

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: P393782

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

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393782  
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-VG  
Description: FLOODLIGHT WITH WIRE GUARD  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A	NEMA Type: 6H x 6V
Luminaire Lumens: 22031 lumens	Max Intensity: 12364.4 candela
Efficiency: N/A	Max Intensity Angle: 0°H x 29°V
Efficacy: 119.7 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: 14591.3 lumens	Field Lumens: 21093 lumens
Beam Efficiency: 66.2%	Field Efficiency: 95.7%

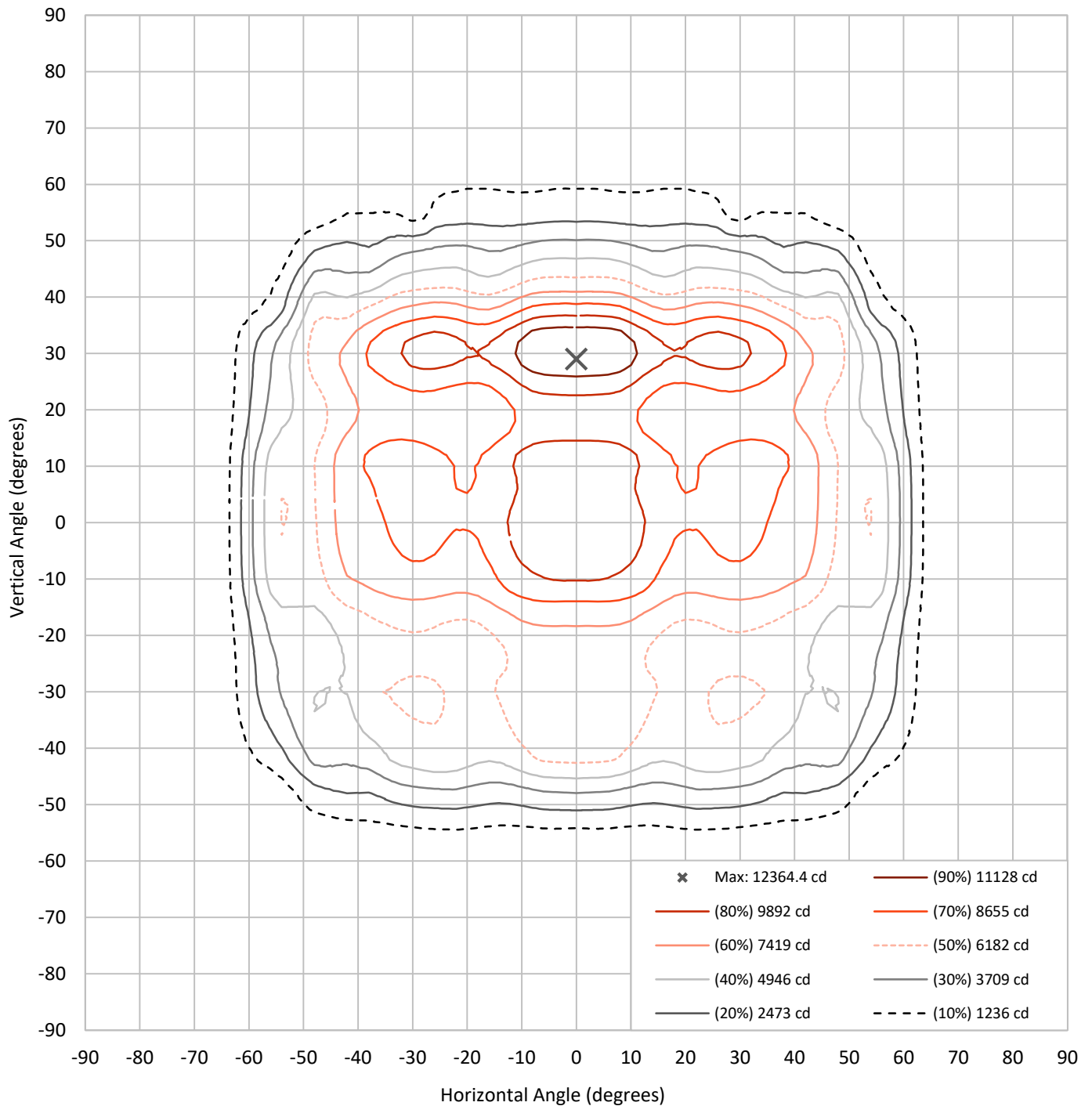
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot

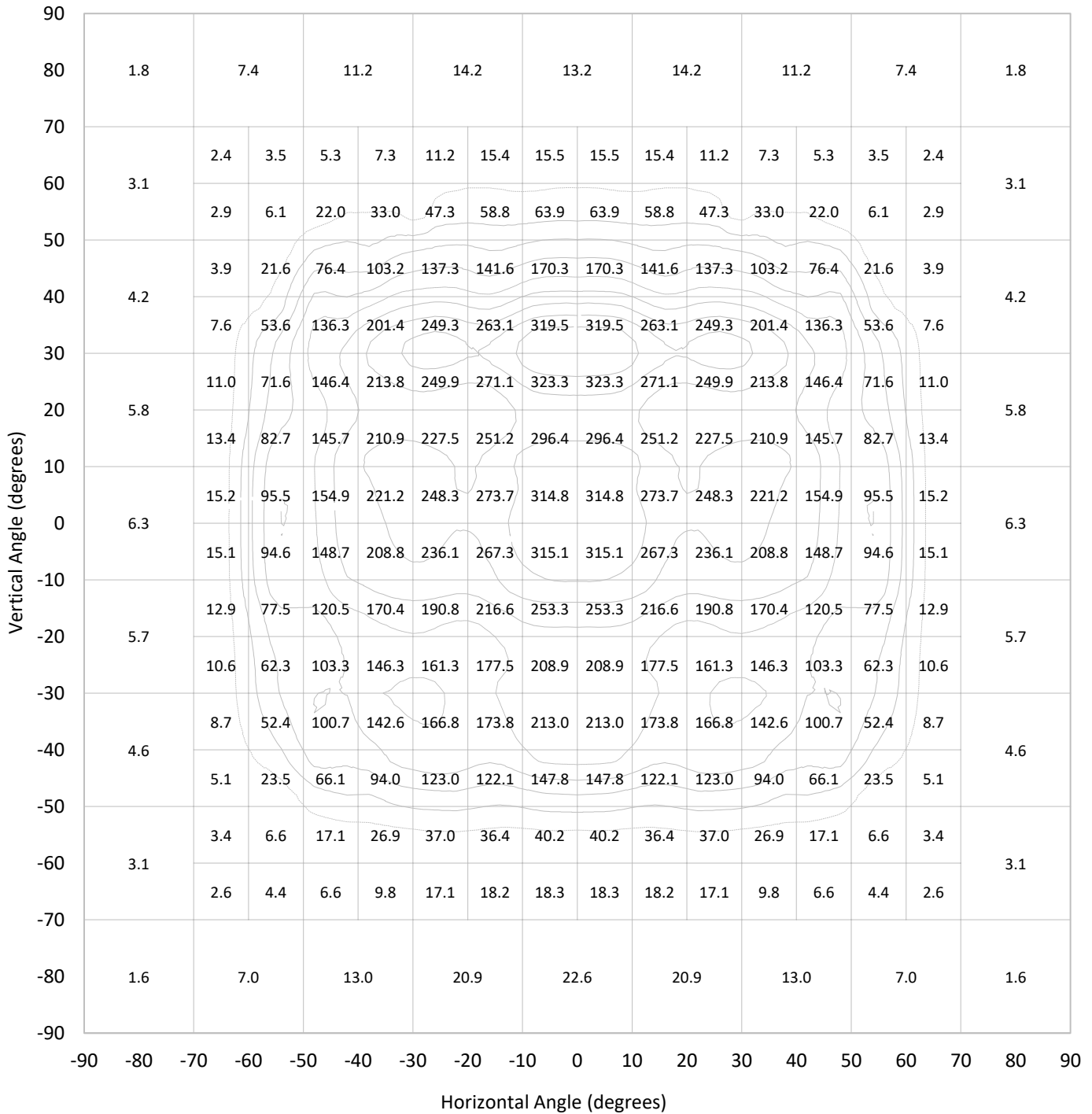




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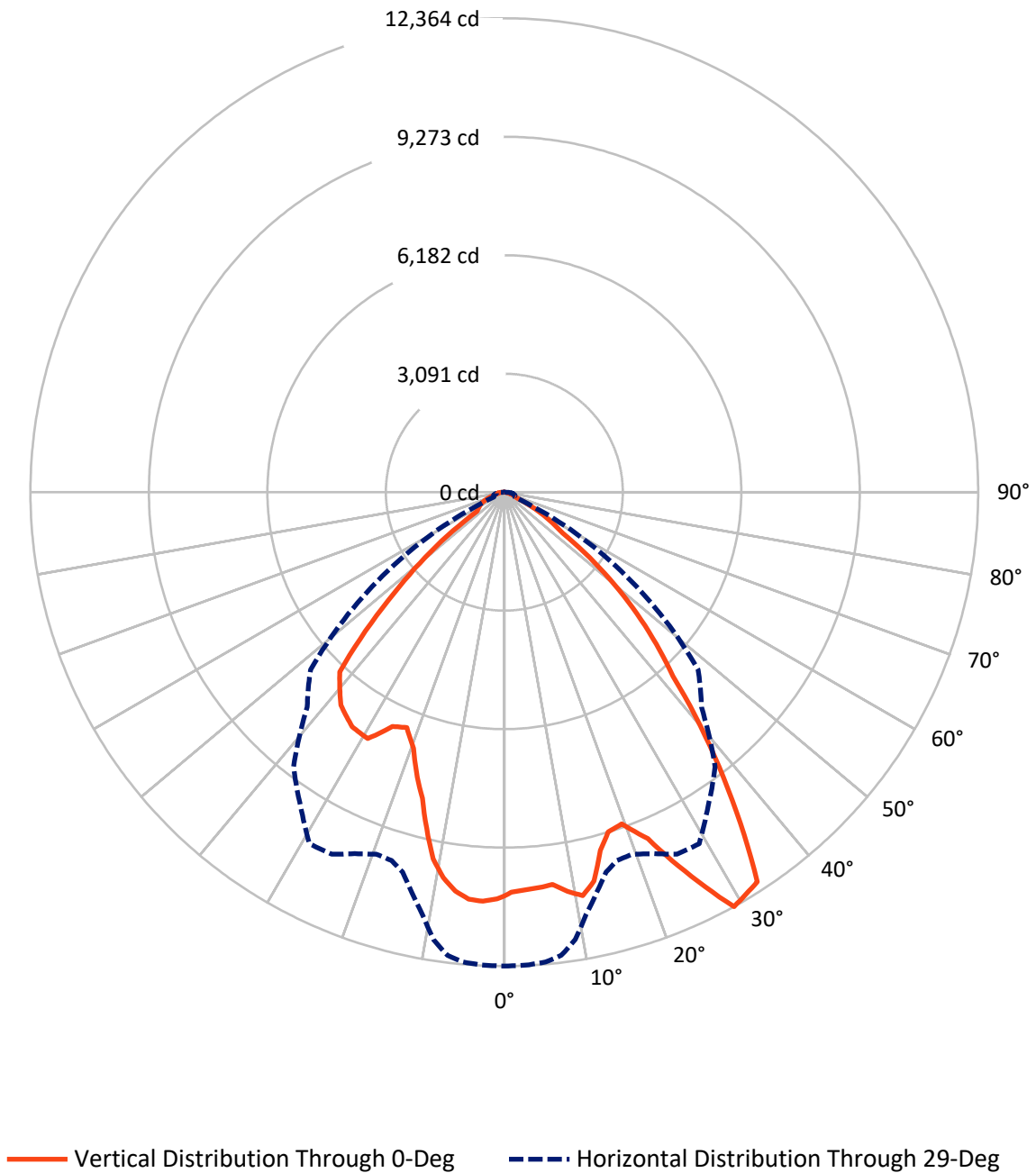
### Lumen Table



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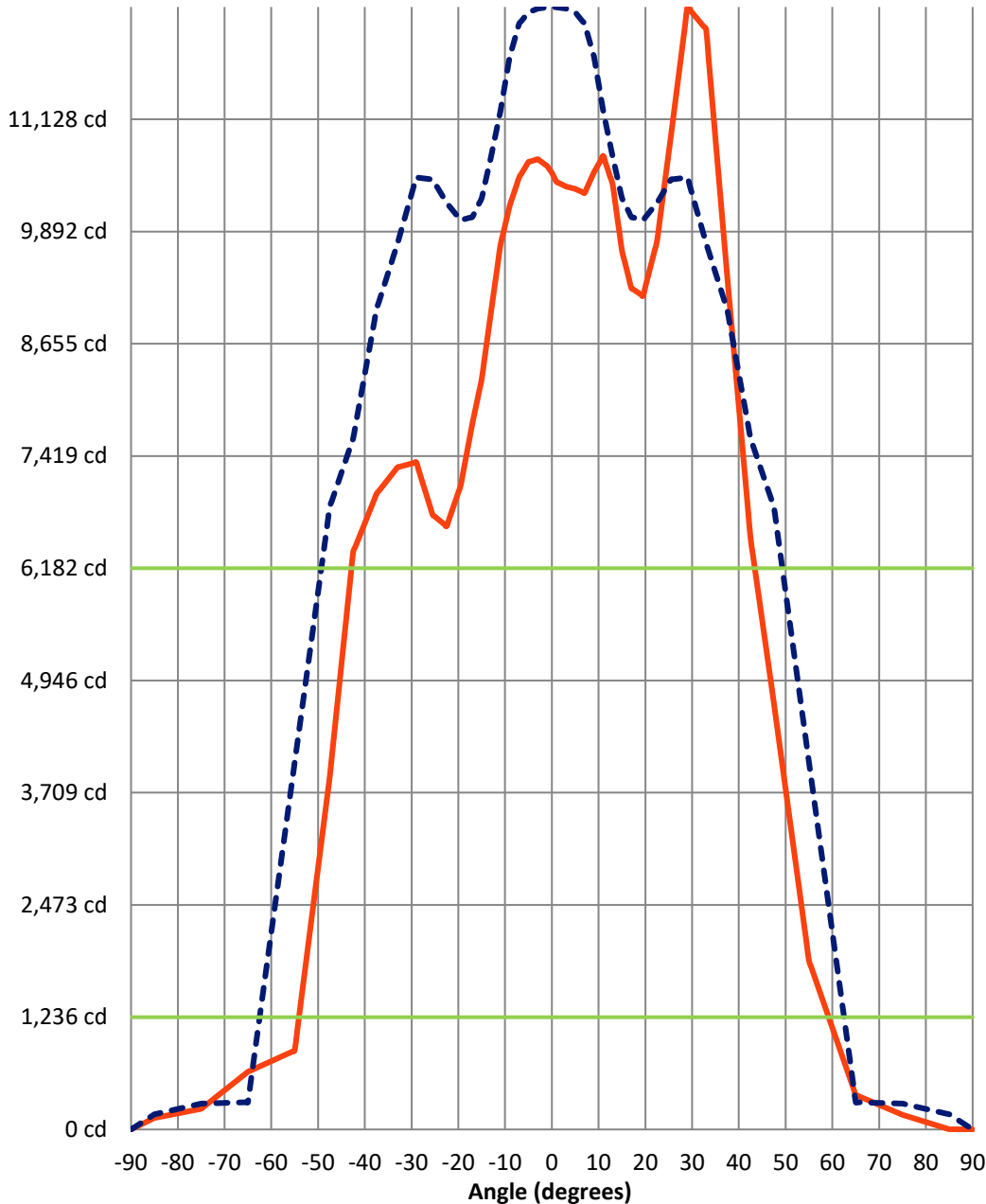
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 98.6°  
 V Angle: 86.3°  
 Lumens: 14591.3  
 Efficiency: 66.2%

**Field:**  
 H Angle: 125°  
 V Angle: 113.3°  
 Lumens: 21093  
 Efficiency: 95.7%

**Spill:**  
 Lumens: 938  
 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	8.6	43.5	53.7	57.3	64.3	78.1	88.3	100.5	111.0	118.0
75°	161.2	161.2	161.2	161.2	156.3	152.9	156.3	147.4	149.2	147.4	140.6
65°	380.0	380.0	369.8	348.7	329.7	333.1	345.4	364.4	402.7	378.4	373.0
55°	1858.5	1877.6	1884.6	1848.1	1763.2	1742.4	1726.5	1751.0	1848.1	1851.5	1889.8
47.5°	4694.3	4747.9	4742.7	4702.9	4663.0	4400.8	4230.7	3958.3	3838.7	3937.7	4191.1
42.5°	6514.5	6536.9	6544.2	6545.8	6512.7	6259.6	5985.3	5554.8	5259.7	5176.6	5485.5
37.5°	9403.7	9464.6	9471.7	9344.8	9301.3	9009.9	8477.0	8043.4	7616.5	7507.1	7696.4
33°	12118.0	12118.0	12112.8	12060.7	11968.8	11559.1	10911.9	10433.0	9895.1	9613.9	9704.0
29°	12364.4	12360.8	12347.0	12305.6	12178.7	11819.6	11217.4	10717.6	10259.5	10051.1	10016.5
25.5°	10955.4	10939.8	10908.5	10859.8	10771.3	10485.0	9980.0	9532.3	9088.0	8864.3	8831.2
22.5°	9785.8	9776.9	9782.1	9716.2	9674.5	9488.8	9105.5	8704.6	8317.6	8050.4	7942.8
19.5°	9181.8	9188.5	9195.6	9180.2	9141.9	9001.3	8652.5	8260.3	7911.3	7628.5	7503.7
17°	9268.5	9275.5	9272.2	9263.3	9223.4	9065.4	8725.2	8345.2	7998.3	7675.4	7519.3
15°	9679.7	9693.8	9683.4	9657.1	9608.6	9426.6	9075.8	8666.4	8336.6	7953.2	7793.3
13°	10412.1	10422.5	10412.1	10372.3	10299.1	10122.2	9775.3	9312.0	8957.8	8492.9	8286.4
11°	10724.4	10726.2	10722.6	10682.7	10613.4	10452.0	10075.4	9610.5	9247.7	8782.5	8532.7
9°	10542.3	10557.7	10547.6	10514.5	10467.6	10327.0	9973.0	9548.0	9214.9	8782.5	8572.6
7°	10315.0	10325.4	10321.7	10306.4	10268.1	10153.5	9841.0	9433.4	9155.7	8734.1	8550.2
5°	10360.0	10373.8	10372.3	10365.2	10325.4	10209.2	9917.5	9523.5	9294.5	8871.1	8664.5
3°	10387.9	10400.1	10413.9	10405.1	10387.9	10315.0	10054.8	9695.4	9466.4	9016.7	8760.1
1°	10438.4	10455.6	10478.0	10473.1	10479.8	10415.5	10163.9	9768.3	9499.3	9020.3	8838.2
0°	10538.7	10549.1	10573.3	10559.5	10545.7	10478.0	10200.4	9794.3	9488.8	8996.1	8848.7
-1°	10611.6	10618.7	10618.7	10597.8	10562.9	10483.2	10188.4	9770.1	9437.0	8912.7	8673.4
-3°	10687.9	10696.8	10663.7	10597.8	10549.1	10448.6	10139.7	9693.8	9327.6	8767.1	8461.6
-5°	10656.9	10663.7	10649.9	10542.3	10464.2	10356.4	10037.3	9582.6	9192.2	8629.9	8315.8
-7°	10486.6	10500.4	10450.4	10377.5	10243.9	10117.0	9778.7	9315.4	8910.9	8393.9	8114.5
-9°	10178.0	10214.2	10146.7	10091.0	9922.7	9776.9	9447.4	9023.9	8650.7	8184.0	7921.7
-11°	9740.7	9776.9	9751.1	9749.0	9624.3	9504.7	9216.4	8819.0	8459.8	8006.9	7739.7
-13°	9008.3	9058.6	9046.6	9105.5	8994.3	8921.3	8645.5	8314.2	7996.5	7550.3	7340.7
-15°	8265.5	8222.3	8222.3	8249.9	8175.2	8098.8	7842.0	7559.2	7251.9	6868.5	6674.2
-17°	7774.3	7746.7	7750.1	7764.2	7699.6	7626.9	7390.9	7102.6	6766.1	6405.2	6190.0
-19.5°	7092.2	7085.4	7088.8	7125.3	7090.7	7043.8	6830.5	6556.2	6252.5	5934.8	5740.5
-22.5°	6644.5	6651.5	6674.2	6669.0	6653.4	6613.5	6410.4	6170.8	5868.9	5596.5	5400.4
-25.5°	6771.3	6764.3	6776.6	6746.9	6722.6	6609.9	6349.7	6120.7	5791.0	5586.1	5442.0
-29°	7349.3	7342.2	7349.3	7328.4	7309.4	7155.0	6835.7	6577.1	6178.0	5988.7	5842.9
-33°	7293.8	7292.0	7293.8	7278.2	7232.9	7026.6	6663.8	6318.4	5917.6	5704.0	5679.8
-37.5°	7000.3	6995.1	6998.7	6976.1	6903.1	6650.0	6288.7	5889.7	5572.2	5452.4	5561.8
-42.5°	6358.3	6337.4	6328.8	6280.4	6178.0	5844.7	5509.7	5127.9	4961.2	4977.1	5239.1
-47.5°	3885.3	3847.3	3809.0	3778.0	3691.0	3442.8	3331.9	3160.0	3167.0	3259.0	3418.6
-55°	869.4	878.0	905.8	911.0	890.2	862.6	820.7	806.9	834.7	926.7	952.7
-65°	635.2	642.0	654.2	629.8	586.5	579.5	602.2	645.6	659.5	650.9	666.2
-75°	227.4	230.8	236.0	229.2	215.4	227.4	234.4	223.7	220.3	217.0	220.3
-85°	126.6	128.4	128.4	123.5	130.2	126.6	121.4	125.0	128.4	138.8	135.4
-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°	123.5	119.8	105.7	99.0	105.7	119.8	121.4	114.6	95.6	71.1	53.7
75°	137.0	144.0	150.8	156.3	161.2	150.8	152.9	164.9	161.2	130.2	72.9
65°	352.4	265.4	206.5	189.1	178.7	178.7	175.3	197.9	192.7	159.7	91.9
55°	1740.6	1705.9	378.4	1147.0	1167.8	1124.3	326.1	272.4	227.4	177.1	112.8
47.5°	4289.8	4192.7	4027.8	3656.4	2727.9	3102.7	2870.4	359.2	234.4	196.1	128.4
42.5°	5820.2	5778.8	5653.8	5382.9	4300.2	4059.1	4622.9	1121.2	232.6	217.0	138.8
37.5°	8073.1	8234.3	7994.7	7567.8	6648.2	5660.8	6160.6	1714.5	244.8	241.2	149.2
33°	10163.9	10360.0	10158.7	9622.5	8650.7	7151.3	6787.0	3562.6	274.2	265.4	158.1
29°	10207.2	10464.2	10486.6	9761.3	9032.5	7611.3	6856.2	4043.4	300.0	284.7	166.7
25.5°	9027.3	9280.5	9299.8	8912.7	8295.0	7354.5	6415.6	4112.7	322.7	300.0	171.6
22.5°	8064.2	8321.0	8444.2	8216.8	7876.7	7116.7	5883.0	4281.2	347.2	312.3	177.1
19.5°	7583.4	7828.2	8038.2	7937.6	7729.3	7021.1	5625.9	4504.9	373.0	321.1	182.3
17°	7552.4	7805.6	8078.0	8126.7	7916.5	7168.8	5669.4	4758.4	394.1	326.1	185.7
15°	7809.2	8098.8	8423.4	8548.4	8282.7	7477.7	5823.8	5107.4	400.8	331.5	187.5
13°	8322.6	8716.6	9108.9	9237.3	8773.9	7942.8	6086.1	5577.5	406.0	338.3	189.1
11°	8600.5	9053.4	9492.2	9504.7	8923.2	8180.4	6203.8	5887.9	407.6	347.2	190.9
9°	8647.3	9072.4	9449.0	9367.5	8791.4	8184.0	6179.6	6039.0	409.7	353.9	192.7
7°	8607.2	9011.7	9294.5	9183.3	8610.9	8159.5	6136.1	6111.9	409.7	359.2	192.7
5°	8727.0	9131.5	9353.7	9155.7	8557.0	8173.6	6141.3	6181.2	406.0	362.5	194.3
3°	8796.6	9187.0	9358.6	9065.4	8475.4	8144.2	6122.3	6210.9	402.7	361.0	194.3
1°	8817.4	9150.5	9286.0	8951.0	8378.3	8092.1	6078.8	6214.2	397.2	353.9	194.3
0°	8772.4	9105.5	9232.0	8904.1	8336.6	8064.2	6061.6	6214.2	407.6	350.6	194.3
-1°	8664.5	9036.2	9178.4	8865.9	8302.0	8038.2	6047.8	6214.2	400.8	345.4	194.3
-3°	8468.7	8872.9	9053.4	8784.3	8216.8	7960.0	6021.5	6200.4	400.8	338.3	194.3
-5°	8321.0	8709.6	8900.5	8659.6	8105.9	7828.2	5960.8	6162.2	399.3	334.9	192.7
-7°	8124.9	8475.4	8695.8	8499.7	7975.6	7656.3	5868.9	6087.7	394.1	334.9	192.7
-9°	7918.6	8230.6	8463.2	8295.0	7809.2	7437.8	5768.4	5983.5	390.4	334.9	190.9
-11°	7727.4	8000.1	8215.3	8059.0	7611.3	7179.2	5613.9	5782.2	385.2	331.5	189.1
-13°	7333.6	7524.6	7711.8	7576.6	7137.5	6686.4	5308.4	5395.1	380.0	327.9	187.5
-15°	6663.8	6820.0	6969.0	6872.1	6514.5	6014.7	4874.8	4914.4	374.8	322.7	183.9
-17°	6183.0	6370.3	6519.8	6420.8	6132.7	5568.9	4564.1	4558.6	371.4	317.5	182.3
-19.5°	5785.6	6023.6	6198.6	6092.9	5860.3	5216.5	4322.6	4250.0	366.2	314.1	178.7
-22.5°	5438.6	5681.6	5849.9	5787.4	5662.6	4990.9	4300.2	3956.7	353.9	310.7	173.5
-25.5°	5541.0	5771.8	5915.8	5870.7	5695.4	4895.6	4513.5	3772.6	343.5	307.3	170.1
-29°	5997.3	6313.2	6542.2	6250.7	6186.4	4947.4	5001.4	3705.1	334.9	300.0	163.0
-33°	6014.7	6325.2	6377.5	6165.8	6011.4	4550.0	5096.7	3309.5	327.9	286.5	156.3
-37.5°	5907.2	6094.4	6011.4	5749.1	5135.0	4242.9	4964.9	2585.5	315.7	263.8	147.4
-42.5°	5560.0	5711.1	5445.7	5166.2	4116.4	3798.6	4097.1	1648.6	308.9	236.0	137.0
-47.5°	3651.5	3554.1	3481.1	3206.9	2544.0	2609.9	2202.3	385.2	296.9	202.9	128.4
-55°	964.7	954.5	930.1	805.3	706.3	626.4	411.2	305.2	282.8	175.3	114.6
-65°	673.5	645.6	572.7	366.2	322.7	270.6	303.7	256.8	192.7	150.8	95.6
-75°	227.4	215.4	185.7	180.5	170.1	180.5	190.9	158.1	135.4	118.0	76.3
-85°	140.6	133.6	107.6	95.6	104.2	116.2	116.2	105.7	81.5	65.9	55.5
-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)