

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: P624519

Luminaire Tested: **IFLD-L-SA7E-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

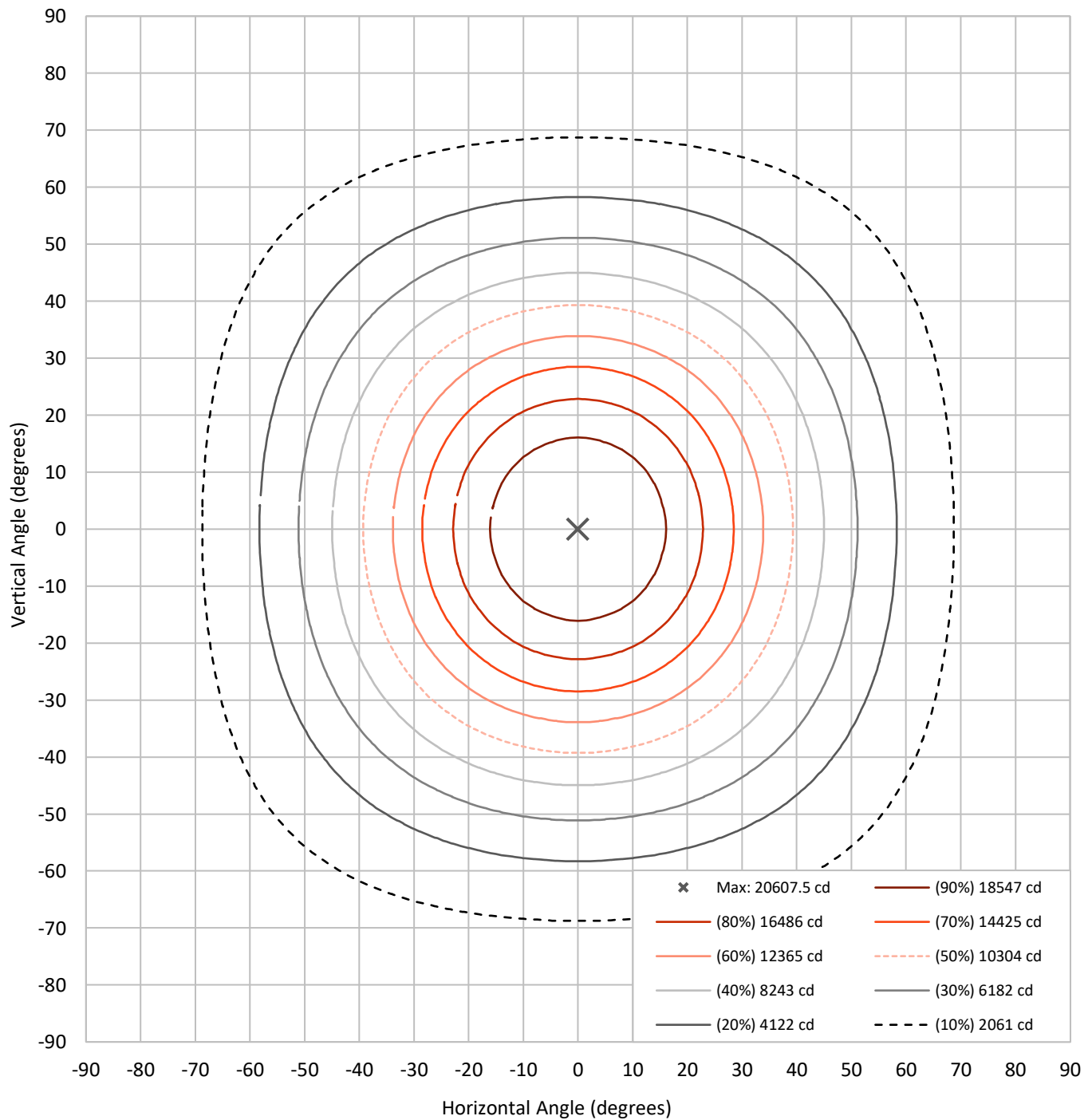
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37104.3 lumens	Max Intensity:	20607.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	69.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16054.7 lumens	Field Lumens:	26289 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	532.7		
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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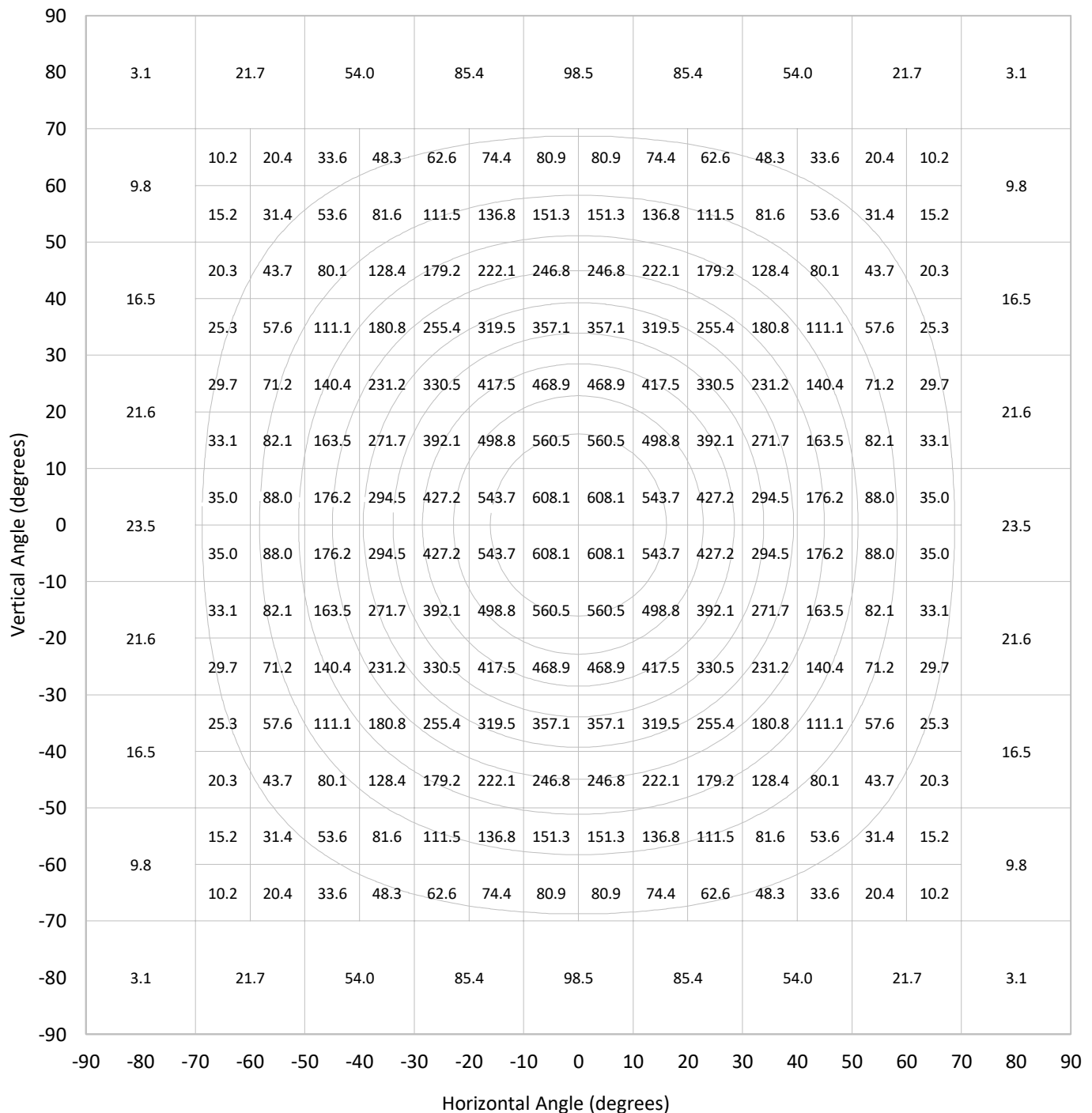
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Iso-Candela Plot



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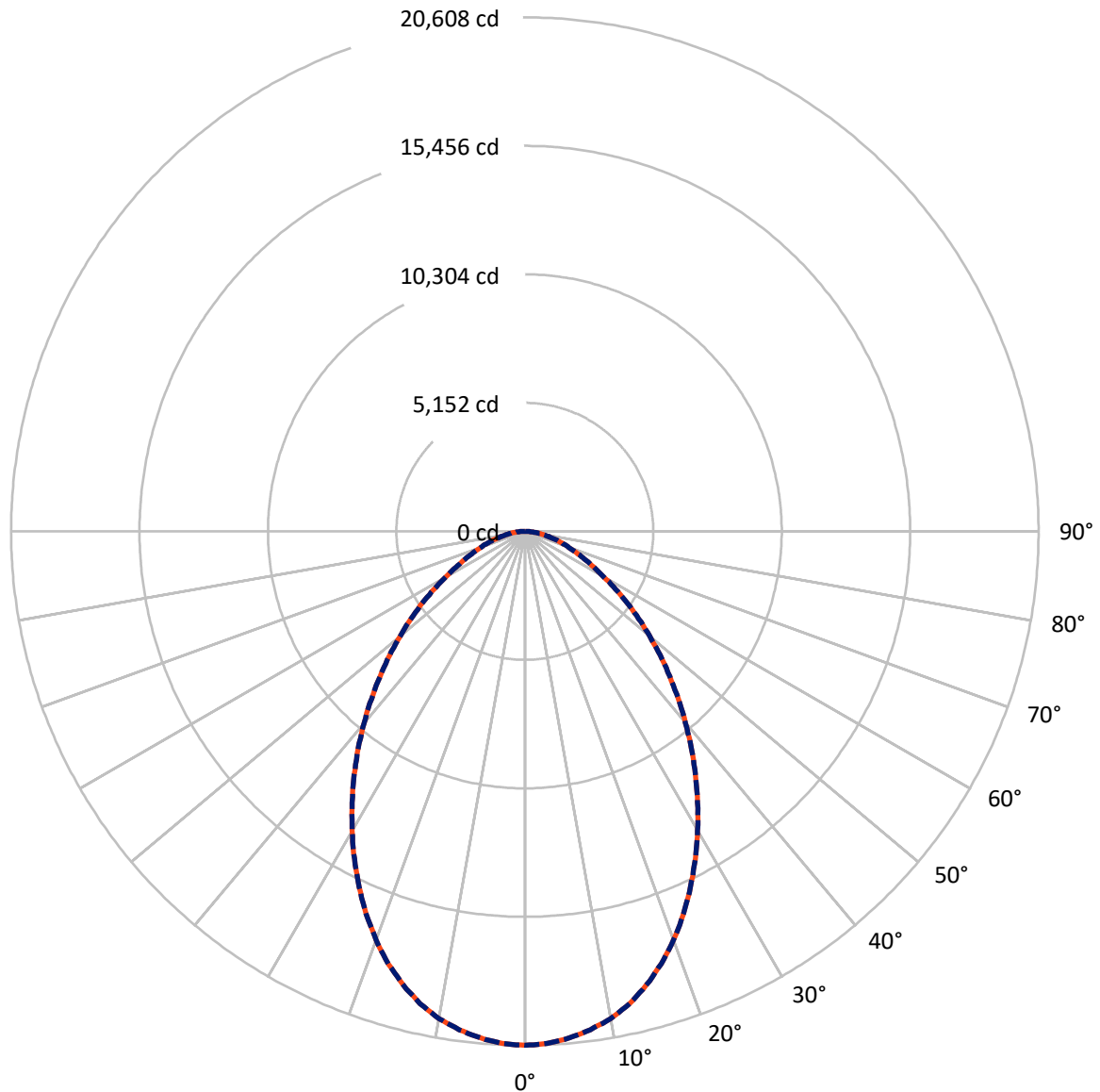
Lumen Table



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Luminous Intensity Polar Plot

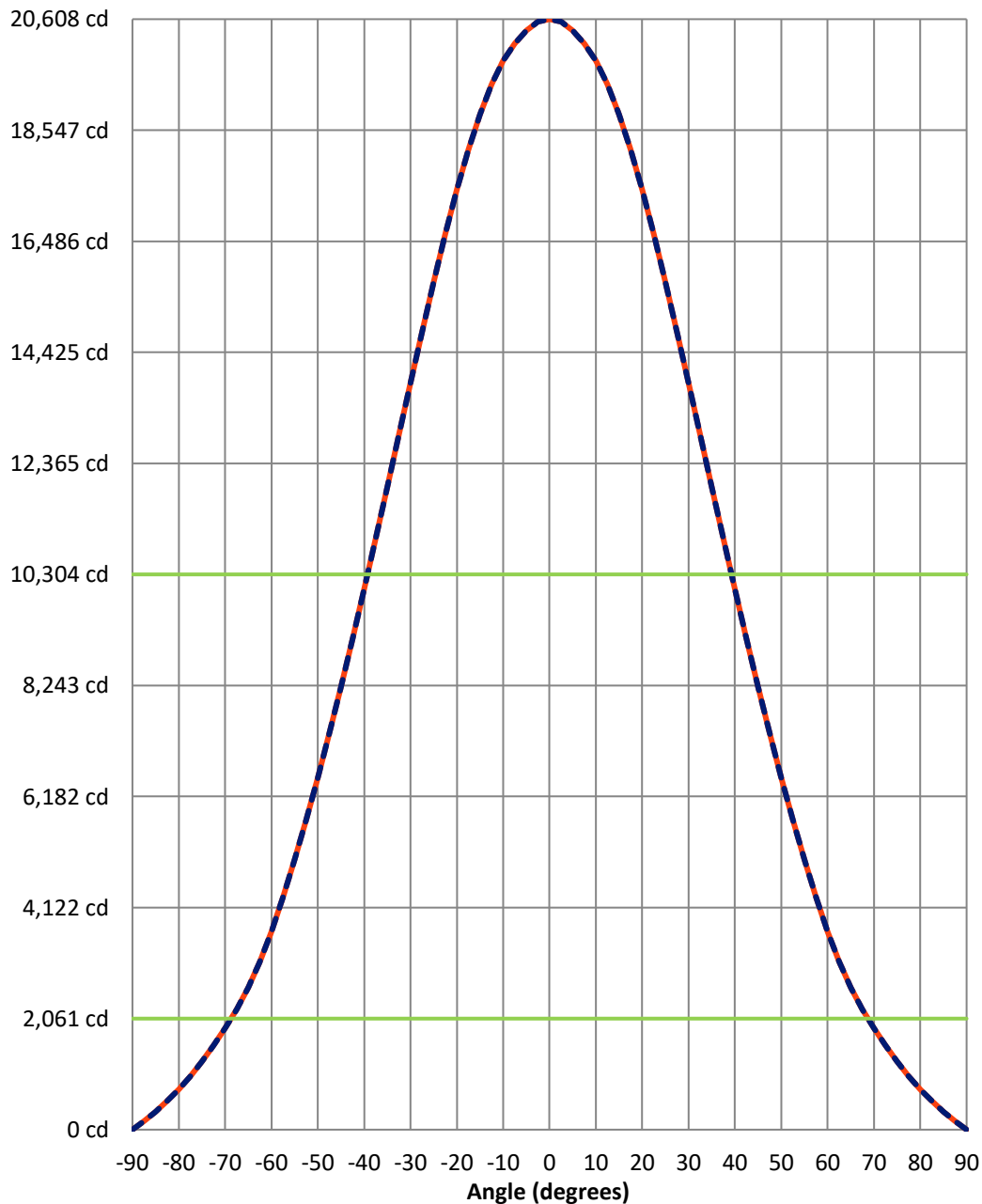


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16054.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26289
Efficiency: 70.9%

Spill:

Lumens: 10815.3
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°	158.6	158.6	158.6	158.6	158.6	158.6	158.6	150.9	150.9	147.0	143.1
85°	332.7	332.7	332.7	332.7	332.7	325.0	321.1	317.2	313.3	305.6	301.7
82.5°	533.9	533.9	533.9	533.9	526.1	518.4	514.5	506.8	499.0	487.4	475.8
80°	746.6	746.6	746.6	746.6	735.0	727.3	715.7	707.9	696.3	680.9	665.4
77.5°	990.3	990.3	990.3	978.7	971.0	959.4	947.8	932.3	916.8	897.5	874.3
75°	1265.0	1265.0	1265.0	1249.5	1237.9	1226.3	1207.0	1187.6	1164.4	1137.3	1106.4
72.5°	1562.9	1562.9	1562.9	1543.5	1531.9	1512.6	1489.4	1462.3	1435.2	1400.4	1361.7
70°	1884.0	1884.0	1884.0	1860.8	1841.4	1822.1	1791.1	1760.2	1721.5	1682.8	1636.4
67.5°	2232.1	2232.1	2232.1	2205.0	2181.8	2154.8	2119.9	2081.3	2034.8	1980.7	1926.5
65°	2638.3	2638.3	2622.8	2599.6	2572.6	2533.9	2491.3	2437.2	2379.1	2309.5	2236.0
62.5°	3118.0	3118.0	3094.8	3067.7	3032.9	2982.6	2924.6	2855.0	2773.7	2684.7	2595.8
60°	3675.1	3675.1	3648.0	3613.2	3562.9	3501.0	3423.6	3334.6	3234.1	3121.9	3013.6
57.5°	4317.2	4317.2	4282.4	4236.0	4174.1	4096.7	4000.0	3887.8	3760.2	3620.9	3485.5
55°	5013.6	5013.6	4971.0	4916.9	4843.4	4750.5	4634.5	4502.9	4348.2	4189.6	4015.5
52.5°	5752.5	5752.5	5702.2	5640.3	5555.2	5446.9	5315.3	5160.6	4982.6	4796.9	4591.9
50°	6530.0	6530.0	6472.0	6402.4	6305.7	6178.0	6027.1	5849.2	5651.9	5435.2	5199.3
47.5°	7361.8	7361.8	7296.0	7214.8	7098.7	6951.7	6773.7	6568.7	6344.3	6100.6	5833.7
45°	8216.7	8216.7	8143.2	8050.4	7922.7	7756.3	7559.1	7361.8	7075.5	6793.1	6483.6
42.5°	9106.5	9106.5	9021.3	8916.9	8769.9	8588.1	8363.7	8108.4	7826.0	7508.8	7172.2
40°	10031.0	10031.0	9934.3	9814.4	9651.9	9443.0	9191.6	8905.3	8588.1	8236.0	7864.7
37.5°	10974.9	10974.9	10866.6	10735.1	10553.3	10321.2	10038.8	9721.5	9365.6	8974.9	8564.9
35°	11926.6	11926.6	11806.7	11663.5	11462.4	11207.1	10901.4	10549.4	10154.8	9729.3	9268.9
32.5°	12897.6	12897.6	12766.1	12603.6	12375.3	12092.9	11756.4	11373.4	10974.9	10479.8	9976.9
30°	13857.0	13857.0	13713.8	13535.9	13292.2	12982.7	12615.2	12193.5	11725.4	11218.7	10677.1
27.5°	14800.9	14762.2	14642.3	14452.7	14185.8	13857.0	13458.5	13002.0	12495.3	11938.2	11357.9
25°	15729.3	15686.8	15555.3	15346.4	15060.1	14700.3	14270.9	13783.5	13238.0	12650.0	12015.6
22.5°	16619.1	16572.7	16433.4	16209.0	15903.4	15512.7	15052.3	14530.1	13949.8	13319.3	12650.0
20°	17443.1	17392.8	17249.7	17013.7	16696.5	16282.5	15795.1	15234.2	14615.2	13949.8	13238.0
17.5°	18185.8	18135.5	17984.7	17741.0	17443.1	16982.7	16479.8	15887.9	15234.2	14530.1	13783.5
15°	18839.6	18785.5	18630.7	18387.0	18046.6	17613.3	17083.3	16479.8	15795.1	15052.3	14270.9
12.5°	19396.7	19342.5	19183.9	18940.2	18588.2	18154.9	17613.3	16982.7	16282.5	15512.7	14700.3
10°	19837.7	19783.5	19632.7	19400.5	19036.9	18588.2	18046.6	17443.1	16696.5	15903.4	15060.1
7.5°	20154.9	20104.6	19965.3	19733.2	19400.5	18940.2	18387.0	17741.0	17013.7	16209.0	15346.4
5°	20394.8	20336.7	20197.5	19965.3	19632.7	19183.9	18630.7	17984.7	17249.7	16433.4	15555.3
2.5°	20561.1	20491.5	20336.7	20104.6	19783.5	19342.5	18785.5	18135.5	17392.8	16572.7	15686.8
0°	20607.5	20561.1	20394.8	20154.9	19837.7	19396.7	18839.6	18185.8	17443.1	16619.1	15729.3

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CATALOG NUMBER: IFLD-L-SA7E-927-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°	139.3	139.3	135.4	131.5	127.7	119.9	116.1	112.2	108.3	100.6	96.7
85°	294.0	286.3	278.5	270.8	259.2	251.5	239.8	232.1	220.5	208.9	197.3
82.5°	464.2	452.6	437.1	425.5	410.1	390.7	375.2	355.9	336.6	321.1	301.7
80°	649.9	630.6	611.2	591.9	568.7	545.5	522.2	499.0	472.0	444.9	417.8
77.5°	851.1	824.0	796.9	766.0	738.9	707.9	677.0	646.0	611.2	576.4	541.6
75°	1075.4	1040.6	1001.9	963.3	928.4	885.9	843.3	800.8	754.4	711.8	665.4
72.5°	1319.2	1276.6	1230.2	1183.8	1133.5	1079.3	1025.2	967.1	913.0	858.8	800.8
70°	1582.2	1531.9	1473.9	1415.9	1354.0	1288.2	1222.4	1152.8	1083.2	1013.5	943.9
67.5°	1864.6	1802.7	1733.1	1663.5	1586.1	1508.7	1431.3	1350.1	1265.0	1179.9	1098.7
65°	2166.4	2089.0	2007.8	1918.8	1829.8	1740.8	1648.0	1551.3	1454.6	1354.0	1265.0
62.5°	2502.9	2406.2	2301.8	2193.4	2092.9	1984.5	1884.0	1764.0	1648.0	1535.8	1423.6
60°	2893.6	2766.0	2638.3	2502.9	2375.3	2236.0	2112.2	1980.7	1849.1	1721.5	1590.0
57.5°	3330.8	3168.3	3013.6	2851.1	2680.9	2526.1	2367.5	2208.9	2061.9	1911.0	1767.9
55°	3825.9	3628.7	3435.2	3234.1	3036.8	2843.4	2642.2	2464.2	2282.4	2112.2	1945.9
52.5°	4367.5	4143.2	3903.3	3675.1	3423.6	3183.8	2959.4	2735.0	2522.3	2317.2	2127.7
50°	4947.8	4684.8	4410.1	4131.6	3845.3	3562.9	3292.1	3029.0	2781.5	2541.6	2317.2
47.5°	5551.3	5253.4	4940.1	4622.9	4317.2	3973.0	3648.0	3350.1	3052.2	2781.5	2522.3
45°	6170.3	5833.7	5489.4	5129.6	4769.9	4398.5	4038.7	3675.1	3350.1	3029.0	2735.0
42.5°	6808.6	6429.5	6046.5	5648.0	5249.6	4843.4	4437.2	4038.7	3648.0	3292.1	2959.4
40°	7466.2	7048.4	6611.3	6178.0	5752.5	5288.2	4843.4	4398.5	3973.0	3562.9	3183.8
37.5°	8123.9	7667.4	7195.4	6708.0	6220.6	5752.5	5249.6	4769.9	4317.2	3845.3	3423.6
35°	8785.4	8282.5	7771.8	7241.8	6708.0	6178.0	5648.0	5129.6	4622.9	4131.6	3675.1
32.5°	9450.8	8901.4	8336.6	7771.8	7195.4	6611.3	6046.5	5489.4	4940.1	4410.1	3903.3
30°	10104.5	9508.8	8901.4	8282.5	7667.4	7048.4	6429.5	5833.7	5253.4	4684.8	4143.2
27.5°	10742.8	10104.5	9450.8	8785.4	8123.9	7466.2	6808.6	6170.3	5551.3	4947.8	4367.5
25°	11357.9	10677.1	9976.9	9268.9	8564.9	7864.7	7172.2	6483.6	5833.7	5199.3	4591.9
22.5°	11938.2	11218.7	10479.8	9729.3	8974.9	8236.0	7508.8	6793.1	6100.6	5435.2	4796.9
20°	12495.3	11725.4	10974.9	10154.8	9365.6	8588.1	7826.0	7075.5	6344.3	5651.9	4982.6
17.5°	13002.0	12193.5	11373.4	10549.4	9721.5	8905.3	8108.4	7361.8	6568.7	5849.2	5160.6
15°	13458.5	12615.2	11756.4	10901.4	10038.8	9191.6	8363.7	7559.1	6773.7	6027.1	5315.3
12.5°	13857.0	12982.7	12092.9	11207.1	10321.2	9443.0	8588.1	7756.3	6951.7	6178.0	5446.9
10°	14185.8	13292.2	12375.3	11462.4	10553.3	9651.9	8769.9	7922.7	7098.7	6305.7	5555.2
7.5°	14452.7	13535.9	12603.6	11663.5	10735.1	9814.4	8916.9	8050.4	7214.8	6402.4	5640.3
5°	14642.3	13713.8	12766.1	11806.7	10866.6	9934.3	9021.3	8143.2	7296.0	6472.0	5702.2
2.5°	14762.2	13857.0	12897.6	11926.6	10974.9	10031.0	9106.5	8216.7	7361.8	6530.0	5752.5
0°	14800.9	13857.0	12897.6	11926.6	10974.9	10031.0	9106.5	8216.7	7361.8	6530.0	5752.5

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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°	92.8	85.1	77.4	73.5	65.8	61.9	54.2	46.4	42.6	34.8	27.1
85°	185.7	170.2	158.6	147.0	135.4	119.9	108.3	96.7	81.2	69.6	54.2
82.5°	282.4	263.1	243.7	224.4	205.0	185.7	162.5	143.1	123.8	104.4	81.2
80°	390.7	359.8	332.7	305.6	278.5	251.5	220.5	193.4	162.5	135.4	108.3
77.5°	502.9	468.1	429.4	390.7	352.0	317.2	278.5	243.7	208.9	170.2	135.4
75°	622.8	576.4	533.9	483.6	437.1	386.9	340.4	294.0	251.5	208.9	162.5
72.5°	746.6	688.6	630.6	576.4	518.4	460.4	406.2	348.2	294.0	243.7	193.4
70°	874.3	804.6	735.0	669.3	603.5	533.9	472.0	406.2	340.4	278.5	220.5
67.5°	1009.7	928.4	847.2	762.1	688.6	611.2	533.9	460.4	386.9	317.2	251.5
65°	1156.7	1060.0	959.4	870.4	773.7	688.6	603.5	518.4	437.1	352.0	278.5
62.5°	1307.6	1195.4	1083.2	971.0	870.4	762.1	669.3	576.4	483.6	390.7	305.6
60°	1462.3	1334.6	1207.0	1083.2	959.4	847.2	735.0	630.6	533.9	429.4	332.7
57.5°	1620.9	1477.8	1334.6	1195.4	1060.0	928.4	804.6	688.6	576.4	468.1	359.8
55°	1783.4	1620.9	1462.3	1307.6	1156.7	1009.7	874.3	746.6	622.8	502.9	390.7
52.5°	1945.9	1767.9	1590.0	1423.6	1265.0	1098.7	943.9	800.8	665.4	541.6	417.8
50°	2112.2	1911.0	1721.5	1535.8	1354.0	1179.9	1013.5	858.8	711.8	576.4	444.9
47.5°	2282.4	2061.9	1849.1	1648.0	1454.6	1265.0	1083.2	913.0	754.4	611.2	472.0
45°	2464.2	2208.9	1980.7	1764.0	1551.3	1350.1	1152.8	967.1	800.8	646.0	499.0
42.5°	2642.2	2367.5	2112.2	1884.0	1648.0	1431.3	1222.4	1025.2	843.3	677.0	522.2
40°	2843.4	2526.1	2236.0	1984.5	1740.8	1508.7	1288.2	1079.3	885.9	707.9	545.5
37.5°	3036.8	2680.9	2375.3	2092.9	1829.8	1586.1	1354.0	1133.5	928.4	738.9	568.7
35°	3234.1	2851.1	2502.9	2193.4	1918.8	1663.5	1415.9	1183.8	963.3	766.0	591.9
32.5°	3435.2	3013.6	2638.3	2301.8	2007.8	1733.1	1473.9	1230.2	1001.9	796.9	611.2
30°	3628.7	3168.3	2766.0	2406.2	2089.0	1802.7	1531.9	1276.6	1040.6	824.0	630.6
27.5°	3825.9	3330.8	2893.6	2502.9	2166.4	1864.6	1582.2	1319.2	1075.4	851.1	649.9
25°	4015.5	3485.5	3013.6	2595.8	2236.0	1926.5	1636.4	1361.7	1106.4	874.3	665.4
22.5°	4189.6	3620.9	3121.9	2684.7	2309.5	1980.7	1682.8	1400.4	1137.3	897.5	680.9
20°	4348.2	3760.2	3234.1	2773.7	2379.1	2034.8	1721.5	1435.2	1164.4	916.8	696.3
17.5°	4502.9	3887.8	3334.6	2855.0	2437.2	2081.3	1760.2	1462.3	1187.6	932.3	707.9
15°	4634.5	4000.0	3423.6	2924.6	2491.3	2119.9	1791.1	1489.4	1207.0	947.8	715.7
12.5°	4750.5	4096.7	3501.0	2982.6	2533.9	2154.8	1822.1	1512.6	1226.3	959.4	727.3
10°	4843.4	4174.1	3562.9	3032.9	2572.6	2181.8	1841.4	1531.9	1237.9	971.0	735.0
7.5°	4916.9	4236.0	3613.2	3067.7	2599.6	2205.0	1860.8	1543.5	1249.5	978.7	746.6
5°	4971.0	4282.4	3648.0	3094.8	2622.8	2232.1	1884.0	1562.9	1265.0	990.3	746.6
2.5°	5013.6	4317.2	3675.1	3118.0	2638.3	2232.1	1884.0	1562.9	1265.0	990.3	746.6
0°	5013.6	4317.2	3675.1	3118.0	2638.3	2232.1	1884.0	1562.9	1265.0	990.3	746.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.3	15.5	7.7	0.0
85°	42.6	27.1	15.5	0.0
82.5°	61.9	42.6	19.3	0.0
80°	81.2	54.2	27.1	0.0
77.5°	104.4	69.6	34.8	0.0
75°	123.8	81.2	42.6	0.0
72.5°	143.1	96.7	46.4	0.0
70°	162.5	108.3	54.2	0.0
67.5°	185.7	119.9	61.9	0.0
65°	205.0	135.4	65.8	0.0
62.5°	224.4	147.0	73.5	0.0
60°	243.7	158.6	77.4	0.0
57.5°	263.1	170.2	85.1	0.0
55°	282.4	185.7	92.8	0.0
52.5°	301.7	197.3	96.7	0.0
50°	321.1	208.9	100.6	0.0
47.5°	336.6	220.5	108.3	0.0
45°	355.9	232.1	112.2	0.0
42.5°	375.2	239.8	116.1	0.0
40°	390.7	251.5	119.9	0.0
37.5°	410.1	259.2	127.7	0.0
35°	425.5	270.8	131.5	0.0
32.5°	437.1	278.5	135.4	0.0
30°	452.6	286.3	139.3	0.0
27.5°	464.2	294.0	139.3	0.0
25°	475.8	301.7	143.1	0.0
22.5°	487.4	305.6	147.0	0.0
20°	499.0	313.3	150.9	0.0
17.5°	506.8	317.2	150.9	0.0
15°	514.5	321.1	158.6	0.0
12.5°	518.4	325.0	158.6	0.0
10°	526.1	332.7	158.6	0.0
7.5°	533.9	332.7	158.6	0.0
5°	533.9	332.7	158.6	0.0
2.5°	533.9	332.7	158.6	0.0
0°	533.9	332.7	158.6	0.0

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