492.2	395.1	305.0	225.3
25°	1084.9	1022.5	960.1	883.8	804.1	707.1	610.0	509.5	409.0	315.4	232.2
22.5°	1102.2	1039.8	977.4	901.2	821.5	724.4	623.9	523.4	419.4	322.3	239.2
20°	1119.5	1057.1	991.3	918.5	835.3	741.7	637.8	537.2	429.8	329.3	242.6
17.5°	1136.9	1071.0	1005.2	932.4	849.2	755.6	651.6	547.6	440.2	336.2	249.6
15°	1150.7	1081.4	1015.6	942.8	863.0	769.5	662.0	558.0	447.1	343.1	253.0
12.5°	1161.1	1091.8	1026.0	953.2	870.0	779.9	672.4	565.0	454.1	350.1	256.5
10°	1171.5	1102.2	1032.9	963.6	880.4	786.8	679.3	571.9	461.0	353.5	260.0
7.5°	1178.5	1109.1	1039.8	970.5	887.3	793.7	686.3	578.8	464.5	357.0	263.4
5°	1185.4	1112.6	1043.3	974.0	890.8	804.1	693.2	585.8	471.4	360.5	263.4
2.5°	1188.9	1116.1	1046.7	977.4	894.2	804.1	693.2	585.8	471.4	360.5	263.4
0°	1188.9	1116.1	1046.7	977.4	894.2	804.1	693.2	585.8	471.4	360.5	263.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	3.5	0.0
85°	10.4	6.9	3.5	0.0
82.5°	17.3	10.4	6.9	0.0
80°	24.3	17.3	6.9	0.0
77.5°	27.7	20.8	10.4	0.0
75°	34.7	24.3	10.4	0.0
72.5°	41.6	27.7	13.9	0.0
70°	45.1	31.2	13.9	0.0
67.5°	55.5	34.7	17.3	0.0
65°	62.4	38.1	17.3	0.0
62.5°	69.3	41.6	20.8	0.0
60°	76.3	45.1	20.8	0.0
57.5°	86.7	48.5	24.3	0.0
55°	93.6	55.5	24.3	0.0
52.5°	100.5	58.9	27.7	0.0
50°	107.4	62.4	27.7	0.0
47.5°	110.9	69.3	31.2	0.0
45°	117.8	72.8	31.2	0.0
42.5°	124.8	76.3	34.7	0.0
40°	131.7	79.7	34.7	0.0
37.5°	138.6	83.2	34.7	0.0
35°	142.1	86.7	38.1	0.0
32.5°	149.0	90.1	38.1	0.0
30°	152.5	93.6	38.1	0.0
27.5°	156.0	97.0	41.6	0.0
25°	159.4	97.0	41.6	0.0
22.5°	162.9	100.5	41.6	0.0
20°	166.4	104.0	41.6	0.0
17.5°	169.8	104.0	41.6	0.0
15°	173.3	107.4	45.1	0.0
12.5°	176.8	107.4	45.1	0.0
10°	176.8	110.9	45.1	0.0
7.5°	180.2	110.9	45.1	0.0
5°	180.2	110.9	45.1	0.0
2.5°	180.2	110.9	45.1	0.0
0°	180.2	110.9	45.1	0.0

(END OF REPORT)