

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: LUMARK

Report Number: P393779

Luminaire Tested: **NFFLD-C70-D-UNV-66-7060-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130630)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C70-D-UNV-66-7060-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	21370 lumens	Max Intensity:	11993.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	116.1 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	14153.5 lumens	Field Lumens:	20460.2 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

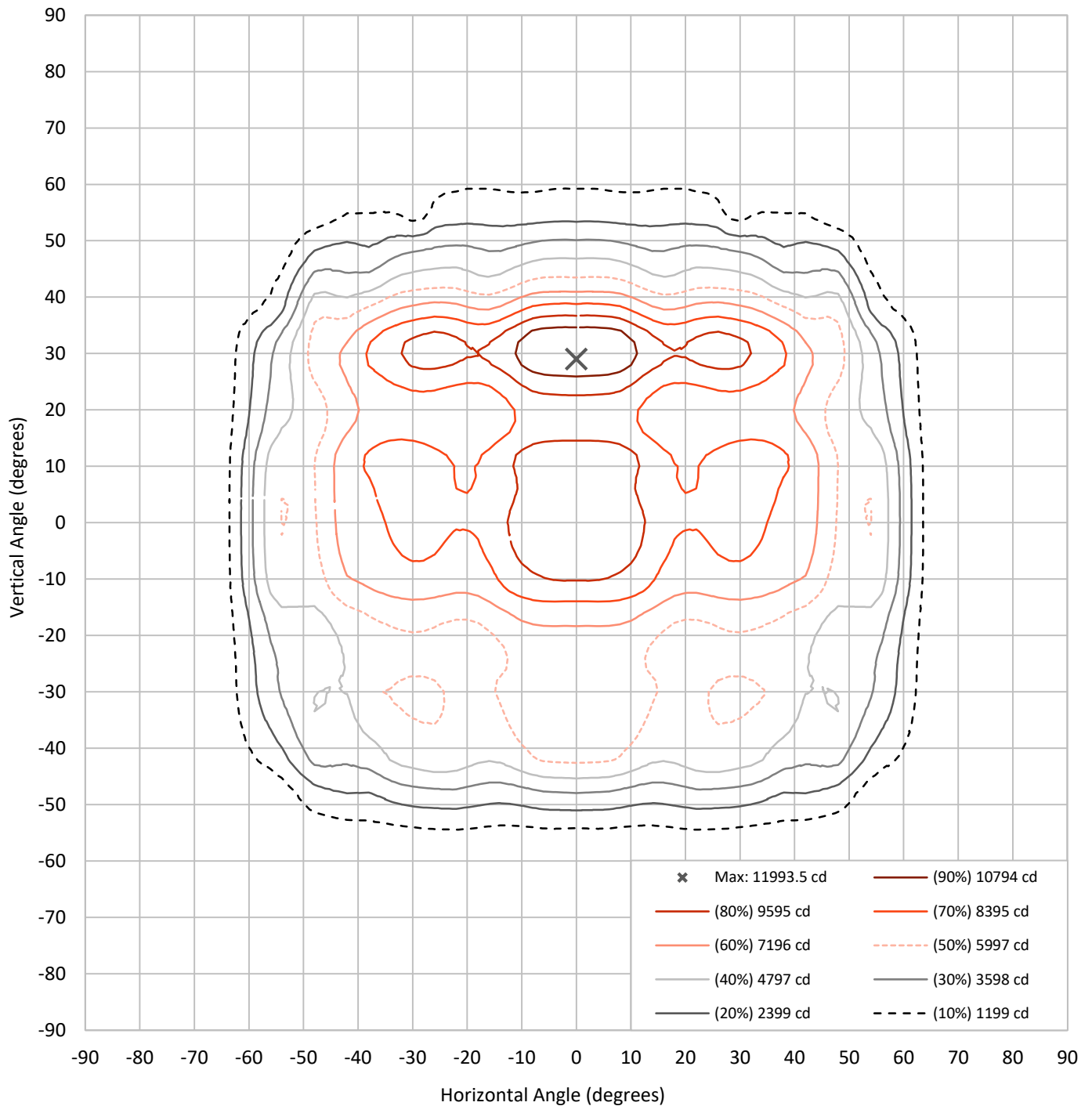
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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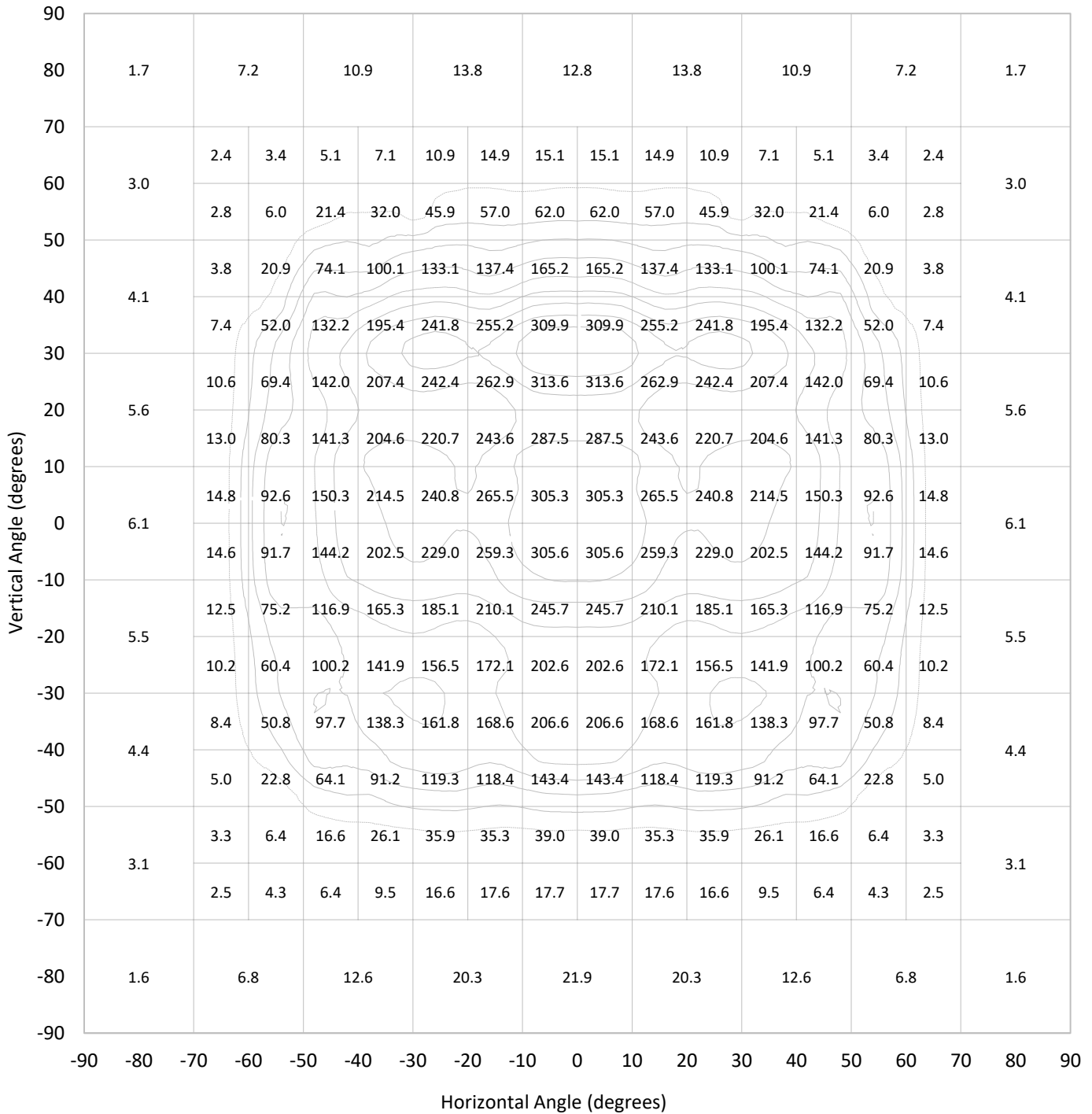
Iso-Candela Plot





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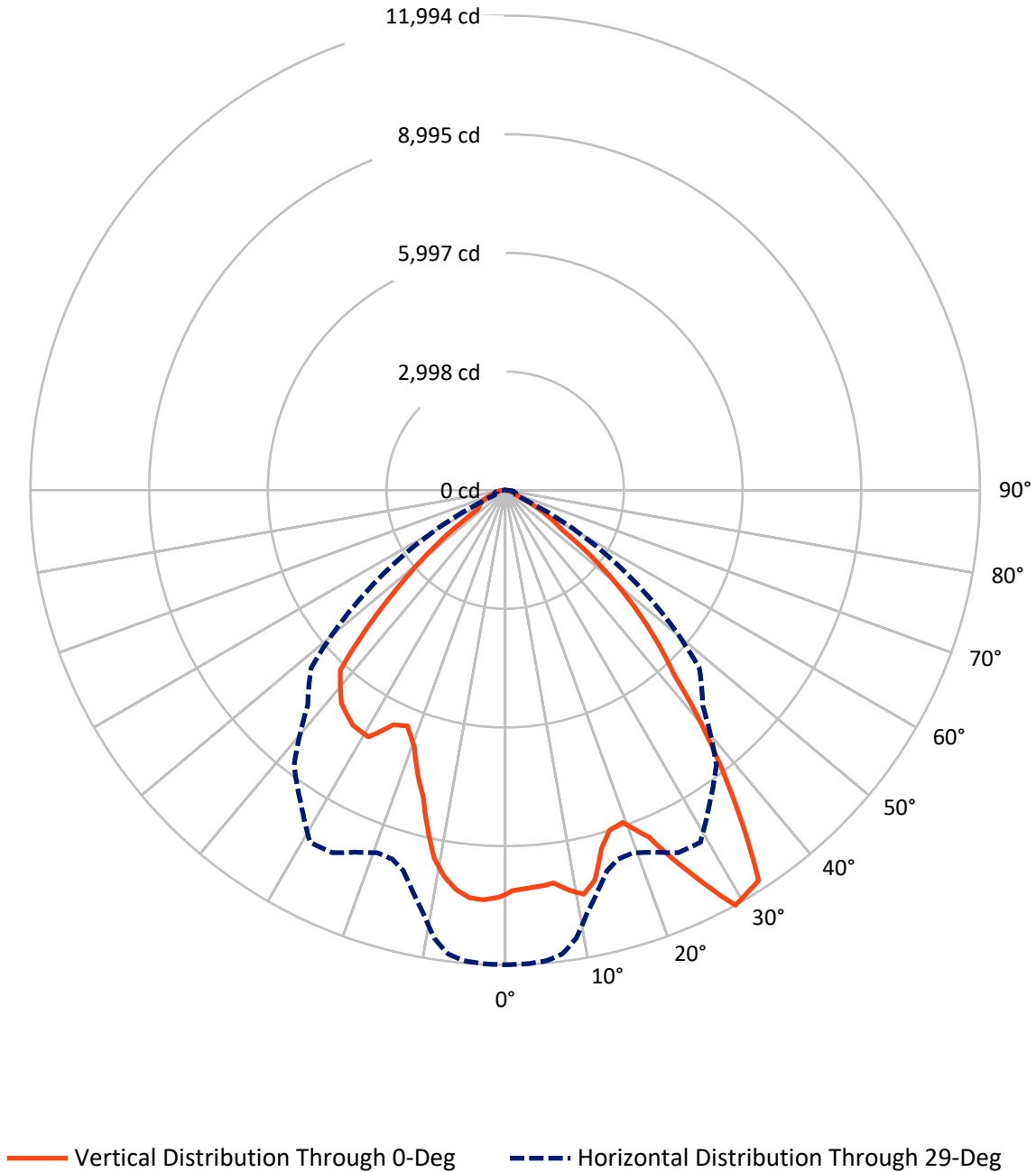
Lumen Table



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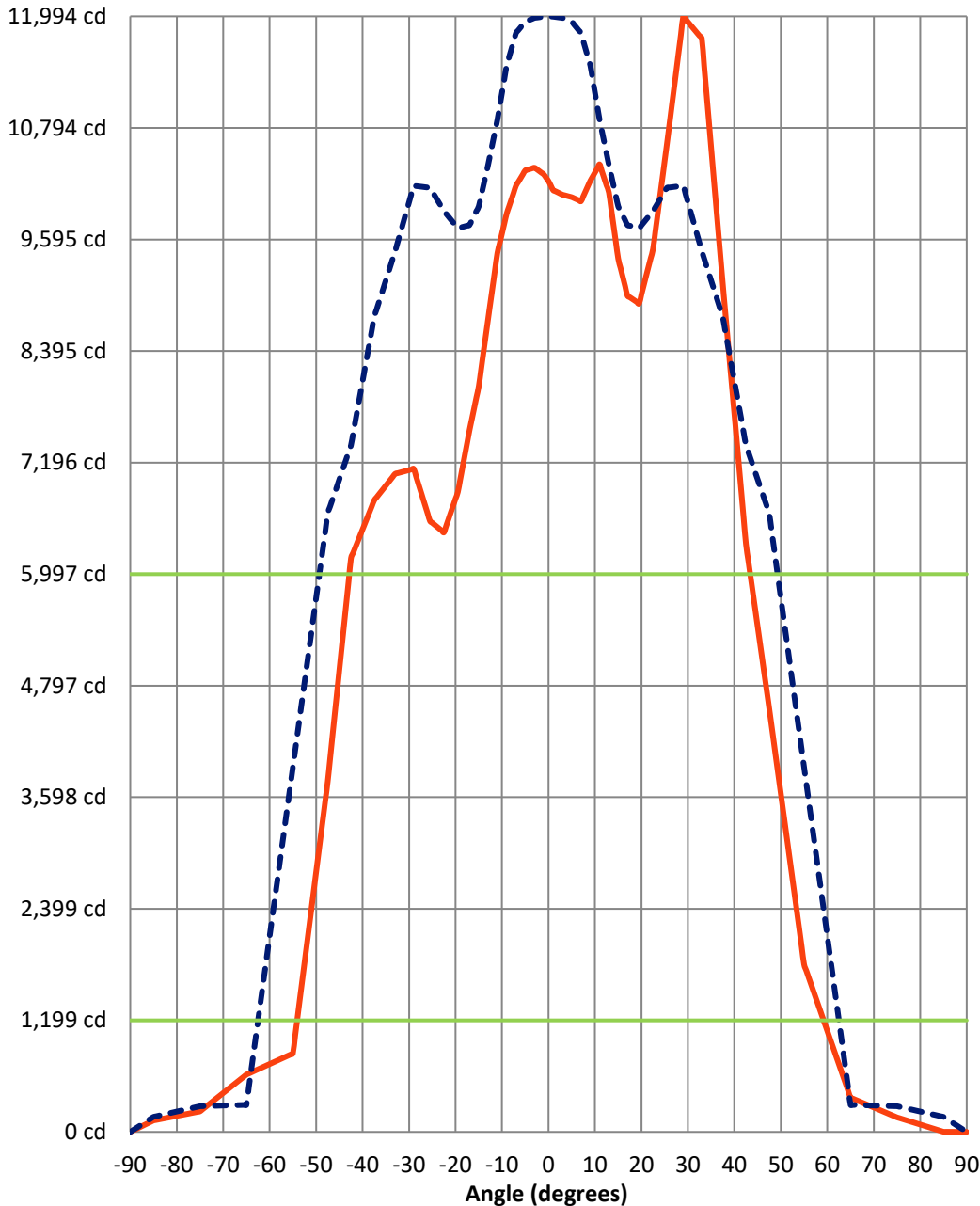
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 14153.5
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 20460.2
 Efficiency: 95.7%

Spill:
 Lumens: 909.8
 Efficiency: 4.3%

— Vertical Distribution through 0-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°	1.8	8.3	42.2	52.0	55.6	62.4	75.8	85.6	97.5	107.6	114.4
75°	156.4	156.4	156.4	156.4	151.6	148.3	151.6	143.0	144.8	143.0	136.4
65°	368.6	368.6	358.7	338.3	319.8	323.1	335.0	353.4	390.6	367.1	361.8
55°	1802.8	1821.2	1828.0	1792.7	1710.3	1690.1	1674.7	1698.4	1792.7	1796.0	1833.1
47.5°	4553.4	4605.5	4600.4	4561.8	4523.1	4268.7	4103.8	3839.5	3723.5	3819.5	4065.4
42.5°	6319.1	6340.8	6347.9	6349.4	6317.3	6071.8	5805.7	5388.1	5101.9	5021.3	5320.9
37.5°	9121.5	9180.7	9187.5	9064.4	9022.3	8739.6	8222.7	7802.0	7388.0	7281.9	7465.5
33°	11754.5	11754.5	11749.4	11698.9	11609.7	11212.3	10584.5	10119.9	9598.3	9325.4	9412.8
29°	11993.5	11989.9	11976.5	11936.4	11813.3	11465.0	10880.9	10396.1	9951.7	9749.6	9716.0
25.5°	10626.7	10611.6	10581.2	10534.0	10448.1	10170.5	9680.6	9246.3	8815.3	8598.3	8566.2
22.5°	9492.1	9483.6	9488.6	9424.7	9384.3	9204.1	8832.3	8443.5	8068.1	7808.9	7704.5
19.5°	8906.3	8912.9	8919.7	8904.8	8867.6	8731.2	8392.9	8012.5	7674.0	7399.6	7278.6
17°	8990.4	8997.2	8994.0	8985.4	8946.7	8793.4	8463.4	8094.8	7758.3	7445.1	7293.7
15°	9389.3	9403.0	9392.9	9367.3	9320.4	9143.8	8803.5	8406.3	8086.5	7714.6	7559.5
13°	10099.7	10109.8	10099.7	10061.1	9990.1	9818.5	9482.0	9032.6	8689.0	8238.1	8037.7
11°	10402.6	10404.4	10400.9	10362.2	10295.0	10138.4	9773.1	9322.1	8970.2	8519.0	8276.7
9°	10226.0	10240.9	10231.1	10199.0	10153.5	10017.1	9673.8	9261.5	8938.4	8519.0	8315.4
7°	10005.5	10015.6	10012.1	9997.2	9960.0	9848.9	9545.7	9150.3	8881.0	8472.0	8293.7
5°	10049.2	10062.6	10061.1	10054.3	10015.6	9902.9	9620.0	9237.7	9015.7	8604.9	8404.6
3°	10076.2	10088.1	10101.5	10092.9	10076.2	10005.5	9753.1	9404.5	9182.4	8746.1	8497.3
1°	10125.2	10141.9	10163.6	10158.8	10165.4	10103.0	9859.0	9475.2	9214.3	8749.7	8573.1
0°	10222.5	10232.6	10256.1	10242.7	10229.3	10163.6	9894.3	9500.5	9204.1	8726.2	8583.2
-1°	10293.2	10300.1	10300.1	10279.9	10246.0	10168.7	9882.7	9477.0	9153.9	8645.3	8413.2
-3°	10367.3	10375.9	10343.8	10279.9	10232.6	10135.1	9835.5	9403.0	9047.8	8504.1	8207.8
-5°	10337.2	10343.8	10330.4	10226.0	10150.3	10045.7	9736.2	9295.1	8916.4	8371.0	8066.3
-7°	10172.0	10185.4	10136.9	10066.1	9936.5	9813.5	9485.3	9035.9	8643.6	8142.1	7871.0
-9°	9872.6	9907.7	9842.3	9788.2	9625.0	9483.6	9164.0	8753.2	8391.2	7938.5	7684.1
-11°	9448.4	9483.6	9458.5	9456.5	9335.5	9219.6	8939.9	8554.4	8206.0	7766.7	7507.5
-13°	8738.0	8786.8	8775.2	8832.3	8724.4	8653.7	8386.1	8064.8	7756.6	7323.8	7120.4
-15°	8017.5	7975.6	7975.6	8002.4	7929.9	7855.8	7606.8	7332.4	7034.3	6662.4	6474.0
-17°	7541.1	7514.3	7517.6	7531.2	7468.6	7398.1	7169.2	6889.5	6563.1	6213.0	6004.3
-19.5°	6879.4	6872.9	6876.1	6911.5	6877.9	6832.4	6625.5	6359.5	6064.9	5756.7	5568.3
-22.5°	6445.2	6452.0	6474.0	6468.9	6453.7	6415.1	6218.0	5985.6	5692.8	5428.6	5238.3
-25.5°	6568.2	6561.4	6573.2	6544.4	6520.9	6411.6	6159.2	5937.1	5617.3	5418.5	5278.7
-29°	7128.8	7122.0	7128.8	7108.6	7090.1	6940.3	6630.6	6379.7	5992.7	5809.0	5667.5
-33°	7075.0	7073.2	7075.0	7059.8	7015.8	6815.8	6463.8	6128.9	5740.1	5532.9	5509.4
-37.5°	6790.2	6785.2	6788.7	6766.8	6696.0	6450.5	6100.1	5713.0	5405.1	5288.9	5395.0
-42.5°	6167.5	6147.3	6139.0	6092.0	5992.7	5669.3	5344.4	4974.1	4812.4	4827.8	5081.9
-47.5°	3768.8	3731.9	3694.7	3664.7	3580.3	3339.5	3231.9	3065.2	3072.0	3161.2	3316.0
-55°	843.3	851.6	878.7	883.7	863.5	836.7	796.0	782.7	809.7	898.9	924.1
-65°	616.2	622.7	634.6	610.9	568.9	562.1	584.1	626.3	639.7	631.3	646.2
-75°	220.5	223.8	228.9	222.3	208.9	220.5	227.4	217.0	213.7	210.4	213.7
-85°	122.8	124.5	124.5	119.7	126.3	122.8	117.7	121.3	124.5	134.7	131.4
-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°	119.7	116.2	102.6	96.0	102.6	116.2	117.7	111.2	92.7	69.0	52.0
75°	132.9	139.7	146.3	151.6	156.4	146.3	148.3	159.9	156.4	126.3	70.7
65°	341.8	257.4	200.3	183.4	173.3	173.3	170.0	192.0	186.9	154.9	89.2
55°	1688.3	1654.7	367.1	1112.6	1132.8	1090.6	316.3	264.3	220.5	171.8	109.4
47.5°	4161.1	4066.9	3907.0	3546.7	2646.1	3009.6	2784.3	348.4	227.4	190.2	124.5
42.5°	5645.6	5605.4	5484.1	5221.4	4171.2	3937.3	4484.2	1087.6	225.6	210.4	134.7
37.5°	7830.8	7987.2	7754.8	7340.7	6448.7	5491.0	5975.8	1663.1	237.5	233.9	144.8
33°	9859.0	10049.2	9853.9	9333.7	8391.2	6936.8	6583.3	3455.8	266.0	257.4	153.3
29°	9900.9	10150.3	10172.0	9468.4	8761.5	7382.9	6650.5	3922.1	291.0	276.1	161.7
25.5°	8756.5	9002.0	9020.7	8645.3	8046.1	7133.8	6223.1	3989.3	313.0	291.0	166.5
22.5°	7822.2	8071.3	8190.8	7970.3	7640.4	6903.2	5706.5	4152.8	336.8	302.9	171.8
19.5°	7355.9	7593.4	7797.0	7699.5	7497.4	6810.5	5457.1	4369.8	361.8	311.5	176.8
17°	7325.8	7571.4	7835.6	7882.9	7679.0	6953.7	5499.3	4615.6	382.2	316.3	180.1
15°	7574.9	7855.8	8170.6	8291.9	8034.2	7253.3	5649.1	4954.1	388.8	321.6	181.9
13°	8072.9	8455.1	8835.6	8960.1	8510.7	7704.5	5903.5	5410.1	393.9	328.2	183.4
11°	8342.4	8781.7	9207.4	9219.6	8655.4	7934.9	6017.7	5711.3	395.4	336.8	185.2
9°	8387.9	8800.2	9165.5	9086.4	8527.6	7938.5	5994.2	5857.8	397.4	343.3	186.9
7°	8349.0	8741.3	9015.7	8907.8	8352.5	7914.7	5952.0	5928.5	397.4	348.4	186.9
5°	8465.2	8857.5	9073.0	8881.0	8300.2	7928.4	5957.1	5995.7	393.9	351.7	188.5
3°	8532.6	8911.3	9077.8	8793.4	8221.2	7899.8	5938.6	6024.5	390.6	350.1	188.5
1°	8552.9	8876.0	9007.3	8682.5	8126.9	7849.3	5896.4	6027.8	385.3	343.3	188.5
0°	8509.2	8832.3	8955.1	8637.0	8086.5	7822.2	5879.8	6027.8	395.4	340.0	188.5
-1°	8404.6	8765.1	8903.0	8599.8	8052.9	7797.0	5866.4	6027.8	388.8	335.0	188.5
-3°	8214.6	8606.7	8781.7	8520.8	7970.3	7721.2	5840.9	6014.4	388.8	328.2	188.5
-5°	8071.3	8448.3	8633.5	8399.8	7862.7	7593.4	5782.0	5977.3	387.3	324.9	186.9
-7°	7881.1	8221.2	8434.9	8244.6	7736.4	7426.6	5692.8	5905.0	382.2	324.9	186.9
-9°	7681.0	7983.7	8209.3	8046.1	7574.9	7214.7	5595.3	5804.0	378.7	324.9	185.2
-11°	7495.6	7760.1	7968.8	7817.2	7382.9	6963.8	5445.5	5608.7	373.6	321.6	183.4
-13°	7113.6	7298.8	7480.4	7349.3	6923.4	6485.8	5149.1	5233.3	368.6	318.1	181.9
-15°	6463.8	6615.4	6759.9	6666.0	6319.1	5834.3	4728.5	4766.9	363.5	313.0	178.4
-17°	5997.5	6179.1	6324.1	6228.1	5948.7	5401.8	4427.1	4421.8	360.3	308.0	176.8
-19.5°	5612.0	5842.9	6012.6	5910.1	5684.5	5060.0	4192.9	4122.5	355.2	304.7	173.3
-22.5°	5275.5	5511.2	5674.4	5613.7	5492.7	4841.2	4171.2	3838.0	343.3	301.4	168.3
-25.5°	5374.7	5598.6	5738.3	5694.6	5524.6	4748.7	4378.1	3659.4	333.2	298.1	165.0
-29°	5817.4	6123.8	6345.9	6063.2	6000.8	4799.0	4851.3	3593.9	324.9	291.0	158.1
-33°	5834.3	6135.4	6186.2	5980.8	5831.0	4413.5	4943.8	3210.2	318.1	277.9	151.6
-37.5°	5729.9	5911.6	5831.0	5576.6	4980.9	4115.6	4815.9	2507.9	306.2	255.9	143.0
-42.5°	5393.2	5539.7	5282.3	5011.2	3992.9	3684.6	3974.2	1599.2	299.6	228.9	132.9
-47.5°	3541.9	3447.4	3376.7	3110.7	2467.7	2531.6	2136.3	373.6	288.0	196.8	124.5
-55°	935.7	925.9	902.1	781.1	685.1	607.6	398.9	296.1	274.4	170.0	111.2
-65°	653.3	626.3	555.5	355.2	313.0	262.5	294.6	249.1	186.9	146.3	92.7
-75°	220.5	208.9	180.1	175.1	165.0	175.1	185.2	153.3	131.4	114.4	74.0
-85°	136.4	129.6	104.3	92.7	101.1	112.7	112.7	102.6	79.1	63.9	53.8
-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)