

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: P623963

Luminaire Tested: **IFLD-S-SA3C-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623963
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

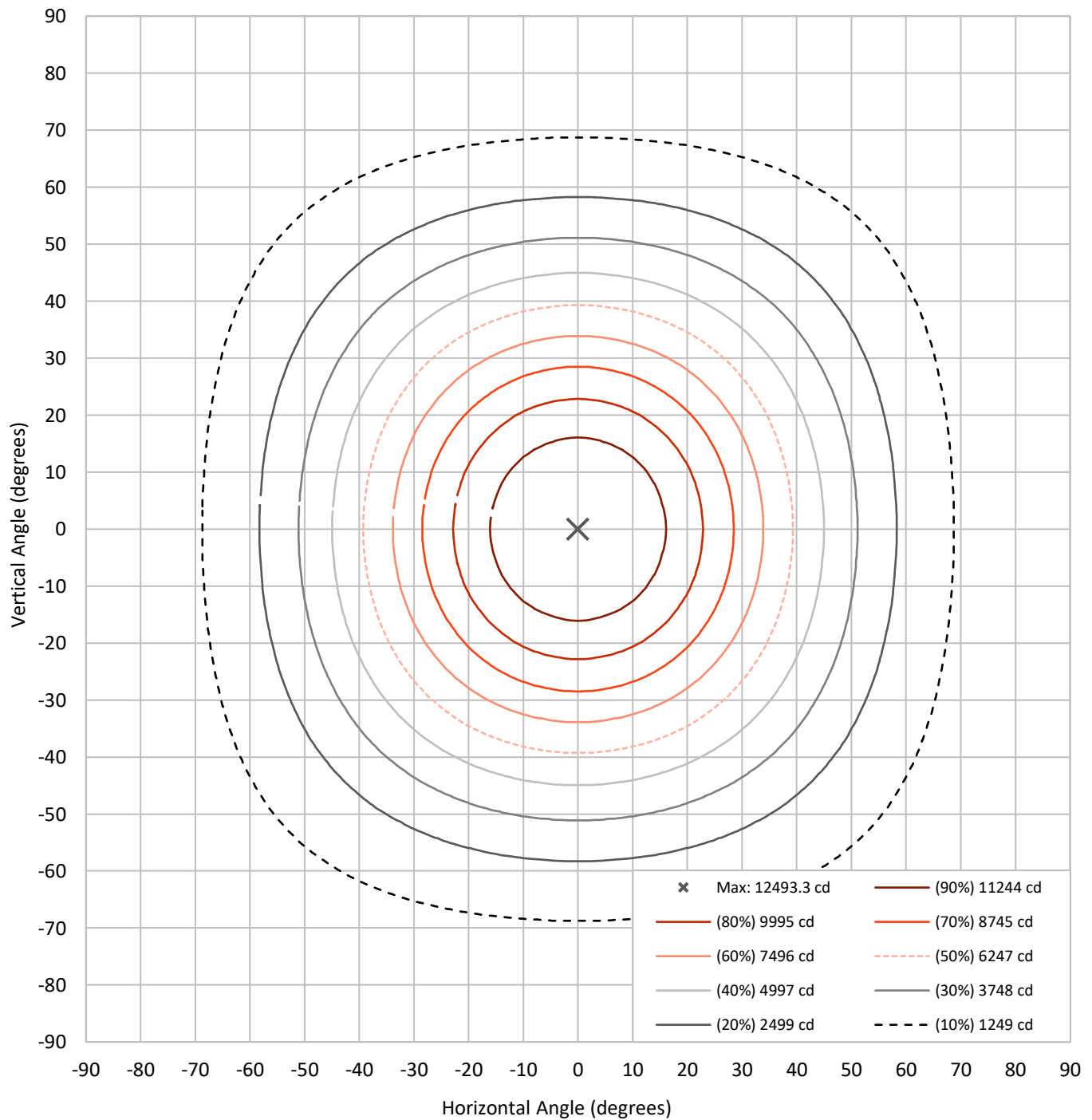
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22494.5 lumens	Max Intensity:	12493.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	9733.2 lumens	Field Lumens:	15937.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

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



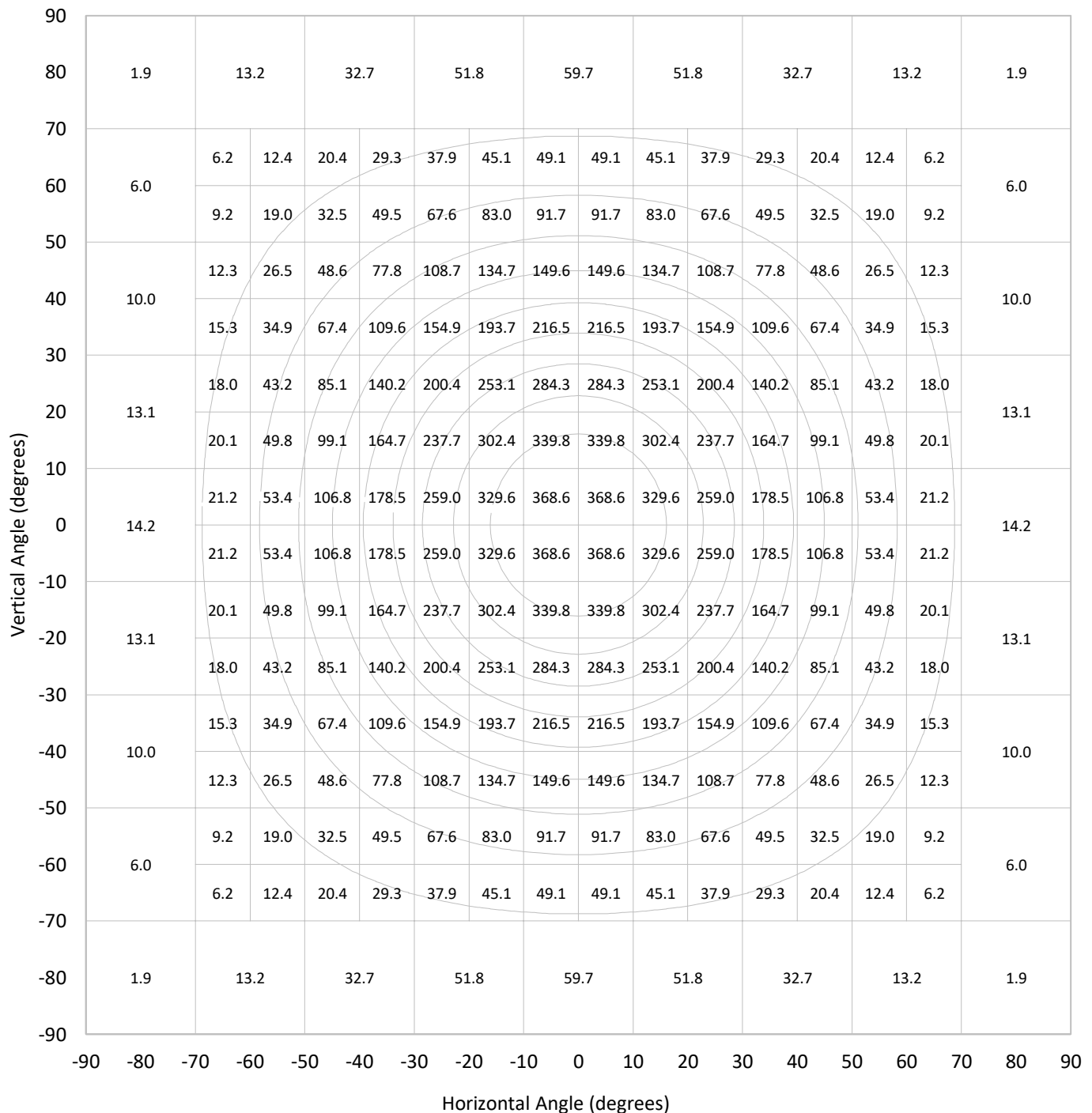
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Iso-Candela Plot



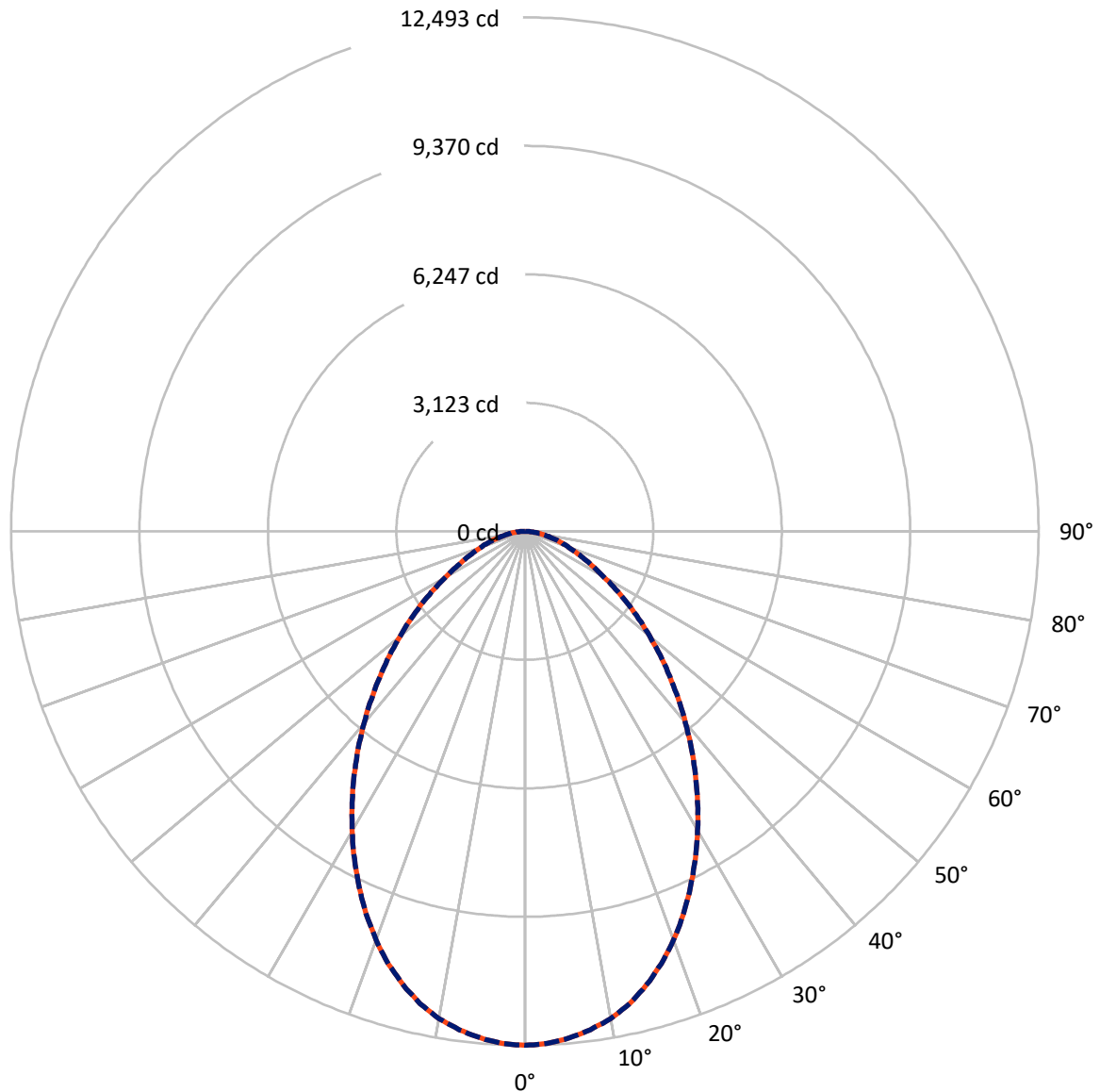
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Lumen Table



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Luminous Intensity Polar Plot

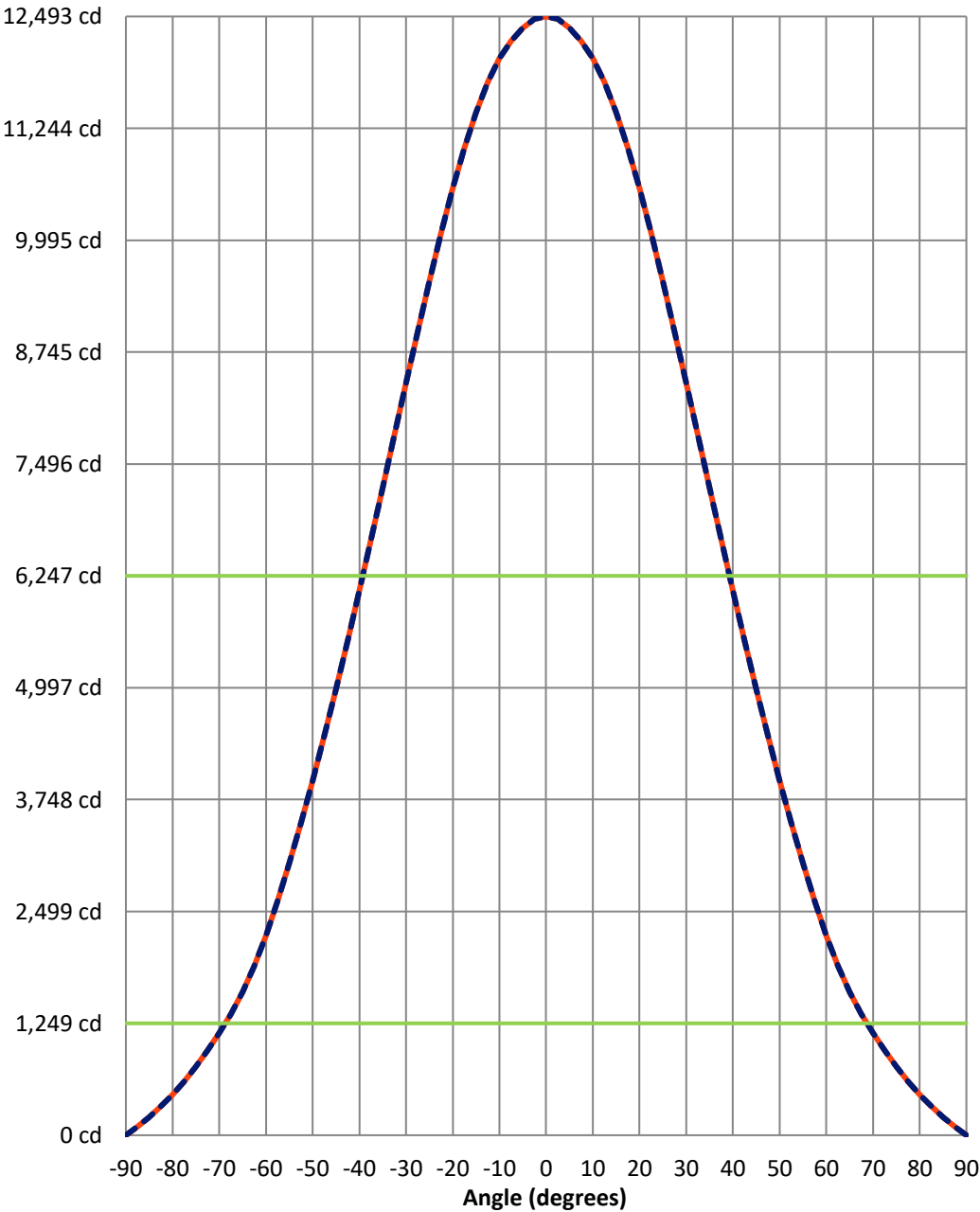


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9733.2
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15937.7
Efficiency: 70.9%

Spill:
Lumens: 6556.8
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°	96.2	96.2	96.2	96.2	96.2	96.2	96.2	91.5	91.5	89.1	86.8
85°	201.7	201.7	201.7	201.7	201.7	197.0	194.7	192.3	190.0	185.3	182.9
82.5°	323.6	323.6	323.6	323.6	319.0	314.3	311.9	307.2	302.5	295.5	288.5
80°	452.6	452.6	452.6	452.6	445.6	440.9	433.9	429.2	422.2	412.8	403.4
77.5°	600.4	600.4	600.4	593.4	588.7	581.6	574.6	565.2	555.8	544.1	530.0
75°	766.9	766.9	766.9	757.5	750.5	743.5	731.7	720.0	705.9	689.5	670.8
72.5°	947.5	947.5	947.5	935.8	928.7	917.0	902.9	886.5	870.1	849.0	825.5
70°	1142.2	1142.2	1142.2	1128.1	1116.4	1104.6	1085.9	1067.1	1043.7	1020.2	992.1
67.5°	1353.2	1353.2	1353.2	1336.8	1322.7	1306.3	1285.2	1261.8	1233.6	1200.8	1168.0
65°	1599.5	1599.5	1590.1	1576.0	1559.6	1536.2	1510.4	1477.5	1442.3	1400.1	1355.6
62.5°	1890.3	1890.3	1876.2	1859.8	1838.7	1808.2	1773.0	1730.8	1681.6	1627.6	1573.7
60°	2228.0	2228.0	2211.6	2190.5	2160.0	2122.5	2075.6	2021.6	1960.7	1892.6	1827.0
57.5°	2617.3	2617.3	2596.2	2568.1	2530.6	2483.7	2425.0	2357.0	2279.6	2195.2	2113.1
55°	3039.5	3039.5	3013.7	2980.9	2936.3	2880.0	2809.6	2729.9	2636.1	2539.9	2434.4
52.5°	3487.4	3487.4	3456.9	3419.4	3367.8	3302.2	3222.4	3128.6	3020.7	2908.2	2783.9
50°	3958.8	3958.8	3923.7	3881.4	3822.8	3745.4	3654.0	3546.1	3426.5	3295.1	3152.1
47.5°	4463.1	4463.1	4423.2	4374.0	4303.6	4214.5	4106.6	3982.3	3846.3	3698.5	3536.7
45°	4981.4	4981.4	4936.8	4880.5	4803.1	4702.3	4582.7	4463.1	4289.5	4118.3	3930.7
42.5°	5520.8	5520.8	5469.2	5405.9	5316.8	5206.5	5070.5	4915.7	4744.5	4552.2	4348.2
40°	6081.3	6081.3	6022.7	5950.0	5851.5	5724.8	5572.4	5398.8	5206.5	4993.1	4768.0
37.5°	6653.6	6653.6	6587.9	6508.2	6397.9	6257.2	6086.0	5893.7	5677.9	5441.1	5192.5
35°	7230.5	7230.5	7157.8	7071.0	6949.1	6794.3	6609.0	6395.6	6156.4	5898.4	5619.3
32.5°	7819.2	7819.2	7739.4	7640.9	7502.6	7331.4	7127.3	6895.1	6653.6	6353.4	6048.5
30°	8400.8	8400.8	8314.0	8206.1	8058.4	7870.8	7648.0	7392.3	7108.6	6801.3	6473.0
27.5°	8973.1	8949.6	8876.9	8762.0	8600.2	8400.8	8159.2	7882.5	7575.3	7237.5	6885.8
25°	9535.9	9510.1	9430.4	9303.7	9130.2	8912.1	8651.8	8356.2	8025.6	7669.1	7284.5
22.5°	10075.3	10047.2	9962.8	9826.7	9641.5	9404.6	9125.5	8808.9	8457.1	8074.8	7669.1
20°	10574.9	10544.4	10457.6	10314.6	10122.2	9871.3	9575.8	9235.7	8860.5	8457.1	8025.6
17.5°	11025.2	10994.7	10903.2	10755.5	10574.9	10295.8	9990.9	9632.1	9235.7	8808.9	8356.2
15°	11421.5	11388.7	11294.9	11147.1	10940.7	10678.1	10356.8	9990.9	9575.8	9125.5	8651.8
12.5°	11759.3	11726.4	11630.3	11482.5	11269.1	11006.4	10678.1	10295.8	9871.3	9404.6	8912.1
10°	12026.6	11993.8	11902.3	11761.6	11541.1	11269.1	10940.7	10574.9	10122.2	9641.5	9130.2
7.5°	12218.9	12188.4	12104.0	11963.3	11761.6	11482.5	11147.1	10755.5	10314.6	9826.7	9303.7
5°	12364.3	12329.2	12244.7	12104.0	11902.3	11630.3	11294.9	10903.2	10457.6	9962.8	9430.4
2.5°	12465.2	12423.0	12329.2	12188.4	11993.8	11726.4	11388.7	10994.7	10544.4	10047.2	9510.1
0°	12493.3	12465.2	12364.3	12218.9	12026.6	11759.3	11421.5	11025.2	10574.9	10075.3	9535.9

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CATALOG NUMBER: IFLD-S-SA3C-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°	84.4	84.4	82.1	79.7	77.4	72.7	70.4	68.0	65.7	61.0	58.6
85°	178.2	173.6	168.9	164.2	157.1	152.4	145.4	140.7	133.7	126.6	119.6
82.5°	281.4	274.4	265.0	258.0	248.6	236.9	227.5	215.8	204.0	194.7	182.9
80°	394.0	382.3	370.6	358.8	344.8	330.7	316.6	302.5	286.1	269.7	253.3
77.5°	516.0	499.5	483.1	464.4	447.9	429.2	410.4	391.7	370.6	349.4	328.3
75°	652.0	630.9	607.4	584.0	562.9	537.1	511.3	485.5	457.3	431.5	403.4
72.5°	799.7	773.9	745.8	717.7	687.2	654.3	621.5	586.3	553.5	520.7	485.5
70°	959.2	928.7	893.6	858.4	820.8	781.0	741.1	698.9	656.7	614.5	572.2
67.5°	1130.4	1092.9	1050.7	1008.5	961.6	914.7	867.8	818.5	766.9	715.3	666.1
65°	1313.4	1266.5	1217.2	1163.3	1109.3	1055.4	999.1	940.5	881.8	820.8	766.9
62.5°	1517.4	1458.8	1395.4	1329.8	1268.8	1203.1	1142.2	1069.4	999.1	931.1	863.1
60°	1754.3	1676.9	1599.5	1517.4	1440.0	1355.6	1280.5	1200.8	1121.0	1043.7	963.9
57.5°	2019.3	1920.8	1827.0	1728.5	1625.3	1531.5	1435.3	1339.2	1250.0	1158.6	1071.8
55°	2319.5	2199.9	2082.6	1960.7	1841.0	1723.8	1601.8	1493.9	1383.7	1280.5	1179.7
52.5°	2647.8	2511.8	2366.4	2228.0	2075.6	1930.2	1794.1	1658.1	1529.1	1404.8	1289.9
50°	2999.6	2840.1	2673.6	2504.8	2331.2	2160.0	1995.8	1836.4	1686.3	1540.9	1404.8
47.5°	3365.5	3184.9	2994.9	2802.6	2617.3	2408.6	2211.6	2031.0	1850.4	1686.3	1529.1
45°	3740.7	3536.7	3328.0	3109.8	2891.7	2666.6	2448.5	2228.0	2031.0	1836.4	1658.1
42.5°	4127.7	3897.9	3665.7	3424.1	3182.5	2936.3	2690.0	2448.5	2211.6	1995.8	1794.1
40°	4526.4	4273.1	4008.1	3745.4	3487.4	3206.0	2936.3	2666.6	2408.6	2160.0	1930.2
37.5°	4925.1	4648.4	4362.2	4066.7	3771.2	3487.4	3182.5	2891.7	2617.3	2331.2	2075.6
35°	5326.1	5021.3	4711.7	4390.4	4066.7	3745.4	3424.1	3109.8	2802.6	2504.8	2228.0
32.5°	5729.5	5396.5	5054.1	4711.7	4362.2	4008.1	3665.7	3328.0	2994.9	2673.6	2366.4
30°	6125.9	5764.7	5396.5	5021.3	4648.4	4273.1	3897.9	3536.7	3184.9	2840.1	2511.8
27.5°	6512.9	6125.9	5729.5	5326.1	4925.1	4526.4	4127.7	3740.7	3365.5	2999.6	2647.8
25°	6885.8	6473.0	6048.5	5619.3	5192.5	4768.0	4348.2	3930.7	3536.7	3152.1	2783.9
22.5°	7237.5	6801.3	6353.4	5898.4	5441.1	4993.1	4552.2	4118.3	3698.5	3295.1	2908.2
20°	7575.3	7108.6	6653.6	6156.4	5677.9	5206.5	4744.5	4289.5	3846.3	3426.5	3020.7
17.5°	7882.5	7392.3	6895.1	6395.6	5893.7	5398.8	4915.7	4463.1	3982.3	3546.1	3128.6
15°	8159.2	7648.0	7127.3	6609.0	6086.0	5572.4	5070.5	4582.7	4106.6	3654.0	3222.4
12.5°	8400.8	7870.8	7331.4	6794.3	6257.2	5724.8	5206.5	4702.3	4214.5	3745.4	3302.2
10°	8600.2	8058.4	7502.6	6949.1	6397.9	5851.5	5316.8	4803.1	4303.6	3822.8	3367.8
7.5°	8762.0	8206.1	7640.9	7071.0	6508.2	5950.0	5405.9	4880.5	4374.0	3881.4	3419.4
5°	8876.9	8314.0	7739.4	7157.8	6587.9	6022.7	5469.2	4936.8	4423.2	3923.7	3456.9
2.5°	8949.6	8400.8	7819.2	7230.5	6653.6	6081.3	5520.8	4981.4	4463.1	3958.8	3487.4
0°	8973.1	8400.8	7819.2	7230.5	6653.6	6081.3	5520.8	4981.4	4463.1	3958.8	3487.4

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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°	56.3	51.6	46.9	44.6	39.9	37.5	32.8	28.1	25.8	21.1	16.4
85°	112.6	103.2	96.2	89.1	82.1	72.7	65.7	58.6	49.3	42.2	32.8
82.5°	171.2	159.5	147.8	136.0	124.3	112.6	98.5	86.8	75.0	63.3	49.3
80°	236.9	218.1	201.7	185.3	168.9	152.4	133.7	117.3	98.5	82.1	65.7
77.5°	304.9	283.8	260.3	236.9	213.4	192.3	168.9	147.8	126.6	103.2	82.1
75°	377.6	349.4	323.6	293.2	265.0	234.5	206.4	178.2	152.4	126.6	98.5
72.5°	452.6	417.5	382.3	349.4	314.3	279.1	246.3	211.1	178.2	147.8	117.3
70°	530.0	487.8	445.6	405.7	365.9	323.6	286.1	246.3	206.4	168.9	133.7
67.5°	612.1	562.9	513.6	462.0	417.5	370.6	323.6	279.1	234.5	192.3	152.4
65°	701.2	642.6	581.6	527.7	469.1	417.5	365.9	314.3	265.0	213.4	168.9
62.5°	792.7	724.7	656.7	588.7	527.7	462.0	405.7	349.4	293.2	236.9	185.3
60°	886.5	809.1	731.7	656.7	581.6	513.6	445.6	382.3	323.6	260.3	201.7
57.5°	982.7	895.9	809.1	724.7	642.6	562.9	487.8	417.5	349.4	283.8	218.1
55°	1081.2	982.7	886.5	792.7	701.2	612.1	530.0	452.6	377.6	304.9	236.9
52.5°	1179.7	1071.8	963.9	863.1	766.9	666.1	572.2	485.5	403.4	328.3	253.3
50°	1280.5	1158.6	1043.7	931.1	820.8	715.3	614.5	520.7	431.5	349.4	269.7
47.5°	1383.7	1250.0	1121.0	999.1	881.8	766.9	656.7	553.5	457.3	370.6	286.1
45°	1493.9	1339.2	1200.8	1069.4	940.5	818.5	698.9	586.3	485.5	391.7	302.5
42.5°	1601.8	1435.3	1280.5	1142.2	999.1	867.8	741.1	621.5	511.3	410.4	316.6
40°	1723.8	1531.5	1355.6	1203.1	1055.4	914.7	781.0	654.3	537.1	429.2	330.7
37.5°	1841.0	1625.3	1440.0	1268.8	1109.3	961.6	820.8	687.2	562.9	447.9	344.8
35°	1960.7	1728.5	1517.4	1329.8	1163.3	1008.5	858.4	717.7	584.0	464.4	358.8
32.5°	2082.6	1827.0	1599.5	1395.4	1217.2	1050.7	893.6	745.8	607.4	483.1	370.6
30°	2199.9	1920.8	1676.9	1458.8	1266.5	1092.9	928.7	773.9	630.9	499.5	382.3
27.5°	2319.5	2019.3	1754.3	1517.4	1313.4	1130.4	959.2	799.7	652.0	516.0	394.0
25°	2434.4	2113.1	1827.0	1573.7	1355.6	1168.0	992.1	825.5	670.8	530.0	403.4
22.5°	2539.9	2195.2	1892.6	1627.6	1400.1	1200.8	1020.2	849.0	689.5	544.1	412.8
20°	2636.1	2279.6	1960.7	1681.6	1442.3	1233.6	1043.7	870.1	705.9	555.8	422.2
17.5°	2729.9	2357.0	2021.6	1730.8	1477.5	1261.8	1067.1	886.5	720.0	565.2	429.2
15°	2809.6	2425.0	2075.6	1773.0	1510.4	1285.2	1085.9	902.9	731.7	574.6	433.9
12.5°	2880.0	2483.7	2122.5	1808.2	1536.2	1306.3	1104.6	917.0	743.5	581.6	440.9
10°	2936.3	2530.6	2160.0	1838.7	1559.6	1322.7	1116.4	928.7	750.5	588.7	445.6
7.5°	2980.9	2568.1	2190.5	1859.8	1576.0	1336.8	1128.1	935.8	757.5	593.4	452.6
5°	3013.7	2596.2	2211.6	1876.2	1590.1	1353.2	1142.2	947.5	766.9	600.4	452.6
2.5°	3039.5	2617.3	2228.0	1890.3	1599.5	1353.2	1142.2	947.5	766.9	600.4	452.6
0°	3039.5	2617.3	2228.0	1890.3	1599.5	1353.2	1142.2	947.5	766.9	600.4	452.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	9.4	4.7	0.0
85°	25.8	16.4	9.4	0.0
82.5°	37.5	25.8	11.7	0.0
80°	49.3	32.8	16.4	0.0
77.5°	63.3	42.2	21.1	0.0
75°	75.0	49.3	25.8	0.0
72.5°	86.8	58.6	28.1	0.0
70°	98.5	65.7	32.8	0.0
67.5°	112.6	72.7	37.5	0.0
65°	124.3	82.1	39.9	0.0
62.5°	136.0	89.1	44.6	0.0
60°	147.8	96.2	46.9	0.0
57.5°	159.5	103.2	51.6	0.0
55°	171.2	112.6	56.3	0.0
52.5°	182.9	119.6	58.6	0.0
50°	194.7	126.6	61.0	0.0
47.5°	204.0	133.7	65.7	0.0
45°	215.8	140.7	68.0	0.0
42.5°	227.5	145.4	70.4	0.0
40°	236.9	152.4	72.7	0.0
37.5°	248.6	157.1	77.4	0.0
35°	258.0	164.2	79.7	0.0
32.5°	265.0	168.9	82.1	0.0
30°	274.4	173.6	84.4	0.0
27.5°	281.4	178.2	84.4	0.0
25°	288.5	182.9	86.8	0.0
22.5°	295.5	185.3	89.1	0.0
20°	302.5	190.0	91.5	0.0
17.5°	307.2	192.3	91.5	0.0
15°	311.9	194.7	96.2	0.0
12.5°	314.3	197.0	96.2	0.0
10°	319.0	201.7	96.2	0.0
7.5°	323.6	201.7	96.2	0.0
5°	323.6	201.7	96.2	0.0
2.5°	323.6	201.7	96.2	0.0
0°	323.6	201.7	96.2	0.0

(END OF REPORT)