

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: P623854

Luminaire Tested: **IFLD-S-SA6E-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

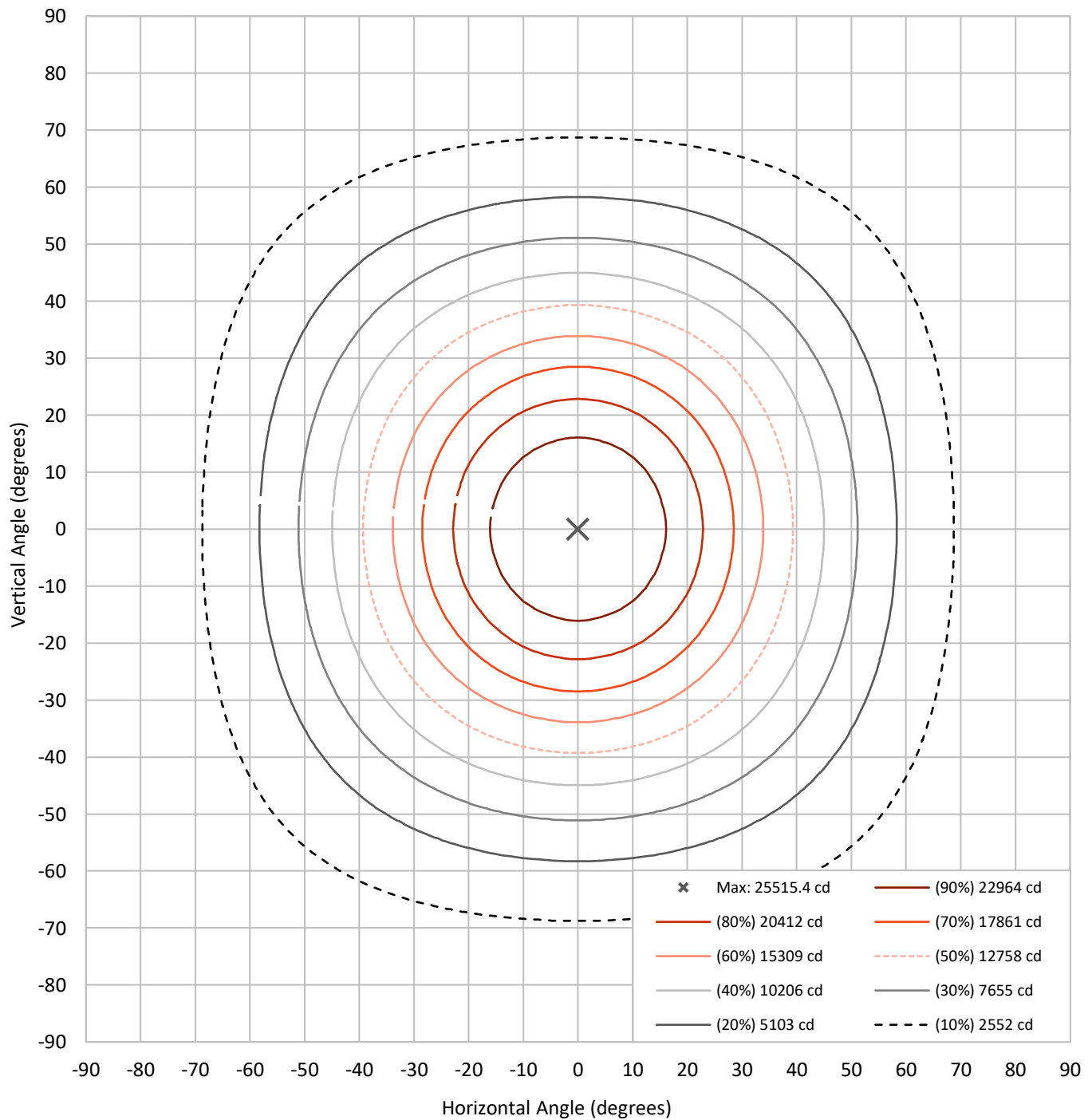
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45941.1 lumens	Max Intensity:	25515.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	19878.3 lumens	Field Lumens:	32549.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	464.2		
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		



REPORT NUMBER: P623854

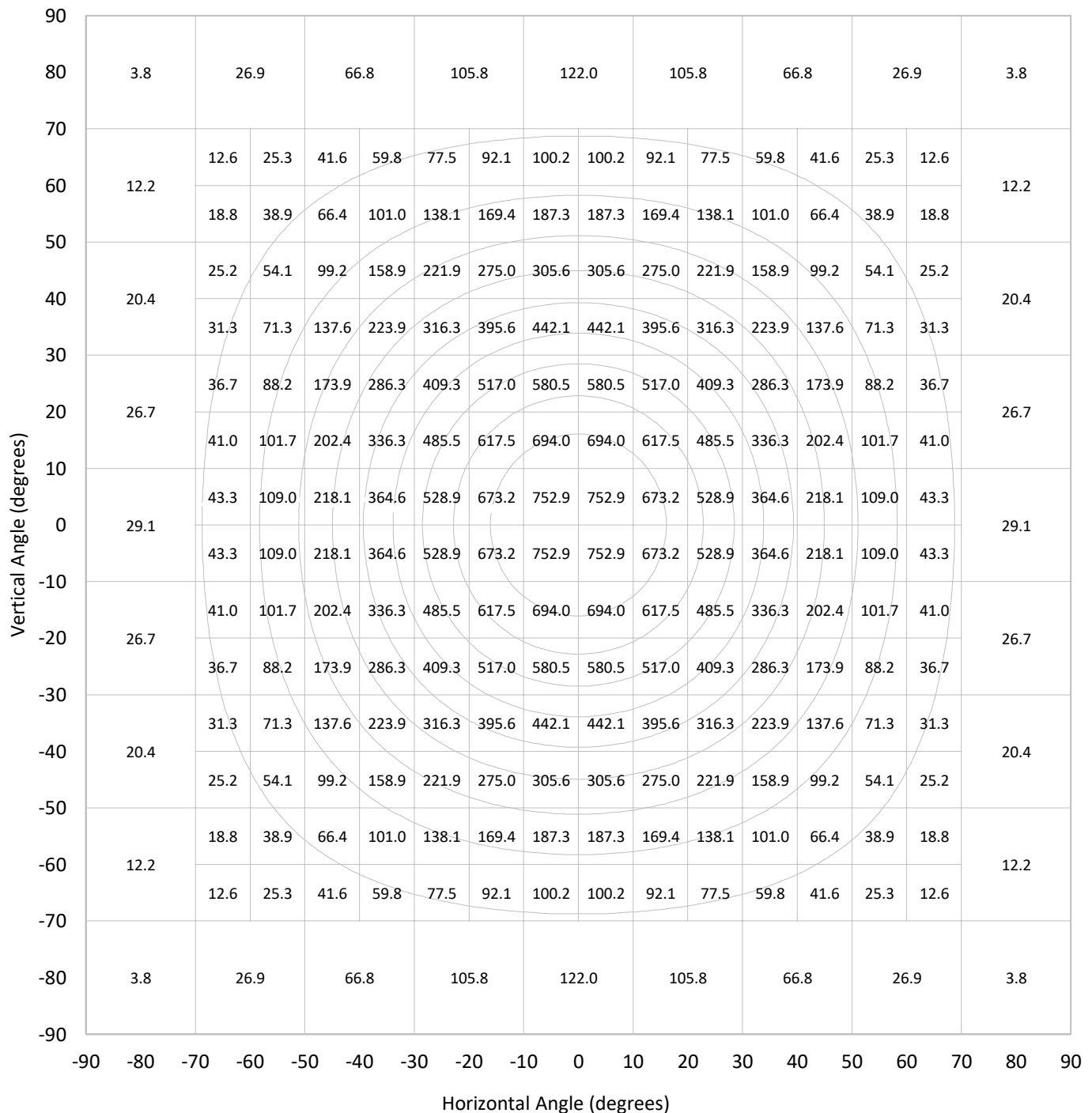
CATALOG NUMBER: IFLD-S-SA6E-727-U-77

Iso-Candela Plot



REPORT NUMBER: P623854
CATALOG NUMBER: IFLD-S-SA6E-727-U-77

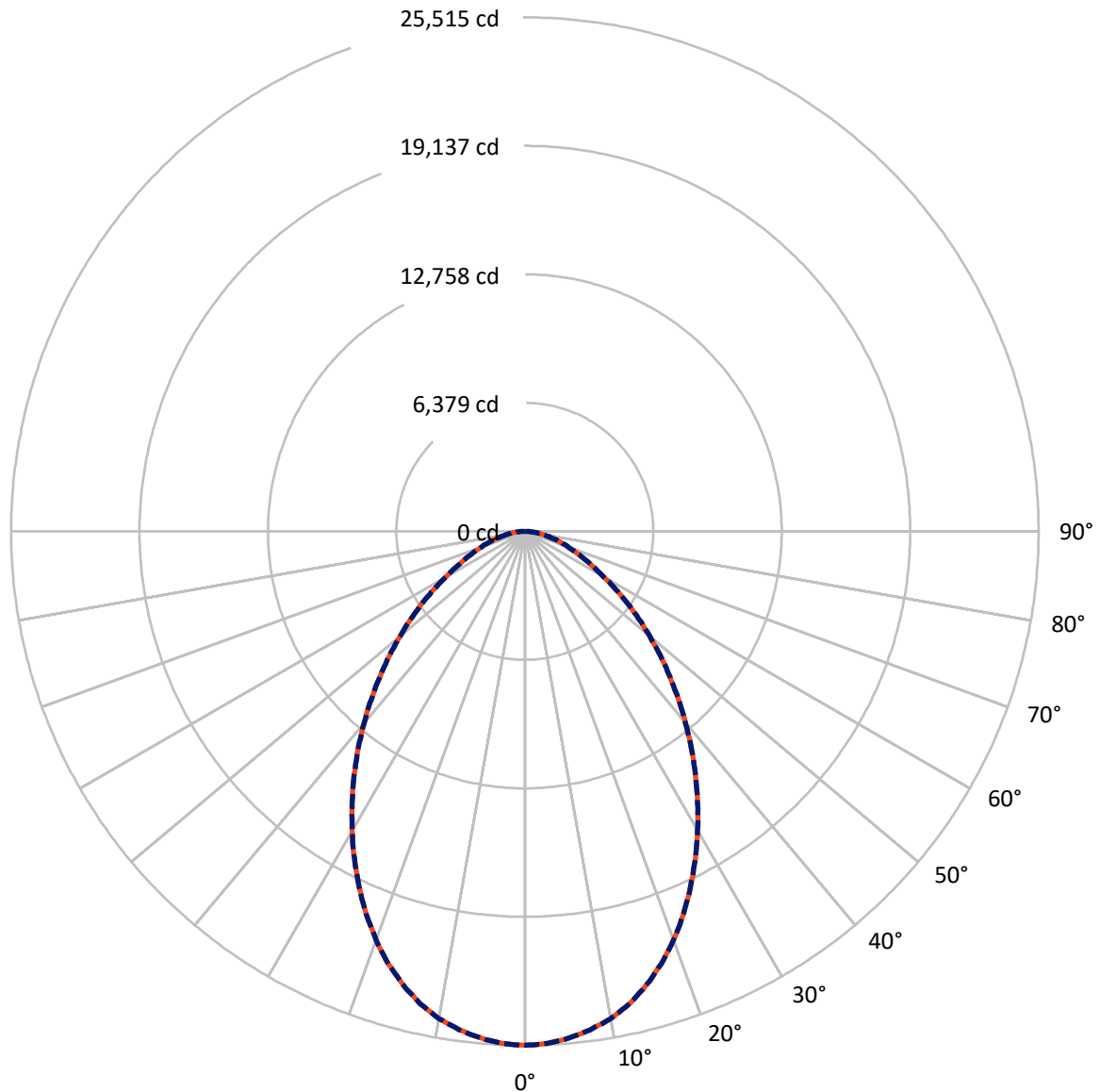
Lumen Table



REPORT NUMBER: P623854

CATALOG NUMBER: IFLD-S-SA6E-727-U-77

Luminous Intensity Polar Plot



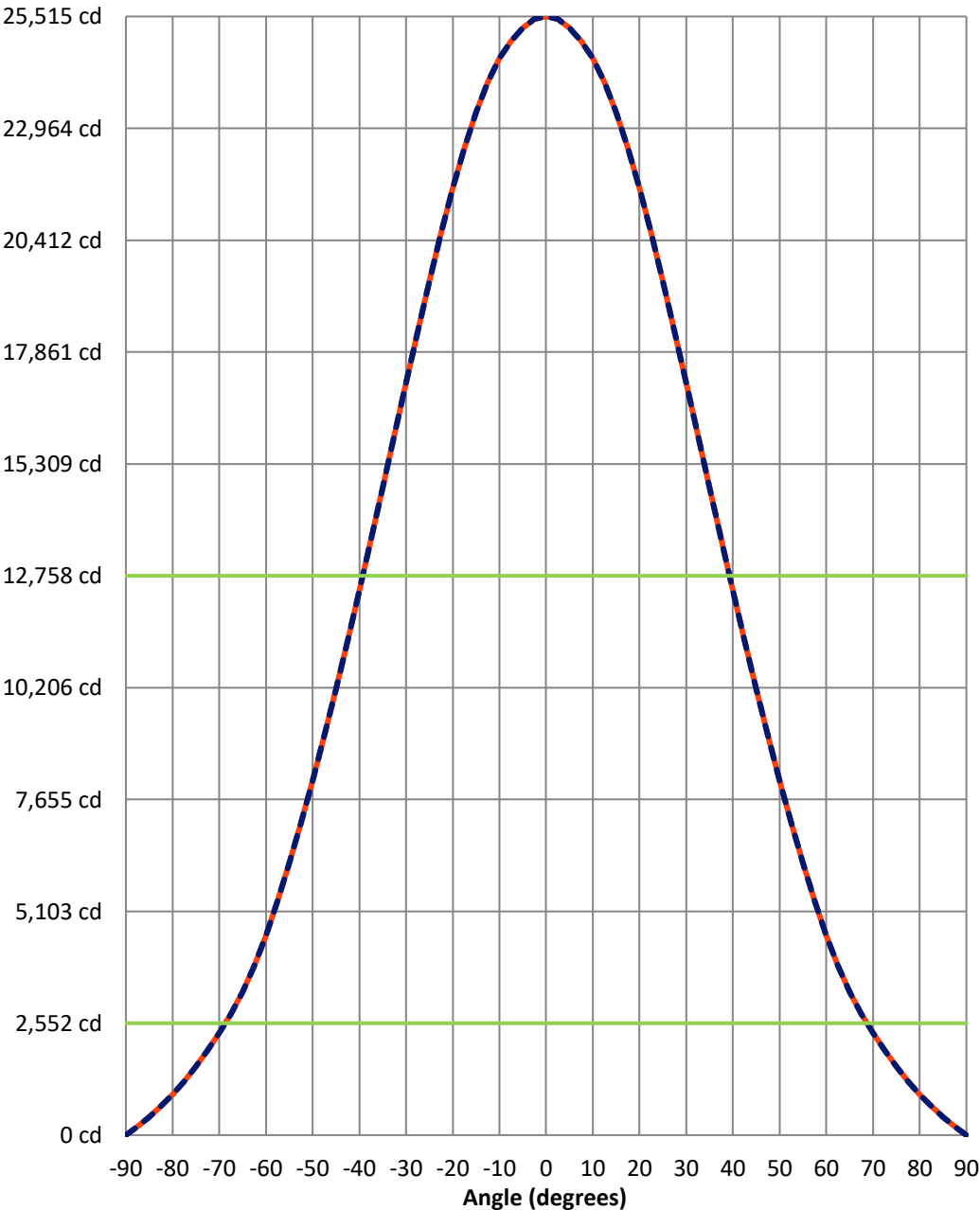
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P623854
CATALOG NUMBER: IFLD-S-SA6E-727-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 19878.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 32549.9
Efficiency: 70.9%

Spill:
Lumens: 13391.1
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg

REPORT NUMBER: P623854

CATALOG NUMBER: IFLD-S-SA6E-727-U-77

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°	196.4	196.4	196.4	196.4	196.4	196.4	196.4	186.8	186.8	182.0	177.2
85°	411.9	411.9	411.9	411.9	411.9	402.3	397.6	392.8	388.0	378.4	373.6
82.5°	661.0	661.0	661.0	661.0	651.4	641.8	637.0	627.5	617.9	603.5	589.1
80°	924.4	924.4	924.4	924.4	910.1	900.5	886.1	876.5	862.2	843.0	823.9
77.5°	1226.2	1226.2	1226.2	1211.8	1202.2	1187.9	1173.5	1154.3	1135.2	1111.2	1082.5
75°	1566.3	1566.3	1566.3	1547.1	1532.7	1518.4	1494.4	1470.5	1441.7	1408.2	1369.9
72.5°	1935.1	1935.1	1935.1	1911.1	1896.8	1872.8	1844.1	1810.6	1777.0	1733.9	1686.0
70°	2332.6	2332.6	2332.6	2303.9	2280.0	2256.0	2217.7	2179.4	2131.5	2083.6	2026.1
67.5°	2763.7	2763.7	2763.7	2730.2	2701.5	2667.9	2624.8	2576.9	2519.4	2452.4	2385.3
65°	3266.7	3266.7	3247.5	3218.8	3185.2	3137.3	3084.6	3017.6	2945.7	2859.5	2768.5
62.5°	3860.6	3860.6	3831.9	3798.3	3755.2	3693.0	3621.1	3534.9	3434.3	3324.1	3214.0
60°	4550.3	4550.3	4516.8	4473.7	4411.4	4334.8	4239.0	4128.8	4004.3	3865.4	3731.3
57.5°	5345.4	5345.4	5302.3	5244.9	5168.2	5072.4	4952.7	4813.8	4655.7	4483.3	4315.6
55°	6207.6	6207.6	6154.9	6087.9	5996.9	5881.9	5738.2	5575.4	5383.8	5187.4	4971.8
52.5°	7122.5	7122.5	7060.2	6983.6	6878.2	6744.1	6581.2	6389.6	6169.3	5939.4	5685.5
50°	8085.2	8085.2	8013.4	7927.2	7807.4	7649.4	7462.6	7242.2	6997.9	6729.7	6437.5
47.5°	9115.0	9115.0	9033.6	8933.0	8789.3	8607.3	8387.0	8133.1	7855.3	7553.6	7223.1
45°	10173.6	10173.6	10082.6	9967.6	9809.6	9603.6	9359.3	9115.0	8760.6	8410.9	8027.8
42.5°	11275.3	11275.3	11169.9	11040.6	10858.5	10633.4	10355.6	10039.5	9689.8	9297.1	8880.3
40°	12420.0	12420.0	12300.3	12151.8	11950.6	11692.0	11380.6	11026.2	10633.4	10197.5	9737.7
37.5°	13588.7	13588.7	13454.6	13291.8	13066.7	12779.3	12429.6	12036.8	11596.2	11112.4	10604.7
35°	14767.0	14767.0	14618.6	14441.3	14192.3	13876.1	13497.7	13061.9	12573.3	12046.4	11476.4
32.5°	15969.3	15969.3	15806.4	15605.3	15322.7	14973.0	14556.3	14082.1	13588.7	12975.6	12353.0
30°	17157.2	17157.2	16979.9	16759.6	16457.8	16074.7	15619.6	15097.5	14518.0	13890.5	13219.9
27.5°	18325.9	18278.0	18129.5	17894.8	17564.3	17157.2	16663.8	16098.6	15471.1	14781.4	14062.9
25°	19475.4	19422.8	19259.9	19001.2	18646.8	18201.3	17669.7	17066.2	16390.8	15662.7	14877.2
22.5°	20577.1	20519.6	20347.2	20069.4	19691.0	19207.2	18637.2	17990.6	17272.1	16491.4	15662.7
20°	21597.3	21535.1	21357.8	21065.7	20672.9	20160.4	19556.9	18862.3	18096.0	17272.1	16390.8
17.5°	22517.0	22454.7	22267.9	21966.2	21597.3	21027.3	20404.7	19671.8	18862.3	17990.6	17066.2
15°	23326.5	23259.4	23067.8	22766.1	22344.5	21808.1	21151.9	20404.7	19556.9	18637.2	17669.7
12.5°	24016.2	23949.1	23752.8	23451.0	23015.1	22478.7	21808.1	21027.3	20160.4	19207.2	18201.3
10°	24562.2	24495.2	24308.4	24021.0	23570.7	23015.1	22344.5	21597.3	20672.9	19691.0	18646.8
7.5°	24955.0	24892.7	24720.3	24432.9	24021.0	23451.0	22766.1	21966.2	21065.7	20069.4	19001.2
5°	25252.0	25180.1	25007.7	24720.3	24308.4	23752.8	23067.8	22267.9	21357.8	20347.2	19259.9
2.5°	25457.9	25371.7	25180.1	24892.7	24495.2	23949.1	23259.4	22454.7	21535.1	20519.6	19422.8
0°	25515.4	25457.9	25252.0	24955.0	24562.2	24016.2	23326.5	22517.0	21597.3	20577.1	19475.4

REPORT NUMBER: P623854

CATALOG NUMBER: IFLD-S-SA6E-727-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°	172.4	172.4	167.6	162.9	158.1	148.5	143.7	138.9	134.1	124.5	119.7
85°	364.0	354.4	344.9	335.3	320.9	311.3	297.0	287.4	273.0	258.7	244.3
82.5°	574.8	560.4	541.3	526.9	507.7	483.8	464.6	440.7	416.7	397.6	373.6
80°	804.7	780.7	756.8	732.8	704.1	675.4	646.6	617.9	584.4	550.8	517.3
77.5°	1053.8	1020.2	986.7	948.4	914.9	876.5	838.2	799.9	756.8	713.7	670.6
75°	1331.6	1288.5	1240.6	1192.7	1149.6	1096.9	1044.2	991.5	934.0	881.3	823.9
72.5°	1633.3	1580.6	1523.2	1465.7	1403.4	1336.4	1269.3	1197.5	1130.4	1063.3	991.5
70°	1959.0	1896.8	1824.9	1753.1	1676.4	1595.0	1513.6	1427.4	1341.2	1254.9	1168.7
67.5°	2308.7	2232.1	2145.8	2059.6	1963.8	1868.0	1772.2	1671.7	1566.3	1460.9	1360.3
65°	2682.3	2586.5	2485.9	2375.8	2265.6	2155.4	2040.5	1920.7	1801.0	1676.4	1566.3
62.5°	3099.0	2979.3	2849.9	2715.8	2591.3	2457.2	2332.6	2184.2	2040.5	1901.6	1762.7
60°	3582.8	3424.7	3266.7	3099.0	2941.0	2768.5	2615.2	2452.4	2289.5	2131.5	1968.6
57.5°	4124.0	3922.9	3731.3	3530.1	3319.4	3127.8	2931.4	2735.0	2553.0	2366.2	2189.0
55°	4737.1	4492.9	4253.4	4004.3	3760.0	3520.5	3271.5	3051.1	2826.0	2615.2	2409.3
52.5°	5407.7	5129.9	4832.9	4550.3	4239.0	3942.0	3664.2	3386.4	3123.0	2869.1	2634.4
50°	6126.2	5800.5	5460.4	5115.5	4761.1	4411.4	4076.1	3750.4	3443.9	3146.9	2869.1
47.5°	6873.4	6504.6	6116.6	5723.8	5345.4	4919.2	4516.8	4148.0	3779.2	3443.9	3123.0
45°	7639.8	7223.1	6796.8	6351.3	5905.9	5446.0	5000.6	4550.3	4148.0	3750.4	3386.4
42.5°	8430.1	7960.7	7486.5	6993.1	6499.8	5996.9	5493.9	5000.6	4516.8	4076.1	3664.2
40°	9244.4	8727.1	8185.8	7649.4	7122.5	6547.7	5996.9	5446.0	4919.2	4411.4	3942.0
37.5°	10058.6	9493.4	8909.1	8305.6	7702.0	7122.5	6499.8	5905.9	5345.4	4761.1	4239.0
35°	10877.7	10255.0	9622.8	8966.6	8305.6	7649.4	6993.1	6351.3	5723.8	5115.5	4550.3
32.5°	11701.6	11021.4	10322.1	9622.8	8909.1	8185.8	7486.5	6796.8	6116.6	5460.4	4832.9
30°	12511.0	11773.4	11021.4	10255.0	9493.4	8727.1	7960.7	7223.1	6504.6	5800.5	5129.9
27.5°	13301.4	12511.0	11701.6	10877.7	10058.6	9244.4	8430.1	7639.8	6873.4	6126.2	5407.7
25°	14062.9	13219.9	12353.0	11476.4	10604.7	9737.7	8880.3	8027.8	7223.1	6437.5	5685.5
22.5°	14781.4	13890.5	12975.6	12046.4	11112.4	10197.5	9297.1	8410.9	7553.6	6729.7	5939.4
20°	15471.1	14518.0	13588.7	12573.3	11596.2	10633.4	9689.8	8760.6	7855.3	6997.9	6169.3
17.5°	16098.6	15097.5	14082.1	13061.9	12036.8	11026.2	10039.5	9115.0	8133.1	7242.2	6389.6
15°	16663.8	15619.6	14556.3	13497.7	12429.6	11380.6	10355.6	9359.3	8387.0	7462.6	6581.2
12.5°	17157.2	16074.7	14973.0	13876.1	12779.3	11692.0	10633.4	9603.6	8607.3	7649.4	6744.1
10°	17564.3	16457.8	15322.7	14192.3	13066.7	11950.6	10858.5	9809.6	8789.3	7807.4	6878.2
7.5°	17894.8	16759.6	15605.3	14441.3	13291.8	12151.8	11040.6	9967.6	8933.0	7927.2	6983.6
5°	18129.5	16979.9	15806.4	14618.6	13454.6	12300.3	11169.9	10082.6	9033.6	8013.4	7060.2
2.5°	18278.0	17157.2	15969.3	14767.0	13588.7	12420.0	11275.3	10173.6	9115.0	8085.2	7122.5
0°	18325.9	17157.2	15969.3	14767.0	13588.7	12420.0	11275.3	10173.6	9115.0	8085.2	7122.5

REPORT NUMBER: P623854

CATALOG NUMBER: IFLD-S-SA6E-727-U-77

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°	115.0	105.4	95.8	91.0	81.4	76.6	67.1	57.5	52.7	43.1	33.5
85°	229.9	210.8	196.4	182.0	167.6	148.5	134.1	119.7	100.6	86.2	67.1
82.5°	349.7	325.7	301.8	277.8	253.9	229.9	201.2	177.2	153.3	129.3	100.6
80°	483.8	445.5	411.9	378.4	344.9	311.3	273.0	239.5	201.2	167.6	134.1
77.5°	622.7	579.6	531.7	483.8	435.9	392.8	344.9	301.8	258.7	210.8	167.6
75°	771.2	713.7	661.0	598.7	541.3	479.0	421.5	364.0	311.3	258.7	201.2
72.5°	924.4	852.6	780.7	713.7	641.8	570.0	502.9	431.1	364.0	301.8	239.5
70°	1082.5	996.3	910.1	828.6	747.2	661.0	584.4	502.9	421.5	344.9	273.0
67.5°	1250.1	1149.6	1049.0	943.6	852.6	756.8	661.0	570.0	479.0	392.8	311.3
65°	1432.2	1312.4	1187.9	1077.7	958.0	852.6	747.2	641.8	541.3	435.9	344.9
62.5°	1619.0	1480.1	1341.2	1202.2	1077.7	943.6	828.6	713.7	598.7	483.8	378.4
60°	1810.6	1652.5	1494.4	1341.2	1187.9	1049.0	910.1	780.7	661.0	531.7	411.9
57.5°	2006.9	1829.7	1652.5	1480.1	1312.4	1149.6	996.3	852.6	713.7	579.6	445.5
55°	2208.1	2006.9	1810.6	1619.0	1432.2	1250.1	1082.5	924.4	771.2	622.7	483.8
52.5°	2409.3	2189.0	1968.6	1762.7	1566.3	1360.3	1168.7	991.5	823.9	670.6	517.3
50°	2615.2	2366.2	2131.5	1901.6	1676.4	1460.9	1254.9	1063.3	881.3	713.7	550.8
47.5°	2826.0	2553.0	2289.5	2040.5	1801.0	1566.3	1341.2	1130.4	934.0	756.8	584.4
45°	3051.1	2735.0	2452.4	2184.2	1920.7	1671.7	1427.4	1197.5	991.5	799.9	617.9
42.5°	3271.5	2931.4	2615.2	2332.6	2040.5	1772.2	1513.6	1269.3	1044.2	838.2	646.6
40°	3520.5	3127.8	2768.5	2457.2	2155.4	1868.0	1595.0	1336.4	1096.9	876.5	675.4
37.5°	3760.0	3319.4	2941.0	2591.3	2265.6	1963.8	1676.4	1403.4	1149.6	914.9	704.1
35°	4004.3	3530.1	3099.0	2715.8	2375.8	2059.6	1753.1	1465.7	1192.7	948.4	732.8
32.5°	4253.4	3731.3	3266.7	2849.9	2485.9	2145.8	1824.9	1523.2	1240.6	986.7	756.8
30°	4492.9	3922.9	3424.7	2979.3	2586.5	2232.1	1896.8	1580.6	1288.5	1020.2	780.7
27.5°	4737.1	4124.0	3582.8	3099.0	2682.3	2308.7	1959.0	1633.3	1331.6	1053.8	804.7
25°	4971.8	4315.6	3731.3	3214.0	2768.5	2385.3	2026.1	1686.0	1369.9	1082.5	823.9
22.5°	5187.4	4483.3	3865.4	3324.1	2859.5	2452.4	2083.6	1733.9	1408.2	1111.2	843.0
20°	5383.8	4655.7	4004.3	3434.3	2945.7	2519.4	2131.5	1777.0	1441.7	1135.2	862.2
17.5°	5575.4	4813.8	4128.8	3534.9	3017.6	2576.9	2179.4	1810.6	1470.5	1154.3	876.5
15°	5738.2	4952.7	4239.0	3621.1	3084.6	2624.8	2217.7	1844.1	1494.4	1173.5	886.1
12.5°	5881.9	5072.4	4334.8	3693.0	3137.3	2667.9	2256.0	1872.8	1518.4	1187.9	900.5
10°	5996.9	5168.2	4411.4	3755.2	3185.2	2701.5	2280.0	1896.8	1532.7	1202.2	910.1
7.5°	6087.9	5244.9	4473.7	3798.3	3218.8	2730.2	2303.9	1911.1	1547.1	1211.8	924.4
5°	6154.9	5302.3	4516.8	3831.9	3247.5	2763.7	2332.6	1935.1	1566.3	1226.2	924.4
2.5°	6207.6	5345.4	4550.3	3860.6	3266.7	2763.7	2332.6	1935.1	1566.3	1226.2	924.4
0°	6207.6	5345.4	4550.3	3860.6	3266.7	2763.7	2332.6	1935.1	1566.3	1226.2	924.4

REPORT NUMBER: P623854

CATALOG NUMBER: IFLD-S-SA6E-727-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.9	19.2	9.6	0.0
85°	52.7	33.5	19.2	0.0
82.5°	76.6	52.7	23.9	0.0
80°	100.6	67.1	33.5	0.0
77.5°	129.3	86.2	43.1	0.0
75°	153.3	100.6	52.7	0.0
72.5°	177.2	119.7	57.5	0.0
70°	201.2	134.1	67.1	0.0
67.5°	229.9	148.5	76.6	0.0
65°	253.9	167.6	81.4	0.0
62.5°	277.8	182.0	91.0	0.0
60°	301.8	196.4	95.8	0.0
57.5°	325.7	210.8	105.4	0.0
55°	349.7	229.9	115.0	0.0
52.5°	373.6	244.3	119.7	0.0
50°	397.6	258.7	124.5	0.0
47.5°	416.7	273.0	134.1	0.0
45°	440.7	287.4	138.9	0.0
42.5°	464.6	297.0	143.7	0.0
40°	483.8	311.3	148.5	0.0
37.5°	507.7	320.9	158.1	0.0
35°	526.9	335.3	162.9	0.0
32.5°	541.3	344.9	167.6	0.0
30°	560.4	354.4	172.4	0.0
27.5°	574.8	364.0	172.4	0.0
25°	589.1	373.6	177.2	0.0
22.5°	603.5	378.4	182.0	0.0
20°	617.9	388.0	186.8	0.0
17.5°	627.5	392.8	186.8	0.0
15°	637.0	397.6	196.4	0.0
12.5°	641.8	402.3	196.4	0.0
10°	651.4	411.9	196.4	0.0
7.5°	661.0	411.9	196.4	0.0
5°	661.0	411.9	196.4	0.0
2.5°	661.0	411.9	196.4	0.0
0°	661.0	411.9	196.4	0.0

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