

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: P507808

Luminaire Tested: **UFLD-L-CA4-180-727-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507808
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-CA4-180-727-U-66
Description: UTILITY FLOOD LARGE, 6x6 OPTIC
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	24193 lumens	Max Intensity:	12911.2 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	135.9 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:	17975.4 lumens	Field Lumens:	23379.7 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

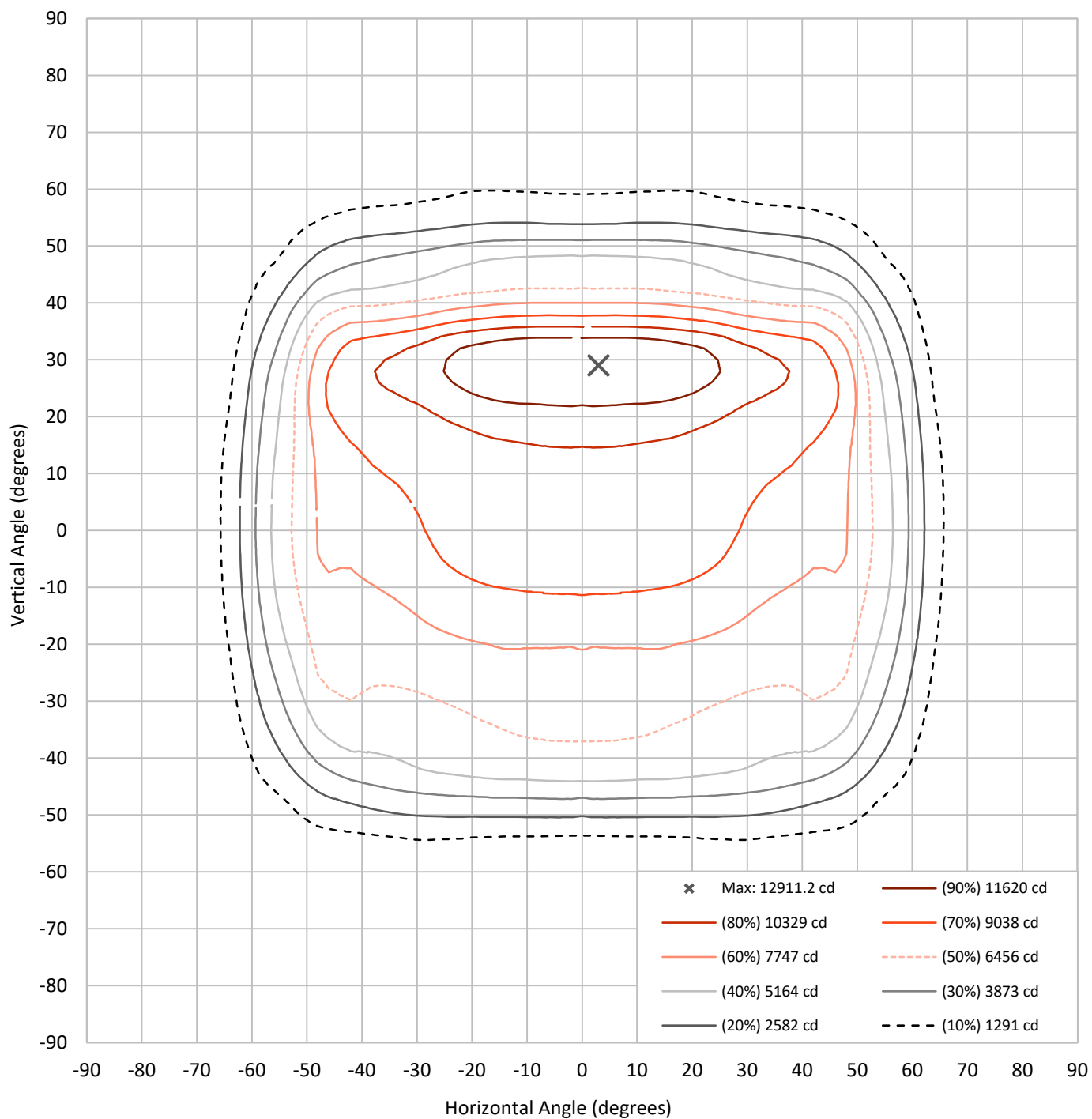
Input Watts (W): 178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot

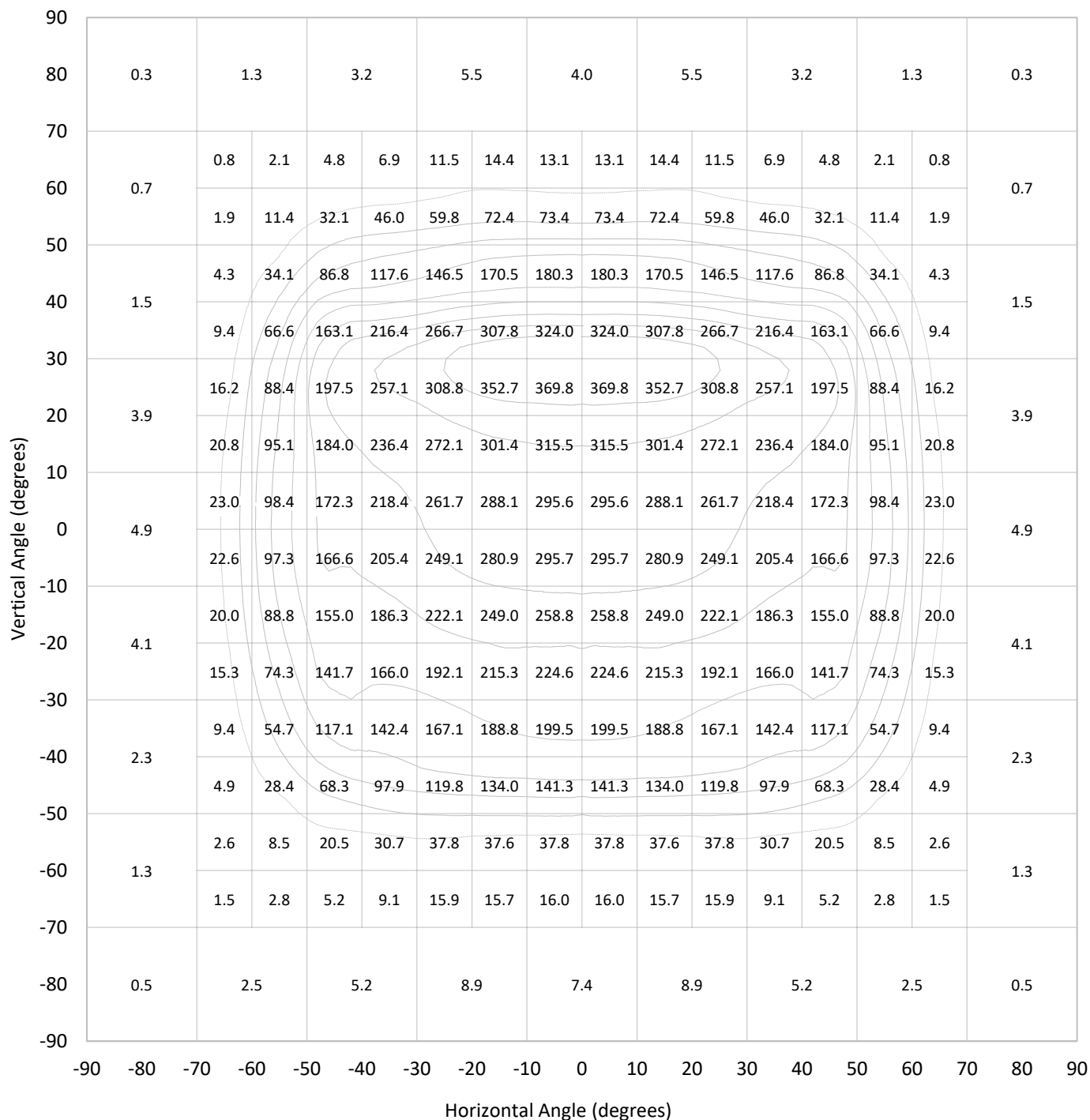




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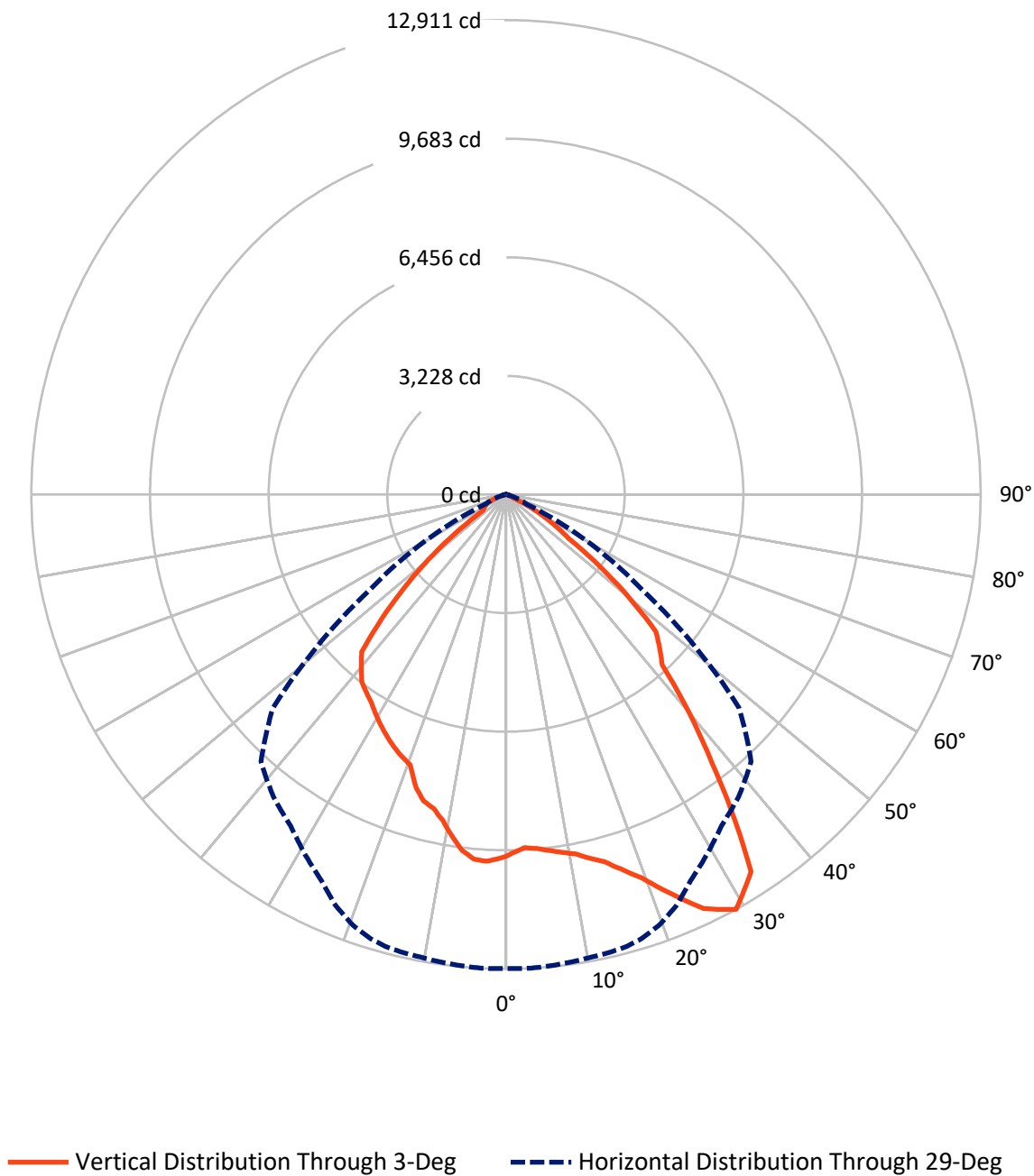
Lumen Table



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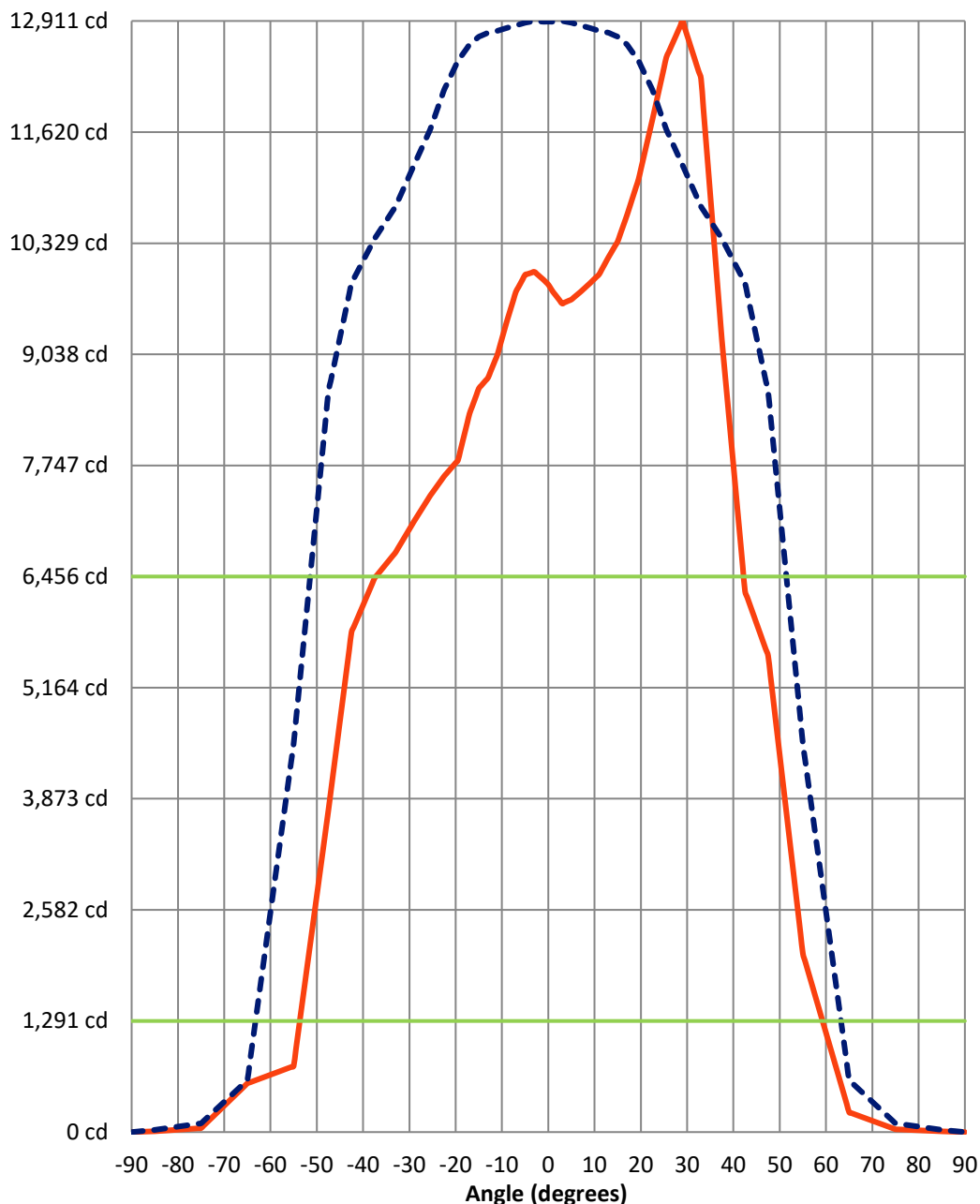
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 102.9°
V Angle: 79.4°
Lumens: 17975.4
Efficiency: 74.3%

Field:
H Angle: 126.5°
V Angle: 112.9°
Lumens: 23379.7
Efficiency: 96.6%

Spill:
Lumens: 813.3
Efficiency: 3.4%

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



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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°	0.5	4.1	8.7	20.4	26.6	31.2	34.2	35.8	36.3	36.3	34.8
75°	30.2	30.7	32.7	29.6	23.5	25.6	37.3	42.4	47.0	48.6	46.0
65°	233.1	231.5	230.0	228.5	221.8	212.1	208.5	229.0	281.1	335.3	361.9
55°	2034.2	2027.1	2075.1	2041.4	2107.8	2171.7	2194.7	2201.4	2209.0	2170.2	2117.5
47.5°	5514.9	5562.9	5532.8	5528.7	5493.9	5439.8	5407.0	5353.9	5307.4	5297.7	5138.7
42.5°	6328.1	6306.6	6286.7	6331.1	6305.6	6327.0	6324.5	6270.3	6232.5	6154.8	6077.1
37.5°	9171.4	9187.2	9207.2	9211.2	9223.5	9171.9	9136.1	9098.3	9025.7	8902.0	8724.7
33°	12245.2	12273.3	12239.6	12237.5	12264.6	12252.4	12199.7	12150.6	12042.8	11897.6	11733.1
29°	12904.0	12902.5	12911.2	12890.7	12859.6	12829.4	12796.7	12774.7	12727.7	12637.2	12448.6
25.5°	12465.5	12472.6	12487.5	12475.7	12436.4	12414.4	12386.3	12347.9	12266.2	12169.0	12008.6
22.5°	11731.0	11787.2	11765.3	11750.4	11716.7	11663.0	11673.8	11637.5	11574.1	11475.0	11306.3
19.5°	11049.2	11077.3	11071.7	11030.8	11009.8	10965.9	10945.4	10918.9	10865.2	10803.9	10688.9
17°	10612.7	10664.8	10653.6	10628.6	10595.8	10566.7	10529.9	10507.4	10463.5	10396.0	10256.5
15°	10353.6	10377.1	10349.5	10344.4	10349.0	10291.2	10267.7	10210.5	10196.7	10139.9	10016.8
13°	10134.8	10146.6	10165.0	10135.8	10130.7	10110.3	10061.2	10037.2	9989.2	9966.2	9877.2
11°	9963.1	10043.3	9967.7	9988.6	9965.1	9962.1	9934.5	9921.2	9885.4	9850.1	9795.4
9°	9873.6	9887.4	9863.4	9862.4	9851.7	9832.2	9825.6	9824.6	9817.4	9798.0	9764.3
7°	9764.3	9776.0	9764.8	9753.5	9745.4	9737.2	9760.2	9767.8	9801.1	9773.5	9741.3
5°	9689.6	9678.4	9674.3	9672.3	9692.7	9692.7	9737.7	9763.2	9794.4	9803.1	9761.2
3°	9625.8	9639.6	9627.3	9642.1	9682.5	9704.0	9764.3	9801.6	9822.0	9822.5	9805.7
1°	9724.9	9758.6	9765.3	9775.5	9790.3	9803.6	9848.6	9881.8	9859.8	9860.9	9792.4
0°	9817.9	9831.2	9848.6	9836.8	9856.3	9868.0	9900.2	9906.9	9898.2	9859.3	9767.3
-1°	9915.6	9912.5	9902.8	9900.7	9905.3	9891.5	9909.4	9887.4	9861.4	9826.6	9740.2
-3°	9985.6	10011.1	9997.3	9981.5	9931.4	9931.4	9911.5	9829.7	9794.4	9758.1	9636.5
-5°	9926.8	9959.5	9961.6	9911.0	9833.3	9812.8	9749.4	9700.4	9639.0	9579.8	9457.1
-7°	9796.0	9778.6	9763.2	9697.8	9646.7	9598.7	9514.3	9429.0	9413.1	9356.9	9249.1
-9°	9435.1	9447.4	9411.1	9393.7	9337.5	9275.1	9250.6	9189.8	9157.6	9107.5	9008.3
-11°	9076.8	9027.8	9031.3	9043.6	9003.7	9004.2	8977.7	8940.9	8936.3	8888.7	8804.9
-13°	8794.2	8790.6	8766.6	8787.0	8779.4	8780.4	8755.3	8750.7	8742.0	8709.3	8596.4
-15°	8607.6	8637.8	8640.8	8623.5	8627.6	8617.8	8608.6	8586.7	8580.0	8528.4	8410.3
-17°	8336.2	8346.4	8349.0	8347.5	8334.7	8344.9	8356.2	8347.5	8315.3	8275.9	8180.8
-19.5°	7834.3	7793.4	7807.7	7822.0	7826.1	7825.6	7842.0	7869.6	7844.0	7792.4	7713.7
-22.5°	7655.4	7646.7	7620.2	7628.8	7624.8	7612.0	7612.0	7614.0	7599.2	7545.0	7437.7
-25.5°	7387.1	7399.4	7395.3	7389.6	7388.6	7365.6	7366.6	7370.2	7341.1	7281.3	7184.7
-29°	7091.2	7099.3	7096.3	7082.5	7063.6	7022.2	7004.8	6965.9	6914.3	6881.1	6802.9
-33°	6754.3	6733.9	6734.9	6732.9	6707.8	6683.8	6654.7	6606.1	6553.0	6511.6	6428.8
-37.5°	6436.9	6448.7	6438.0	6441.5	6427.2	6403.2	6377.1	6340.3	6288.2	6228.4	6146.1
-42.5°	5830.8	5822.1	5808.8	5779.6	5767.9	5712.2	5677.9	5679.0	5667.2	5621.7	5543.5
-47.5°	3619.7	3715.8	3737.8	3718.8	3700.4	3692.8	3653.9	3650.9	3653.9	3629.4	3569.1
-55°	747.8	745.2	766.7	782.0	813.7	826.0	832.1	809.6	834.6	886.3	911.3
-65°	576.0	574.0	565.8	565.3	557.6	554.6	554.0	548.9	552.5	567.8	585.2
-75°	45.0	45.0	45.5	40.4	37.3	41.9	54.7	58.8	64.9	62.4	69.5
-85°	1.5	4.6	9.2	21.5	27.6	31.7	34.8	36.3	36.3	35.8	35.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: UFLD-L-CA4-180-727-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°	32.2	30.2	28.6	26.6	23.0	19.4	16.9	14.3	16.4	14.3	17.4
75°	41.4	41.9	52.6	65.9	59.3	39.9	27.6	23.0	30.2	17.4	18.9
65°	315.4	203.4	126.2	95.1	77.2	65.4	80.2	60.8	56.2	28.1	19.9
55°	1987.2	1854.8	1757.7	1634.0	1593.6	1479.7	1197.0	487.1	89.4	45.5	21.5
47.5°	4966.5	4744.1	4493.2	4212.1	3969.8	3634.5	2977.7	1302.8	107.3	58.8	23.0
42.5°	5941.7	5688.7	5536.9	5331.9	5105.0	5029.8	4529.5	2243.8	110.4	67.0	23.5
37.5°	8572.9	8289.7	7899.7	7598.7	7360.5	7326.3	6388.4	3167.4	175.8	77.2	24.5
33°	11417.2	11002.2	10464.5	9999.9	9595.1	9231.7	7827.7	3911.0	409.4	88.9	25.0
29°	12110.3	11651.3	11236.8	10754.3	10382.2	9866.0	8599.4	4515.2	602.1	101.7	25.6
25.5°	11680.4	11336.4	10933.2	10553.9	10275.4	9915.0	8932.7	4853.0	758.0	113.5	26.1
22.5°	11046.1	10744.1	10408.8	10167.5	10016.2	9737.7	8907.1	5040.1	882.2	123.7	26.6
19.5°	10489.0	10278.4	10007.6	9858.3	9792.9	9458.1	8650.0	5227.6	994.1	134.4	27.1
17°	10103.6	9922.2	9743.3	9672.8	9607.4	9175.0	8416.0	5359.0	1085.6	140.0	27.6
15°	9878.2	9746.9	9618.6	9568.0	9444.8	8926.0	8260.1	5446.4	1149.5	144.6	28.1
13°	9770.4	9684.0	9569.5	9473.4	9263.4	8701.2	8145.1	5549.1	1201.6	148.7	28.1
11°	9711.1	9630.9	9477.5	9335.4	9040.0	8502.3	8077.1	5637.6	1244.6	150.8	28.6
9°	9677.4	9580.8	9393.7	9143.3	8857.6	8329.6	8036.7	5701.4	1280.3	151.8	29.1
7°	9688.1	9529.7	9285.9	8998.1	8691.4	8223.3	8001.4	5748.0	1304.9	151.3	29.6
5°	9684.5	9478.0	9197.4	8902.5	8563.2	8124.1	7974.4	5784.8	1316.1	149.8	30.2
3°	9665.6	9452.5	9118.2	8763.0	8448.7	8044.9	7962.1	5808.3	1326.3	148.2	30.2
1°	9635.5	9390.6	9016.5	8684.3	8368.4	7970.3	7948.8	5818.0	1323.8	146.7	30.2
0°	9605.3	9361.0	8983.3	8643.4	8331.6	7929.9	7929.4	5842.5	1319.2	145.7	30.2
-1°	9556.2	9297.1	8925.0	8582.6	8283.6	7937.0	7930.4	5820.5	1314.1	144.1	30.7
-3°	9421.8	9179.6	8828.9	8491.6	8195.7	7884.9	7913.0	5799.1	1304.9	142.6	31.2
-5°	9269.5	9034.9	8720.6	8385.8	8094.0	7806.7	7873.2	5738.8	1283.4	141.6	31.2
-7°	9075.8	8899.5	8563.7	8238.6	7962.1	7695.3	7798.0	5680.5	1259.9	140.6	31.7
-9°	8877.5	8693.0	8394.0	8070.4	7816.4	7602.8	7695.3	5590.0	1228.7	139.5	31.7
-11°	8675.1	8485.0	8186.5	7885.9	7643.7	7457.6	7586.9	5488.8	1194.0	139.5	32.2
-13°	8432.8	8259.0	7988.2	7717.8	7485.2	7347.7	7470.4	5361.0	1151.5	140.0	32.2
-15°	8246.3	8060.7	7801.1	7548.1	7337.0	7234.8	7334.4	5198.0	1111.2	141.1	32.7
-17°	8023.9	7863.4	7626.3	7390.2	7199.5	7125.9	7198.5	5032.9	1059.0	141.6	32.7
-19.5°	7590.0	7443.8	7293.6	7138.2	7013.0	6989.4	7024.7	4816.2	988.5	142.6	32.7
-22.5°	7298.2	7149.9	6986.4	6865.8	6779.9	6860.6	6816.2	4515.7	888.3	144.1	32.7
-25.5°	7059.0	6922.5	6758.9	6642.9	6593.8	6770.7	6624.5	4190.6	776.4	144.1	32.7
-29°	6689.9	6570.8	6424.2	6314.3	6287.7	6563.2	6252.9	3814.9	644.5	142.1	32.7
-33°	6285.6	6151.7	6003.5	5886.5	5836.9	6208.0	5640.1	3364.6	479.9	136.5	32.7
-37.5°	6028.0	5878.3	5712.7	5528.7	5416.8	5467.4	4820.8	2718.6	279.1	126.8	32.2
-42.5°	5405.0	5313.0	5109.1	4910.2	4616.9	4265.7	3594.6	1949.9	213.1	115.0	32.2
-47.5°	3573.7	3506.2	3440.8	3315.6	3036.0	2671.1	2244.8	1080.0	202.9	100.7	31.7
-55°	987.5	1001.3	1060.6	988.0	863.8	757.0	734.5	329.7	186.6	77.2	30.2
-65°	620.0	628.7	512.6	362.9	245.3	187.6	190.1	126.2	124.2	45.0	28.1
-75°	75.6	76.2	63.9	60.8	61.3	70.0	73.1	60.8	49.1	25.6	26.1
-85°	34.2	33.7	32.7	31.7	31.2	29.6	27.6	25.0	23.0	23.5	23.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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)