

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: P393765

Luminaire Tested: **NFFLD-C55-D-UNV-66-7050-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130632)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-7050-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

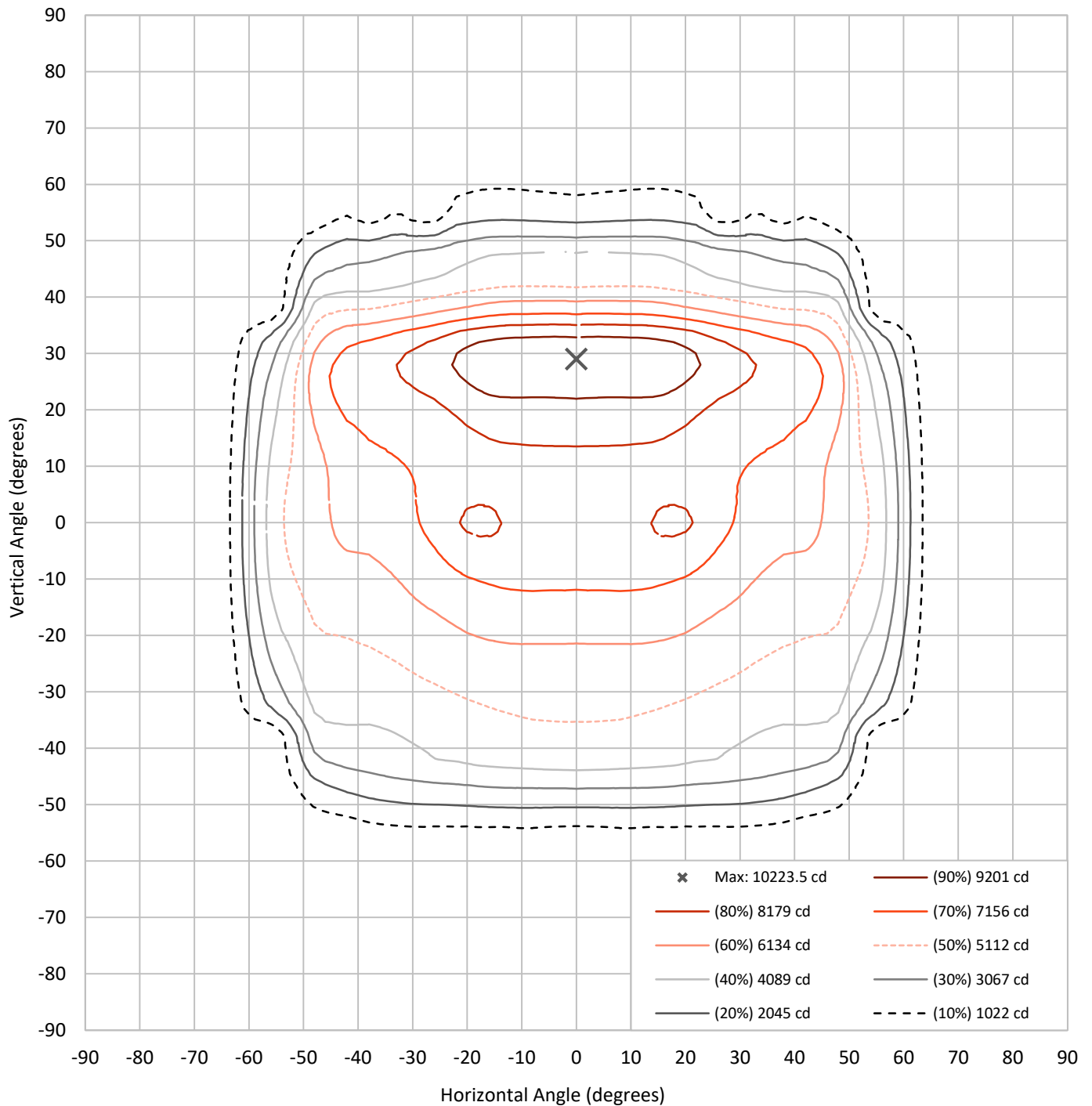
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	18528 lumens	Max Intensity:	10223.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	127.8 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	13390.1 lumens	Field Lumens:	17929.8 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	145		
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

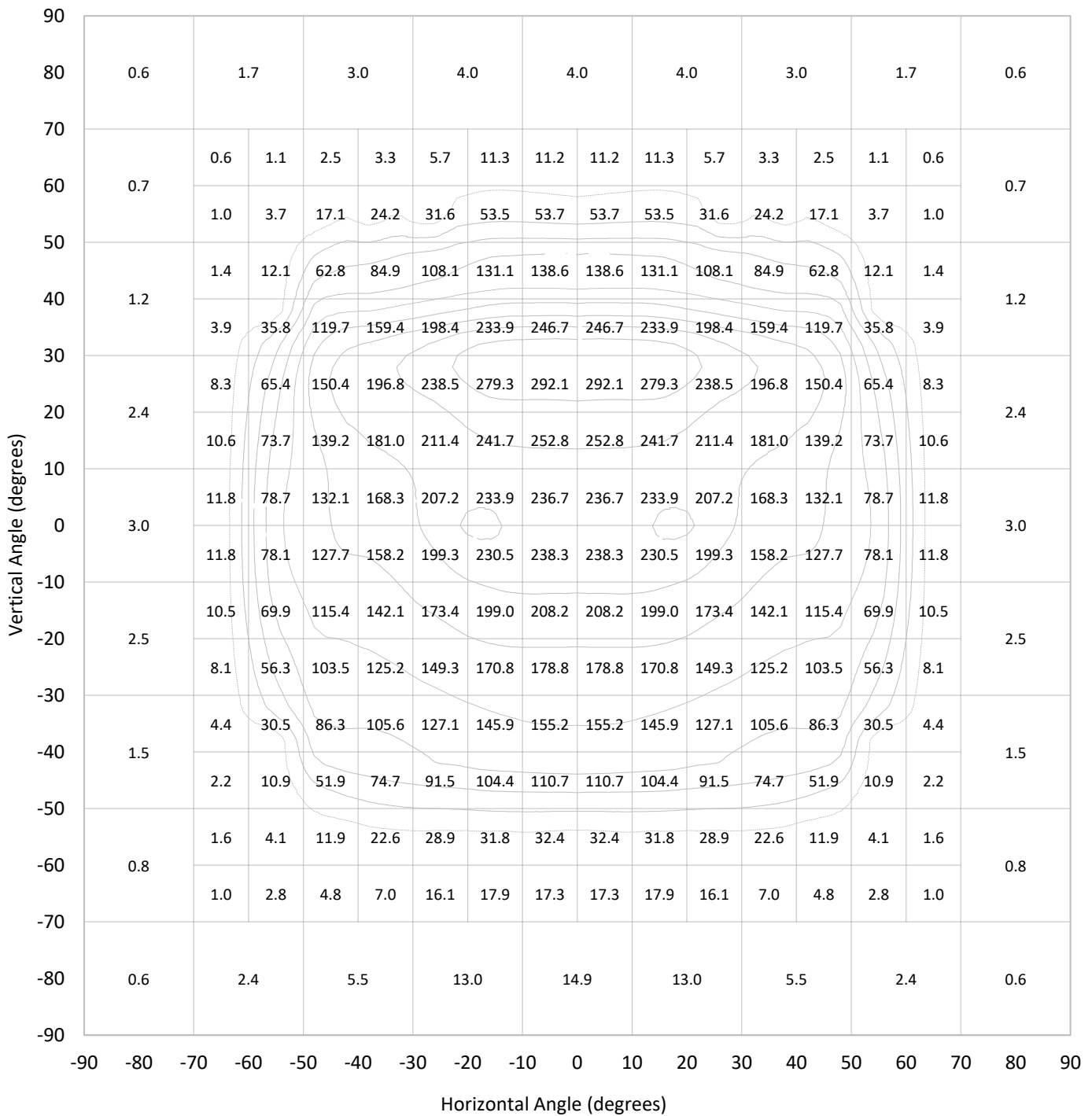




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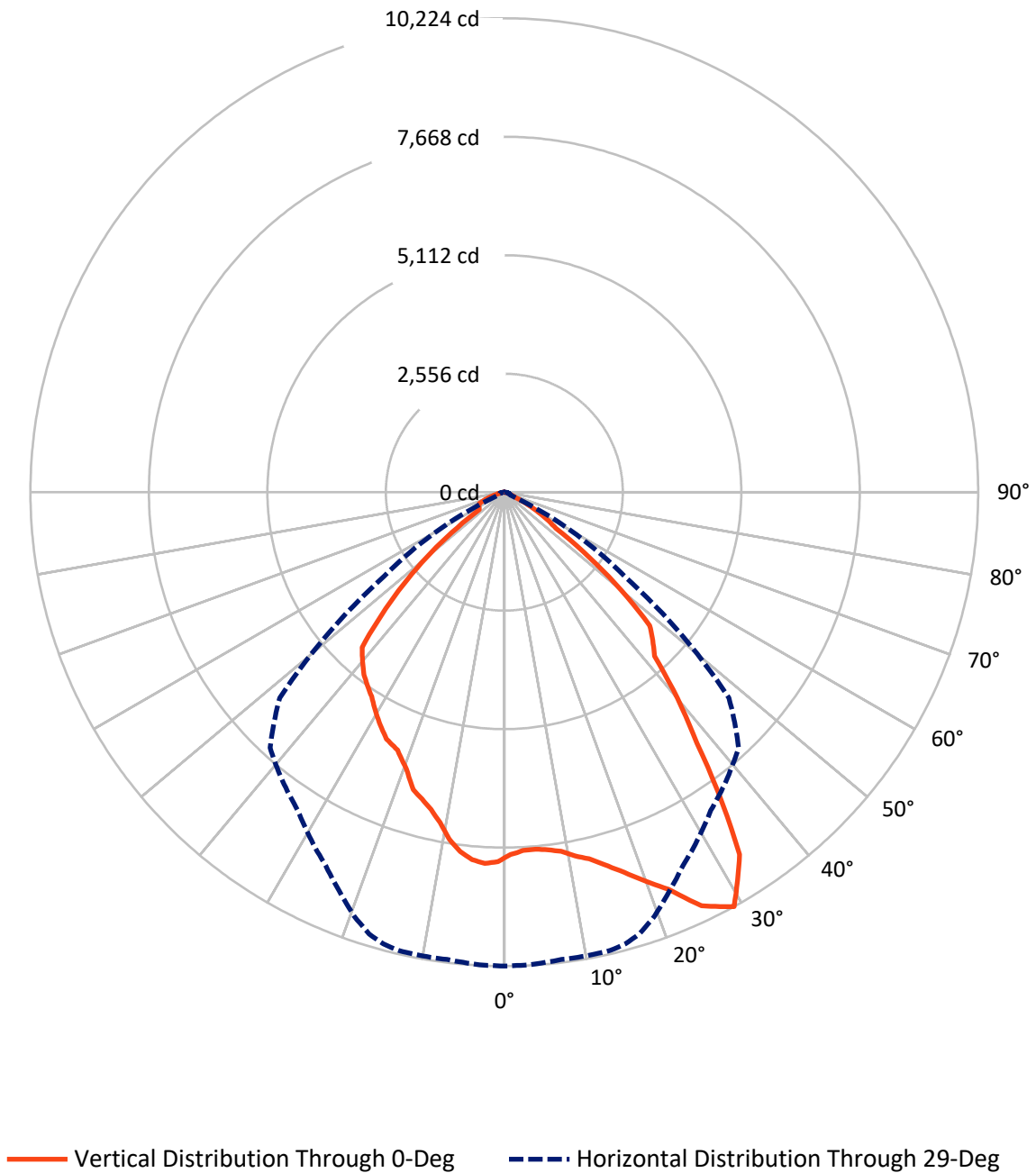
Lumen Table



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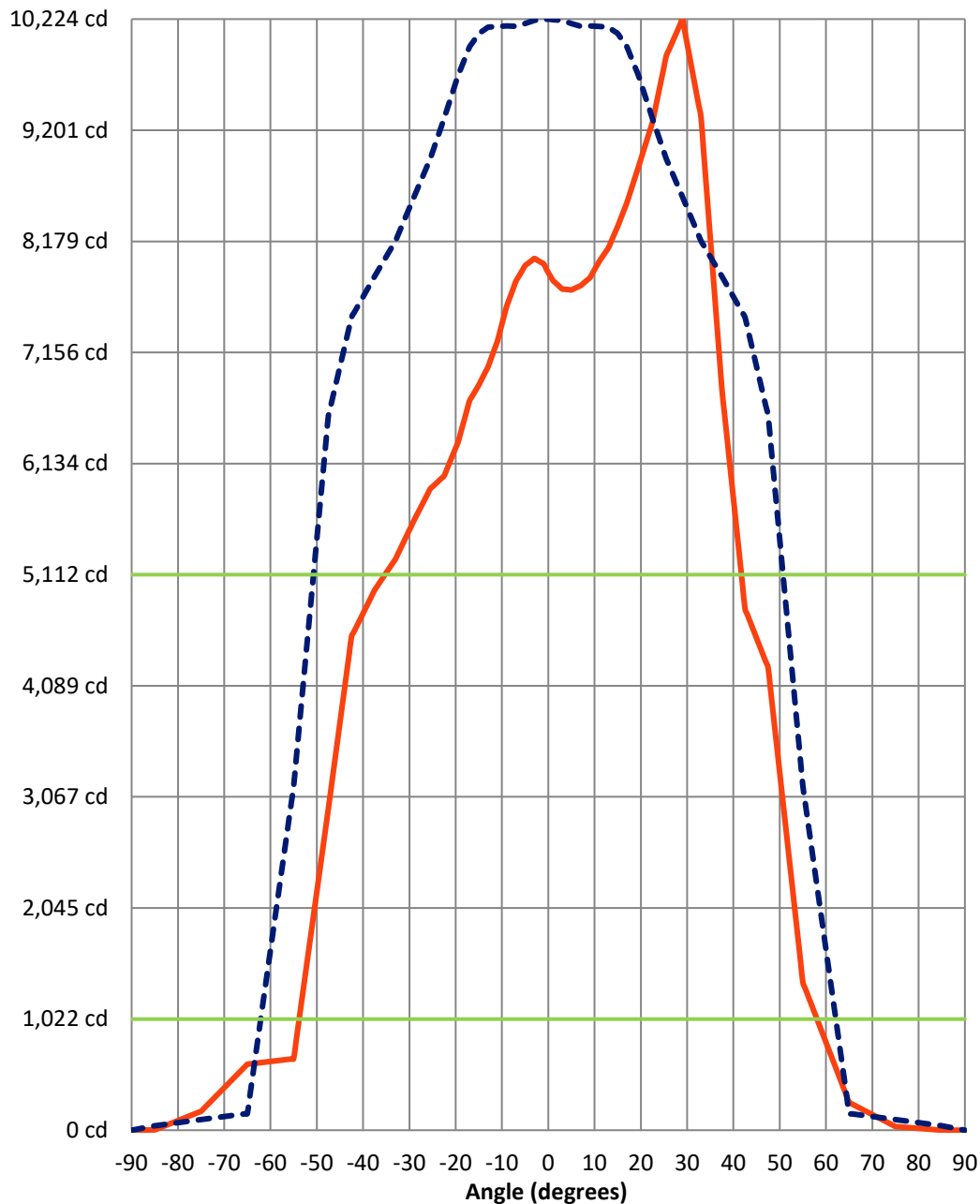
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 13390.1
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 17929.8
 Efficiency: 96.8%

Spill:
 Lumens: 598.2
 Efficiency: 3.2%

— 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°	0.0	4.4	10.3	11.6	14.7	19.1	23.5	29.2	30.7	32.3	33.8
75°	33.8	33.8	32.3	29.2	26.1	29.2	30.7	30.7	29.2	23.5	20.4
65°	254.4	254.4	255.9	251.5	241.4	235.5	229.6	238.4	255.9	270.6	252.8
55°	1360.1	1395.0	1393.7	1459.5	1485.9	1533.9	1576.5	1589.7	1592.5	1548.6	1450.8
47.5°	4254.2	4289.3	4277.4	4281.8	4252.6	4237.9	4210.0	4191.2	4179.5	4123.8	3923.6
42.5°	4799.6	4825.9	4846.3	4869.8	4881.4	4887.3	4885.8	4862.3	4798.0	4679.7	4566.9
37.5°	6823.6	6890.7	6893.6	6895.1	6864.4	6842.7	6855.6	6814.6	6750.5	6642.1	6452.0
33°	9318.4	9328.5	9363.6	9360.8	9363.6	9299.3	9314.0	9256.9	9156.0	9039.0	8859.3
29°	10223.5	10217.6	10211.9	10182.7	10157.7	10160.5	10156.1	10148.9	10090.5	9967.6	9702.9
25.5°	9885.8	9863.8	9855.0	9805.4	9780.4	9812.7	9825.8	9812.7	9761.5	9622.6	9363.6
22.5°	9273.0	9256.9	9242.2	9223.1	9219.0	9232.1	9233.5	9233.5	9207.1	9107.7	8892.8
19.5°	8866.3	8856.2	8850.5	8831.4	8831.4	8840.2	8829.8	8799.1	8755.4	8682.1	8508.3
17°	8536.0	8527.2	8518.4	8510.9	8499.5	8499.5	8503.7	8473.2	8430.6	8356.0	8195.1
15°	8316.5	8306.4	8310.8	8297.6	8300.7	8287.3	8280.0	8261.2	8220.1	8127.9	7978.7
13°	8119.2	8114.8	8122.2	8113.2	8116.3	8102.9	8087.1	8076.6	8044.5	7958.3	7823.8
11°	7993.4	7987.5	7984.4	7987.5	7986.2	7984.4	7967.1	7945.1	7902.8	7812.1	7693.6
9°	7844.2	7838.2	7841.3	7845.7	7844.2	7842.8	7831.2	7816.5	7782.9	7711.2	7617.4
7°	7771.1	7775.5	7771.1	7776.8	7776.8	7778.5	7790.2	7800.3	7816.5	7815.0	7733.1
5°	7731.6	7733.1	7733.1	7740.3	7747.6	7766.7	7810.6	7869.0	7946.7	8009.6	7937.9
3°	7740.3	7738.8	7747.6	7762.3	7785.8	7825.3	7904.3	8009.6	8149.9	8233.3	8167.5
1°	7819.4	7823.8	7851.6	7880.8	7915.7	7953.9	8021.3	8108.9	8262.5	8354.7	8432.1
0°	7891.1	7901.2	7913.1	7951.0	7975.8	8009.6	8051.8	8122.2	8261.2	8344.4	8462.7
-1°	7971.5	7962.7	7983.3	8000.9	8016.7	8041.7	8066.5	8117.6	8233.3	8299.1	8359.1
-3°	8021.3	8028.5	8031.4	8032.9	8051.8	8051.8	8053.3	8090.0	8151.4	8170.3	8050.5
-5°	7955.2	7958.3	7952.6	7953.9	7967.1	7964.2	7940.7	7958.3	7952.6	7894.0	7768.2
-7°	7810.6	7815.0	7806.2	7801.8	7810.6	7769.8	7728.7	7714.0	7658.5	7597.2	7500.5
-9°	7579.5	7598.3	7572.2	7569.2	7550.3	7515.2	7465.6	7443.4	7389.4	7336.7	7256.4
-11°	7257.9	7284.1	7268.0	7276.8	7274.0	7274.0	7246.1	7228.7	7173.0	7104.3	7019.4
-13°	7025.3	7041.5	7035.6	7038.5	7050.3	7069.2	7048.6	7034.1	6977.0	6905.5	6823.6
-15°	6857.2	6876.0	6874.5	6873.2	6884.8	6899.5	6883.5	6865.9	6808.9	6735.8	6642.1
-17°	6712.3	6722.6	6727.0	6722.6	6721.1	6721.1	6703.5	6684.7	6628.9	6549.9	6444.8
-19.5°	6329.1	6343.8	6346.9	6343.8	6341.0	6342.3	6348.2	6324.7	6288.3	6238.7	6162.5
-22.5°	6020.7	6023.6	6026.4	6029.5	6029.5	6032.4	6031.1	6013.3	5984.1	5949.0	5865.6
-25.5°	5900.9	5902.2	5903.5	5905.1	5897.8	5896.3	5878.7	5853.9	5816.0	5780.8	5697.4
-29°	5611.2	5618.4	5620.0	5614.0	5612.7	5598.0	5571.7	5533.7	5495.7	5462.2	5380.1
-33°	5255.9	5263.1	5261.6	5248.4	5247.1	5223.6	5191.5	5149.2	5103.5	5043.8	4950.3
-37.5°	4970.7	4972.1	4970.7	4960.4	4953.0	4934.1	4901.8	4858.2	4801.1	4735.2	4645.9
-42.5°	4540.8	4540.8	4518.6	4498.2	4479.3	4436.8	4416.3	4385.8	4358.0	4336.0	4233.5
-47.5°	2959.7	2952.6	2924.8	2940.8	2933.5	2921.7	2930.5	2919.1	2892.5	2861.8	2800.3
-55°	658.0	659.5	675.6	713.7	746.0	763.3	757.6	718.1	719.5	753.0	705.0
-65°	606.9	608.4	611.2	615.6	615.6	617.2	631.7	649.2	659.5	678.6	694.6
-75°	174.0	176.9	178.4	175.4	172.7	176.9	182.8	178.4	179.8	179.8	163.7
-85°	3.1	7.2	14.7	20.4	24.8	30.7	34.9	39.5	40.8	40.8	40.8
-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):

	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°	33.8	33.8	33.8	33.8	33.8	33.8	32.3	32.3	32.3	32.3	32.3
75°	20.4	23.5	27.9	39.5	40.8	39.5	29.2	30.7	32.3	30.7	32.3
65°	198.8	125.8	80.5	63.0	52.7	63.0	58.4	49.6	42.6	30.7	30.7
55°	1317.5	320.2	308.6	1017.7	307.1	901.0	241.4	143.3	67.2	30.7	32.3
47.5°	3748.3	3546.3	3360.4	3133.9	2905.7	2758.0	2224.4	250.2	84.7	36.7	33.8
42.5°	4409.1	4186.8	4072.6	3857.8	3604.7	3612.2	3391.4	277.9	90.6	49.6	34.9
37.5°	6250.1	6022.1	5762.0	5511.8	5236.8	5176.8	4808.3	311.7	97.9	65.8	36.7
33°	8594.6	8176.2	7812.1	7487.5	7088.3	6801.6	5902.2	2522.7	124.2	81.9	38.0
29°	9309.6	8938.0	8587.1	8182.2	7857.3	7480.0	6572.1	3166.2	153.6	97.9	40.8
25.5°	9028.7	8732.0	8433.5	8101.6	7873.6	7619.0	6822.1	3606.3	181.5	112.6	43.9
22.5°	8577.0	8286.0	8044.5	7816.5	7674.7	7481.6	6677.2	3885.6	204.6	125.8	45.2
19.5°	8198.2	7934.8	7728.7	7563.4	7499.1	7268.0	6433.1	4104.9	231.1	137.4	48.3
17°	7918.8	7684.8	7513.8	7420.1	7357.1	7028.1	6254.7	4276.1	254.4	146.2	49.6
15°	7734.6	7528.3	7396.9	7327.9	7230.1	6830.8	6130.3	4404.7	274.8	152.1	49.6
13°	7619.0	7458.1	7360.2	7244.5	7067.6	6640.8	6028.0	4526.1	292.6	156.5	51.4
11°	7538.4	7421.7	7327.9	7129.1	6880.7	6513.5	5963.7	4633.0	305.5	159.3	51.4
9°	7493.2	7376.2	7244.5	6988.9	6737.1	6427.2	5941.7	4733.7	315.8	162.4	52.7
7°	7559.1	7398.2	7202.2	6911.4	6640.8	6402.4	5943.0	4811.4	321.8	163.7	52.7
5°	7676.0	7453.7	7203.7	6836.8	6567.5	6386.2	5946.1	4869.8	321.8	165.3	52.7
3°	7820.7	7512.3	7205.3	6762.1	6504.7	6367.3	5949.0	4906.4	323.1	165.3	52.7
1°	7987.5	7510.8	7175.9	6694.8	6446.3	6338.1	5937.3	4919.4	317.4	162.4	52.7
0°	8005.0	7480.0	7139.4	6659.6	6414.0	6318.8	5927.0	4921.1	315.8	160.9	52.7
-1°	7967.1	7428.9	7096.8	6624.7	6378.9	6297.1	5918.2	4919.4	315.8	159.3	52.7
-3°	7674.7	7298.8	6991.7	6548.6	6292.7	6237.1	5897.8	4897.7	315.8	155.0	52.7
-5°	7461.2	7157.0	6867.3	6444.8	6180.1	6134.6	5857.0	4855.1	317.4	152.1	51.4
-7°	7263.6	6994.6	6715.4	6314.6	6055.9	6004.5	5788.1	4792.3	315.8	150.6	51.4
-9°	7064.8	6828.0	6547.0	6180.1	5927.0	5845.2	5697.4	4703.0	311.7	147.7	51.4
-11°	6864.4	6645.2	6374.5	6039.6	5805.6	5697.4	5587.7	4590.4	305.5	146.2	49.6
-13°	6678.7	6460.8	6204.9	5911.0	5687.1	5561.4	5473.8	4457.4	298.3	143.3	48.3
-15°	6477.0	6257.6	6035.2	5783.7	5578.9	5425.5	5359.4	4306.8	286.6	141.8	46.7
-17°	6260.4	6039.6	5840.8	5640.4	5456.2	5301.1	5242.7	4137.2	274.8	140.5	46.7
-19.5°	5981.2	5785.2	5620.0	5466.3	5290.7	5149.2	5099.4	3894.4	255.9	135.9	45.2
-22.5°	5681.4	5485.4	5353.7	5236.8	5086.2	4985.2	4980.8	3597.5	229.6	131.7	42.6
-25.5°	5529.3	5365.6	5230.8	5068.6	4913.5	4865.4	4858.2	3280.1	206.3	124.2	40.8
-29°	5235.4	5102.2	4979.5	4796.7	4657.8	4665.0	4672.3	2856.1	188.5	115.4	38.0
-33°	4822.8	4713.3	4587.5	4415.0	4321.3	4341.9	4321.3	2307.6	181.5	101.0	36.7
-37.5°	4528.9	4406.0	4255.7	4077.3	3944.0	3947.1	3834.3	318.9	174.0	83.4	34.9
-42.5°	4102.1	4065.4	3868.1	3716.0	3490.8	3307.8	2943.9	311.7	168.1	63.0	33.8
-47.5°	2747.9	2704.0	2658.8	2562.2	2385.1	2083.9	1593.9	271.9	159.3	42.6	33.8
-55°	726.9	710.7	760.5	709.1	615.6	301.3	288.2	163.7	133.2	32.3	32.3
-65°	718.1	691.6	492.7	259.0	188.5	207.6	266.0	168.1	63.0	32.3	32.3
-75°	120.1	73.1	43.9	48.3	59.9	89.1	86.3	43.9	34.9	32.3	32.3
-85°	40.8	39.5	39.5	38.0	36.7	36.7	34.9	33.8	33.8	32.3	32.3
-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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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)