

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: P628273

Luminaire Tested: **IFLD-S-SA3C-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628273  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

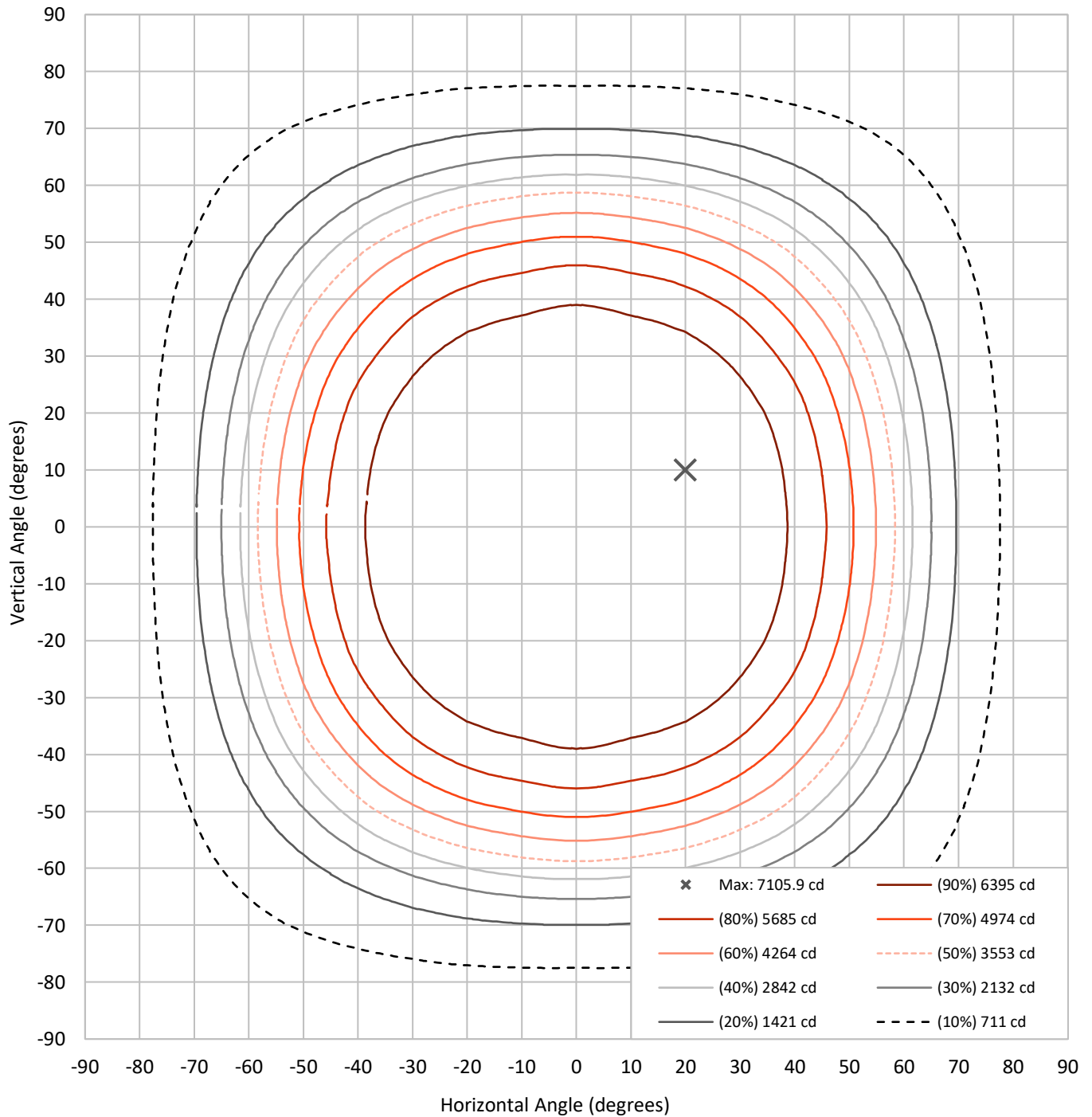
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21799.9 lumens	Max Intensity:	7105.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	135.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13376.9 lumens	Field Lumens:	16036.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
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		



REPORT NUMBER: P628273  
CATALOG NUMBER: IFLD-S-SA3C-740-U-LAM

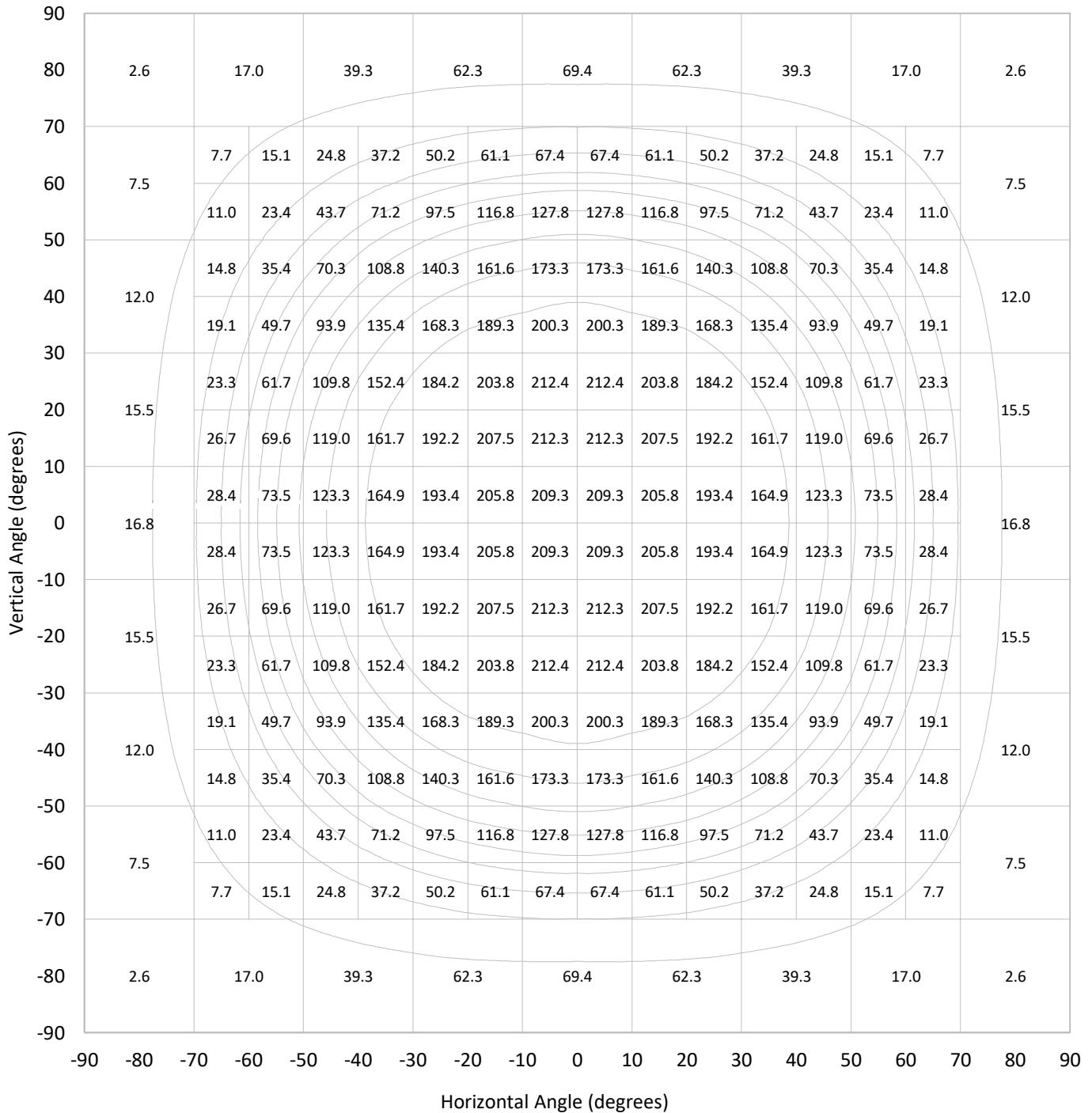
### Iso-Candela Plot





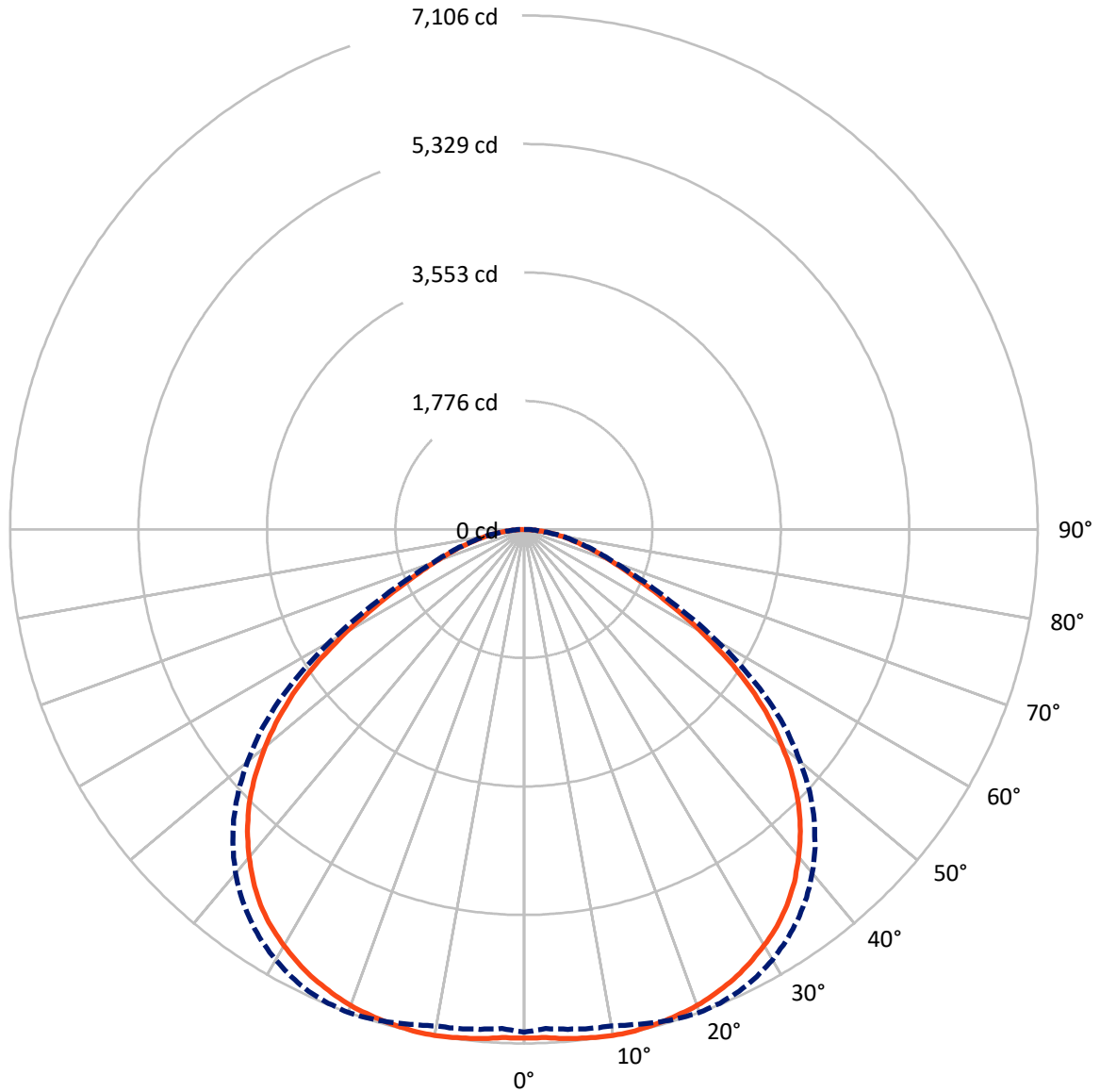
REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-LAM

### Lumen Table



REPORT NUMBER: P628273  
CATALOG NUMBER: IFLD-S-SA3C-740-U-LAM

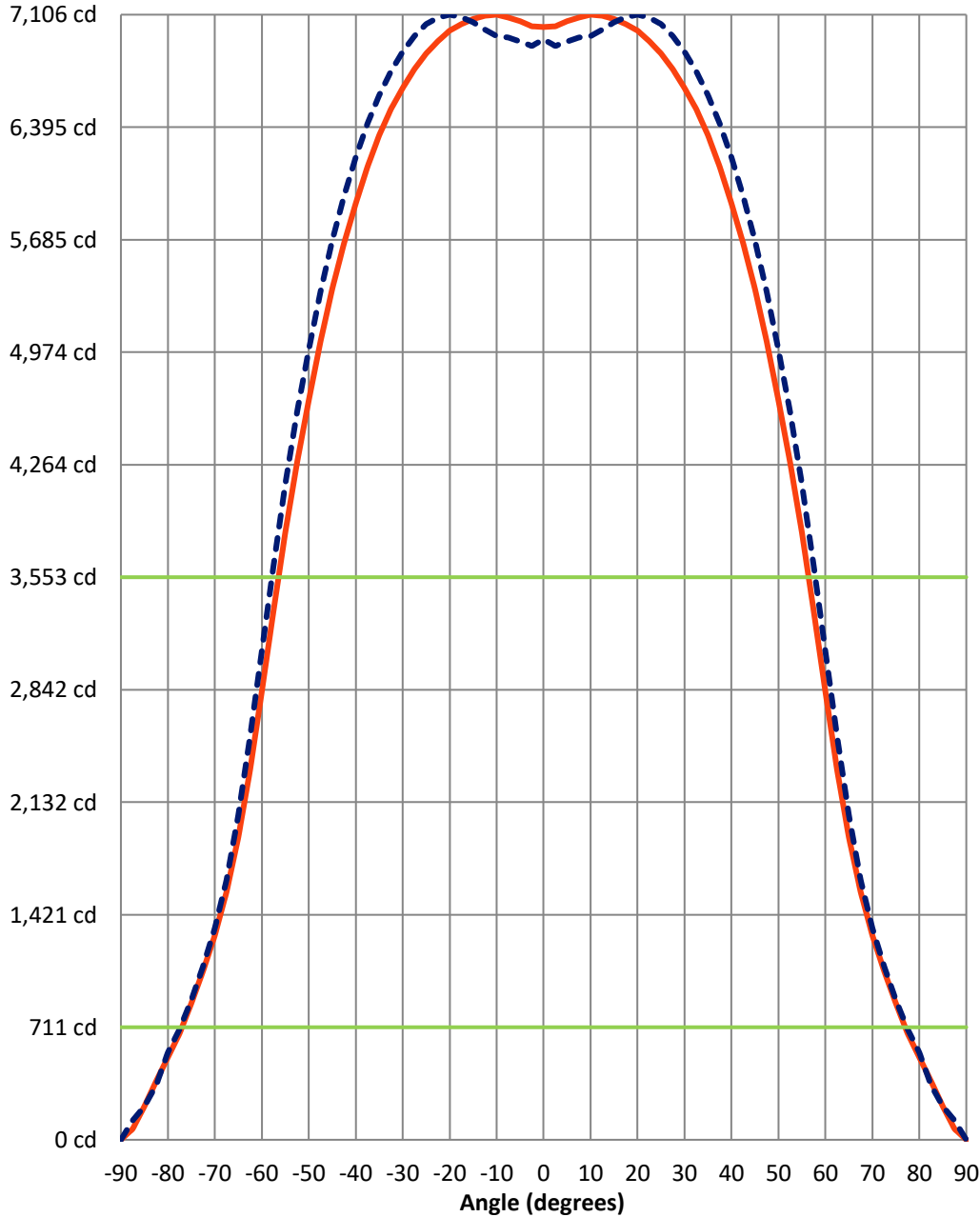
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 13376.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 16036.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5763.3  
 Efficiency: 26.4%

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



REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-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°	57.3	61.9	64.2	66.5	68.8	71.1	73.4	71.1	68.8	68.8	66.5
85°	153.7	158.3	160.6	176.6	192.7	201.8	213.3	211.0	211.0	208.7	206.4
82.5°	307.4	321.1	332.6	348.6	357.8	371.6	380.8	373.9	369.3	360.1	353.2
80°	545.9	550.5	552.8	555.1	543.6	541.3	536.7	529.8	520.7	509.2	497.7
77.5°	695.0	699.6	704.2	699.6	697.3	695.0	688.1	681.2	672.1	662.9	649.1
75°	919.8	919.8	919.8	912.9	908.3	901.4	890.0	878.5	862.4	844.1	823.4
72.5°	1158.3	1156.0	1153.7	1140.0	1128.5	1114.7	1098.7	1084.9	1066.6	1045.9	1018.4
70°	1408.3	1412.9	1415.2	1396.9	1383.1	1364.8	1344.1	1318.9	1291.4	1261.5	1222.5
67.5°	1752.4	1747.8	1743.2	1718.0	1699.6	1674.4	1644.6	1607.9	1566.6	1520.7	1465.7
65°	2179.0	2185.9	2172.1	2146.9	2112.5	2071.2	2025.3	1972.6	1910.7	1841.8	1763.9
62.5°	2695.1	2706.6	2690.5	2658.4	2614.8	2559.8	2495.5	2419.9	2335.0	2238.7	2142.3
60°	3282.3	3280.0	3250.2	3206.6	3149.3	3080.4	3009.3	2926.8	2830.4	2718.0	2601.1
57.5°	3821.3	3816.7	3780.0	3736.4	3679.1	3605.7	3530.0	3442.8	3341.9	3222.6	3087.3
55°	4305.3	4300.7	4264.0	4218.1	4158.5	4085.1	4016.3	3933.7	3835.1	3708.9	3564.4
52.5°	4734.2	4736.5	4704.4	4653.9	4589.7	4518.6	4452.1	4369.5	4275.5	4149.3	4009.4
50°	5128.7	5126.4	5092.0	5046.1	4986.5	4917.7	4851.2	4768.6	4670.0	4548.4	4413.1
47.5°	5495.7	5491.1	5452.1	5401.7	5339.7	5280.1	5218.2	5144.8	5041.6	4920.0	4784.7
45°	5803.1	5793.9	5754.9	5706.7	5647.1	5594.3	5539.3	5484.2	5374.1	5261.7	5133.3
42.5°	6066.8	6064.5	6025.6	5977.4	5917.7	5871.9	5821.4	5752.6	5660.9	5557.6	5431.5
40°	6319.1	6300.8	6261.8	6215.9	6160.9	6121.9	6071.4	6002.6	5913.2	5812.2	5690.7
37.5°	6507.2	6509.5	6468.2	6417.8	6369.6	6332.9	6287.0	6222.8	6144.8	6046.2	5924.6
35°	6686.1	6674.7	6640.3	6596.7	6553.1	6511.8	6463.6	6408.6	6344.4	6252.6	6137.9
32.5°	6803.1	6819.2	6777.9	6732.0	6706.8	6674.7	6624.2	6566.9	6509.5	6417.8	6314.6
30°	6931.6	6917.8	6885.7	6846.7	6828.3	6807.7	6764.1	6709.1	6642.6	6560.0	6463.6
27.5°	7021.0	7014.1	6975.1	6938.4	6929.3	6910.9	6876.5	6828.3	6761.8	6681.5	6592.1
25°	7060.0	7064.6	7027.9	7007.3	7007.3	6995.8	6968.3	6927.0	6860.5	6787.1	6699.9
22.5°	7078.4	7073.8	7048.5	7044.0	7055.4	7046.2	7034.8	6998.1	6938.4	6878.8	6805.4
20°	7089.8	7057.7	7034.8	7053.1	7066.9	7064.6	7055.4	7032.5	7005.0	6954.5	6890.3
17.5°	7064.6	7044.0	7016.4	7044.0	7073.8	7076.1	7066.9	7053.1	7046.2	7014.1	6956.8
15°	7002.7	6986.6	6991.2	7018.7	7053.1	7064.6	7071.5	7087.5	7078.4	7053.1	7002.7
12.5°	6961.4	6940.7	6961.4	6988.9	7007.3	7014.1	7069.2	7099.0	7099.0	7076.1	7044.0
10°	6949.9	6908.6	6936.1	6961.4	6970.6	7011.8	7057.7	7089.8	7105.9	7087.5	7046.2
7.5°	6927.0	6899.4	6910.9	6922.4	6975.1	7005.0	7030.2	7064.6	7087.5	7085.2	7048.5
5°	6915.5	6881.1	6885.7	6933.9	6970.6	6991.2	7000.4	7030.2	7064.6	7071.5	7044.0
2.5°	6885.7	6869.6	6904.0	6908.6	6936.1	6952.2	6961.4	6988.9	7032.5	7048.5	7037.1
0°	6869.6	6846.7	6823.8	6842.1	6888.0	6922.4	6936.1	6977.4	7027.9	7044.0	7018.7



REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-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°	64.2	61.9	59.6	57.3	59.6	59.6	59.6	57.3	59.6	57.3	57.3
85°	199.6	190.4	183.5	174.3	165.1	158.3	149.1	139.9	137.6	135.3	130.7
82.5°	344.1	332.6	321.1	307.4	293.6	277.5	261.5	243.1	238.5	234.0	227.1
80°	484.0	467.9	451.9	435.8	422.0	406.0	387.6	367.0	353.2	341.8	328.0
77.5°	630.8	607.8	584.9	557.4	541.3	525.3	506.9	486.3	465.6	447.3	426.6
75°	798.2	773.0	750.0	722.5	692.7	662.9	633.1	605.5	575.7	548.2	520.7
72.5°	984.0	947.3	910.6	876.2	839.5	802.8	763.8	727.1	690.4	653.7	614.7
70°	1179.0	1133.1	1087.2	1041.3	993.2	945.0	899.1	853.3	807.4	759.2	715.6
67.5°	1408.3	1355.6	1295.9	1231.7	1160.6	1098.7	1039.0	984.0	928.9	873.9	818.9
65°	1695.0	1621.6	1541.4	1454.2	1371.6	1289.1	1201.9	1119.3	1055.1	990.9	928.9
62.5°	2048.3	1945.1	1832.7	1720.3	1619.4	1511.5	1410.6	1302.8	1201.9	1110.2	1034.5
60°	2470.3	2330.4	2192.8	2048.3	1908.4	1761.6	1633.1	1500.1	1373.9	1261.5	1151.4
57.5°	2935.9	2773.1	2607.9	2431.3	2240.9	2068.9	1894.6	1720.3	1571.2	1422.1	1298.2
55°	3408.4	3236.4	3050.6	2851.1	2642.3	2422.1	2185.9	1990.9	1786.8	1612.5	1451.9
52.5°	3858.0	3679.1	3486.4	3302.9	3052.9	2800.6	2541.4	2284.5	2046.0	1823.5	1628.5
50°	4259.4	4085.1	3899.3	3686.0	3454.3	3185.9	2896.9	2607.9	2325.8	2064.3	1821.2
47.5°	4626.4	4456.7	4270.9	4057.6	3846.5	3548.4	3257.1	2938.2	2624.0	2323.5	2039.1
45°	4970.4	4798.4	4605.7	4401.6	4158.5	3892.4	3591.9	3270.8	2933.6	2596.5	2268.5
42.5°	5282.4	5110.4	4915.4	4704.4	4463.5	4199.8	3908.5	3585.1	3245.6	2878.6	2518.5
40°	5555.3	5387.9	5199.8	4979.6	4754.8	4477.3	4190.6	3883.2	3532.3	3163.0	2766.2
37.5°	5793.9	5637.9	5452.1	5234.2	4995.7	4748.0	4452.1	4144.7	3828.2	3426.8	3020.8
35°	6004.9	5860.4	5670.0	5463.6	5229.6	4968.2	4690.6	4390.1	4048.4	3672.2	3277.7
32.5°	6188.4	6041.6	5867.3	5660.9	5433.8	5188.3	4903.9	4601.2	4277.8	3894.7	3465.8
30°	6344.4	6202.2	6037.0	5842.1	5624.2	5381.0	5103.5	4798.4	4468.1	4087.4	3663.0
27.5°	6479.7	6344.4	6183.8	6002.6	5793.9	5559.9	5280.1	4972.7	4635.6	4268.6	3844.2
25°	6596.7	6465.9	6316.8	6144.8	5938.4	5709.0	5445.2	5124.1	4787.0	4417.7	3997.9
22.5°	6702.2	6576.0	6426.9	6259.5	6071.4	5842.1	5576.0	5257.2	4915.4	4550.7	4137.8
20°	6796.2	6679.3	6532.5	6360.4	6172.3	5940.7	5676.9	5374.1	5030.1	4672.3	4264.0
17.5°	6871.9	6768.7	6621.9	6440.7	6252.6	6027.8	5770.9	5493.4	5128.7	4775.5	4369.5
15°	6924.7	6823.8	6690.7	6507.2	6323.7	6101.2	5844.3	5557.6	5218.2	4858.1	4456.7
12.5°	6961.4	6853.6	6729.7	6560.0	6376.5	6156.3	5906.3	5624.2	5293.9	4931.5	4532.4
10°	6970.6	6871.9	6748.1	6596.7	6417.8	6204.5	5959.0	5679.2	5355.8	4988.8	4594.3
7.5°	6975.1	6881.1	6768.7	6624.2	6447.6	6241.2	5998.0	5722.8	5401.7	5037.0	4640.2
5°	6972.8	6883.4	6782.5	6642.6	6465.9	6261.8	6023.3	5752.6	5433.8	5069.1	4674.6
2.5°	6966.0	6885.7	6791.6	6656.3	6486.6	6284.7	6048.5	5787.0	5468.2	5096.6	4702.1
0°	6984.3	6915.5	6796.2	6651.7	6491.2	6284.7	6046.2	5791.6	5472.8	5094.3	4699.8





REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-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°	57.3	55.0	55.0	52.8	50.5	48.2	43.6	41.3	36.7	29.8	22.9
85°	123.9	117.0	110.1	105.5	100.9	96.3	89.5	82.6	73.4	59.6	45.9
82.5°	217.9	204.1	190.4	174.3	160.6	146.8	135.3	123.9	110.1	89.5	68.8
80°	311.9	291.3	270.7	247.7	227.1	204.1	183.5	165.1	146.8	119.3	91.7
77.5°	406.0	378.5	348.6	321.1	291.3	261.5	231.7	206.4	178.9	146.8	114.7
75°	493.1	461.0	433.5	394.5	357.8	318.8	279.8	245.4	211.0	172.0	137.6
72.5°	580.3	539.0	500.0	463.3	422.0	373.9	330.3	286.7	243.1	197.3	156.0
70°	667.5	617.0	568.8	525.3	479.4	431.2	378.5	328.0	275.2	220.2	172.0
67.5°	756.9	699.6	644.5	589.5	536.7	481.7	426.6	369.3	307.4	243.1	190.4
65°	855.6	784.4	717.9	656.0	594.1	534.4	472.5	410.6	341.8	268.4	206.4
62.5°	954.2	876.2	798.2	720.2	651.4	584.9	518.4	449.6	373.9	295.9	222.5
60°	1059.7	970.2	880.8	793.6	708.8	635.4	562.0	488.6	408.3	321.1	238.5
57.5°	1176.7	1068.9	967.9	869.3	773.0	685.8	605.5	527.6	438.1	346.3	256.9
55°	1309.7	1176.7	1057.4	947.3	841.8	736.3	649.1	568.8	472.5	371.6	277.5
52.5°	1449.6	1295.9	1151.4	1027.6	915.2	795.9	690.4	600.9	506.9	396.8	295.9
50°	1612.5	1417.5	1256.9	1105.6	979.4	855.6	734.0	637.6	541.3	426.6	314.2
47.5°	1779.9	1564.3	1362.5	1197.3	1048.2	912.9	784.4	669.8	573.4	454.2	332.6
45°	1974.9	1704.2	1481.7	1286.8	1114.7	972.5	834.9	704.2	600.9	481.7	350.9
42.5°	2163.0	1869.4	1605.6	1385.4	1190.4	1029.9	880.8	740.9	628.5	509.2	367.0
40°	2385.4	2034.5	1724.9	1479.4	1266.1	1084.9	926.7	779.9	653.7	534.4	383.0
37.5°	2598.8	2202.0	1869.4	1582.7	1339.5	1140.0	972.5	816.6	676.6	559.7	403.7
35°	2809.8	2387.7	2007.0	1679.0	1415.2	1201.9	1018.4	851.0	699.6	580.3	422.0
32.5°	3011.6	2562.1	2146.9	1786.8	1497.8	1259.2	1059.7	883.1	722.5	598.7	440.4
30°	3199.7	2727.2	2284.5	1896.9	1573.5	1312.0	1098.7	915.2	750.0	614.7	458.7
27.5°	3371.7	2887.8	2422.1	2000.1	1644.6	1360.2	1140.0	945.0	773.0	630.8	474.8
25°	3527.7	3032.3	2548.3	2094.1	1708.8	1412.9	1179.0	974.8	793.6	644.5	488.6
22.5°	3674.5	3165.3	2663.0	2188.2	1786.8	1465.7	1215.7	1002.3	814.3	658.3	502.3
20°	3803.0	3286.9	2773.1	2282.2	1855.6	1513.8	1247.8	1027.6	832.6	667.5	516.1
17.5°	3906.2	3394.7	2871.7	2364.8	1915.2	1555.1	1275.3	1050.5	848.7	678.9	525.3
15°	3997.9	3486.4	2954.3	2435.9	1968.0	1589.5	1300.5	1068.9	862.4	685.8	536.7
12.5°	4075.9	3564.4	3025.4	2497.8	2013.9	1619.4	1321.2	1082.6	873.9	692.7	543.6
10°	4140.1	3626.3	3085.0	2546.0	2050.6	1642.3	1337.2	1096.4	883.1	699.6	550.5
7.5°	4188.3	3672.2	3128.6	2587.3	2080.4	1658.3	1351.0	1105.6	892.2	704.2	562.0
5°	4225.0	3711.2	3163.0	2614.8	2103.3	1681.3	1367.0	1117.0	901.4	708.8	562.0
2.5°	4252.5	3743.3	3190.5	2637.8	2121.7	1676.7	1367.0	1114.7	901.4	708.8	559.7
0°	4247.9	3745.6	3188.2	2637.8	2121.7	1672.1	1367.0	1112.4	901.4	708.8	559.7



REPORT NUMBER: P628273  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.1	11.5	4.6	0.0
85°	34.4	22.9	11.5	0.0
82.5°	50.5	32.1	16.1	0.0
80°	66.5	43.6	20.6	0.0
77.5°	84.9	55.0	27.5	0.0
75°	100.9	64.2	32.1	0.0
72.5°	117.0	75.7	36.7	0.0
70°	130.7	84.9	41.3	0.0
67.5°	144.5	96.3	48.2	0.0
65°	156.0	105.5	52.8	0.0
62.5°	165.1	117.0	57.3	0.0
60°	176.6	126.2	61.9	0.0
57.5°	185.8	133.0	66.5	0.0
55°	195.0	137.6	71.1	0.0
52.5°	204.1	144.5	75.7	0.0
50°	213.3	151.4	80.3	0.0
47.5°	222.5	156.0	82.6	0.0
45°	236.3	162.9	87.2	0.0
42.5°	247.7	167.4	91.7	0.0
40°	259.2	172.0	94.0	0.0
37.5°	270.7	176.6	98.6	0.0
35°	282.1	181.2	100.9	0.0
32.5°	291.3	185.8	103.2	0.0
30°	300.5	190.4	105.5	0.0
27.5°	309.6	192.7	107.8	0.0
25°	316.5	197.3	110.1	0.0
22.5°	323.4	199.6	112.4	0.0
20°	328.0	201.8	114.7	0.0
17.5°	334.9	204.1	117.0	0.0
15°	337.2	206.4	121.6	0.0
12.5°	341.8	208.7	121.6	0.0
10°	344.1	211.0	121.6	0.0
7.5°	348.6	211.0	121.6	0.0
5°	346.3	211.0	121.6	0.0
2.5°	346.3	211.0	121.6	0.0
0°	344.1	211.0	121.6	0.0

(END OF REPORT)