

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: P628477

Luminaire Tested: **IFLD-S-SA3D-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15927.3 lumens	Max Intensity:	5191.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

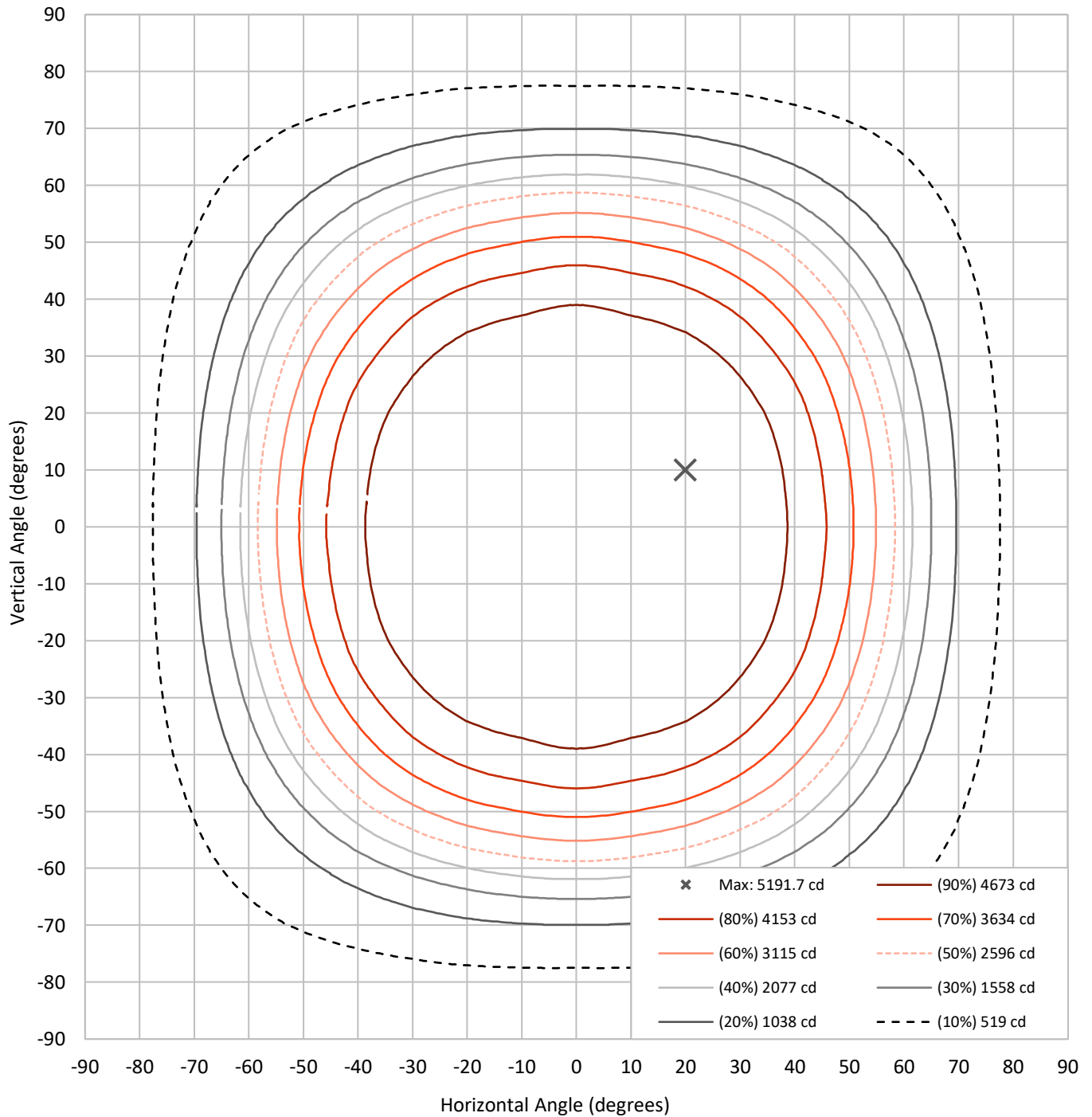
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9773.3 lumens	Field Lumens:	11716.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 184.1
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: P628477
CATALOG NUMBER: IFLD-S-SA3D-935-U-LAM

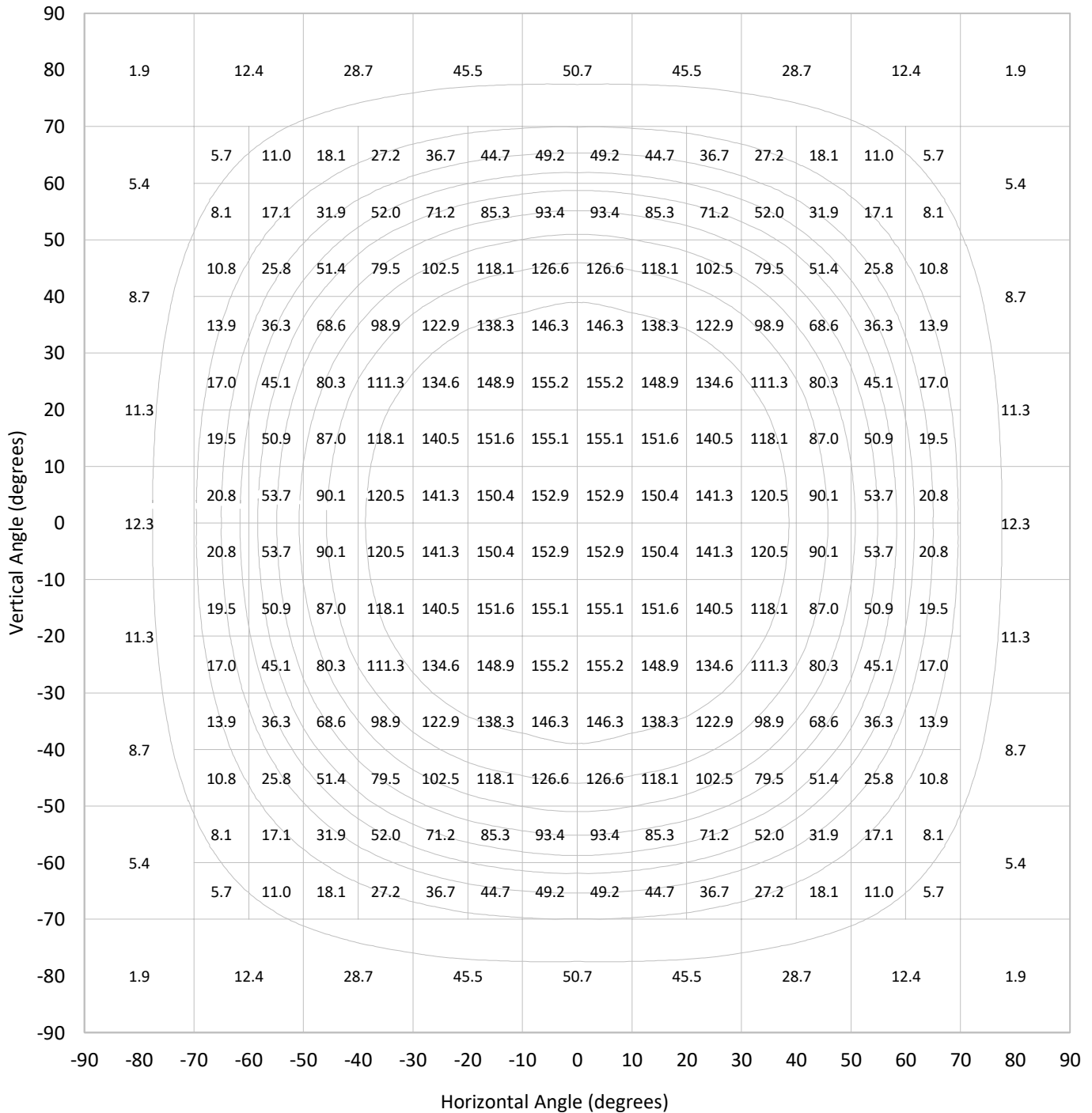
Iso-Candela Plot





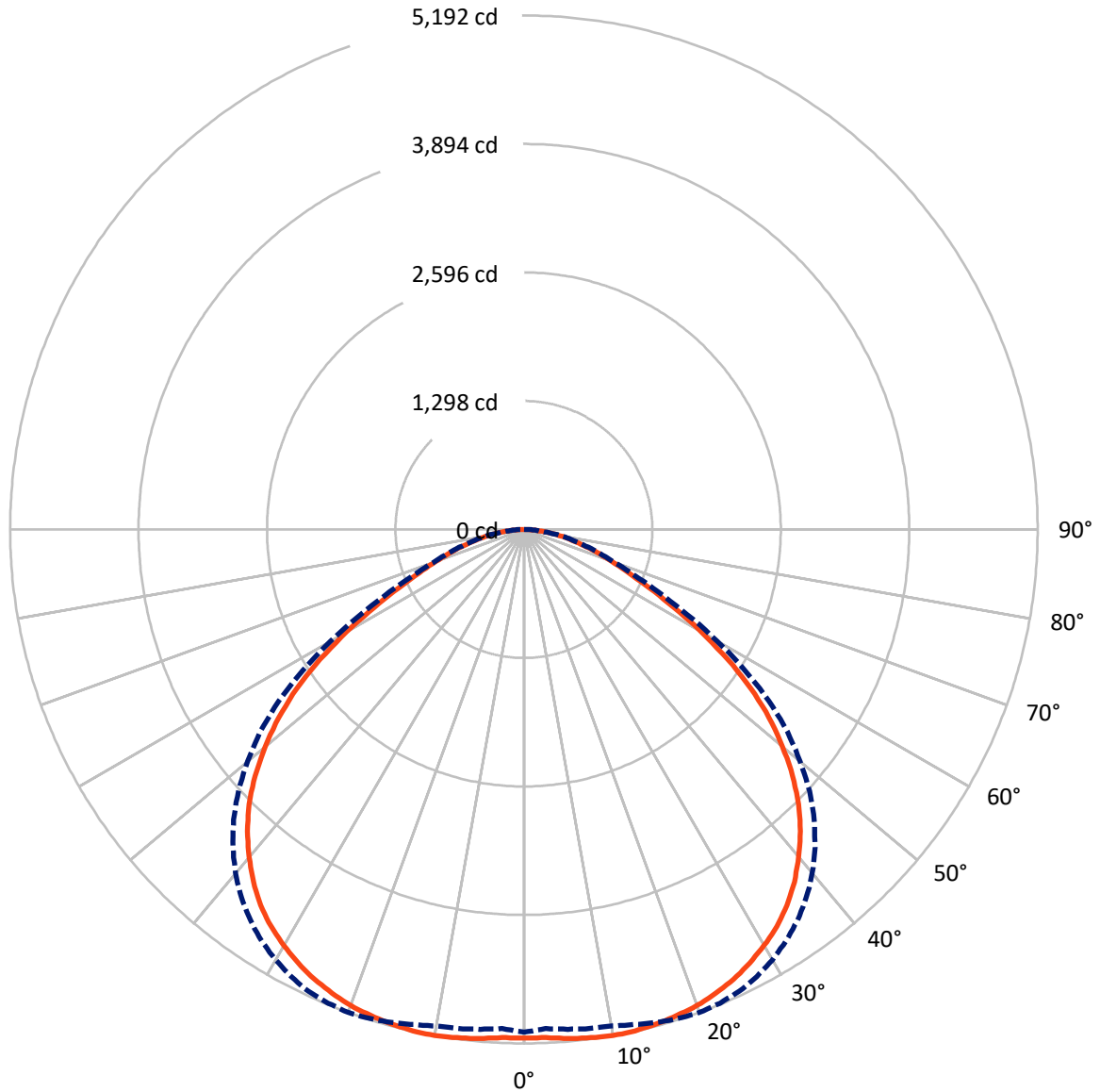
REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-U-LAM

Lumen Table



REPORT NUMBER: P628477
CATALOG NUMBER: IFLD-S-SA3D-935-U-LAM

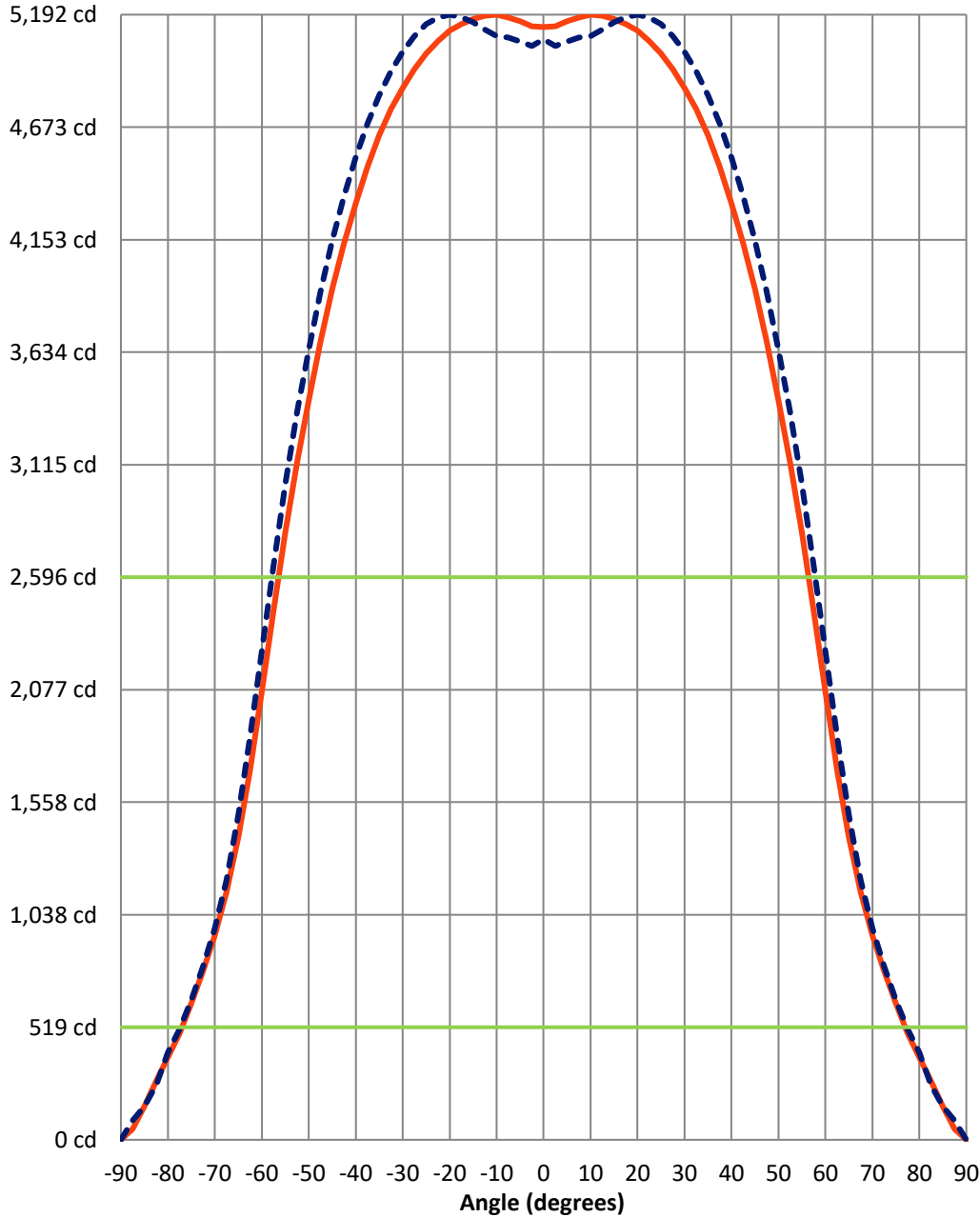
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 9773.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11716.5
 Efficiency: 73.6%

Spill:
 Lumens: 4210.8
 Efficiency: 26.4%

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



REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-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°	41.9	45.2	46.9	48.6	50.3	52.0	53.6	52.0	50.3	50.3	48.6
85°	112.3	115.6	117.3	129.0	140.8	147.5	155.9	154.2	154.2	152.5	150.8
82.5°	224.6	234.6	243.0	254.7	261.4	271.5	278.2	273.2	269.8	263.1	258.1
80°	398.8	402.2	403.9	405.5	397.2	395.5	392.1	387.1	380.4	372.0	363.7
77.5°	507.8	511.1	514.5	511.1	509.4	507.8	502.7	497.7	491.0	484.3	474.3
75°	672.0	672.0	672.0	667.0	663.6	658.6	650.2	641.8	630.1	616.7	601.6
72.5°	846.3	844.6	842.9	832.9	824.5	814.4	802.7	792.7	779.3	764.2	744.1
70°	1028.9	1032.3	1034.0	1020.6	1010.5	997.1	982.0	963.6	943.5	921.7	893.2
67.5°	1280.3	1277.0	1273.6	1255.2	1241.8	1223.3	1201.6	1174.7	1144.6	1111.1	1070.8
65°	1592.0	1597.0	1587.0	1568.6	1543.4	1513.3	1479.7	1441.2	1395.9	1345.7	1288.7
62.5°	1969.1	1977.5	1965.7	1942.3	1910.4	1870.2	1823.3	1768.0	1706.0	1635.6	1565.2
60°	2398.1	2396.4	2374.6	2342.8	2300.9	2250.6	2198.7	2138.3	2067.9	1985.8	1900.4
57.5°	2791.9	2788.5	2761.7	2729.9	2688.0	2634.4	2579.1	2515.4	2441.7	2354.5	2255.6
55°	3145.5	3142.1	3115.3	3081.8	3038.2	2984.6	2934.3	2874.0	2802.0	2709.8	2604.2
52.5°	3458.9	3460.5	3437.1	3400.2	3353.3	3301.3	3252.7	3192.4	3123.7	3031.5	2929.3
50°	3747.1	3745.4	3720.3	3686.8	3643.2	3592.9	3544.3	3484.0	3411.9	3323.1	3224.3
47.5°	4015.2	4011.9	3983.4	3946.5	3901.3	3857.7	3812.5	3758.8	3683.4	3594.6	3495.7
45°	4239.8	4233.1	4204.6	4169.4	4125.8	4087.3	4047.1	4006.9	3926.4	3844.3	3750.5
42.5°	4432.5	4430.8	4402.4	4367.2	4323.6	4290.1	4253.2	4202.9	4135.9	4060.5	3968.3
40°	4616.9	4603.4	4575.0	4541.4	4501.2	4472.7	4435.9	4385.6	4320.2	4246.5	4157.7
37.5°	4754.3	4755.9	4725.8	4688.9	4653.7	4626.9	4593.4	4546.5	4489.5	4417.4	4328.6
35°	4885.0	4876.6	4851.5	4819.6	4787.8	4757.6	4722.4	4682.2	4635.3	4568.3	4484.5
32.5°	4970.5	4982.2	4952.0	4918.5	4900.1	4876.6	4839.7	4797.8	4755.9	4688.9	4613.5
30°	5064.3	5054.2	5030.8	5002.3	4988.9	4973.8	4942.0	4901.7	4853.1	4792.8	4722.4
27.5°	5129.7	5124.6	5096.1	5069.3	5062.6	5049.2	5024.1	4988.9	4940.3	4881.6	4816.3
25°	5158.1	5161.5	5134.7	5119.6	5119.6	5111.2	5091.1	5060.9	5012.3	4958.7	4895.0
22.5°	5171.5	5168.2	5149.8	5146.4	5154.8	5148.1	5139.7	5112.9	5069.3	5025.8	4972.1
20°	5179.9	5156.5	5139.7	5153.1	5163.2	5161.5	5154.8	5138.0	5117.9	5081.1	5034.1
17.5°	5161.5	5146.4	5126.3	5146.4	5168.2	5169.9	5163.2	5153.1	5148.1	5124.6	5082.7
15°	5116.2	5104.5	5107.9	5128.0	5153.1	5161.5	5166.5	5178.3	5171.5	5153.1	5116.2
12.5°	5086.1	5071.0	5086.1	5106.2	5119.6	5124.6	5164.8	5186.6	5186.6	5169.9	5146.4
10°	5077.7	5047.5	5067.6	5086.1	5092.8	5123.0	5156.5	5179.9	5191.7	5178.3	5148.1
7.5°	5060.9	5040.8	5049.2	5057.6	5096.1	5117.9	5136.4	5161.5	5178.3	5176.6	5149.8
5°	5052.6	5027.4	5030.8	5066.0	5092.8	5107.9	5114.6	5136.4	5161.5	5166.5	5146.4
2.5°	5030.8	5019.1	5044.2	5047.5	5067.6	5079.4	5086.1	5106.2	5138.0	5149.8	5141.4
0°	5019.1	5002.3	4985.5	4998.9	5032.5	5057.6	5067.6	5097.8	5134.7	5146.4	5128.0



REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-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°	46.9	45.2	43.6	41.9	43.6	43.6	43.6	41.9	43.6	41.9	41.9
85°	145.8	139.1	134.1	127.4	120.7	115.6	108.9	102.2	100.5	98.9	95.5
82.5°	251.4	243.0	234.6	224.6	214.5	202.8	191.0	177.6	174.3	170.9	165.9
80°	353.6	341.9	330.1	318.4	308.3	296.6	283.2	268.1	258.1	249.7	239.6
77.5°	460.8	444.1	427.3	407.2	395.5	383.8	370.4	355.3	340.2	326.8	311.7
75°	583.2	564.7	548.0	527.9	506.1	484.3	462.5	442.4	420.6	400.5	380.4
72.5°	718.9	692.1	665.3	640.2	613.3	586.5	558.0	531.2	504.4	477.6	449.1
70°	861.4	827.9	794.3	760.8	725.6	690.4	656.9	623.4	589.9	554.7	522.9
67.5°	1028.9	990.4	946.8	899.9	848.0	802.7	759.1	718.9	678.7	638.5	598.3
65°	1238.4	1184.8	1126.1	1062.5	1002.1	941.8	878.1	817.8	770.9	723.9	678.7
62.5°	1496.5	1421.1	1339.0	1256.9	1183.1	1104.4	1030.6	951.9	878.1	811.1	755.8
60°	1804.8	1702.6	1602.1	1496.5	1394.3	1287.0	1193.2	1096.0	1003.8	921.7	841.3
57.5°	2145.0	2026.1	1905.4	1776.4	1637.3	1511.6	1384.2	1256.9	1147.9	1039.0	948.5
55°	2490.3	2364.6	2228.8	2083.0	1930.5	1769.7	1597.0	1454.6	1305.5	1178.1	1060.8
52.5°	2818.7	2688.0	2547.2	2413.2	2230.5	2046.2	1856.8	1669.1	1494.8	1332.3	1189.8
50°	3112.0	2984.6	2848.9	2693.0	2523.8	2327.7	2116.5	1905.4	1699.3	1508.2	1330.6
47.5°	3380.1	3256.1	3120.4	2964.5	2810.3	2592.5	2379.6	2146.7	1917.1	1697.6	1489.8
45°	3631.5	3505.8	3365.0	3215.9	3038.2	2843.8	2624.3	2389.7	2143.4	1897.0	1657.4
42.5°	3859.4	3733.7	3591.3	3437.1	3261.1	3068.4	2855.6	2619.3	2371.3	2103.1	1840.0
40°	4058.8	3936.5	3799.1	3638.2	3474.0	3271.2	3061.7	2837.1	2580.7	2310.9	2021.0
37.5°	4233.1	4119.1	3983.4	3824.2	3649.9	3468.9	3252.7	3028.2	2796.9	2503.7	2207.0
35°	4387.3	4281.7	4142.6	3991.8	3820.8	3629.8	3427.0	3207.5	2957.8	2683.0	2394.7
32.5°	4521.3	4414.1	4286.7	4135.9	3970.0	3790.7	3582.9	3361.7	3125.4	2845.5	2532.1
30°	4635.3	4531.4	4410.7	4268.3	4109.1	3931.4	3728.7	3505.8	3264.5	2986.3	2676.3
27.5°	4734.2	4635.3	4518.0	4385.6	4233.1	4062.2	3857.7	3633.2	3386.8	3118.7	2808.7
25°	4819.6	4724.1	4615.2	4489.5	4338.7	4171.1	3978.4	3743.8	3497.4	3227.6	2920.9
22.5°	4896.7	4804.5	4695.6	4573.3	4435.9	4268.3	4073.9	3841.0	3591.3	3324.8	3023.2
20°	4965.4	4880.0	4772.7	4647.0	4509.6	4340.3	4147.6	3926.4	3675.1	3413.6	3115.3
17.5°	5020.7	4945.3	4838.1	4705.7	4568.3	4404.0	4216.3	4013.6	3747.1	3489.0	3192.4
15°	5059.3	4985.5	4888.3	4754.3	4620.2	4457.7	4270.0	4060.5	3812.5	3549.4	3256.1
12.5°	5086.1	5007.3	4916.8	4792.8	4658.8	4497.9	4315.2	4109.1	3867.8	3603.0	3311.4
10°	5092.8	5020.7	4930.2	4819.6	4688.9	4533.1	4353.8	4149.3	3913.0	3644.9	3356.6
7.5°	5096.1	5027.4	4945.3	4839.7	4710.7	4559.9	4382.2	4181.1	3946.5	3680.1	3390.2
5°	5094.5	5029.1	4955.4	4853.1	4724.1	4575.0	4400.7	4202.9	3970.0	3703.5	3415.3
2.5°	5089.4	5030.8	4962.1	4863.2	4739.2	4591.7	4419.1	4228.1	3995.1	3723.6	3435.4
0°	5102.8	5052.6	4965.4	4859.8	4742.5	4591.7	4417.4	4231.4	3998.5	3722.0	3433.7



REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-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°	41.9	40.2	40.2	38.5	36.9	35.2	31.8	30.2	26.8	21.8	16.8
85°	90.5	85.5	80.4	77.1	73.7	70.4	65.4	60.3	53.6	43.6	33.5
82.5°	159.2	149.1	139.1	127.4	117.3	107.3	98.9	90.5	80.4	65.4	50.3
80°	227.9	212.8	197.7	181.0	165.9	149.1	134.1	120.7	107.3	87.1	67.0
77.5°	296.6	276.5	254.7	234.6	212.8	191.0	169.3	150.8	130.7	107.3	83.8
75°	360.3	336.8	316.7	288.2	261.4	232.9	204.4	179.3	154.2	125.7	100.5
72.5°	424.0	393.8	365.3	338.5	308.3	273.2	241.3	209.5	177.6	144.1	114.0
70°	487.7	450.8	415.6	383.8	350.2	315.1	276.5	239.6	201.1	160.9	125.7
67.5°	553.0	511.1	470.9	430.7	392.1	351.9	311.7	269.8	224.6	177.6	139.1
65°	625.1	573.1	524.5	479.3	434.0	390.5	345.2	300.0	249.7	196.1	150.8
62.5°	697.1	640.2	583.2	526.2	475.9	427.3	378.7	328.5	273.2	216.2	162.6
60°	774.2	708.9	643.5	579.8	517.8	464.2	410.6	356.9	298.3	234.6	174.3
57.5°	859.7	780.9	707.2	635.1	564.7	501.1	442.4	385.4	320.1	253.0	187.7
55°	956.9	859.7	772.5	692.1	615.0	537.9	474.3	415.6	345.2	271.5	202.8
52.5°	1059.1	946.8	841.3	750.8	668.6	581.5	504.4	439.1	370.4	289.9	216.2
50°	1178.1	1035.7	918.3	807.7	715.6	625.1	536.3	465.9	395.5	311.7	229.6
47.5°	1300.4	1142.9	995.4	874.8	765.8	667.0	573.1	489.3	419.0	331.8	243.0
45°	1442.9	1245.1	1082.6	940.1	814.4	710.5	610.0	514.5	439.1	351.9	256.4
42.5°	1580.3	1365.8	1173.1	1012.2	869.7	752.4	643.5	541.3	459.2	372.0	268.1
40°	1742.8	1486.4	1260.2	1080.9	925.0	792.7	677.0	569.8	477.6	390.5	279.9
37.5°	1898.7	1608.8	1365.8	1156.3	978.7	832.9	710.5	596.6	494.4	408.9	294.9
35°	2052.9	1744.5	1466.3	1226.7	1034.0	878.1	744.1	621.7	511.1	424.0	308.3
32.5°	2200.3	1871.9	1568.6	1305.5	1094.3	920.0	774.2	645.2	527.9	437.4	321.8
30°	2337.8	1992.5	1669.1	1385.9	1149.6	958.6	802.7	668.6	548.0	449.1	335.2
27.5°	2463.4	2109.8	1769.7	1461.3	1201.6	993.8	832.9	690.4	564.7	460.8	346.9
25°	2577.4	2215.4	1861.8	1530.0	1248.5	1032.3	861.4	712.2	579.8	470.9	356.9
22.5°	2684.6	2312.6	1945.6	1598.7	1305.5	1070.8	888.2	732.3	594.9	481.0	367.0
20°	2778.5	2401.4	2026.1	1667.4	1355.7	1106.0	911.6	750.8	608.3	487.7	377.1
17.5°	2853.9	2480.2	2098.1	1727.8	1399.3	1136.2	931.8	767.5	620.0	496.0	383.8
15°	2920.9	2547.2	2158.4	1779.7	1437.8	1161.3	950.2	780.9	630.1	501.1	392.1
12.5°	2977.9	2604.2	2210.4	1825.0	1471.4	1183.1	965.3	791.0	638.5	506.1	397.2
10°	3024.8	2649.5	2254.0	1860.1	1498.2	1199.9	977.0	801.0	645.2	511.1	402.2
7.5°	3060.0	2683.0	2285.8	1890.3	1520.0	1211.6	987.1	807.7	651.9	514.5	410.6
5°	3086.8	2711.5	2310.9	1910.4	1536.7	1228.4	998.8	816.1	658.6	517.8	410.6
2.5°	3107.0	2734.9	2331.1	1927.2	1550.1	1225.0	998.8	814.4	658.6	517.8	408.9
0°	3103.6	2736.6	2329.4	1927.2	1550.1	1221.7	998.8	812.8	658.6	517.8	408.9



REPORT NUMBER: P628477
 CATALOG NUMBER: IFLD-S-SA3D-935-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	8.4	3.4	0.0
85°	25.1	16.8	8.4	0.0
82.5°	36.9	23.5	11.7	0.0
80°	48.6	31.8	15.1	0.0
77.5°	62.0	40.2	20.1	0.0
75°	73.7	46.9	23.5	0.0
72.5°	85.5	55.3	26.8	0.0
70°	95.5	62.0	30.2	0.0
67.5°	105.6	70.4	35.2	0.0
65°	114.0	77.1	38.5	0.0
62.5°	120.7	85.5	41.9	0.0
60°	129.0	92.2	45.2	0.0
57.5°	135.7	97.2	48.6	0.0
55°	142.4	100.5	52.0	0.0
52.5°	149.1	105.6	55.3	0.0
50°	155.9	110.6	58.7	0.0
47.5°	162.6	114.0	60.3	0.0
45°	172.6	119.0	63.7	0.0
42.5°	181.0	122.3	67.0	0.0
40°	189.4	125.7	68.7	0.0
37.5°	197.7	129.0	72.1	0.0
35°	206.1	132.4	73.7	0.0
32.5°	212.8	135.7	75.4	0.0
30°	219.5	139.1	77.1	0.0
27.5°	226.2	140.8	78.8	0.0
25°	231.3	144.1	80.4	0.0
22.5°	236.3	145.8	82.1	0.0
20°	239.6	147.5	83.8	0.0
17.5°	244.7	149.1	85.5	0.0
15°	246.3	150.8	88.8	0.0
12.5°	249.7	152.5	88.8	0.0
10°	251.4	154.2	88.8	0.0
7.5°	254.7	154.2	88.8	0.0
5°	253.0	154.2	88.8	0.0
2.5°	253.0	154.2	88.8	0.0
0°	251.4	154.2	88.8	0.0

(END OF REPORT)