

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: P628176

Luminaire Tested: **IFLD-L-SA8B-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

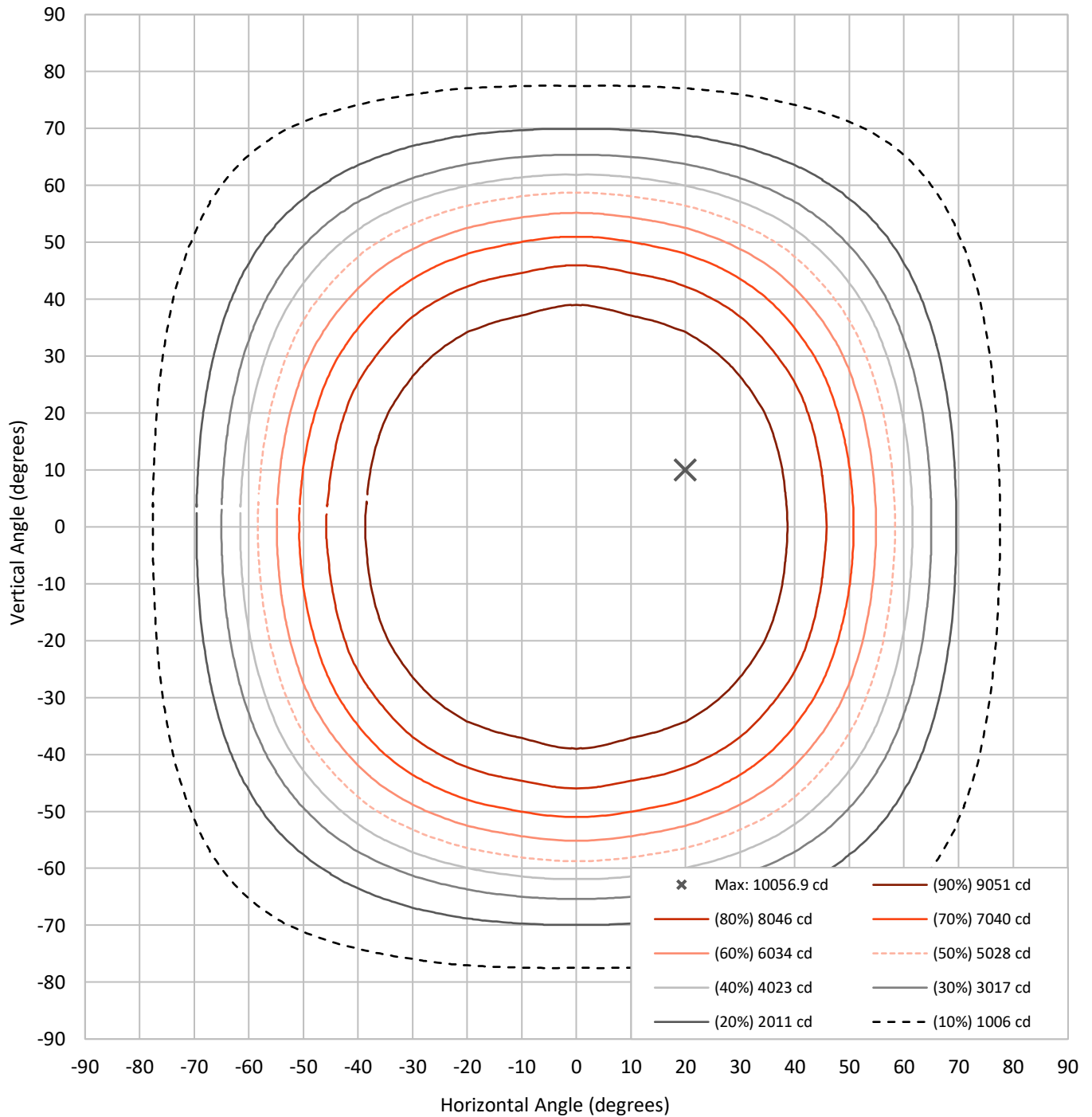
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30853.2 lumens	Max Intensity:	10056.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18932.1 lumens	Field Lumens:	22696.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320
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



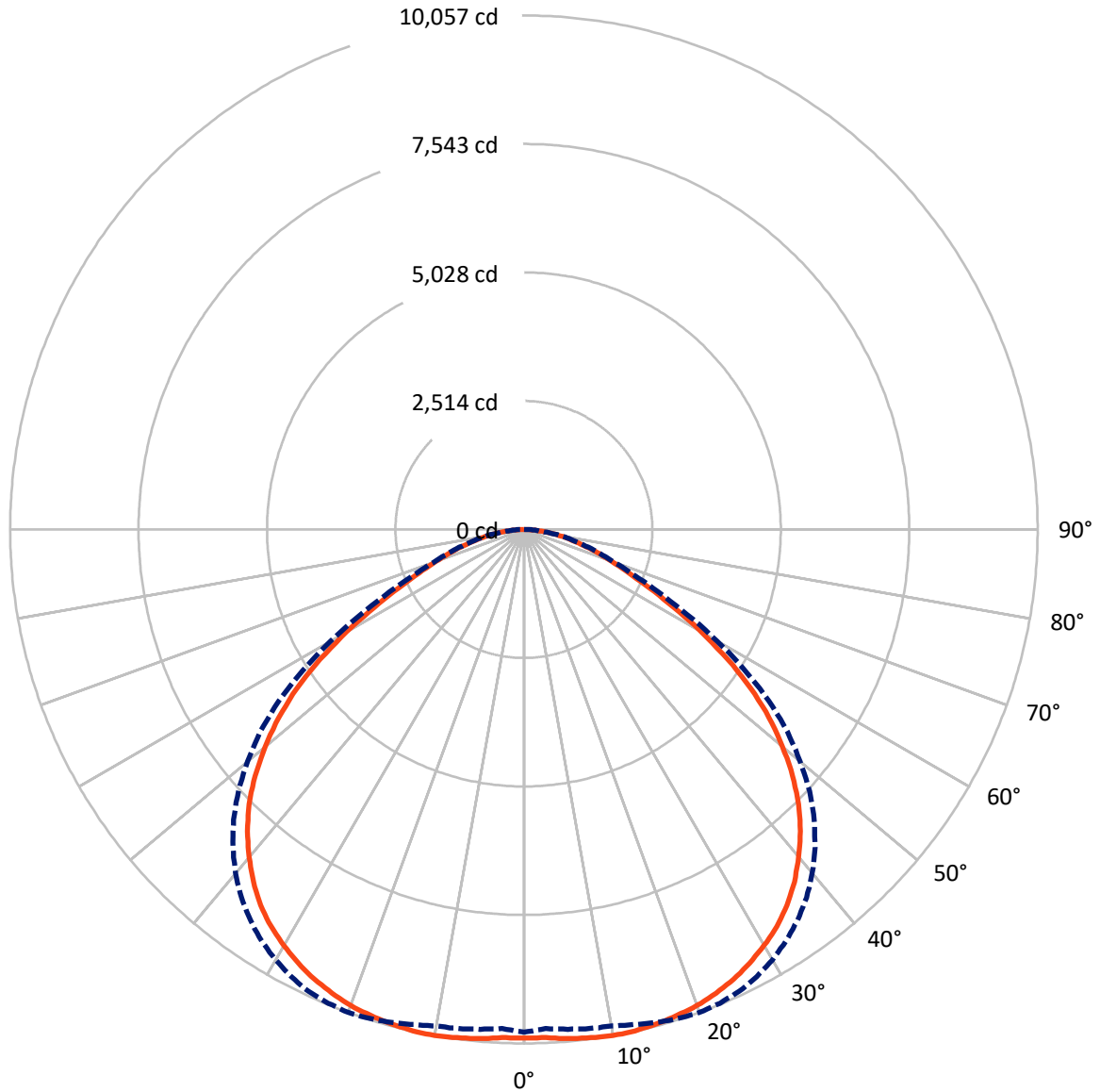
REPORT NUMBER: P628176
CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628176
CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

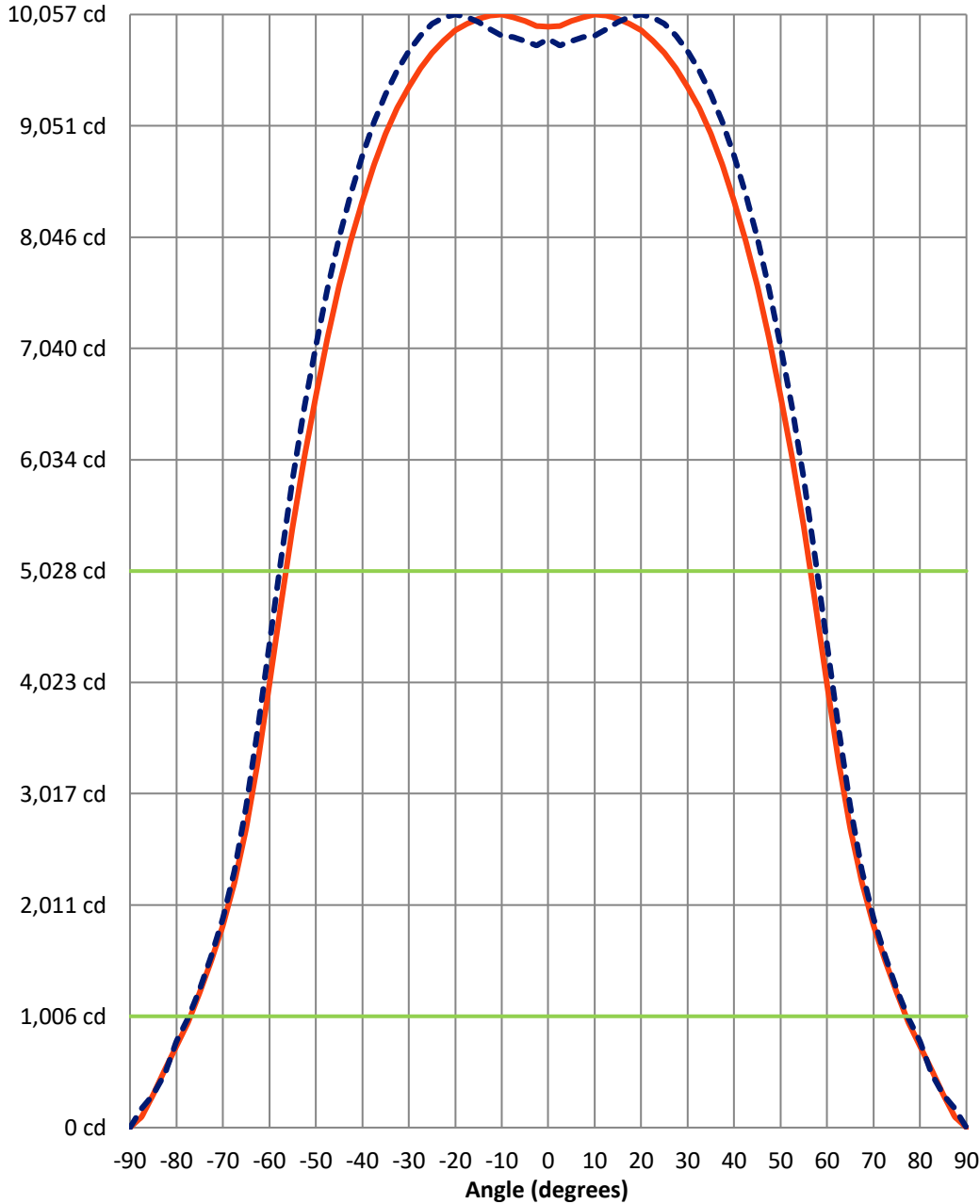
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628176
CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

Luminous Intensity Plot



Beam:
H Angle: 115.7°
V Angle: 112.9°
Lumens: 18932.1
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 22696.4
Efficiency: 73.6%

Spill:
Lumens: 8156.8
Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628176
 CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

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°	81.2	87.6	90.9	94.1	97.4	100.6	103.9	100.6	97.4	97.4	94.1
85°	217.5	224.0	227.2	250.0	272.7	285.7	301.9	298.7	298.7	295.4	292.2
82.5°	435.0	454.5	470.7	493.4	506.4	525.9	538.9	529.1	522.6	509.7	499.9
80°	772.6	779.1	782.3	785.6	769.4	766.1	759.6	749.9	736.9	720.7	704.4
77.5°	983.6	990.1	996.6	990.1	986.9	983.6	973.9	964.1	951.2	938.2	918.7
75°	1301.7	1301.7	1301.7	1292.0	1285.5	1275.8	1259.5	1243.3	1220.6	1194.6	1165.4
72.5°	1639.4	1636.1	1632.9	1613.4	1597.2	1577.7	1555.0	1535.5	1509.5	1480.3	1441.3
70°	1993.2	1999.7	2002.9	1977.0	1957.5	1931.5	1902.3	1866.6	1827.6	1785.4	1730.3
67.5°	2480.1	2473.6	2467.2	2431.4	2405.5	2369.8	2327.6	2275.6	2217.2	2152.3	2074.4
65°	3083.9	3093.7	3074.2	3038.5	2989.8	2931.4	2866.4	2791.8	2704.1	2606.7	2496.4
62.5°	3814.3	3830.6	3807.9	3762.4	3700.7	3622.8	3531.9	3424.8	3304.7	3168.3	3032.0
60°	4645.4	4642.1	4599.9	4538.3	4457.1	4359.7	4259.1	4142.2	4005.9	3846.8	3681.2
57.5°	5408.3	5401.8	5349.8	5288.1	5207.0	5103.1	4996.0	4872.6	4729.8	4561.0	4369.5
55°	6093.2	6086.7	6034.8	5969.9	5885.5	5781.6	5684.2	5567.3	5427.7	5249.2	5044.7
52.5°	6700.3	6703.5	6658.1	6586.6	6495.7	6395.1	6301.0	6184.1	6051.0	5872.5	5674.4
50°	7258.6	7255.4	7206.7	7141.8	7057.4	6960.0	6865.8	6749.0	6609.4	6437.3	6245.8
47.5°	7778.0	7771.5	7716.3	7644.9	7557.3	7472.9	7385.2	7281.3	7135.3	6963.2	6771.7
45°	8213.0	8200.0	8144.8	8076.7	7992.3	7917.6	7839.7	7761.8	7606.0	7446.9	7265.1
42.5°	8586.3	8583.1	8527.9	8459.7	8375.3	8310.4	8239.0	8141.6	8011.7	7865.7	7687.1
40°	8943.4	8917.5	8862.3	8797.3	8719.4	8664.2	8592.8	8495.4	8368.8	8226.0	8054.0
37.5°	9209.6	9212.9	9154.4	9083.0	9014.8	8962.9	8898.0	8807.1	8696.7	8557.1	8385.1
35°	9462.8	9446.6	9397.9	9336.2	9274.5	9216.1	9147.9	9070.0	8979.1	8849.3	8687.0
32.5°	9628.4	9651.1	9592.7	9527.7	9492.0	9446.6	9375.2	9294.0	9212.9	9083.0	8936.9
30°	9810.2	9790.7	9745.2	9690.1	9664.1	9634.9	9573.2	9495.3	9401.1	9284.3	9147.9
27.5°	9936.8	9927.0	9871.9	9819.9	9806.9	9781.0	9732.3	9664.1	9569.9	9456.3	9329.7
25°	9992.0	9998.5	9946.5	9917.3	9917.3	9901.1	9862.1	9803.7	9709.5	9605.7	9482.3
22.5°	10017.9	10011.4	9975.7	9969.2	9985.5	9972.5	9956.3	9904.3	9819.9	9735.5	9631.6
20°	10034.2	9988.7	9956.3	9982.2	10001.7	9998.5	9985.5	9953.0	9914.1	9842.6	9751.7
17.5°	9998.5	9969.2	9930.3	9969.2	10011.4	10014.7	10001.7	9982.2	9972.5	9927.0	9845.9
15°	9910.8	9888.1	9894.6	9933.5	9982.2	9998.5	10008.2	10030.9	10017.9	9982.2	9910.8
12.5°	9852.4	9823.2	9852.4	9891.3	9917.3	9927.0	10004.9	10047.1	10047.1	10014.7	9969.2
10°	9836.1	9777.7	9816.7	9852.4	9865.4	9923.8	9988.7	10034.2	10056.9	10030.9	9972.5
7.5°	9803.7	9764.7	9781.0	9797.2	9871.9	9914.1	9949.8	9998.5	10030.9	10027.7	9975.7
5°	9787.4	9738.8	9745.2	9813.4	9865.4	9894.6	9907.6	9949.8	9998.5	10008.2	9969.2
2.5°	9745.2	9722.5	9771.2	9777.7	9816.7	9839.4	9852.4	9891.3	9953.0	9975.7	9959.5
0°	9722.5	9690.1	9657.6	9683.6	9748.5	9797.2	9816.7	9875.1	9946.5	9969.2	9933.5



REPORT NUMBER: P628176
 CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

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°	90.9	87.6	84.4	81.2	84.4	84.4	84.4	81.2	84.4	81.2	81.2
85°	282.4	269.4	259.7	246.7	233.7	224.0	211.0	198.0	194.8	191.5	185.0
82.5°	486.9	470.7	454.5	435.0	415.5	392.8	370.1	344.1	337.6	331.1	321.4
80°	685.0	662.2	639.5	616.8	597.3	574.6	548.6	519.4	499.9	483.7	464.2
77.5°	892.7	860.3	827.8	788.8	766.1	743.4	717.4	688.2	659.0	633.0	603.8
75°	1129.7	1094.0	1061.5	1022.6	980.4	938.2	896.0	857.0	814.8	775.9	736.9
72.5°	1392.6	1340.7	1288.8	1240.1	1188.1	1136.2	1081.0	1029.1	977.1	925.2	870.0
70°	1668.6	1603.6	1538.7	1473.8	1405.6	1337.5	1272.5	1207.6	1142.7	1074.5	1012.8
67.5°	1993.2	1918.5	1834.1	1743.2	1642.6	1555.0	1470.6	1392.6	1314.7	1236.8	1158.9
65°	2399.0	2295.1	2181.5	2058.1	1941.3	1824.4	1701.0	1584.2	1493.3	1402.4	1314.7
62.5°	2898.9	2752.8	2593.8	2434.7	2291.9	2139.3	1996.4	1843.9	1701.0	1571.2	1464.1
60°	3496.2	3298.2	3103.4	2898.9	2700.9	2493.1	2311.3	2123.0	1944.5	1785.4	1629.6
57.5°	4155.2	3924.7	3691.0	3441.0	3171.6	2928.1	2681.4	2434.7	2223.7	2012.7	1837.4
55°	4823.9	4580.5	4317.5	4035.1	3739.7	3428.0	3093.7	2817.7	2528.8	2282.1	2054.9
52.5°	5460.2	5207.0	4934.3	4674.6	4320.8	3963.7	3596.8	3233.3	2895.7	2580.8	2304.8
50°	6028.3	5781.6	5518.6	5216.7	4888.9	4509.0	4100.0	3691.0	3291.7	2921.6	2577.5
47.5°	6547.7	6307.5	6044.5	5742.6	5444.0	5022.0	4609.7	4158.4	3713.7	3288.5	2885.9
45°	7034.6	6791.2	6518.5	6229.6	5885.5	5508.9	5083.6	4629.2	4152.0	3674.8	3210.5
42.5°	7476.1	7232.6	6956.7	6658.1	6317.2	5943.9	5531.6	5073.9	4593.4	4074.0	3564.4
40°	7862.4	7625.4	7359.3	7047.6	6729.5	6336.7	5930.9	5495.9	4999.2	4476.6	3915.0
37.5°	8200.0	7979.3	7716.3	7407.9	7070.3	6719.7	6301.0	5866.0	5418.0	4849.9	4275.3
35°	8498.7	8294.2	8024.7	7732.6	7401.5	7031.4	6638.6	6213.3	5729.6	5197.2	4638.9
32.5°	8758.4	8550.6	8303.9	8011.7	7690.4	7343.0	6940.5	6512.0	6054.3	5512.1	4905.1
30°	8979.1	8777.9	8544.1	8268.2	7959.8	7615.7	7222.9	6791.2	6323.7	5784.8	5184.3
27.5°	9170.7	8979.1	8751.9	8495.4	8200.0	7868.9	7472.9	7037.9	6560.7	6041.3	5440.7
25°	9336.2	9151.2	8940.2	8696.7	8404.5	8079.9	7706.6	7252.1	6774.9	6252.3	5658.2
22.5°	9485.5	9307.0	9096.0	8859.0	8592.8	8268.2	7891.6	7440.4	6956.7	6440.6	5856.2
20°	9618.6	9453.1	9245.3	9001.9	8735.7	8407.8	8034.5	7606.0	7119.0	6612.6	6034.8
17.5°	9725.8	9579.7	9371.9	9115.5	8849.3	8531.1	8167.6	7774.8	7258.6	6758.7	6184.1
15°	9800.4	9657.6	9469.3	9209.6	8949.9	8635.0	8271.4	7865.7	7385.2	6875.6	6307.5
12.5°	9852.4	9699.8	9524.5	9284.3	9024.6	8712.9	8359.1	7959.8	7492.3	6979.4	6414.6
10°	9865.4	9725.8	9550.5	9336.2	9083.0	8781.1	8433.8	8037.7	7580.0	7060.6	6502.2
7.5°	9871.9	9738.8	9579.7	9375.2	9125.2	8833.1	8488.9	8099.4	7644.9	7128.8	6567.2
5°	9868.6	9742.0	9599.2	9401.1	9151.2	8862.3	8524.7	8141.6	7690.4	7174.2	6615.9
2.5°	9858.9	9745.2	9612.2	9420.6	9180.4	8894.7	8560.4	8190.3	7739.1	7213.2	6654.8
0°	9884.8	9787.4	9618.6	9414.1	9186.9	8894.7	8557.1	8196.8	7745.6	7209.9	6651.6



REPORT NUMBER: P628176
 CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

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°	81.2	77.9	77.9	74.7	71.4	68.2	61.7	58.4	51.9	42.2	32.5
85°	175.3	165.6	155.8	149.3	142.8	136.3	126.6	116.9	103.9	84.4	64.9
82.5°	308.4	288.9	269.4	246.7	227.2	207.8	191.5	175.3	155.8	126.6	97.4
80°	441.5	412.3	383.1	350.6	321.4	288.9	259.7	233.7	207.8	168.8	129.9
77.5°	574.6	535.6	493.4	454.5	412.3	370.1	327.9	292.2	253.2	207.8	162.3
75°	697.9	652.5	613.5	558.4	506.4	451.2	396.0	347.3	298.7	243.5	194.8
72.5°	821.3	762.9	707.7	655.7	597.3	529.1	467.5	405.8	344.1	279.2	220.7
70°	944.7	873.2	805.1	743.4	678.5	610.3	535.6	464.2	389.6	311.6	243.5
67.5°	1071.3	990.1	912.2	834.3	759.6	681.7	603.8	522.6	435.0	344.1	269.4
65°	1210.9	1110.2	1016.1	928.4	840.8	756.4	668.7	581.1	483.7	379.8	292.2
62.5°	1350.4	1240.1	1129.7	1019.3	921.9	827.8	733.7	636.3	529.1	418.8	314.9
60°	1499.8	1373.2	1246.6	1123.2	1003.1	899.2	795.3	691.5	577.8	454.5	337.6
57.5°	1665.3	1512.8	1369.9	1230.3	1094.0	970.6	857.0	746.6	620.0	490.2	363.6
55°	1853.6	1665.3	1496.5	1340.7	1191.4	1042.0	918.7	805.1	668.7	525.9	392.8
52.5°	2051.6	1834.1	1629.6	1454.3	1295.3	1126.4	977.1	850.5	717.4	561.6	418.8
50°	2282.1	2006.2	1778.9	1564.7	1386.1	1210.9	1038.8	902.5	766.1	603.8	444.7
47.5°	2519.1	2213.9	1928.3	1694.5	1483.5	1292.0	1110.2	947.9	811.6	642.8	470.7
45°	2795.0	2412.0	2097.1	1821.1	1577.7	1376.4	1181.6	996.6	850.5	681.7	496.7
42.5°	3061.2	2645.7	2272.4	1960.7	1684.8	1457.6	1246.6	1048.5	889.5	720.7	519.4
40°	3376.1	2879.4	2441.2	2093.8	1791.9	1535.5	1311.5	1103.7	925.2	756.4	542.1
37.5°	3678.0	3116.4	2645.7	2239.9	1895.8	1613.4	1376.4	1155.7	957.6	792.1	571.3
35°	3976.7	3379.3	2840.5	2376.3	2002.9	1701.0	1441.3	1204.4	990.1	821.3	597.3
32.5°	4262.3	3626.1	3038.5	2528.8	2119.8	1782.2	1499.8	1249.8	1022.6	847.3	623.3
30°	4528.5	3859.8	3233.3	2684.7	2226.9	1856.9	1555.0	1295.3	1061.5	870.0	649.3
27.5°	4772.0	4087.0	3428.0	2830.7	2327.6	1925.0	1613.4	1337.5	1094.0	892.7	672.0
25°	4992.7	4291.5	3606.6	2963.8	2418.5	1999.7	1668.6	1379.7	1123.2	912.2	691.5
22.5°	5200.5	4479.8	3768.9	3096.9	2528.8	2074.4	1720.5	1418.6	1152.4	931.7	710.9
20°	5382.3	4651.9	3924.7	3230.0	2626.2	2142.5	1766.0	1454.3	1178.4	944.7	730.4
17.5°	5528.4	4804.5	4064.3	3346.9	2710.6	2201.0	1804.9	1486.8	1201.1	960.9	743.4
15°	5658.2	4934.3	4181.2	3447.5	2785.3	2249.7	1840.6	1512.8	1220.6	970.6	759.6
12.5°	5768.6	5044.7	4281.8	3535.2	2850.2	2291.9	1869.8	1532.2	1236.8	980.4	769.4
10°	5859.5	5132.3	4366.2	3603.3	2902.1	2324.3	1892.6	1551.7	1249.8	990.1	779.1
7.5°	5927.7	5197.2	4427.9	3661.8	2944.4	2347.0	1912.0	1564.7	1262.8	996.6	795.3
5°	5979.6	5252.4	4476.6	3700.7	2976.8	2379.5	1934.8	1580.9	1275.8	1003.1	795.3
2.5°	6018.6	5297.9	4515.5	3733.2	3002.8	2373.0	1934.8	1577.7	1275.8	1003.1	792.1
0°	6012.1	5301.1	4512.3	3733.2	3002.8	2366.5	1934.8	1574.4	1275.8	1003.1	792.1



REPORT NUMBER: P628176
 CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.7	16.2	6.5	0.0
85°	48.7	32.5	16.2	0.0
82.5°	71.4	45.4	22.7	0.0
80°	94.1	61.7	29.2	0.0
77.5°	120.1	77.9	39.0	0.0
75°	142.8	90.9	45.4	0.0
72.5°	165.6	107.1	51.9	0.0
70°	185.0	120.1	58.4	0.0
67.5°	204.5	136.3	68.2	0.0
65°	220.7	149.3	74.7	0.0
62.5°	233.7	165.6	81.2	0.0
60°	250.0	178.5	87.6	0.0
57.5°	262.9	188.3	94.1	0.0
55°	275.9	194.8	100.6	0.0
52.5°	288.9	204.5	107.1	0.0
50°	301.9	214.3	113.6	0.0
47.5°	314.9	220.7	116.9	0.0
45°	334.4	230.5	123.4	0.0
42.5°	350.6	237.0	129.9	0.0
40°	366.8	243.5	133.1	0.0
37.5°	383.1	250.0	139.6	0.0
35°	399.3	256.5	142.8	0.0
32.5°	412.3	262.9	146.1	0.0
30°	425.3	269.4	149.3	0.0
27.5°	438.2	272.7	152.6	0.0
25°	448.0	279.2	155.8	0.0
22.5°	457.7	282.4	159.1	0.0
20°	464.2	285.7	162.3	0.0
17.5°	474.0	288.9	165.6	0.0
15°	477.2	292.2	172.1	0.0
12.5°	483.7	295.4	172.1	0.0
10°	486.9	298.7	172.1	0.0
7.5°	493.4	298.7	172.1	0.0
5°	490.2	298.7	172.1	0.0
2.5°	490.2	298.7	172.1	0.0
0°	486.9	298.7	172.1	0.0

(END OF REPORT)