

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: P624055

Luminaire Tested: **IFLD-S-SA6C-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

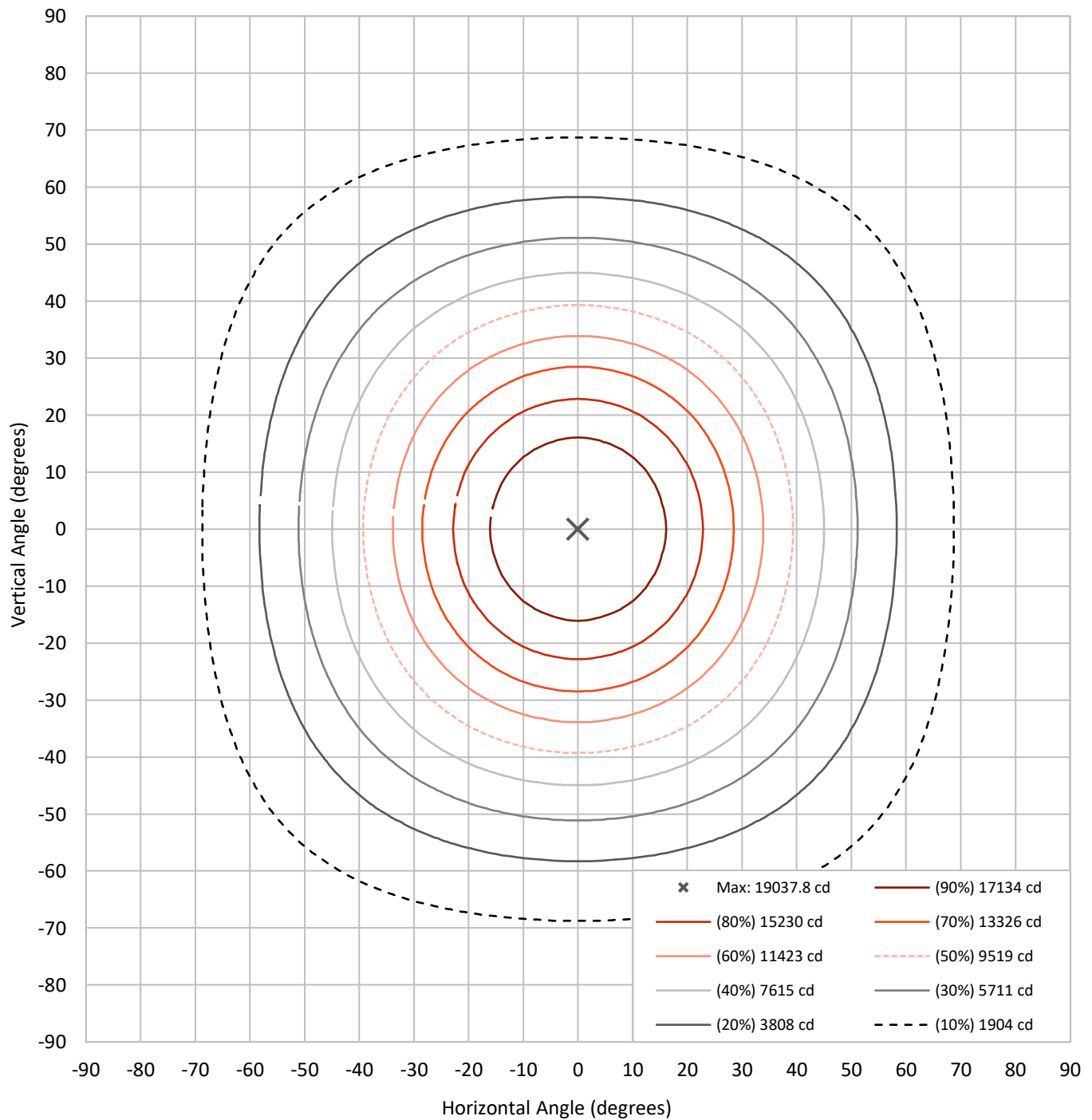
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34278 lumens	Max Intensity:	19037.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14831.8 lumens	Field Lumens:	24286.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 321.5
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



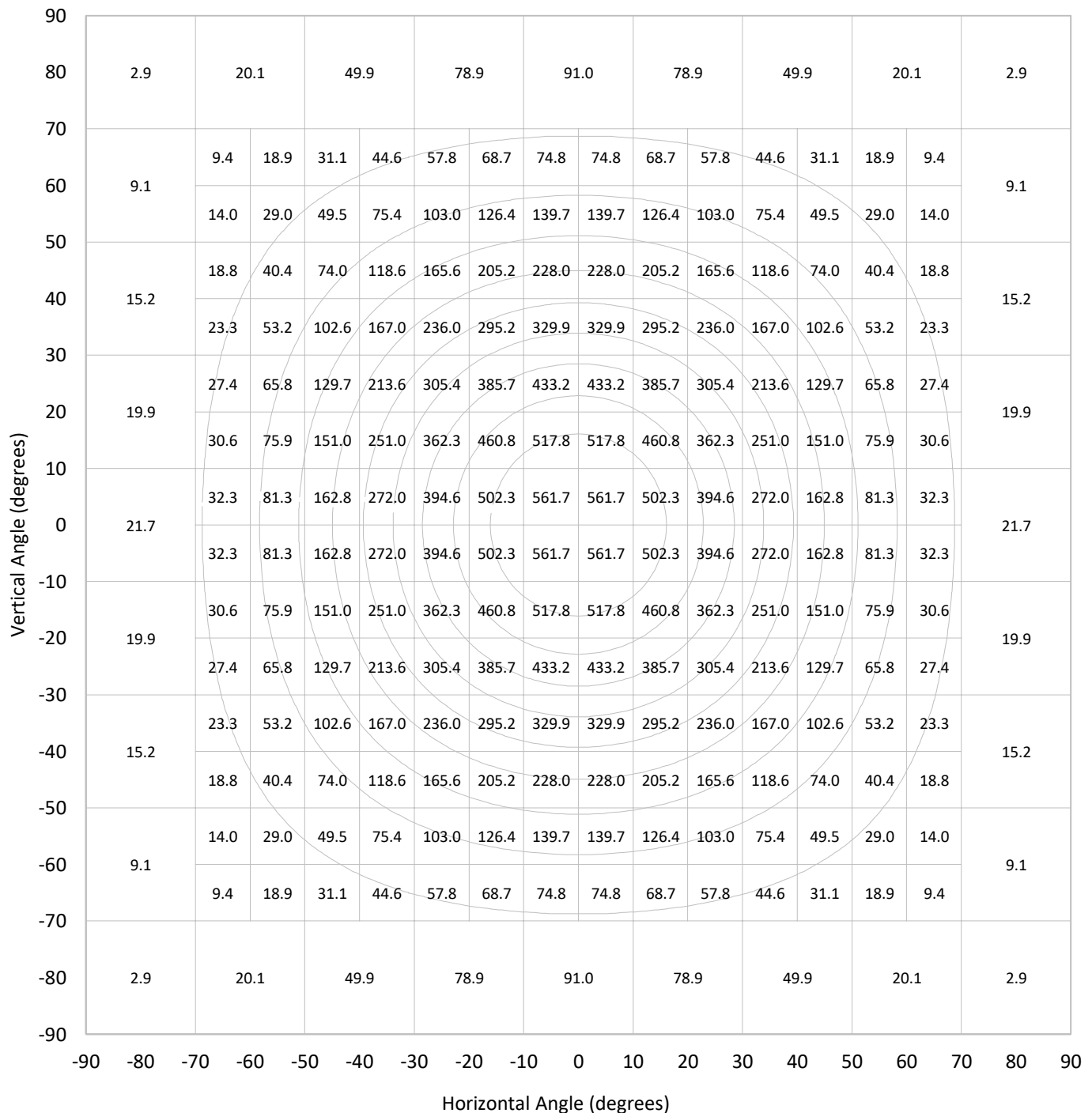
REPORT NUMBER: P624055
CATALOG NUMBER: IFLD-S-SA6C-830-U-77

Iso-Candela Plot



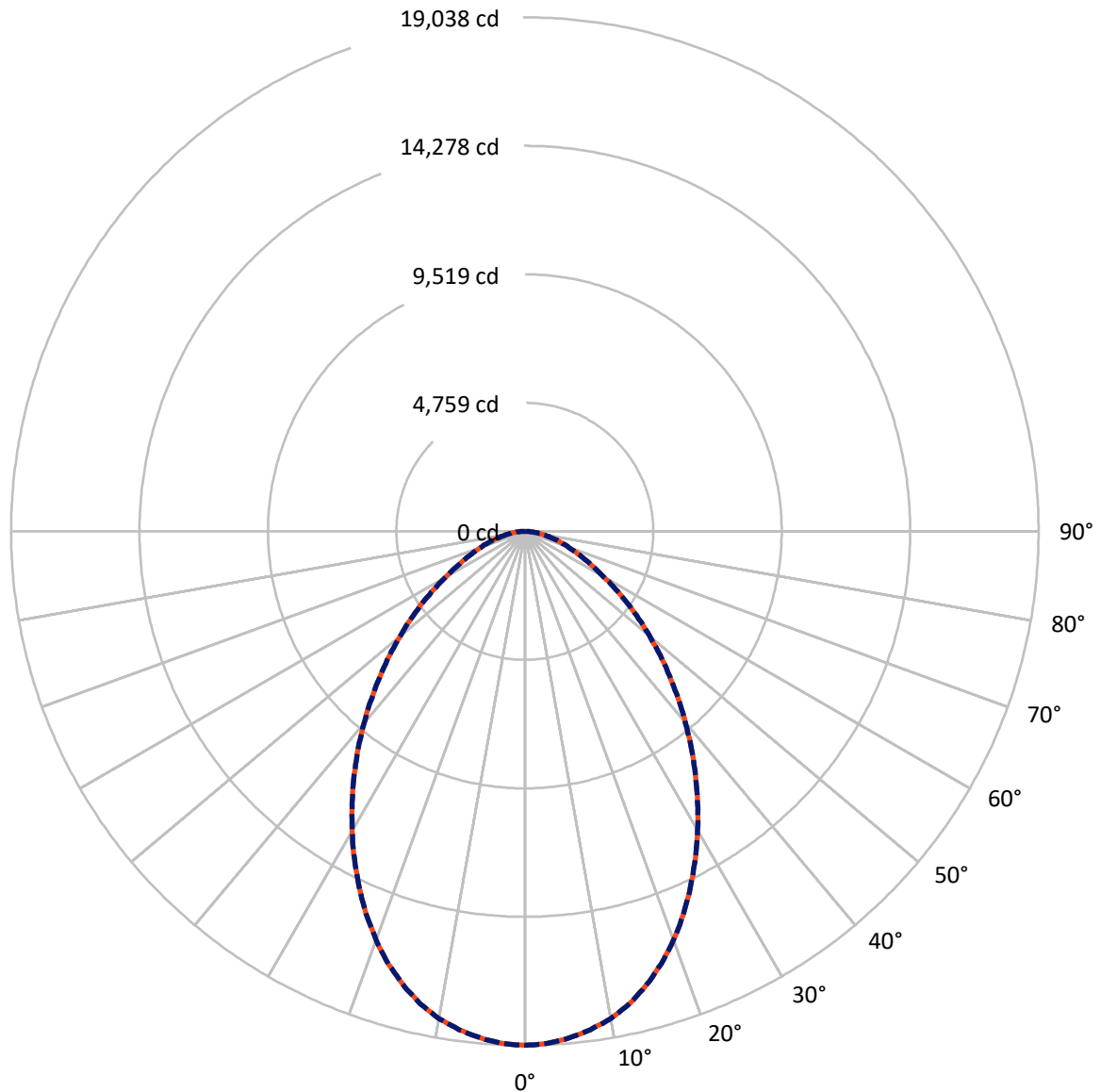
REPORT NUMBER: P624055
CATALOG NUMBER: IFLD-S-SA6C-830-U-77

Lumen Table



REPORT NUMBER: P624055
CATALOG NUMBER: IFLD-S-SA6C-830-U-77

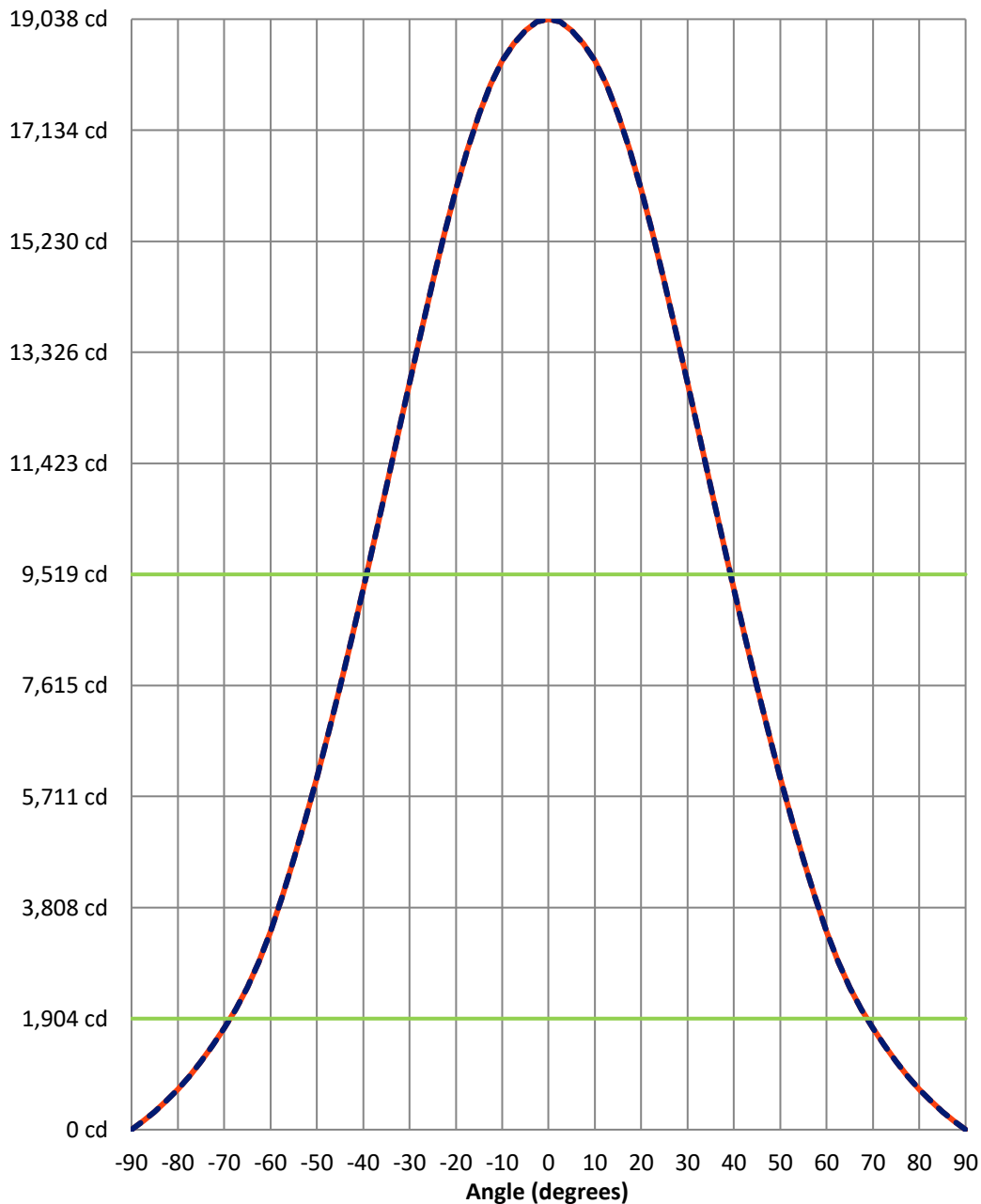
Luminous Intensity Polar Plot



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

REPORT NUMBER: P624055
CATALOG NUMBER: IFLD-S-SA6C-830-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14831.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24286.5
Efficiency: 70.9%

Spill:

Lumens: 9991.5
Efficiency: 29.1%

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

REPORT NUMBER: P624055

CATALOG NUMBER: IFLD-S-SA6C-830-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°	146.5	146.5	146.5	146.5	146.5	146.5	146.5	139.4	139.4	135.8	132.2
85°	307.3	307.3	307.3	307.3	307.3	300.2	296.6	293.1	289.5	282.3	278.8
82.5°	493.2	493.2	493.2	493.2	486.0	478.9	475.3	468.2	461.0	450.3	439.6
80°	689.7	689.7	689.7	689.7	679.0	671.9	661.2	654.0	643.3	629.0	614.7
77.5°	914.9	914.9	914.9	904.2	897.0	886.3	875.6	861.3	847.0	829.1	807.7
75°	1168.6	1168.6	1168.6	1154.3	1143.6	1132.9	1115.0	1097.2	1075.7	1050.7	1022.1
72.5°	1443.8	1443.8	1443.8	1426.0	1415.2	1397.4	1375.9	1350.9	1325.9	1293.7	1258.0
70°	1740.5	1740.5	1740.5	1719.0	1701.1	1683.3	1654.7	1626.1	1590.4	1554.6	1511.7
67.5°	2062.1	2062.1	2062.1	2037.1	2015.6	1990.6	1958.5	1922.7	1879.8	1829.8	1779.8
65°	2437.4	2437.4	2423.1	2401.6	2376.6	2340.9	2301.5	2251.5	2197.9	2133.6	2065.7
62.5°	2880.5	2880.5	2859.1	2834.0	2801.9	2755.4	2701.8	2637.5	2562.4	2480.2	2398.0
60°	3395.1	3395.1	3370.1	3338.0	3291.5	3234.3	3162.8	3080.6	2987.7	2884.1	2784.0
57.5°	3988.4	3988.4	3956.2	3913.3	3856.2	3784.7	3695.3	3591.7	3473.8	3345.1	3220.0
55°	4631.7	4631.7	4592.4	4542.3	4474.4	4388.7	4281.5	4159.9	4017.0	3870.5	3709.6
52.5°	5314.3	5314.3	5267.8	5210.6	5132.0	5032.0	4910.4	4767.5	4603.1	4431.6	4242.1
50°	6032.6	6032.6	5979.0	5914.7	5825.3	5707.4	5568.0	5403.6	5221.4	5021.2	4803.2
47.5°	6801.0	6801.0	6740.2	6665.2	6558.0	6422.2	6257.8	6068.4	5861.1	5635.9	5389.3
45°	7590.8	7590.8	7522.9	7437.1	7319.2	7165.5	6983.3	6801.0	6536.5	6275.7	5989.7
42.5°	8412.8	8412.8	8334.2	8237.7	8101.9	7933.9	7726.6	7490.8	7229.9	6936.8	6625.9
40°	9266.9	9266.9	9177.6	9066.8	8916.7	8723.7	8491.4	8227.0	7933.9	7608.7	7265.6
37.5°	10139.0	10139.0	10038.9	9917.4	9749.4	9535.0	9274.1	8981.0	8652.2	8291.3	7912.5
35°	11018.1	11018.1	10907.3	10775.1	10589.3	10353.4	10071.1	9745.8	9381.3	8988.2	8562.9
32.5°	11915.2	11915.2	11793.6	11643.5	11432.7	11171.8	10860.9	10507.1	10139.0	9681.5	9216.9
30°	12801.5	12801.5	12669.2	12504.8	12279.7	11993.8	11654.3	11264.7	10832.3	10364.1	9863.8
27.5°	13673.5	13637.7	13527.0	13351.8	13105.2	12801.5	12433.4	12011.7	11543.5	11028.8	10492.8
25°	14531.2	14491.9	14370.4	14177.4	13912.9	13580.6	13183.9	12733.6	12229.7	11686.4	11100.3
22.5°	15353.2	15310.3	15181.6	14974.4	14692.0	14331.1	13905.8	13423.3	12887.2	12304.7	11686.4
20°	16114.4	16068.0	15935.7	15717.7	15424.7	15042.3	14592.0	14073.8	13501.9	12887.2	12229.7
17.5°	16800.6	16754.1	16614.8	16389.6	16114.4	15689.1	15224.5	14677.7	14073.8	13423.3	12733.6
15°	17404.6	17354.5	17211.6	16986.4	16671.9	16271.7	15782.0	15224.5	14592.0	13905.8	13183.9
12.5°	17919.2	17869.2	17722.6	17497.5	17172.3	16772.0	16271.7	15689.1	15042.3	14331.1	13580.6
10°	18326.6	18276.6	18137.2	17922.8	17586.8	17172.3	16671.9	16114.4	15424.7	14692.0	13912.9
7.5°	18619.7	18573.2	18444.6	18230.1	17922.8	17497.5	16986.4	16389.6	15717.7	14974.4	14177.4
5°	18841.2	18787.6	18659.0	18444.6	18137.2	17722.6	17211.6	16614.8	15935.7	15181.6	14370.4
2.5°	18994.9	18930.6	18787.6	18573.2	18276.6	17869.2	17354.5	16754.1	16068.0	15310.3	14491.9
0°	19037.8	18994.9	18841.2	18619.7	18326.6	17919.2	17404.6	16800.6	16114.4	15353.2	14531.2

REPORT NUMBER: P624055

CATALOG NUMBER: IFLD-S-SA6C-830-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°	128.7	128.7	125.1	121.5	117.9	110.8	107.2	103.6	100.1	92.9	89.3
85°	271.6	264.5	257.3	250.2	239.4	232.3	221.6	214.4	203.7	193.0	182.3
82.5°	428.9	418.1	403.8	393.1	378.8	361.0	346.7	328.8	310.9	296.6	278.8
80°	600.4	582.5	564.7	546.8	525.4	503.9	482.5	461.0	436.0	411.0	386.0
77.5°	786.2	761.2	736.2	707.6	682.6	654.0	625.4	596.8	564.7	532.5	500.3
75°	993.5	961.4	925.6	889.9	857.7	818.4	779.1	739.8	696.9	657.6	614.7
72.5°	1218.7	1179.4	1136.5	1093.6	1047.1	997.1	947.1	893.5	843.4	793.4	739.8
70°	1461.7	1415.2	1361.6	1308.0	1250.8	1190.1	1129.3	1065.0	1000.7	936.3	872.0
67.5°	1722.6	1665.4	1601.1	1536.7	1465.3	1393.8	1322.3	1247.3	1168.6	1090.0	1015.0
65°	2001.3	1929.9	1854.8	1772.6	1690.4	1608.2	1522.5	1433.1	1343.8	1250.8	1168.6
62.5°	2312.3	2222.9	2126.4	2026.4	1933.4	1833.4	1740.5	1629.7	1522.5	1418.8	1315.2
60°	2673.2	2555.3	2437.4	2312.3	2194.3	2065.7	1951.3	1829.8	1708.3	1590.4	1468.8
57.5°	3077.1	2927.0	2784.0	2633.9	2476.7	2333.7	2187.2	2040.7	1904.9	1765.5	1633.2
55°	3534.5	3352.3	3173.6	2987.7	2805.5	2626.8	2440.9	2276.5	2108.6	1951.3	1797.6
52.5°	4034.9	3827.6	3606.0	3395.1	3162.8	2941.3	2734.0	2526.7	2330.1	2140.7	1965.6
50°	4570.9	4327.9	4074.2	3816.9	3552.4	3291.5	3041.3	2798.3	2569.6	2348.0	2140.7
47.5°	5128.5	4853.3	4563.8	4270.7	3988.4	3670.3	3370.1	3094.9	2819.8	2569.6	2330.1
45°	5700.3	5389.3	5071.3	4738.9	4406.5	4063.4	3731.1	3395.1	3094.9	2798.3	2526.7
42.5°	6289.9	5939.7	5585.9	5217.8	4849.7	4474.4	4099.2	3731.1	3370.1	3041.3	2734.0
40°	6897.5	6511.5	6107.7	5707.4	5314.3	4885.4	4474.4	4063.4	3670.3	3291.5	2941.3
37.5°	7505.0	7083.3	6647.3	6197.0	5746.7	5314.3	4849.7	4406.5	3988.4	3552.4	3162.8
35°	8116.2	7651.6	7179.8	6690.2	6197.0	5707.4	5217.8	4738.9	4270.7	3816.9	3395.1
32.5°	8730.9	8223.4	7701.6	7179.8	6647.3	6107.7	5585.9	5071.3	4563.8	4074.2	3606.0
30°	9334.9	8784.5	8223.4	7651.6	7083.3	6511.5	5939.7	5389.3	4853.3	4327.9	3827.6
27.5°	9924.5	9334.9	8730.9	8116.2	7505.0	6897.5	6289.9	5700.3	5128.5	4570.9	4034.9
25°	10492.8	9863.8	9216.9	8562.9	7912.5	7265.6	6625.9	5989.7	5389.3	4803.2	4242.1
22.5°	11028.8	10364.1	9681.5	8988.2	8291.3	7608.7	6936.8	6275.7	5635.9	5021.2	4431.6
20°	11543.5	10832.3	10139.0	9381.3	8652.2	7933.9	7229.9	6536.5	5861.1	5221.4	4603.1
17.5°	12011.7	11264.7	10507.1	9745.8	8981.0	8227.0	7490.8	6801.0	6068.4	5403.6	4767.5
15°	12433.4	11654.3	10860.9	10071.1	9274.1	8491.4	7726.6	6983.3	6257.8	5568.0	4910.4
12.5°	12801.5	11993.8	11171.8	10353.4	9535.0	8723.7	7933.9	7165.5	6422.2	5707.4	5032.0
10°	13105.2	12279.7	11432.7	10589.3	9749.4	8916.7	8101.9	7319.2	6558.0	5825.3	5132.0
7.5°	13351.8	12504.8	11643.5	10775.1	9917.4	9066.8	8237.7	7437.1	6665.2	5914.7	5210.6
5°	13527.0	12669.2	11793.6	10907.3	10038.9	9177.6	8334.2	7522.9	6740.2	5979.0	5267.8
2.5°	13637.7	12801.5	11915.2	11018.1	10139.0	9266.9	8412.8	7590.8	6801.0	6032.6	5314.3
0°	13673.5	12801.5	11915.2	11018.1	10139.0	9266.9	8412.8	7590.8	6801.0	6032.6	5314.3

REPORT NUMBER: P624055

CATALOG NUMBER: IFLD-S-SA6C-830-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°	85.8	78.6	71.5	67.9	60.8	57.2	50.0	42.9	39.3	32.2	25.0
85°	171.5	157.2	146.5	135.8	125.1	110.8	100.1	89.3	75.1	64.3	50.0
82.5°	260.9	243.0	225.2	207.3	189.4	171.5	150.1	132.2	114.4	96.5	75.1
80°	361.0	332.4	307.3	282.3	257.3	232.3	203.7	178.7	150.1	125.1	100.1
77.5°	464.6	432.4	396.7	361.0	325.2	293.1	257.3	225.2	193.0	157.2	125.1
75°	575.4	532.5	493.2	446.7	403.8	357.4	314.5	271.6	232.3	193.0	150.1
72.5°	689.7	636.1	582.5	532.5	478.9	425.3	375.3	321.6	271.6	225.2	178.7
70°	807.7	743.4	679.0	618.3	557.5	493.2	436.0	375.3	314.5	257.3	203.7
67.5°	932.8	857.7	782.7	704.0	636.1	564.7	493.2	425.3	357.4	293.1	232.3
65°	1068.6	979.2	886.3	804.1	714.8	636.1	557.5	478.9	403.8	325.2	257.3
62.5°	1208.0	1104.3	1000.7	897.0	804.1	704.0	618.3	532.5	446.7	361.0	282.3
60°	1350.9	1233.0	1115.0	1000.7	886.3	782.7	679.0	582.5	493.2	396.7	307.3
57.5°	1497.4	1365.2	1233.0	1104.3	979.2	857.7	743.4	636.1	532.5	432.4	332.4
55°	1647.5	1497.4	1350.9	1208.0	1068.6	932.8	807.7	689.7	575.4	464.6	361.0
52.5°	1797.6	1633.2	1468.8	1315.2	1168.6	1015.0	872.0	739.8	614.7	500.3	386.0
50°	1951.3	1765.5	1590.4	1418.8	1250.8	1090.0	936.3	793.4	657.6	532.5	411.0
47.5°	2108.6	1904.9	1708.3	1522.5	1343.8	1168.6	1000.7	843.4	696.9	564.7	436.0
45°	2276.5	2040.7	1829.8	1629.7	1433.1	1247.3	1065.0	893.5	739.8	596.8	461.0
42.5°	2440.9	2187.2	1951.3	1740.5	1522.5	1322.3	1129.3	947.1	779.1	625.4	482.5
40°	2626.8	2333.7	2065.7	1833.4	1608.2	1393.8	1190.1	997.1	818.4	654.0	503.9
37.5°	2805.5	2476.7	2194.3	1933.4	1690.4	1465.3	1250.8	1047.1	857.7	682.6	525.4
35°	2987.7	2633.9	2312.3	2026.4	1772.6	1536.7	1308.0	1093.6	889.9	707.6	546.8
32.5°	3173.6	2784.0	2437.4	2126.4	1854.8	1601.1	1361.6	1136.5	925.6	736.2	564.7
30°	3352.3	2927.0	2555.3	2222.9	1929.9	1665.4	1415.2	1179.4	961.4	761.2	582.5
27.5°	3534.5	3077.1	2673.2	2312.3	2001.3	1722.6	1461.7	1218.7	993.5	786.2	600.4
25°	3709.6	3220.0	2784.0	2398.0	2065.7	1779.8	1511.7	1258.0	1022.1	807.7	614.7
22.5°	3870.5	3345.1	2884.1	2480.2	2133.6	1829.8	1554.6	1293.7	1050.7	829.1	629.0
20°	4017.0	3473.8	2987.7	2562.4	2197.9	1879.8	1590.4	1325.9	1075.7	847.0	643.3
17.5°	4159.9	3591.7	3080.6	2637.5	2251.5	1922.7	1626.1	1350.9	1097.2	861.3	654.0
15°	4281.5	3695.3	3162.8	2701.8	2301.5	1958.5	1654.7	1375.9	1115.0	875.6	661.2
12.5°	4388.7	3784.7	3234.3	2755.4	2340.9	1990.6	1683.3	1397.4	1132.9	886.3	671.9
10°	4474.4	3856.2	3291.5	2801.9	2376.6	2015.6	1701.1	1415.2	1143.6	897.0	679.0
7.5°	4542.3	3913.3	3338.0	2834.0	2401.6	2037.1	1719.0	1426.0	1154.3	904.2	689.7
5°	4592.4	3956.2	3370.1	2859.1	2423.1	2062.1	1740.5	1443.8	1168.6	914.9	689.7
2.5°	4631.7	3988.4	3395.1	2880.5	2437.4	2062.1	1740.5	1443.8	1168.6	914.9	689.7
0°	4631.7	3988.4	3395.1	2880.5	2437.4	2062.1	1740.5	1443.8	1168.6	914.9	689.7

REPORT NUMBER: P624055

CATALOG NUMBER: IFLD-S-SA6C-830-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.9	14.3	7.1	0.0
85°	39.3	25.0	14.3	0.0
82.5°	57.2	39.3	17.9	0.0
80°	75.1	50.0	25.0	0.0
77.5°	96.5	64.3	32.2	0.0
75°	114.4	75.1	39.3	0.0
72.5°	132.2	89.3	42.9	0.0
70°	150.1	100.1	50.0	0.0
67.5°	171.5	110.8	57.2	0.0
65°	189.4	125.1	60.8	0.0
62.5°	207.3	135.8	67.9	0.0
60°	225.2	146.5	71.5	0.0
57.5°	243.0	157.2	78.6	0.0
55°	260.9	171.5	85.8	0.0
52.5°	278.8	182.3	89.3	0.0
50°	296.6	193.0	92.9	0.0
47.5°	310.9	203.7	100.1	0.0
45°	328.8	214.4	103.6	0.0
42.5°	346.7	221.6	107.2	0.0
40°	361.0	232.3	110.8	0.0
37.5°	378.8	239.4	117.9	0.0
35°	393.1	250.2	121.5	0.0
32.5°	403.8	257.3	125.1	0.0
30°	418.1	264.5	128.7	0.0
27.5°	428.9	271.6	128.7	0.0
25°	439.6	278.8	132.2	0.0
22.5°	450.3	282.3	135.8	0.0
20°	461.0	289.5	139.4	0.0
17.5°	468.2	293.1	139.4	0.0
15°	475.3	296.6	146.5	0.0
12.5°	478.9	300.2	146.5	0.0
10°	486.0	307.3	146.5	0.0
7.5°	493.2	307.3	146.5	0.0
5°	493.2	307.3	146.5	0.0
2.5°	493.2	307.3	146.5	0.0
0°	493.2	307.3	146.5	0.0

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