

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: P507821

Luminaire Tested: **UFLD-L-CA4-270-730-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507821
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-CA4-270-730-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:	39575 lumens	Max Intensity:	21120.1 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	149.1 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:	29404.2 lumens	Field Lumens:	38244.7 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

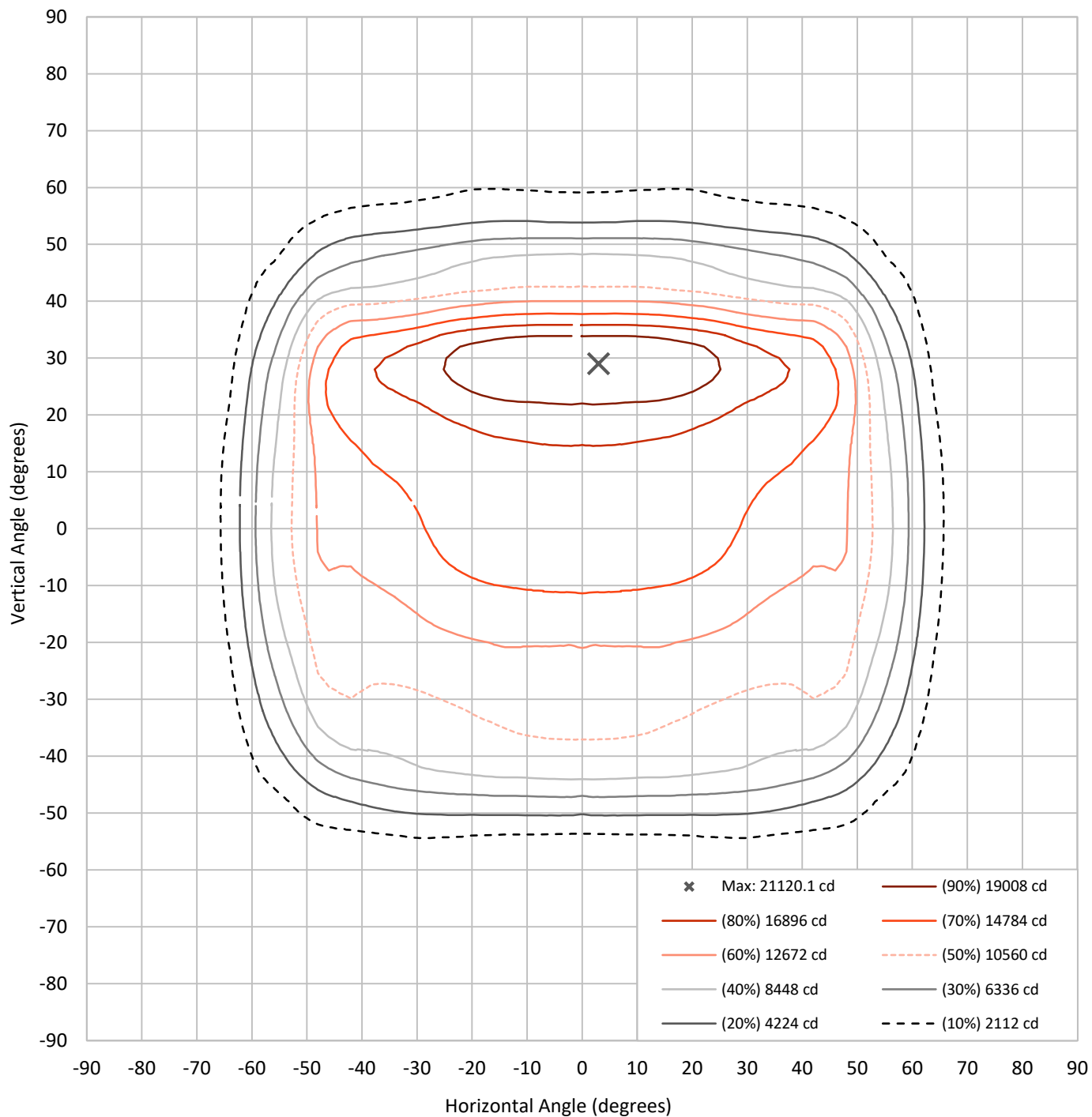
Input Watts (W): 265.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-U-66

Iso-Candela Plot

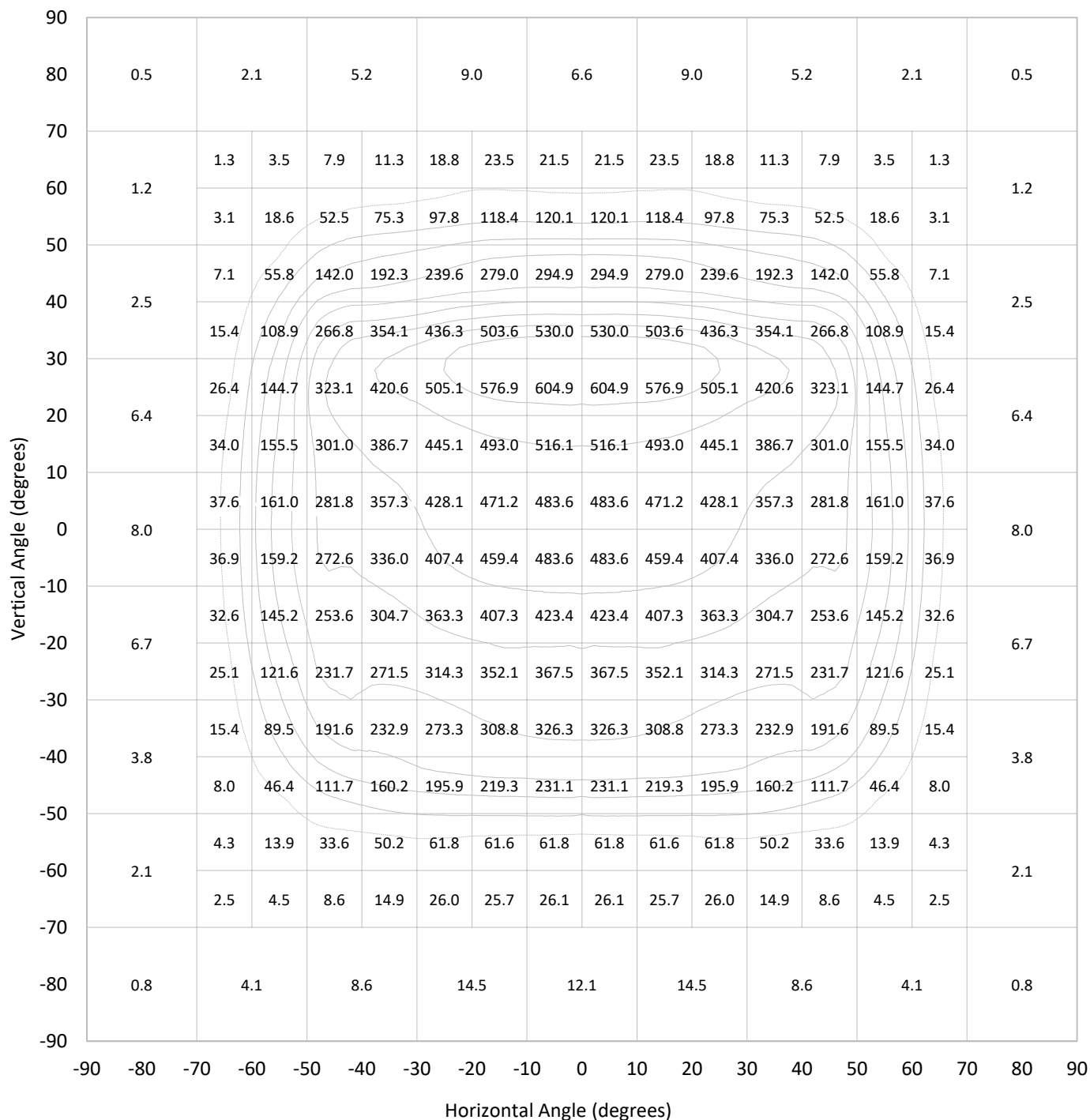




REPORT NUMBER: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-U-66

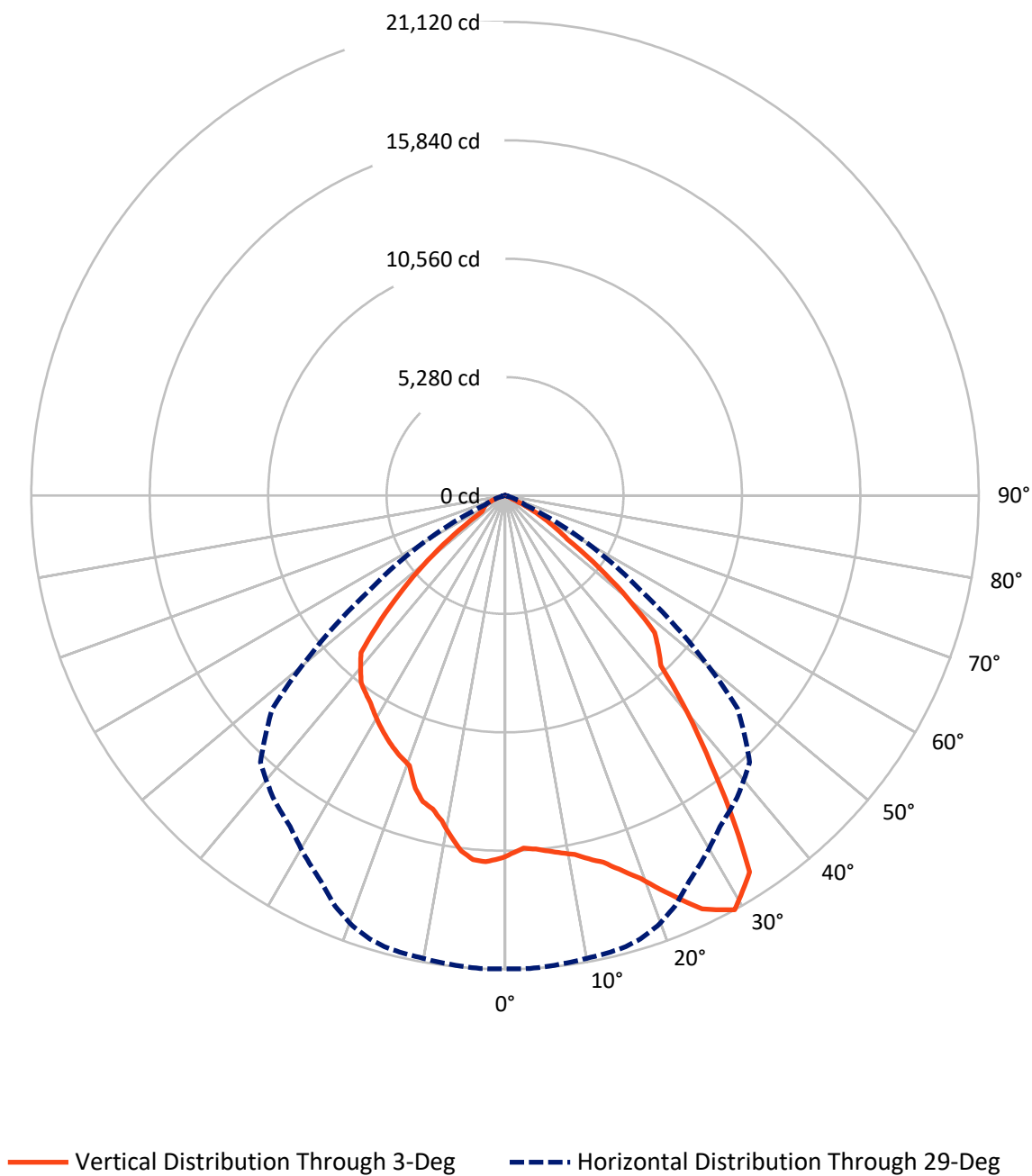
Lumen Table



REPORT NUMBER: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-U-66

Luminous Intensity Polar Plot

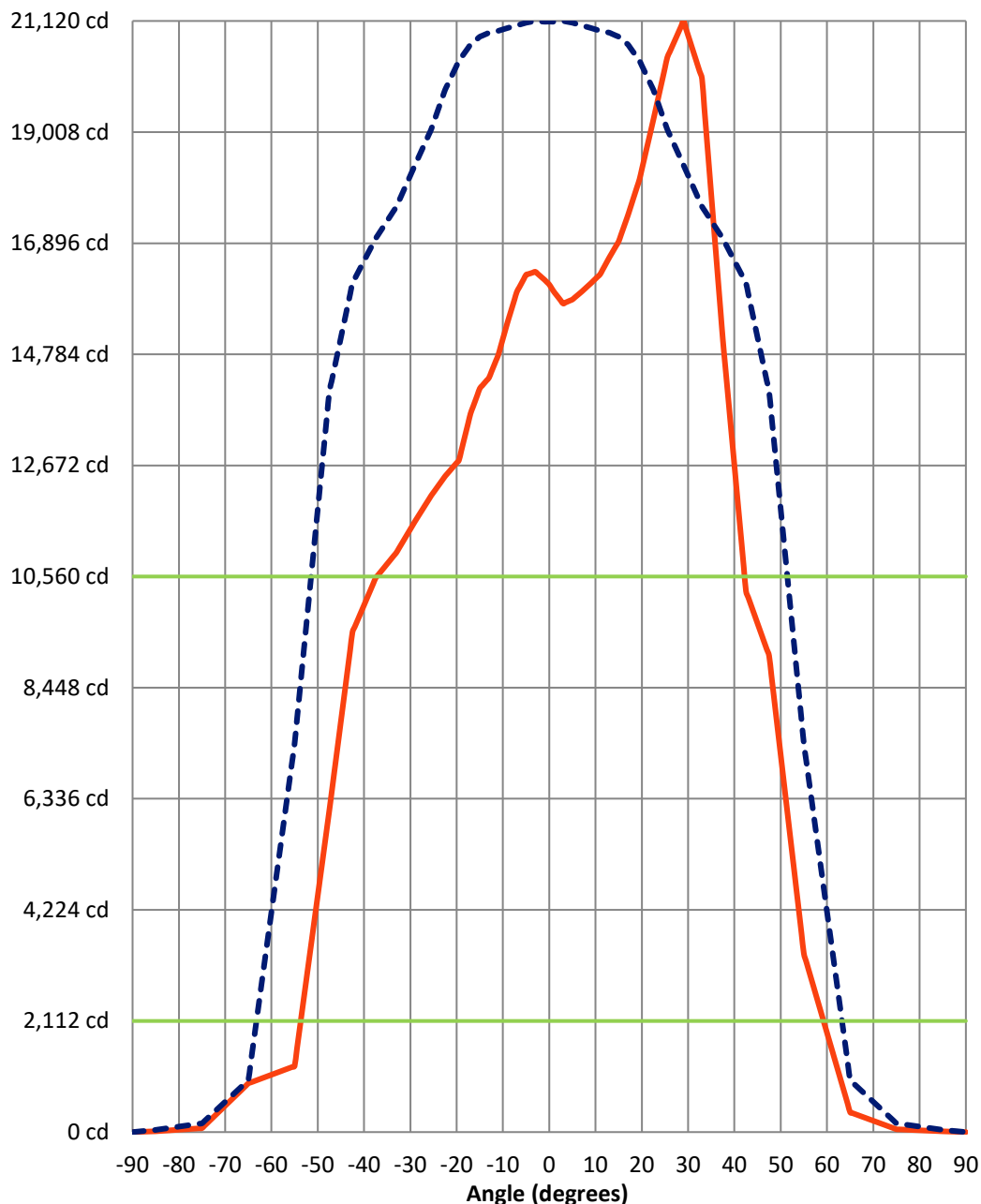




REPORT NUMBER: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-U-66

Luminous Intensity Plot



Beam:
H Angle: 102.9°
V Angle: 79.4°
Lumens: 29404.2
Efficiency: 74.3%

Field:
H Angle: 126.5°
V Angle: 112.9°
Lumens: 38244.7
Efficiency: 96.6%

Spill:
Lumens: 1330.3
Efficiency: 3.4%

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



REPORT NUMBER: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-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°	0.8	6.7	14.2	33.4	43.5	51.0	56.0	58.5	59.4	59.4	56.9
75°	49.3	50.2	53.5	48.5	38.5	41.8	61.0	69.4	76.9	79.4	75.2
65°	381.3	378.7	376.2	373.7	362.9	347.0	341.1	374.6	459.8	548.5	591.9
55°	3327.6	3315.9	3394.5	3339.3	3448.0	3552.5	3590.1	3601.0	3613.5	3550.0	3463.9
47.5°	9021.3	9099.9	9050.5	9043.8	8987.0	8898.4	8844.9	8757.9	8681.8	8665.9	8405.9
42.5°	10351.5	10316.4	10283.7	10356.5	10314.7	10349.8	10345.6	10257.0	10195.1	10068.0	9941.0
37.5°	15002.6	15028.5	15061.1	15067.8	15087.8	15003.4	14944.9	14883.0	14764.3	14562.0	14271.8
33°	20030.7	20076.7	20021.5	20018.2	20062.5	20042.4	19956.3	19876.1	19699.7	19462.2	19193.0
29°	21108.4	21105.9	21120.1	21086.7	21035.7	20986.4	20932.9	20896.9	20820.0	20672.0	20363.5
25.5°	20391.1	20402.8	20427.0	20407.8	20343.4	20307.5	20261.5	20198.8	20065.0	19906.2	19643.6
22.5°	19189.6	19281.6	19245.7	19221.4	19166.2	19078.4	19096.0	19036.6	18933.0	18770.8	18494.9
19.5°	18074.3	18120.3	18111.1	18044.2	18009.9	17938.0	17904.6	17861.1	17773.3	17673.0	17484.9
17°	17360.3	17445.6	17427.2	17386.2	17332.7	17285.1	17224.9	17188.1	17116.2	17005.8	16777.6
15°	16936.4	16974.9	16929.7	16921.4	16928.9	16834.4	16796.0	16702.3	16679.7	16586.9	16385.4
13°	16578.6	16597.8	16627.9	16580.2	16571.9	16538.4	16458.2	16418.9	16340.3	16302.7	16157.2
11°	16297.7	16428.9	16305.2	16339.5	16301.0	16296.0	16250.8	16229.1	16170.6	16112.9	16023.4
9°	16151.3	16173.9	16134.6	16132.9	16115.4	16083.6	16072.7	16071.1	16059.4	16027.6	15972.4
7°	15972.4	15991.6	15973.3	15954.9	15941.5	15928.1	15965.7	15978.3	16032.6	15987.5	15934.8
5°	15850.4	15832.0	15825.3	15821.9	15855.4	15855.4	15928.9	15970.7	16021.7	16036.0	15967.4
3°	15745.8	15768.4	15748.4	15772.6	15838.6	15873.8	15972.4	16033.5	16066.9	16067.7	16040.1
1°	15908.0	15963.2	15974.1	15990.8	16015.1	16036.8	16110.4	16164.7	16128.8	16130.4	16018.4
0°	16060.2	16081.9	16110.4	16091.1	16122.9	16142.1	16194.8	16205.7	16191.5	16127.9	15977.4
-1°	16219.9	16214.9	16199.0	16195.7	16203.2	16180.6	16209.9	16173.9	16131.3	16074.4	15933.1
-3°	16334.4	16376.2	16353.7	16327.8	16245.8	16245.8	16213.2	16079.4	16021.7	15962.4	15763.4
-5°	16238.3	16291.8	16295.1	16212.4	16085.3	16051.8	15948.2	15867.9	15767.6	15670.6	15469.9
-7°	16024.3	15995.8	15970.7	15863.7	15780.1	15701.5	15563.6	15424.0	15398.0	15306.1	15129.7
-9°	15434.0	15454.1	15394.7	15366.3	15274.3	15172.3	15132.2	15032.7	14980.0	14898.1	14735.9
-11°	14847.9	14767.6	14773.5	14793.5	14728.3	14729.2	14685.7	14625.5	14618.0	14540.2	14403.1
-13°	14385.5	14379.7	14340.4	14373.8	14361.3	14363.0	14322.0	14314.5	14300.3	14246.8	14062.0
-15°	14080.4	14129.7	14134.7	14106.3	14113.0	14097.1	14082.0	14046.1	14035.2	13950.8	13757.7
-17°	13636.4	13653.1	13657.3	13654.8	13633.9	13650.6	13669.0	13654.8	13602.1	13537.8	13382.3
-19.5°	12815.4	12748.5	12771.9	12795.3	12802.0	12801.2	12827.9	12873.1	12831.3	12746.8	12618.1
-22.5°	12522.8	12508.6	12465.1	12479.3	12472.6	12451.7	12451.7	12455.0	12430.8	12342.2	12166.6
-25.5°	12083.8	12103.9	12097.2	12088.0	12086.3	12048.7	12050.4	12056.2	12008.6	11910.8	11752.7
-29°	11599.7	11613.1	11608.1	11585.5	11554.6	11486.9	11458.4	11394.9	11310.5	11256.1	11128.2
-33°	11048.8	11015.3	11017.0	11013.6	10972.7	10933.4	10885.7	10806.3	10719.3	10651.6	10516.2
-37.5°	10529.6	10548.8	10531.2	10537.1	10513.7	10474.4	10431.7	10371.5	10286.3	10188.4	10053.8
-42.5°	9538.0	9523.8	9502.0	9454.4	9435.1	9344.0	9288.0	9289.7	9270.4	9196.0	9068.1
-47.5°	5921.1	6078.3	6114.2	6083.3	6053.2	6040.7	5977.1	5972.1	5977.1	5937.0	5838.3
-55°	1223.2	1219.0	1254.1	1279.2	1331.0	1351.1	1361.1	1324.3	1365.3	1449.8	1490.7
-65°	942.3	938.9	925.5	924.7	912.2	907.1	906.3	897.9	903.8	928.9	957.3
-75°	73.6	73.6	74.4	66.1	61.0	68.6	89.5	96.1	106.2	102.0	113.7
-85°	2.5	7.5	15.0	35.1	45.1	51.8	56.9	59.4	59.4	58.5	57.7
-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: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-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°	52.7	49.3	46.8	43.5	37.6	31.8	27.6	23.4	26.8	23.4	28.4
75°	67.7	68.6	86.1	107.9	97.0	65.2	45.1	37.6	49.3	28.4	30.9
65°	515.9	332.8	206.5	155.5	126.2	107.0	131.3	99.5	92.0	46.0	32.6
55°	3250.7	3034.1	2875.3	2672.9	2606.9	2420.4	1958.1	796.8	146.3	74.4	35.1
47.5°	8124.2	7760.5	7350.0	6890.1	6493.8	5945.3	4871.0	2131.2	175.6	96.1	37.6
42.5°	9719.4	9305.5	9057.2	8722.0	8350.7	8227.8	7409.3	3670.4	180.6	109.5	38.5
37.5°	14023.5	13560.3	12922.4	12430.0	12040.3	11984.3	10450.1	5181.2	287.6	126.2	40.1
33°	18676.3	17997.4	17117.8	16357.9	15695.7	15101.2	12804.5	6397.7	669.7	145.5	41.0
29°	19810.0	19059.2	18381.2	17591.9	16983.2	16138.8	14067.0	7385.9	984.9	166.4	41.8
25.5°	19106.9	18544.2	17884.5	17264.2	16808.5	16219.1	14612.1	7938.6	1239.9	185.6	42.6
22.5°	18069.3	17575.2	17026.7	16632.1	16384.6	15928.9	14570.3	8244.6	1443.1	202.3	43.5
19.5°	17158.0	16813.5	16370.4	16126.3	16019.2	15471.6	14149.8	8551.4	1626.2	219.9	44.3
17°	16527.6	16230.8	15938.1	15822.8	15715.7	15008.4	13766.8	8766.3	1775.8	229.1	45.1
15°	16158.9	15944.0	15734.1	15651.4	15449.9	14601.3	13511.8	8909.2	1880.3	236.6	46.0
13°	15982.5	15841.2	15653.9	15496.7	15153.1	14233.4	13323.7	9077.3	1965.6	243.3	46.0
11°	15885.5	15754.2	15503.4	15271.0	14787.7	13908.1	13212.5	9221.9	2035.8	246.6	46.8
9°	15830.3	15672.3	15366.3	14956.6	14489.2	13625.6	13146.5	9326.4	2094.4	248.3	47.7
7°	15847.8	15588.7	15189.9	14719.1	14217.5	13451.6	13088.8	9402.5	2134.5	247.5	48.5
5°	15842.0	15504.2	15045.2	14562.8	14007.6	13289.4	13044.5	9462.7	2152.9	245.0	49.3
3°	15811.1	15462.4	14915.6	14334.5	13820.4	13159.9	13024.4	9501.2	2169.6	242.5	49.3
1°	15761.7	15361.2	14749.2	14205.8	13689.1	13037.8	13002.7	9517.1	2165.4	240.0	49.3
0°	15712.4	15312.8	14694.9	14138.9	13628.9	12971.7	12970.9	9557.2	2157.9	238.3	49.3
-1°	15632.1	15208.2	14599.6	14039.4	13550.3	12983.4	12972.6	9521.2	2149.6	235.8	50.2
-3°	15412.2	15015.9	14442.4	13890.6	13406.5	12898.2	12944.1	9486.1	2134.5	233.3	51.0
-5°	15163.1	14779.3	14265.1	13717.5	13240.1	12770.2	12878.9	9387.5	2099.4	231.6	51.0
-7°	14846.2	14557.8	14008.5	13476.7	13024.4	12588.0	12756.0	9292.2	2060.9	229.9	51.8
-9°	14521.8	14220.0	13730.9	13201.7	12786.1	12436.6	12588.0	9144.2	2009.9	228.2	51.8
-11°	14190.7	13879.7	13391.4	12899.8	12503.5	12199.2	12410.7	8978.6	1953.1	228.2	52.7
-13°	13794.4	13510.2	13067.1	12624.8	12244.4	12019.4	12220.1	8769.6	1883.7	229.1	52.7
-15°	13489.3	13185.8	12761.0	12347.2	12001.9	11834.7	11997.7	8502.9	1817.6	230.8	53.5
-17°	13125.6	12863.0	12475.1	12088.8	11777.0	11656.6	11775.3	8232.9	1732.4	231.6	53.5
-19.5°	12415.7	12176.6	11930.8	11676.7	11471.8	11433.4	11491.0	7878.4	1617.0	233.3	53.5
-22.5°	11938.3	11695.9	11428.3	11231.0	11090.6	11222.7	11149.9	7386.7	1453.1	235.8	53.5
-25.5°	11547.1	11323.8	11056.3	10866.5	10786.2	11075.5	10836.4	6855.0	1270.0	235.8	53.5
-29°	10943.4	10748.6	10508.7	10328.9	10285.4	10736.1	10228.6	6240.5	1054.3	232.4	53.5
-33°	10282.1	10063.0	9820.6	9629.1	9548.0	10155.0	9226.1	5503.9	785.1	223.2	53.5
-37.5°	9860.7	9615.7	9344.8	9043.8	8860.7	8943.5	7885.9	4447.1	456.5	207.3	52.7
-42.5°	8841.5	8691.0	8357.4	8032.2	7552.3	6977.9	5880.1	3189.6	348.6	188.1	52.7
-47.5°	5845.9	5735.5	5628.5	5423.6	4966.3	4369.3	3672.1	1766.6	331.9	164.7	51.8
-55°	1615.3	1637.9	1734.9	1616.1	1413.0	1238.2	1201.4	539.3	305.2	126.2	49.3
-65°	1014.2	1028.4	838.6	593.6	401.3	306.8	311.0	206.5	203.2	73.6	46.0
-75°	123.7	124.6	104.5	99.5	100.3	114.5	119.6	99.5	80.3	41.8	42.6
-85°	56.0	55.2	53.5	51.8	51.0	48.5	45.1	41.0	37.6	38.5	38.5
-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: P507821

CATALOG NUMBER: UFLD-L-CA4-270-730-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)