

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: P507803

Luminaire Tested: **UFLD-L-CA4-280-730-U-33**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-280-730-U-33
Description: UTILITY FLOOD LARGE, 3X3 OPTIC
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	34129 lumens	Max Intensity:	168326.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.25' x L: 1.33' x H: 0')		
Beam Angle (50%):	22.2°H x 22.1°V	Field Angle (10%):	47.3°H x 46.7°V
Beam Lumens:	14735.1 lumens	Field Lumens:	29659.5 lumens
Beam Efficiency:	43.2%	Field Efficiency:	86.9%

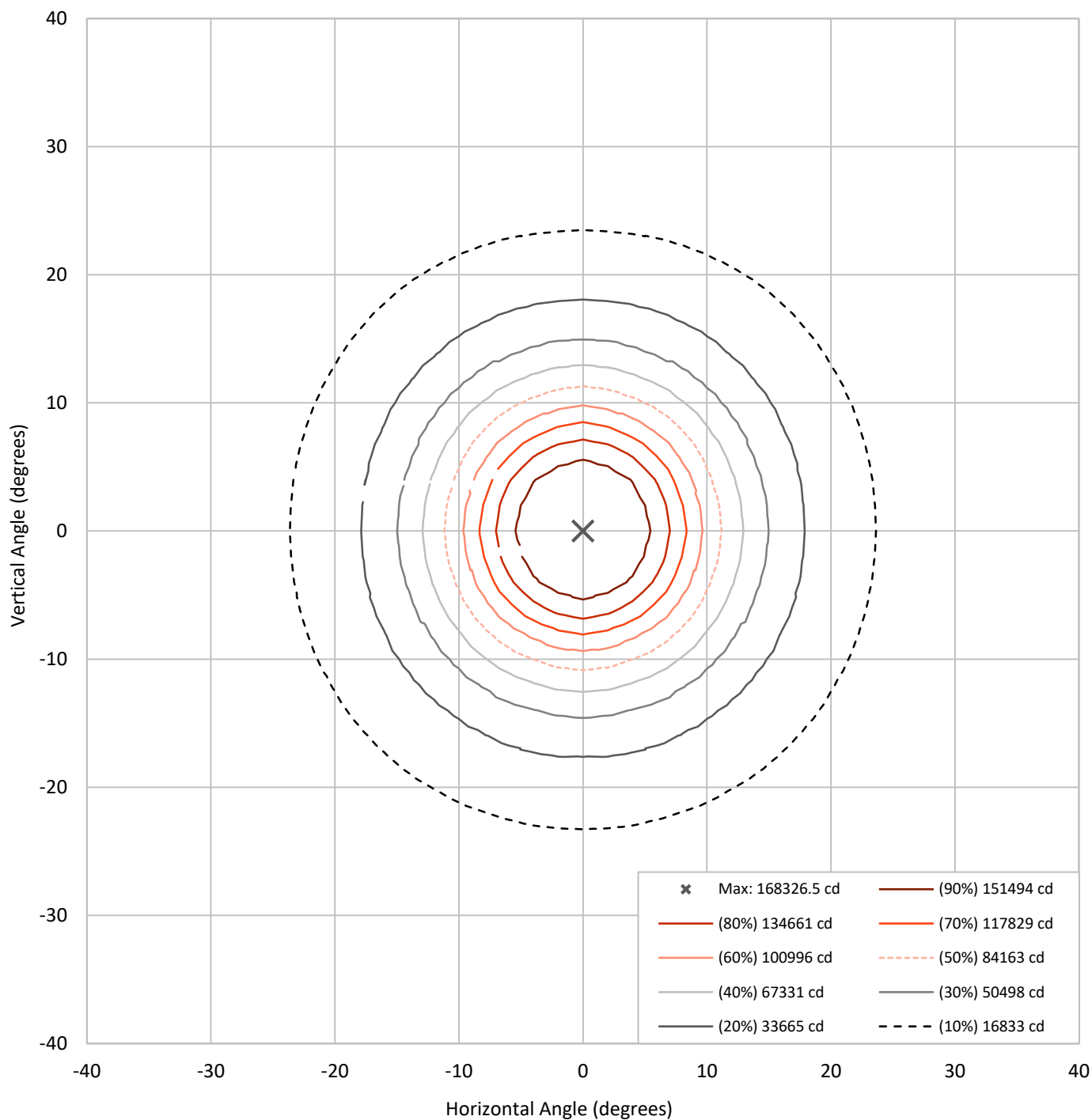
Input Watts (W): 280.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

Iso-Candela Plot



REPORT NUMBER: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

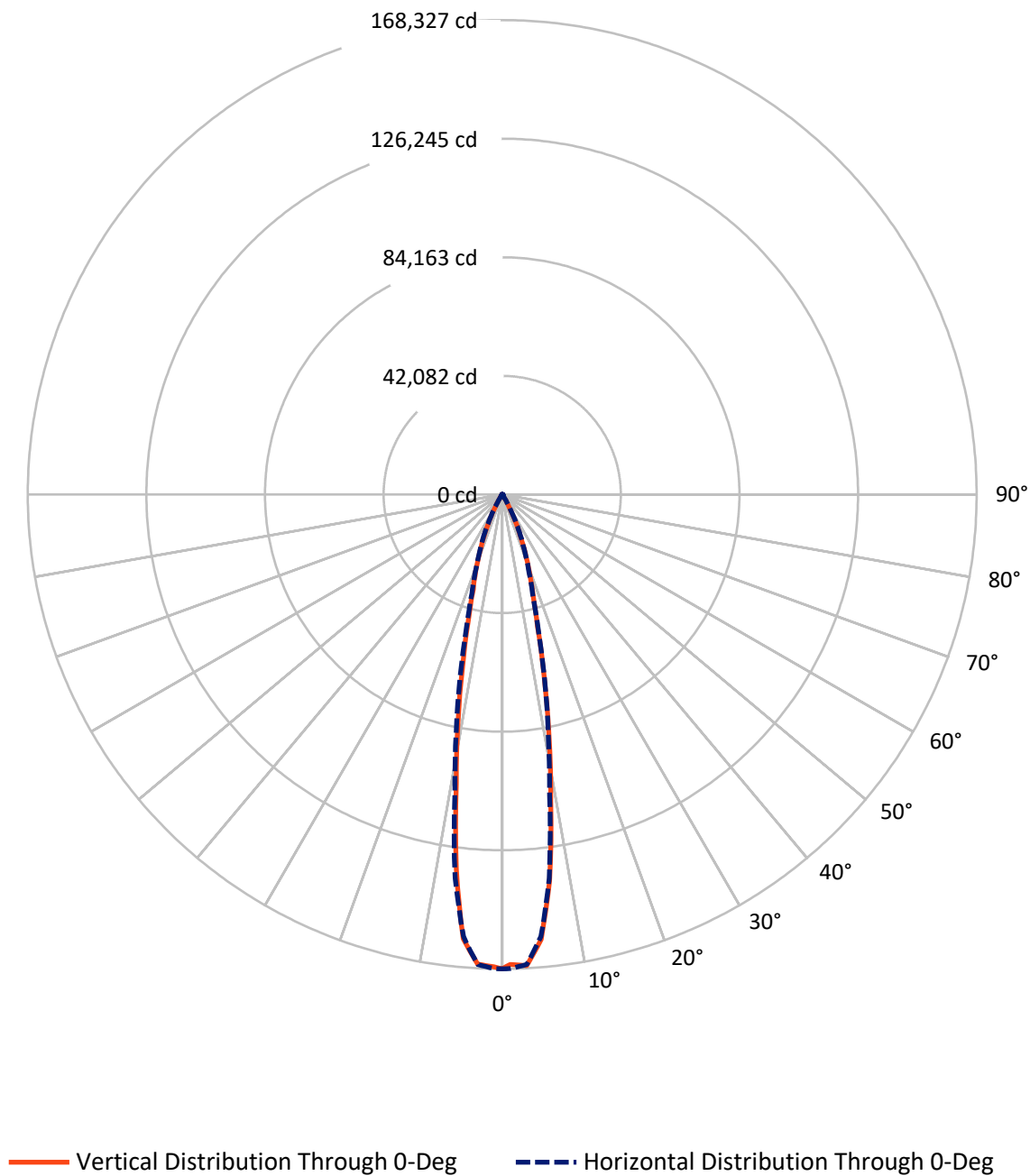
Lumen Table

90																
80	5.5	14.1		15.9		11.8		6.0		11.8		15.9		14.1		5.5
70																
60	4.9	2.0	1.5	1.3	1.8	2.8	2.9	1.3	1.3	2.9	2.8	1.8	1.3	1.5	2.0	4.9
50		0.9	0.5	0.8	2.1	3.3	2.8	1.8	1.8	2.8	3.3	2.1	0.8	0.5	0.9	
40	3.5	0.4	0.1	0.7	2.5	4.5	5.6	5.7	5.7	5.6	4.5	2.5	0.7	0.1	0.4	3.5
30		0.2	0.0	0.6	3.9	7.5	14.9	25.3	25.3	14.9	7.5	3.9	0.6	0.0	0.2	
20	2.9	0.1	0.0	1.0	5.2	34.8	195.3	376.6	376.6	195.3	34.8	5.2	1.0	0.0	0.1	2.9
10		0.1	0.1	1.7	12.0	189.7	710.4	1427.6	1427.6	710.4	189.7	12.0	1.7	0.1	0.1	
0	2.7	0.1	0.2	2.5	25.6	359.3	1381.9	3757.9	3757.9	1381.9	359.3	25.6	2.5	0.2	0.1	2.7
-10		0.1	0.2	2.5	25.2	355.2	1360.7	3694.3	3694.3	1360.7	355.2	25.2	2.5	0.2	0.1	
-20	2.9	0.1	0.1	1.9	11.5	179.7	682.9	1361.1	1361.1	682.9	179.7	11.5	1.9	0.1	0.1	2.9
-30		0.2	0.0	0.9	5.0	31.2	180.1	366.3	366.3	180.1	31.2	5.0	0.9	0.0	0.2	
-40	3.6	0.2	0.0	0.5	3.5	7.2	14.0	27.9	27.9	14.0	7.2	3.5	0.5	0.0	0.2	3.6
-50		0.5	0.1	0.7	2.4	4.2	5.4	5.6	5.6	5.4	4.2	2.4	0.7	0.1	0.5	
-60	5.1	1.0	0.5	0.9	2.1	3.2	2.8	1.8	1.8	2.8	3.2	2.1	0.9	0.5	1.0	5.1
-70		2.0	1.5	1.4	1.9	2.9	2.9	1.3	1.3	2.9	2.9	1.9	1.4	1.5	2.0	
-80	5.6	14.2		16.2		11.9		6.0		11.9		16.2		14.2		5.6
-90																
Horizontal Angle (degrees)																

REPORT NUMBER: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

Luminous Intensity Polar Plot

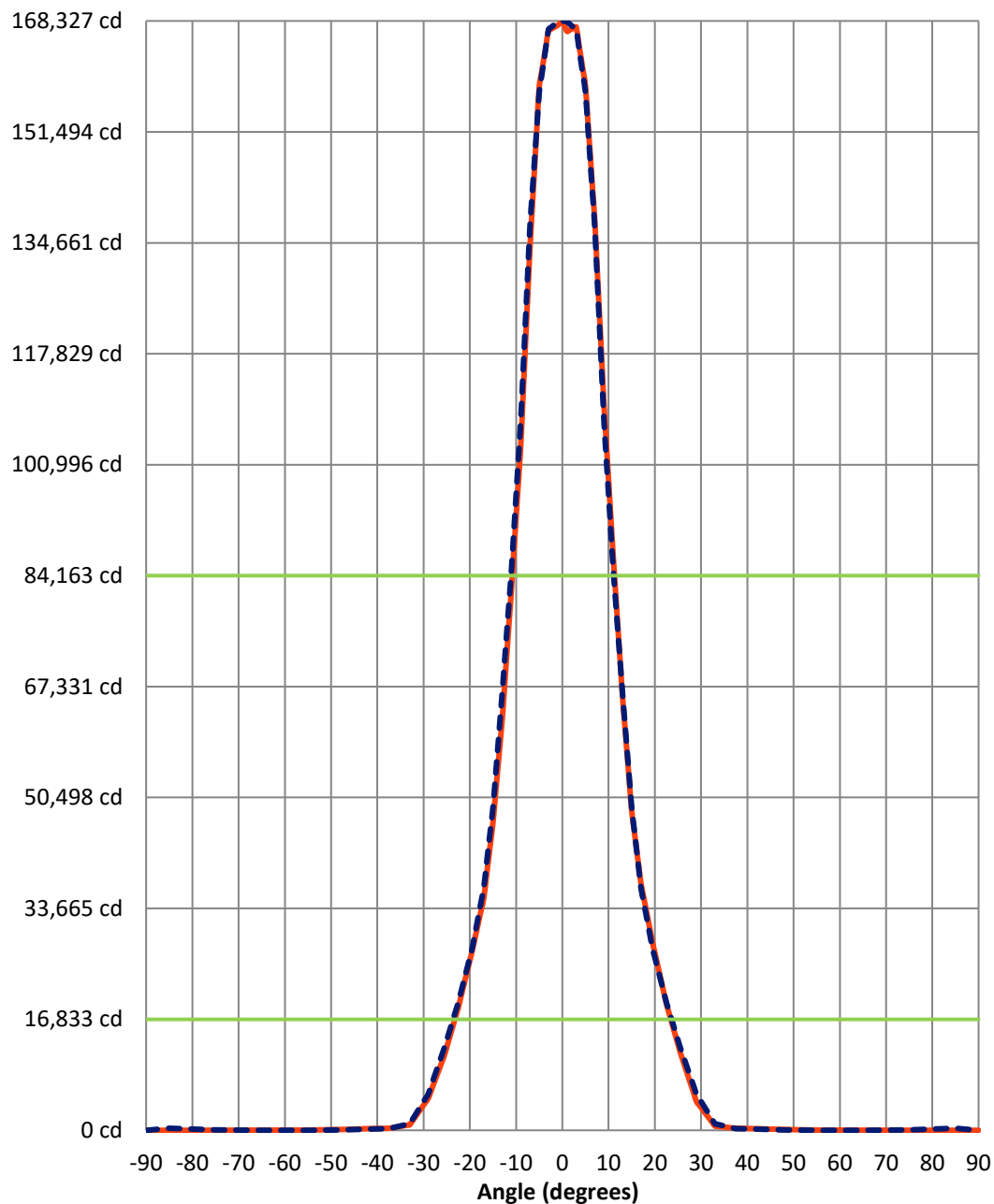




REPORT NUMBER: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

Luminous Intensity Plot



Beam:
H Angle: 22.2°
V Angle: 22.1°
Lumens: 14735.1
Efficiency: 43.2%

Field:
H Angle: 47.3°
V Angle: 46.7°
Lumens: 29659.5
Efficiency: 86.9%

Spill:
Lumens: 4469.5
Efficiency: 13.1%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

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°	1.0	20.5	83.2	108.6	72.4	60.7	70.5	80.2	99.8	118.4	151.7
75°	9.8	11.7	25.4	47.0	66.5	90.0	111.6	117.4	109.6	95.9	78.3
65°	22.5	23.5	27.4	36.2	48.9	61.6	73.4	86.1	101.8	114.5	122.3
55°	34.2	35.2	37.2	43.1	50.9	59.7	67.5	76.3	84.2	93.0	106.7
47.5°	134.1	138.0	139.0	136.0	139.9	146.8	146.8	145.8	144.8	141.9	136.0
42.5°	235.8	237.8	238.8	238.8	238.8	239.7	240.7	238.8	235.8	233.9	226.0
37.5°	306.3	305.3	305.3	304.3	304.3	301.4	298.5	294.5	291.6	286.7	279.9
33°	647.8	628.2	629.2	594.9	555.8	521.6	527.4	485.4	423.7	371.8	326.8
29°	4377.0	4393.6	4338.8	4089.3	3873.0	3445.4	2937.6	2275.1	1640.0	975.6	638.0
25.5°	11810.9	11659.2	11269.8	10838.2	10039.8	9202.1	7794.0	6643.3	5167.6	3859.3	2336.7
22.5°	19185.2	19119.6	18776.1	18144.0	17026.5	15526.4	13851.2	11907.8	9826.4	7659.0	5178.4
19.5°	28500.8	28104.5	27536.0	26380.3	24748.1	22745.1	20235.1	17890.5	15282.8	12500.8	8920.3
17°	37455.4	37576.7	36755.7	34822.1	32309.3	29660.4	26235.5	23024.9	19742.9	16545.1	12410.8
15°	48400.3	49163.5	46927.6	43989.0	40346.9	36260.6	31778.9	27518.4	23538.7	19680.3	15170.2
13°	65913.1	65942.5	63341.5	57065.2	50959.1	44659.3	37914.3	32486.4	27415.6	22996.5	17705.6
11°	87053.4	85744.1	81827.0	75239.5	66678.3	55653.2	45953.0	38112.9	31760.3	25963.5	20177.4
9°	110160.5	108644.7	103036.8	92856.1	82630.4	69167.7	55807.8	44252.3	36000.3	29162.3	22593.4
7°	138191.6	137995.9	128350.5	114319.3	97917.1	82720.4	66263.4	51138.2	39980.0	31920.8	24366.5
5°	158423.8	158604.8	151156.2	137263.9	114323.2	92744.5	75299.2	57975.2	43875.5	34246.8	25932.1
3°	167404.8	167346.1	163203.9	151362.7	129278.1	101690.3	81724.3	63464.8	47128.2	35879.0	26958.6
1°	166753.1	167536.9	166453.6	157175.2	136285.4	106993.0	84855.6	65997.3	48920.9	36680.4	27511.5
0°	168326.5	168210.1	167022.2	157463.8	137207.2	107629.0	85110.0	66395.5	48961.0	36780.2	27587.8
-1°	167664.1	167635.7	166516.3	156742.7	135756.0	106684.7	84610.0	65935.6	48620.5	36596.2	27458.7
-3°	166880.3	166930.2	162178.4	150407.6	127162.5	100885.9	80919.9	62888.5	46620.3	35575.6	26845.1
-5°	158309.3	156995.1	150029.9	133884.1	112736.0	91449.0	74329.5	56994.7	43133.8	33733.0	25692.4
-7°	133910.5	132096.3	124113.4	110483.4	94784.8	80059.8	64293.6	49774.1	39015.2	31319.0	24137.5
-9°	103846.0	104197.3	97580.5	88629.8	80345.5	67078.5	53234.2	42681.7	34913.1	28465.6	22093.4
-11°	82218.4	82151.9	78642.9	72173.8	63612.6	53223.5	43991.0	36722.4	30823.8	25477.1	19713.6
-13°	62378.6	63023.5	59236.6	54183.4	49009.9	41997.7	36454.3	31282.8	26591.7	22333.1	17173.3
-15°	46695.7	45970.6	44439.2	41991.9	38629.6	34254.6	30349.3	26542.8	22725.5	18994.3	14674.1
-17°	35162.7	36324.2	34978.7	33443.4	31113.5	28183.8	25064.2	22151.1	18890.6	15725.1	11795.3
-19.5°	27213.0	26981.1	26105.3	25366.6	23613.0	21618.8	19331.0	16939.4	14492.1	11691.5	8361.6
-22.5°	18623.5	18548.1	18264.3	17533.4	16011.8	14921.7	13048.8	11111.3	8994.7	6973.0	4676.4
-25.5°	11395.0	11543.8	11240.4	10707.1	9815.7	8593.5	7361.5	6041.5	4579.5	3313.3	2002.1
-29°	4828.1	4909.3	4775.2	4279.1	3933.7	3246.8	2635.2	2040.2	1359.2	824.9	578.3
-33°	839.6	857.2	840.6	743.7	681.1	569.5	526.5	464.8	412.0	363.0	316.1
-37.5°	308.2	308.2	306.3	306.3	307.3	305.3	300.4	295.5	290.6	285.7	278.9
-42.5°	238.8	237.8	236.8	237.8	237.8	238.8	239.7	232.9	230.9	227.0	214.3
-47.5°	129.2	126.2	128.2	131.1	139.0	139.0	136.0	136.0	134.1	126.2	123.3
-55°	35.2	36.2	38.2	44.0	50.9	59.7	68.5	76.3	84.2	93.0	105.7
-65°	23.5	23.5	28.4	37.2	49.9	62.6	74.4	87.1	101.8	115.5	123.3
-75°	9.8	11.7	25.4	47.0	66.5	90.0	111.6	118.4	109.6	96.9	79.3
-85°	2.9	21.5	84.2	108.6	73.4	62.6	71.4	81.2	101.8	120.4	153.6
-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: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

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°	191.8	224.1	259.3	293.6	322.9	348.4	358.1	352.3	327.8	316.1	330.7
75°	67.5	65.6	69.5	77.3	91.0	109.6	145.8	199.6	261.3	303.3	326.8
65°	119.4	104.7	85.1	68.5	58.7	54.8	50.9	73.4	146.8	258.3	323.9
55°	120.4	125.3	118.4	97.9	70.5	44.0	25.4	16.6	57.7	197.7	320.0
47.5°	132.1	129.2	122.3	107.6	80.2	46.0	16.6	0.0	27.4	159.5	318.0
42.5°	208.4	186.9	159.5	120.4	82.2	45.0	13.7	0.0	10.8	140.9	317.0
37.5°	270.1	253.4	221.1	166.4	98.8	42.1	6.8	0.0	0.0	124.3	316.1
33°	293.6	275.9	253.4	216.3	121.3	39.1	4.9	0.0	0.0	111.6	315.1
29°	403.2	306.3	260.3	224.1	147.8	54.8	0.0	0.0	0.0	100.8	313.1
25.5°	1050.0	495.1	295.5	226.0	162.4	72.4	0.0	0.0	1.0	93.0	313.1
22.5°	2679.2	1105.7	392.4	235.8	173.2	89.0	2.9	0.0	1.0	87.1	313.1
19.5°	5211.7	2455.1	689.9	270.1	182.0	102.7	8.8	0.0	1.0	81.2	313.1
17°	7803.8	3996.3	1240.8	323.9	191.8	116.4	15.7	0.0	1.0	78.3	313.1
15°	10017.3	5396.6	1815.2	379.7	199.6	127.2	19.6	0.0	1.0	75.3	313.1
13°	12132.9	6896.7	2530.5	445.2	207.4	138.0	27.4	0.0	1.0	73.4	312.2
11°	14054.7	8379.2	3232.1	535.3	218.2	147.8	35.2	0.0	1.0	71.4	312.2
9°	15720.2	9679.7	3897.5	644.9	227.0	156.6	43.1	0.0	1.0	69.5	312.2
7°	17155.7	10812.8	4533.6	764.2	237.8	163.4	49.9	0.0	0.0	68.5	312.2
5°	18255.5	11708.2	4994.4	872.9	247.6	170.3	56.8	0.0	0.0	68.5	312.2
3°	18999.2	12284.5	5327.1	955.0	254.4	173.2	59.7	0.0	0.0	67.5	312.2
1°	19341.7	12533.1	5483.7	992.2	257.4	176.1	62.6	0.0	0.0	66.5	312.2
0°	19413.1	12548.7	5499.4	995.2	257.4	175.2	63.6	0.0	0.0	66.5	312.2
-1°	19335.8	12517.4	5469.0	985.4	256.4	175.2	62.6	0.0	0.0	67.5	312.2
-3°	18911.2	12142.6	5264.5	937.4	252.5	173.2	60.7	0.0	0.0	67.5	312.2
-5°	18101.9	11525.2	4898.5	847.4	244.6	170.3	58.7	0.0	0.0	68.5	312.2
-7°	16914.9	10599.5	4397.5	735.9	236.8	166.4	53.8	0.0	0.0	69.5	312.2
-9°	15448.1	9358.7	3752.7	616.5	230.0	161.5	48.9	0.0	1.0	71.4	312.2
-11°	13617.3	8027.9	3053.0	519.6	223.1	155.6	43.1	0.0	1.0	73.4	313.1
-13°	11631.8	6534.7	2301.5	437.4	216.3	146.8	35.2	0.0	1.0	75.3	313.1
-15°	9476.1	5027.7	1637.1	372.8	207.4	137.0	27.4	0.0	2.0	77.3	313.1
-17°	7286.2	3647.0	1078.3	321.9	197.7	123.3	18.6	0.0	2.0	80.2	313.1
-19.5°	4689.1	2144.0	606.7	268.1	184.9	106.7	10.8	0.0	2.9	84.2	313.1
-22.5°	2350.4	963.9	372.8	230.9	169.3	86.1	2.9	0.0	3.9	90.0	314.1
-25.5°	902.2	446.2	285.7	220.2	156.6	65.6	0.0	0.0	3.9	96.9	314.1
-29°	378.7	296.5	254.4	214.3	132.1	45.0	1.0	0.0	4.9	105.7	315.1
-33°	289.6	268.1	241.7	197.7	104.7	30.3	3.9	0.0	4.9	116.4	316.1
-37.5°	265.2	244.6	209.4	146.8	81.2	36.2	8.8	0.0	5.9	130.1	317.0
-42.5°	196.7	173.2	144.8	110.6	77.3	44.0	16.6	0.0	17.6	147.8	319.0
-47.5°	119.4	120.4	114.5	102.7	79.3	48.9	23.5	0.0	34.2	167.3	320.0
-55°	118.4	123.3	116.4	96.9	72.4	48.9	34.2	18.6	65.6	206.5	322.9
-65°	120.4	107.6	88.1	72.4	63.6	61.6	57.7	73.4	150.7	267.1	325.9
-75°	69.5	68.5	73.4	81.2	95.9	114.5	146.8	199.6	265.2	311.2	329.8
-85°	193.7	226.0	261.3	295.5	324.9	348.4	358.1	351.3	330.7	323.9	334.7
-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: P507803

CATALOG NUMBER: UFLD-L-CA4-280-730-U-33

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)