

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: P507810

Luminaire Tested: **UFLD-L-CA4-180-740-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507810
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-CA4-180-740-U-66
Description: UTILITY FLOOD LARGE, 6x6 OPTIC
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	28570 lumens	Max Intensity:	15247.1 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	160.5 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:	21227.5 lumens	Field Lumens:	27609.6 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

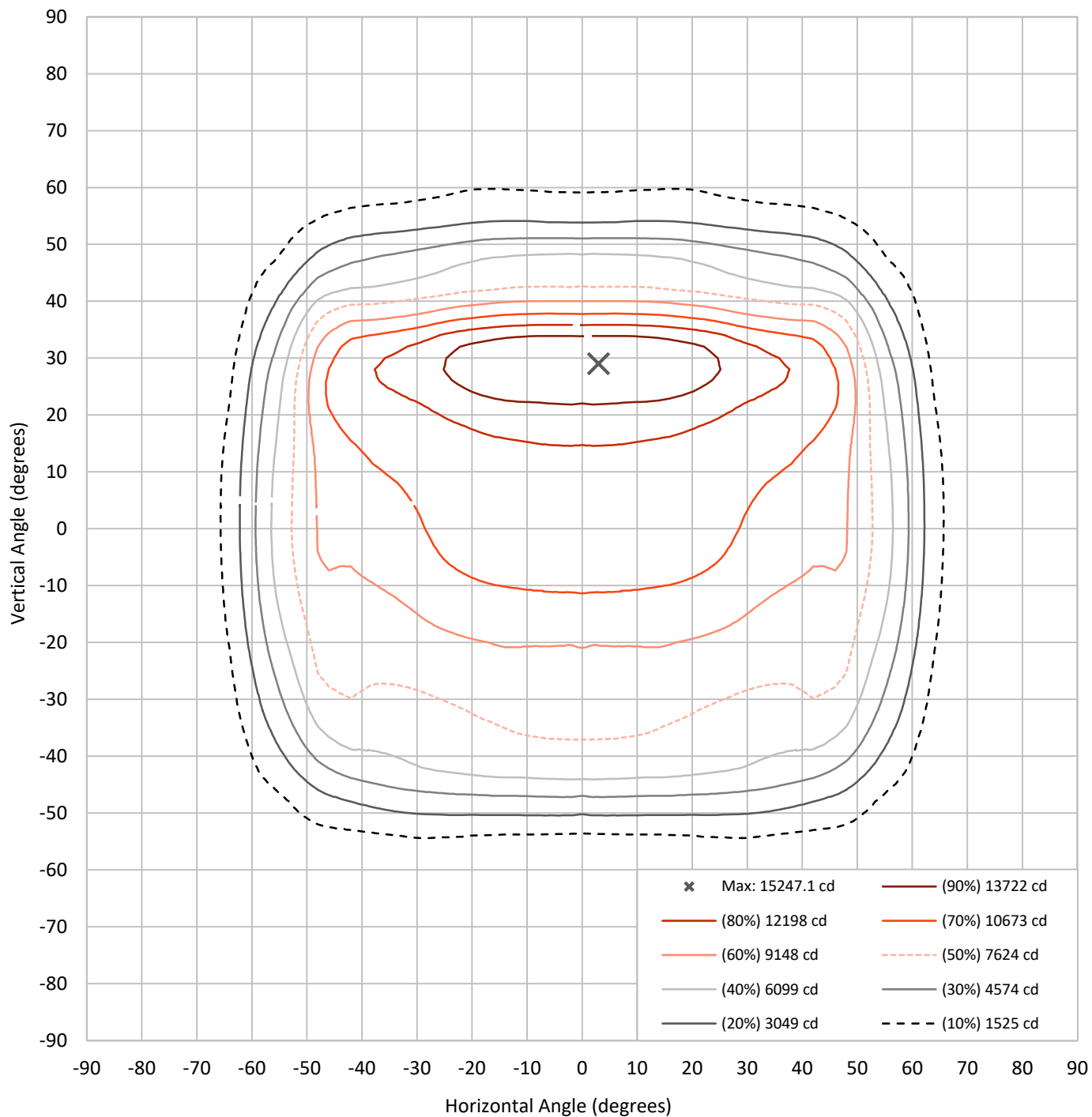
Input Watts (W): 178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot

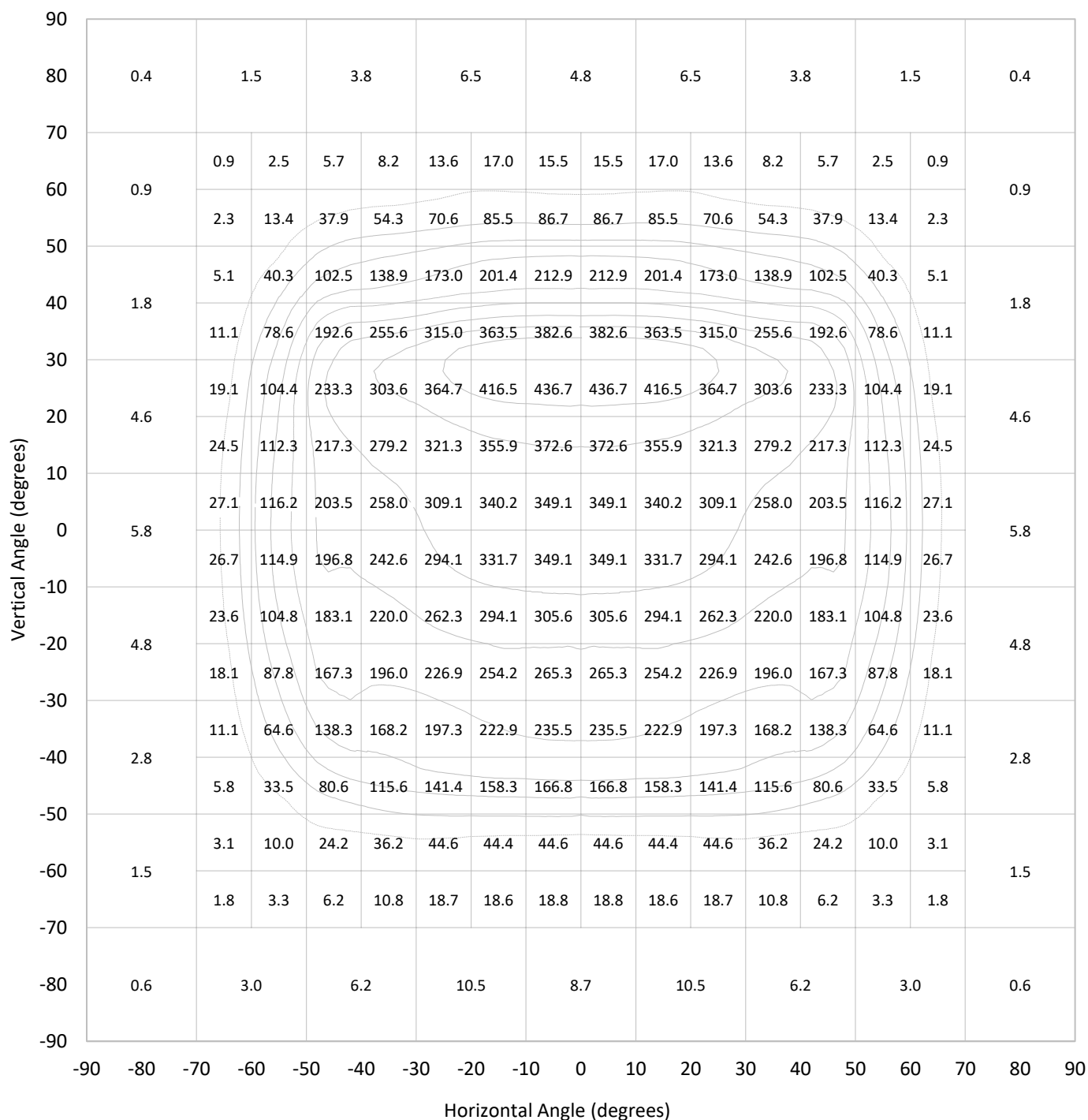




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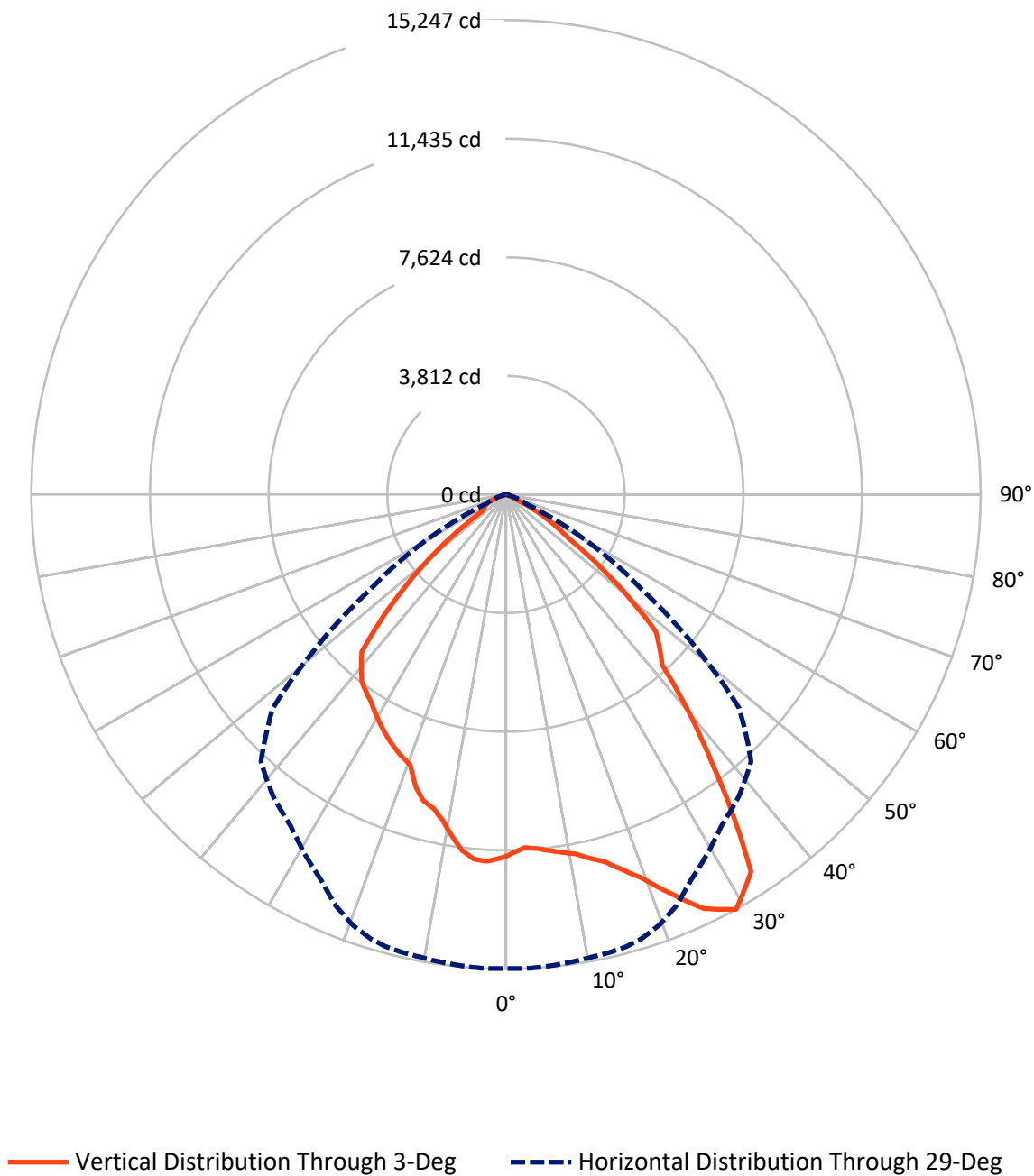
Lumen Table



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Luminous Intensity Polar Plot

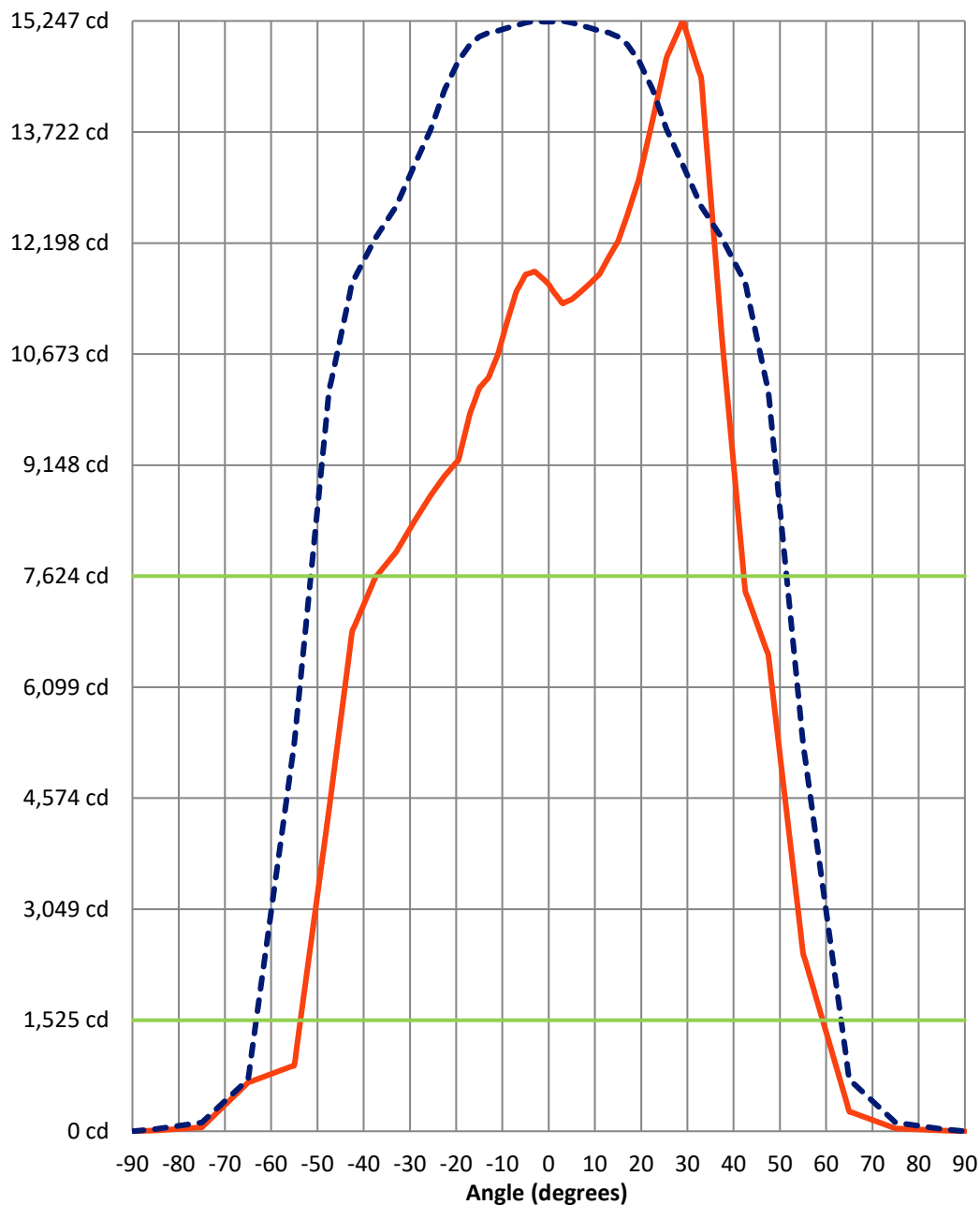




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Luminous Intensity Plot



Beam:

H Angle: 102.9°
V Angle: 79.4°
Lumens: 21227.5
Efficiency: 74.3%

Field:

H Angle: 126.5°
V Angle: 112.9°
Lumens: 27609.6
Efficiency: 96.6%

Spill:

Lumens: 960.4
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°	0.6	4.8	10.3	24.1	31.4	36.8	40.4	42.3	42.9	42.9	41.0
75°	35.6	36.2	38.6	35.0	27.8	30.2	44.1	50.1	55.5	57.3	54.3
65°	275.2	273.4	271.6	269.8	262.0	250.5	246.3	270.4	332.0	395.9	427.3
55°	2402.3	2393.8	2450.5	2410.7	2489.2	2564.6	2591.8	2599.6	2608.7	2562.8	2500.6
47.5°	6512.6	6569.4	6533.8	6528.9	6487.9	6423.9	6385.3	6322.5	6267.6	6256.1	6068.4
42.5°	7472.9	7447.6	7424.0	7476.6	7446.4	7471.7	7468.7	7404.7	7360.1	7268.3	7176.6
37.5°	10830.7	10849.4	10872.9	10877.7	10892.2	10831.3	10789.0	10744.3	10658.6	10512.6	10303.1
33°	14460.6	14493.8	14454.0	14451.5	14483.5	14469.0	14406.9	14348.9	14221.6	14050.2	13855.8
29°	15238.6	15236.8	15247.1	15222.9	15186.1	15150.5	15111.9	15085.9	15030.4	14923.5	14700.8
25.5°	14720.7	14729.2	14746.7	14732.8	14686.3	14660.4	14627.2	14581.9	14485.3	14370.7	14181.1
22.5°	13853.4	13919.8	13893.8	13876.3	13836.5	13773.1	13785.8	13742.9	13668.1	13551.0	13351.8
19.5°	13048.2	13081.4	13074.8	13026.5	13001.7	12949.8	12925.7	12894.3	12830.9	12758.5	12622.7
17°	12532.8	12594.3	12581.0	12551.5	12512.8	12478.4	12435.0	12408.4	12356.5	12276.8	12112.1
15°	12226.7	12254.5	12221.9	12215.9	12221.3	12153.1	12125.3	12057.7	12041.4	11974.4	11829.0
13°	11968.4	11982.3	12004.0	11969.6	11963.6	11939.4	11881.5	11853.1	11796.4	11769.2	11664.2
11°	11765.6	11860.4	11771.0	11795.8	11768.0	11764.4	11731.8	11716.1	11673.9	11632.2	11567.6
9°	11660.0	11676.3	11647.9	11646.7	11634.0	11611.1	11603.2	11602.0	11593.6	11570.7	11530.8
7°	11530.8	11544.7	11531.4	11518.1	11508.5	11498.8	11526.0	11535.0	11574.3	11541.7	11503.7
5°	11442.7	11429.4	11424.6	11422.2	11446.3	11446.3	11499.4	11529.6	11566.4	11576.7	11527.2
3°	11367.2	11383.5	11369.1	11386.6	11434.2	11459.6	11530.8	11574.9	11599.0	11599.6	11579.7
1°	11484.3	11524.2	11532.0	11544.1	11561.6	11577.3	11630.4	11669.6	11643.7	11644.9	11564.0
0°	11594.2	11609.9	11630.4	11616.5	11639.5	11653.3	11691.4	11699.2	11689.0	11643.1	11534.4
-1°	11709.5	11705.9	11694.4	11692.0	11697.4	11681.1	11702.2	11676.3	11645.5	11604.5	11502.4
-3°	11792.2	11822.3	11806.0	11787.3	11728.2	11728.2	11704.6	11608.1	11566.4	11523.6	11379.9
-5°	11722.8	11761.4	11763.8	11704.0	11612.3	11588.2	11513.3	11455.4	11382.9	11312.9	11168.1
-7°	11568.2	11547.7	11529.6	11452.3	11392.0	11335.3	11235.7	11134.9	11116.2	11049.8	10922.4
-9°	11142.1	11156.6	11113.7	11093.2	11026.8	10953.2	10924.2	10852.4	10814.4	10755.2	10638.1
-11°	10719.0	10661.1	10665.3	10679.8	10632.7	10633.3	10601.9	10558.4	10553.0	10496.9	10397.9
-13°	10385.2	10381.0	10352.6	10376.8	10367.7	10368.9	10339.3	10333.9	10323.7	10285.0	10151.6
-15°	10164.9	10200.5	10204.1	10183.6	10188.5	10177.0	10166.1	10140.2	10132.3	10071.4	9931.9
-17°	9844.4	9856.5	9859.5	9857.7	9842.6	9854.7	9867.9	9857.7	9819.7	9773.2	9660.9
-19.5°	9251.7	9203.4	9220.3	9237.2	9242.0	9241.4	9260.7	9293.3	9263.2	9202.2	9109.2
-22.5°	9040.4	9030.2	8998.8	9009.1	9004.2	8989.1	8989.1	8991.5	8974.0	8910.1	8783.3
-25.5°	8723.6	8738.0	8733.2	8726.6	8725.4	8698.2	8699.4	8703.6	8669.2	8598.6	8484.5
-29°	8374.1	8383.7	8380.1	8363.8	8341.5	8292.6	8272.1	8226.2	8165.2	8126.0	8033.7
-33°	7976.3	7952.2	7953.4	7951.0	7921.4	7893.0	7858.6	7801.3	7738.5	7689.6	7591.8
-37.5°	7601.5	7615.4	7602.7	7606.9	7590.0	7561.7	7530.9	7487.4	7425.9	7355.2	7258.1
-42.5°	6885.7	6875.4	6859.7	6825.3	6811.4	6745.6	6705.2	6706.4	6692.5	6638.8	6546.4
-47.5°	4274.6	4388.0	4414.0	4391.7	4369.9	4360.9	4315.0	4311.4	4315.0	4286.0	4214.8
-55°	883.0	880.0	905.4	923.5	960.9	975.4	982.6	956.1	985.6	1046.6	1076.2
-65°	680.2	677.8	668.2	667.6	658.5	654.9	654.3	648.2	652.5	670.6	691.1
-75°	53.1	53.1	53.7	47.7	44.1	49.5	64.6	69.4	76.7	73.6	82.1
-85°	1.8	5.4	10.9	25.4	32.6	37.4	41.0	42.9	42.9	42.3	41.6
-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):

	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°	38.0	35.6	33.8	31.4	27.2	22.9	19.9	16.9	19.3	16.9	20.5
75°	48.9	49.5	62.2	77.9	70.0	47.1	32.6	27.2	35.6	20.5	22.3
65°	372.4	240.2	149.1	112.3	91.1	77.3	94.8	71.8	66.4	33.2	23.5
55°	2346.7	2190.4	2075.7	1929.6	1882.0	1747.4	1413.6	575.2	105.6	53.7	25.4
47.5°	5865.0	5602.4	5306.1	4974.1	4688.0	4292.1	3516.5	1538.5	126.8	69.4	27.2
42.5°	7016.6	6717.9	6538.6	6296.6	6028.6	5939.8	5348.9	2649.7	130.4	79.1	27.8
37.5°	10123.9	9789.5	9329.0	8973.4	8692.2	8651.7	7544.2	3740.4	207.6	91.1	29.0
33°	13482.8	12992.7	12357.7	11809.1	11331.0	10901.9	9243.8	4618.6	483.5	105.0	29.6
29°	14301.3	13759.2	13269.7	12700.0	12260.5	11650.9	10155.3	5332.0	711.0	120.1	30.2
25.5°	13793.6	13387.4	12911.2	12463.3	12134.4	11708.9	10548.8	5731.0	895.1	134.0	30.8
22.5°	13044.6	12687.9	12291.9	12007.0	11828.4	11499.4	10518.6	5951.9	1041.8	146.1	31.4
19.5°	12386.7	12138.0	11818.1	11641.9	11564.6	11169.3	10215.0	6173.4	1174.0	158.7	32.0
17°	11931.6	11717.3	11506.1	11422.8	11345.5	10834.9	9938.6	6328.5	1282.0	165.4	32.6
15°	11665.4	11510.3	11358.8	11299.0	11153.6	10540.9	9754.5	6431.8	1357.5	170.8	33.2
13°	11538.1	11436.1	11300.9	11187.4	10939.3	10275.4	9618.7	6553.1	1419.0	175.6	33.2
11°	11468.0	11373.3	11192.2	11024.4	10675.5	10040.6	9538.4	6657.5	1469.7	178.1	33.8
9°	11428.2	11314.1	11093.2	10797.5	10460.1	9836.6	9490.7	6732.9	1512.0	179.3	34.4
7°	11440.9	11253.8	10965.9	10626.0	10263.9	9711.0	9449.1	6787.9	1540.9	178.7	35.0
5°	11436.7	11192.8	10861.4	10513.2	10112.4	9593.9	9417.1	6831.3	1554.2	176.8	35.6
3°	11414.3	11162.6	10767.9	10348.4	9977.2	9500.4	9402.6	6859.1	1566.3	175.0	35.6
1°	11378.7	11089.6	10647.8	10255.4	9882.4	9412.2	9386.9	6870.6	1563.3	173.2	35.6
0°	11343.1	11054.6	10608.5	10207.2	9839.0	9364.6	9364.0	6899.5	1557.8	172.0	35.6
-1°	11285.2	10979.1	10539.7	10135.3	9782.2	9373.0	9365.2	6873.6	1551.8	170.2	36.2
-3°	11126.4	10840.3	10426.3	10027.9	9678.4	9311.4	9344.6	6848.2	1540.9	168.4	36.8
-5°	10946.5	10669.5	10298.3	9903.0	9558.3	9219.1	9297.6	6777.0	1515.6	167.2	36.8
-7°	10717.8	10509.6	10113.0	9729.1	9402.6	9087.5	9208.8	6708.2	1487.8	166.0	37.4
-9°	10483.6	10265.7	9912.6	9530.5	9230.6	8978.3	9087.5	6601.4	1451.0	164.8	37.4
-11°	10244.6	10020.1	9667.6	9312.7	9026.6	8806.9	8959.6	6481.9	1410.0	164.8	38.0
-13°	9958.5	9753.3	9433.4	9114.1	8839.4	8677.1	8821.9	6331.0	1359.9	165.4	38.0
-15°	9738.2	9519.1	9212.5	8913.7	8664.4	8543.7	8661.4	6138.4	1312.2	166.6	38.6
-17°	9475.6	9286.1	9006.0	8727.2	8502.0	8415.1	8500.8	5943.5	1250.6	167.2	38.6
-19.5°	8963.2	8790.6	8613.1	8429.6	8281.7	8254.0	8295.6	5687.5	1167.3	168.4	38.6
-22.5°	8618.5	8443.5	8250.4	8107.9	8006.5	8101.9	8049.4	5332.6	1049.0	170.2	38.6
-25.5°	8336.1	8174.9	7981.8	7844.7	7786.8	7995.6	7823.0	4948.8	916.8	170.2	38.6
-29°	7900.3	7759.6	7586.4	7456.6	7425.3	7750.6	7384.2	4505.1	761.1	167.8	38.6
-33°	7422.8	7264.7	7089.7	6951.4	6892.9	7331.1	6660.5	3973.4	566.8	161.2	38.6
-37.5°	7118.6	6941.8	6746.2	6528.9	6396.8	6456.5	5693.0	3210.4	329.6	149.7	38.0
-42.5°	6382.9	6274.2	6033.4	5798.6	5452.1	5037.5	4245.0	2302.7	251.7	135.8	38.0
-47.5°	4220.2	4140.6	4063.3	3915.4	3585.3	3154.3	2650.9	1275.4	239.6	118.9	37.4
-55°	1166.1	1182.4	1252.4	1166.7	1020.1	893.9	867.3	389.3	220.3	91.1	35.6
-65°	732.1	742.4	605.4	428.5	289.7	221.5	224.5	149.1	146.7	53.1	33.2
-75°	89.3	89.9	75.4	71.8	72.4	82.7	86.3	71.8	57.9	30.2	30.8
-85°	40.4	39.8	38.6	37.4	36.8	35.0	32.6	29.6	27.2	27.8	27.8
-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)