

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P507809

Luminaire Tested: **UFLD-L-CA4-180-730-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-180-730-U-66
Description: UTILITY FLOOD LARGE, 6x6 OPTIC
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	28053 lumens	Max Intensity:	14971.2 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	157.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.33' x L: 1.42' x H: 0')		
Beam Angle (50%):	102.9°H x 79.4°V	Field Angle (10%):	126.5°H x 112.9°V
Beam Lumens:	20843.4 lumens	Field Lumens:	27110 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

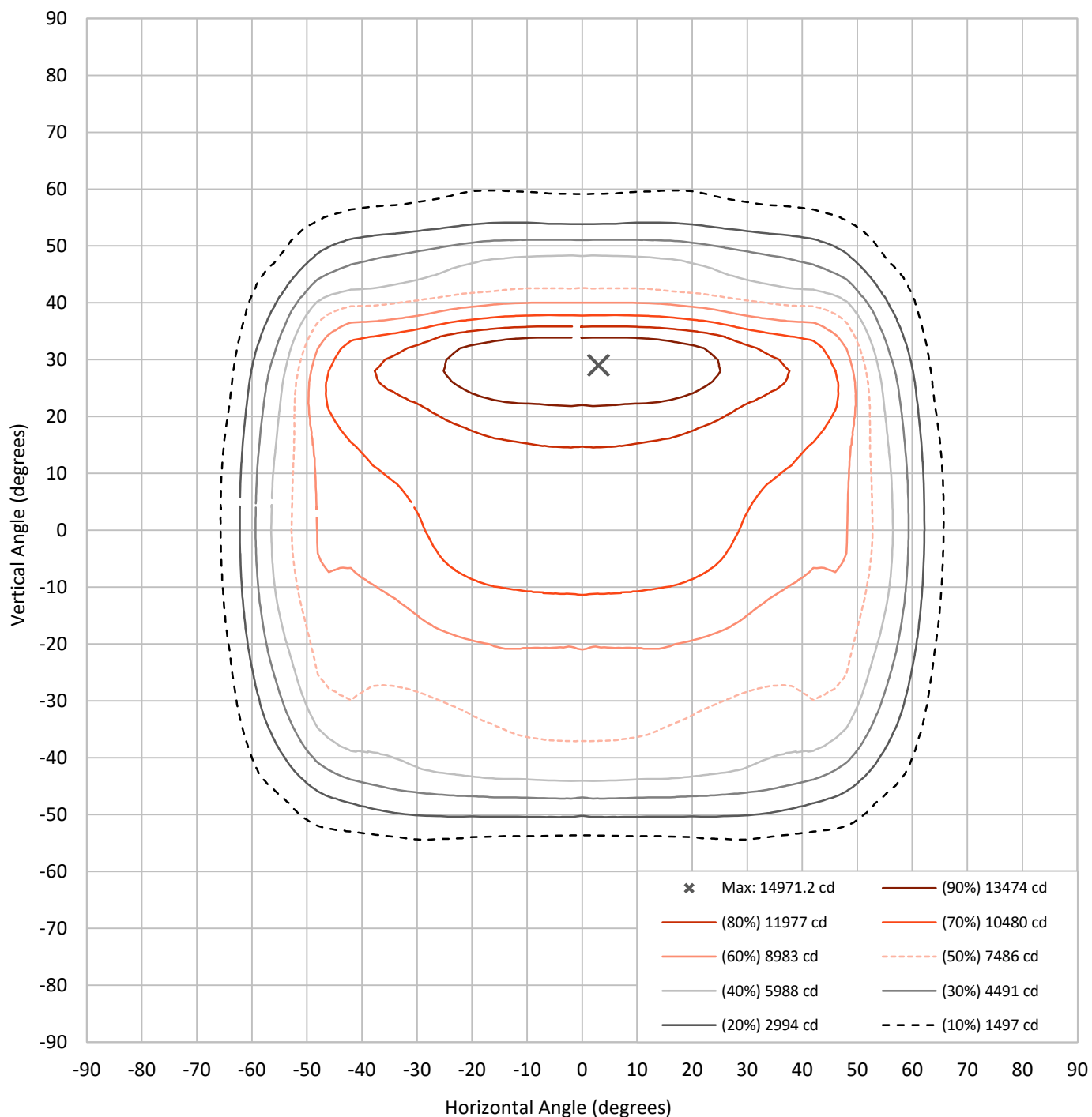
Input Watts (W): 178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

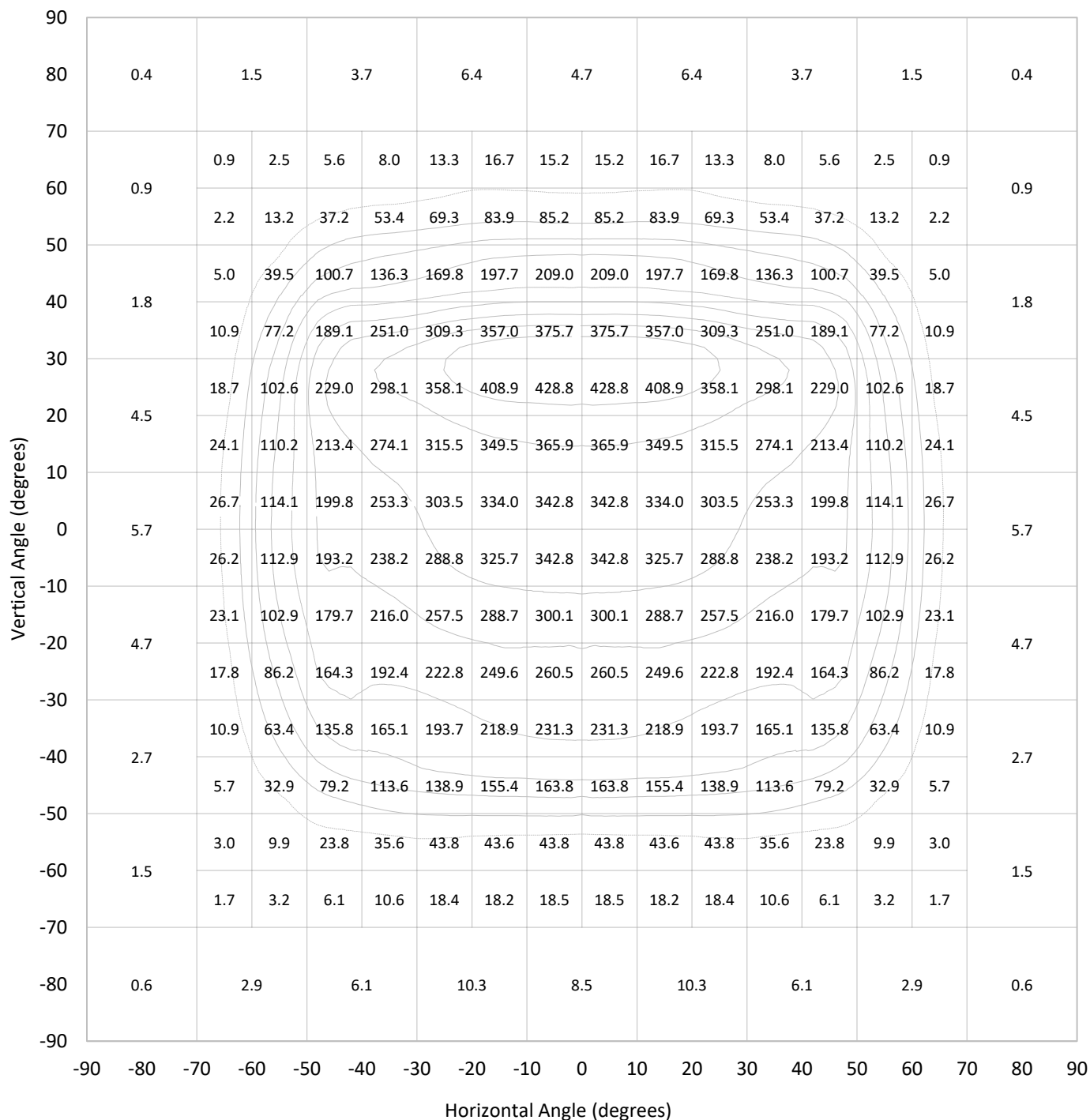
Iso-Candela Plot



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

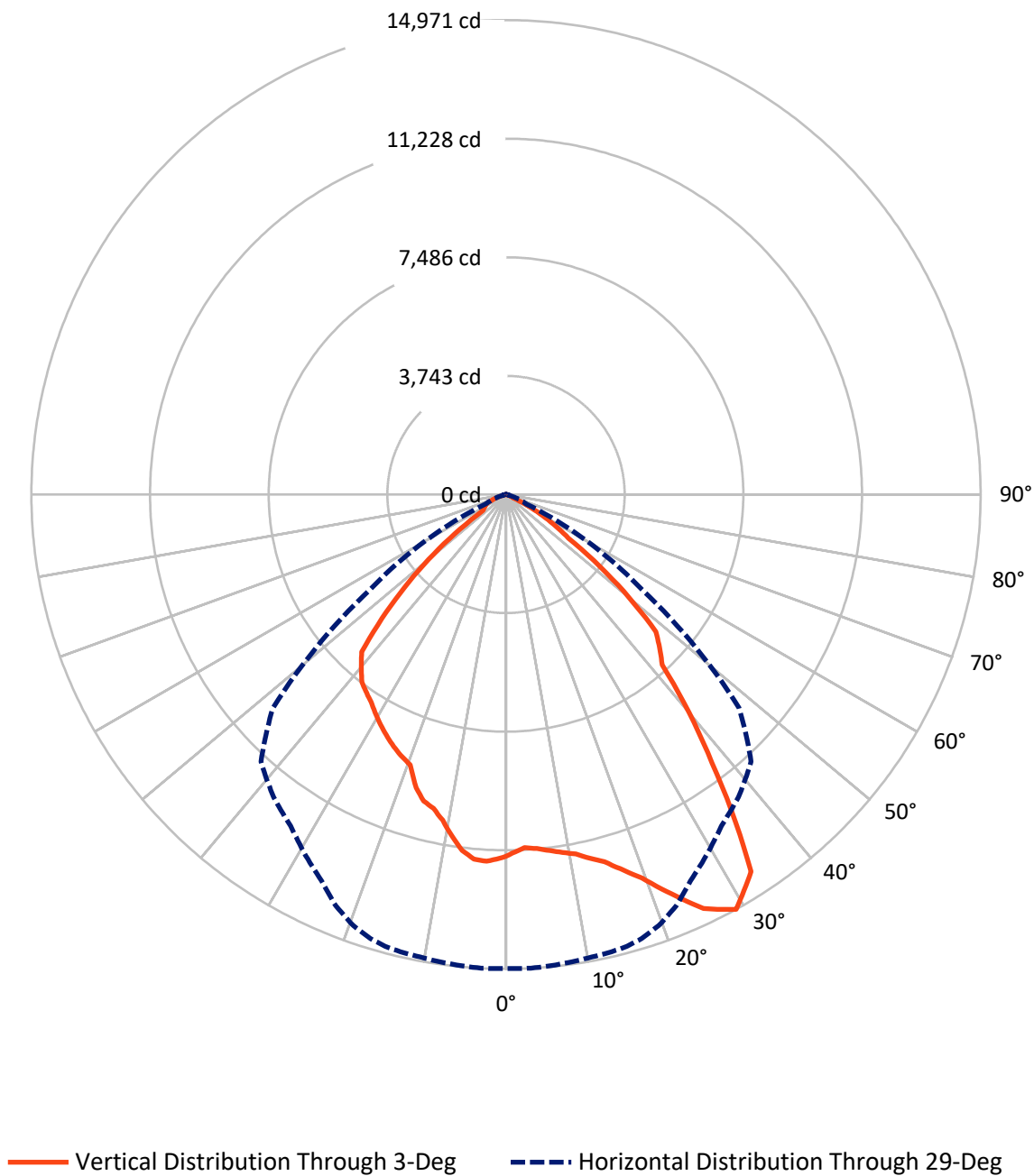
Lumen Table



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

Luminous Intensity Polar Plot

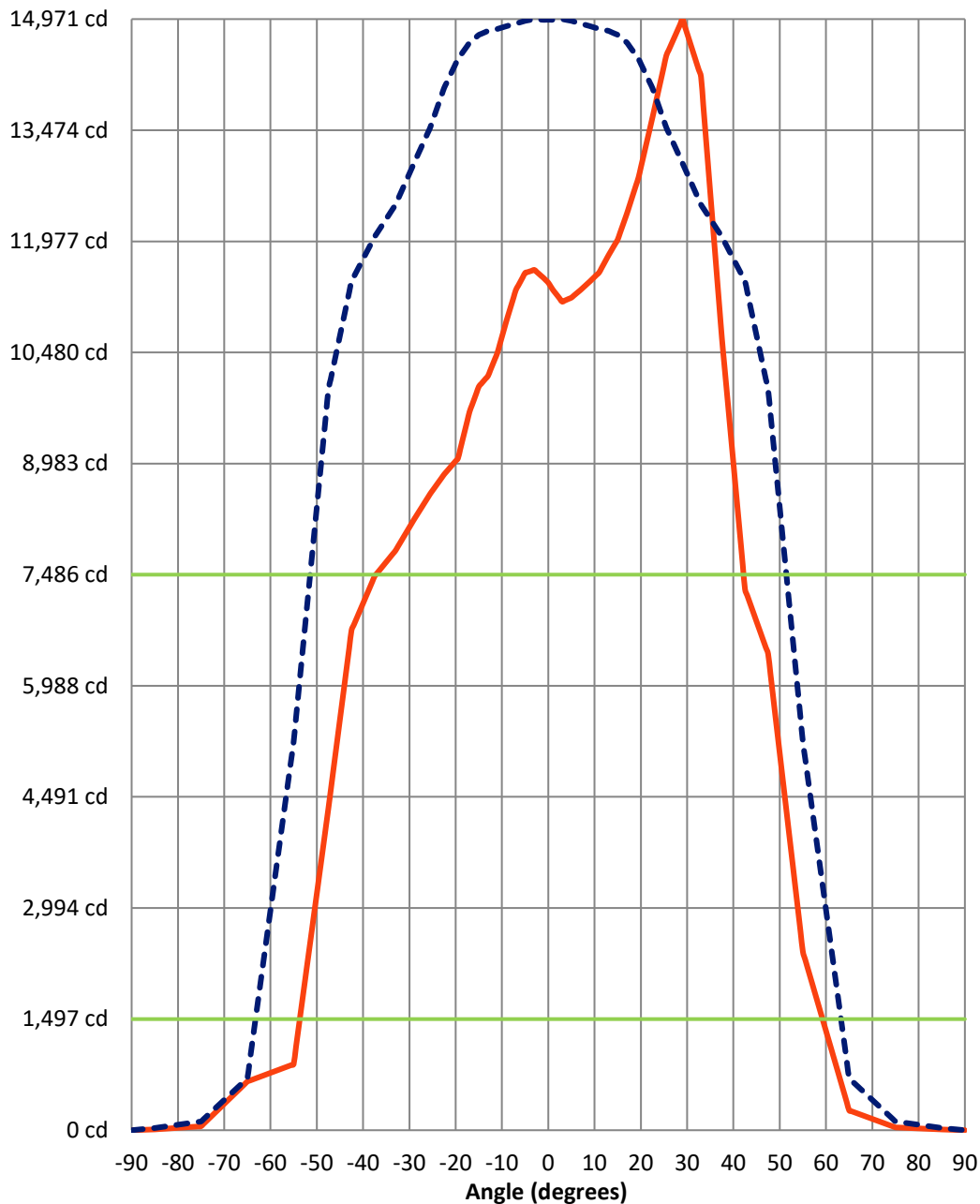




REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

Luminous Intensity Plot



Beam:

H Angle: 102.9°
V Angle: 79.4°
Lumens: 20843.4
Efficiency: 74.3%

Field:

H Angle: 126.5°
V Angle: 112.9°
Lumens: 27110
Efficiency: 96.6%

Spill:

Lumens: 943
Efficiency: 3.4%

— Vertical Distribution through 3-Deg
- - Horizontal Distribution through 29-Deg



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.6	4.7	10.1	23.7	30.8	36.2	39.7	41.5	42.1	42.1	40.3
75°	35.0	35.6	37.9	34.4	27.3	29.6	43.3	49.2	54.5	56.3	53.3
65°	270.3	268.5	266.7	264.9	257.2	246.0	241.8	265.5	326.0	388.8	419.6
55°	2358.8	2350.5	2406.2	2367.1	2444.1	2518.2	2544.9	2552.6	2561.5	2516.4	2455.4
47.5°	6394.8	6450.5	6415.5	6410.8	6370.5	6307.7	6269.7	6208.1	6154.2	6142.9	5958.6
42.5°	7337.7	7312.8	7289.7	7341.3	7311.6	7336.5	7333.6	7270.7	7226.9	7136.8	7046.7
37.5°	10634.7	10653.0	10676.2	10680.9	10695.1	10635.3	10593.8	10549.9	10465.8	10322.3	10116.7
33°	14198.9	14231.5	14192.4	14190.0	14221.4	14207.2	14146.2	14089.3	13964.2	13795.9	13605.1
29°	14962.9	14961.1	14971.2	14947.4	14911.3	14876.3	14838.4	14812.9	14758.4	14653.5	14434.8
25.5°	14454.4	14462.7	14479.8	14466.2	14420.6	14395.1	14362.5	14318.0	14223.2	14110.6	13924.5
22.5°	13602.7	13667.9	13642.4	13625.2	13586.1	13523.9	13536.3	13494.2	13420.8	13305.8	13110.2
19.5°	12812.1	12844.7	12838.2	12790.8	12766.5	12715.5	12691.8	12661.0	12598.7	12527.6	12394.3
17°	12306.0	12366.4	12353.4	12324.3	12286.4	12252.6	12210.0	12183.9	12132.9	12054.7	11892.9
15°	12005.5	12032.8	12000.7	11994.8	12000.2	11933.2	11905.9	11839.5	11823.5	11757.8	11614.9
13°	11751.8	11765.5	11786.8	11753.0	11747.1	11723.4	11666.5	11638.6	11582.9	11556.3	11453.1
11°	11552.7	11645.7	11558.0	11582.3	11555.1	11551.5	11519.5	11504.1	11462.6	11421.7	11358.3
9°	11449.0	11465.0	11437.1	11435.9	11423.5	11401.0	11393.3	11392.1	11383.8	11361.3	11322.2
7°	11322.2	11335.8	11322.7	11309.7	11300.2	11290.7	11317.4	11326.3	11364.8	11332.8	11295.5
5°	11235.6	11222.6	11217.8	11215.5	11239.2	11239.2	11291.3	11321.0	11357.1	11367.2	11318.6
3°	11161.5	11177.5	11163.3	11180.5	11227.3	11252.2	11322.2	11365.4	11389.1	11389.7	11370.2
1°	11276.5	11315.6	11323.3	11335.2	11352.4	11367.8	11419.9	11458.5	11433.0	11434.2	11354.8
0°	11384.4	11399.8	11419.9	11406.3	11428.8	11442.5	11479.8	11487.5	11477.4	11432.4	11325.7
-1°	11497.6	11494.0	11482.8	11480.4	11485.7	11469.7	11490.5	11465.0	11434.8	11394.5	11294.3
-3°	11578.8	11608.4	11592.4	11574.0	11516.0	11516.0	11492.8	11398.0	11357.1	11315.0	11174.0
-5°	11510.6	11548.6	11550.9	11492.2	11402.2	11378.5	11305.0	11248.1	11177.0	11108.2	10966.0
-7°	11358.9	11338.7	11321.0	11245.1	11185.8	11130.1	11032.3	10933.4	10915.0	10849.8	10724.8
-9°	10940.5	10954.7	10912.6	10892.5	10827.3	10755.0	10726.5	10656.0	10618.7	10560.6	10445.6
-11°	10525.0	10468.1	10472.3	10486.5	10440.3	10440.9	10410.1	10367.4	10362.0	10306.9	10209.7
-13°	10197.3	10193.1	10165.3	10189.0	10180.1	10181.3	10152.2	10146.9	10136.8	10098.9	9967.9
-15°	9981.0	10015.9	10019.5	9999.3	10004.1	9992.8	9982.2	9956.7	9949.0	9889.1	9752.2
-17°	9666.3	9678.1	9681.1	9679.3	9664.5	9676.3	9689.4	9679.3	9642.0	9596.3	9486.1
-19.5°	9084.3	9036.9	9053.5	9070.1	9074.8	9074.2	9093.2	9125.2	9095.5	9035.7	8944.4
-22.5°	8876.8	8866.8	8836.0	8846.0	8841.3	8826.5	8826.5	8828.8	8811.7	8748.8	8624.4
-25.5°	8565.7	8579.9	8575.2	8568.7	8567.5	8540.8	8542.0	8546.1	8512.4	8443.0	8331.0
-29°	8222.5	8232.0	8228.5	8212.5	8190.5	8142.5	8122.4	8077.3	8017.5	7979.0	7888.3
-33°	7832.0	7808.3	7809.5	7807.1	7778.1	7750.2	7716.4	7660.1	7598.5	7550.5	7454.5
-37.5°	7463.9	7477.6	7465.1	7469.3	7452.7	7424.8	7394.6	7351.9	7291.5	7222.1	7126.7
-42.5°	6761.1	6751.0	6735.6	6701.8	6688.2	6623.6	6583.8	6585.0	6571.4	6518.7	6428.0
-47.5°	4197.2	4308.6	4334.1	4312.2	4290.9	4282.0	4236.9	4233.4	4236.9	4208.5	4138.5
-55°	867.1	864.1	889.0	906.8	943.5	957.7	964.8	938.8	967.8	1027.7	1056.7
-65°	667.9	665.6	656.1	655.5	646.6	643.0	642.4	636.5	640.7	658.4	678.6
-75°	52.2	52.2	52.7	46.8	43.3	48.6	63.4	68.2	75.3	72.3	80.6
-85°	1.8	5.3	10.7	24.9	32.0	36.7	40.3	42.1	42.1	41.5	40.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.3	35.0	33.2	30.8	26.7	22.5	19.6	16.6	19.0	16.6	20.2
75°	48.0	48.6	61.0	76.5	68.7	46.2	32.0	26.7	35.0	20.2	21.9
65°	365.7	235.9	146.4	110.2	89.5	75.9	93.0	70.5	65.2	32.6	23.1
55°	2304.3	2150.8	2038.2	1894.7	1847.9	1715.7	1388.0	564.8	103.7	52.7	24.9
47.5°	5758.9	5501.1	5210.1	4884.1	4603.2	4214.4	3452.8	1510.7	124.5	68.2	26.7
42.5°	6889.7	6596.3	6420.3	6182.6	5919.5	5832.4	5252.1	2601.8	128.0	77.6	27.3
37.5°	9940.7	9612.3	9160.1	8811.1	8534.9	8495.2	7407.6	3672.7	203.9	89.5	28.4
33°	13238.8	12757.6	12134.1	11595.4	11126.0	10704.6	9076.6	4535.0	474.7	103.1	29.0
29°	14042.5	13510.3	13029.6	12470.1	12038.7	11440.1	9971.5	5235.5	698.2	117.9	29.6
25.5°	13544.0	13145.2	12677.6	12237.8	11914.8	11497.0	10357.9	5627.3	878.9	131.6	30.2
22.5°	12808.5	12458.3	12069.5	11789.8	11614.3	11291.3	10328.3	5844.2	1022.9	143.4	30.8
19.5°	12162.5	11918.4	11604.3	11431.2	11355.3	10967.2	10030.2	6061.7	1152.7	155.9	31.4
17°	11715.7	11505.3	11297.9	11216.1	11140.2	10638.8	9758.7	6214.0	1258.8	162.4	32.0
15°	11454.3	11302.0	11153.2	11094.6	10951.7	10350.2	9578.0	6315.4	1332.9	167.7	32.6
13°	11329.3	11229.1	11096.4	10984.9	10741.3	10089.4	9444.6	6434.5	1393.3	172.5	32.6
11°	11260.5	11167.5	10989.7	10824.9	10482.4	9858.9	9365.8	6537.0	1443.1	174.8	33.2
9°	11221.4	11109.4	10892.5	10602.1	10270.8	9658.6	9319.0	6611.1	1484.6	176.0	33.8
7°	11233.8	11050.1	10767.4	10433.8	10078.2	9535.3	9278.1	6665.0	1513.1	175.4	34.4
5°	11229.7	10990.3	10664.9	10322.9	9929.4	9420.3	9246.7	6707.7	1526.1	173.6	35.0
3°	11207.8	10960.6	10573.0	10161.1	9796.7	9328.5	9232.4	6735.0	1537.9	171.9	35.0
1°	11172.8	10888.9	10455.1	10069.9	9703.6	9241.9	9217.0	6746.2	1535.0	170.1	35.0
0°	11137.8	10854.5	10416.6	10022.5	9660.9	9195.1	9194.5	6774.7	1529.7	168.9	35.0
-1°	11080.9	10780.5	10349.0	9951.9	9605.2	9203.4	9195.7	6749.2	1523.7	167.1	35.6
-3°	10925.1	10644.2	10237.6	9846.4	9503.3	9142.9	9175.5	6724.3	1513.1	165.4	36.2
-5°	10748.5	10476.4	10111.9	9723.8	9385.3	9052.3	9129.3	6654.4	1488.2	164.2	36.2
-7°	10523.8	10319.4	9930.0	9553.1	9232.4	8923.1	9042.2	6586.8	1460.9	163.0	36.7
-9°	10293.9	10079.9	9733.2	9358.1	9063.5	8815.8	8923.1	6481.9	1424.8	161.8	36.7
-11°	10059.2	9838.7	9492.6	9144.1	8863.2	8647.5	8797.4	6364.6	1384.5	161.8	37.3
-13°	9778.3	9576.8	9262.7	8949.1	8679.5	8520.1	8662.3	6216.4	1335.3	162.4	37.3
-15°	9562.0	9346.8	9045.8	8752.4	8507.6	8389.1	8504.7	6027.3	1288.4	163.6	37.9
-17°	9304.2	9118.1	8843.1	8569.3	8348.2	8262.8	8347.0	5835.9	1228.0	164.2	37.9
-19.5°	8801.0	8631.5	8457.2	8277.1	8131.9	8104.6	8145.5	5584.6	1146.2	165.4	37.9
-22.5°	8462.6	8290.7	8101.1	7961.2	7861.6	7955.3	7903.7	5236.1	1030.0	167.1	37.9
-25.5°	8185.2	8027.0	7837.3	7702.8	7645.9	7851.0	7681.5	4859.2	900.2	167.1	37.9
-29°	7757.3	7619.2	7449.1	7321.7	7290.9	7610.3	7250.6	4423.6	747.3	164.8	37.9
-33°	7288.5	7133.2	6961.4	6825.7	6768.2	7198.4	6540.0	3901.5	556.5	158.2	37.9
-37.5°	6989.8	6816.2	6624.1	6410.8	6281.0	6339.7	5590.0	3152.4	323.6	147.0	37.3
-42.5°	6267.4	6160.7	5924.2	5693.7	5353.5	4946.3	4168.2	2261.0	247.1	133.3	37.3
-47.5°	4143.9	4065.6	3989.8	3844.6	3520.4	3097.2	2603.0	1252.3	235.3	116.8	36.7
-55°	1145.0	1161.0	1229.8	1145.6	1001.6	877.7	851.7	382.3	216.3	89.5	35.0
-65°	718.9	729.0	594.4	420.8	284.5	217.5	220.5	146.4	144.0	52.2	32.6
-75°	87.7	88.3	74.1	70.5	71.1	81.2	84.8	70.5	56.9	29.6	30.2
-85°	39.7	39.1	37.9	36.7	36.2	34.4	32.0	29.0	26.7	27.3	27.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507809

CATALOG NUMBER: UFLD-L-CA4-180-730-U-66

CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)