

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: P393772

Luminaire Tested: **NFFLD-C70-D-UNV-66-7030-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130629)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C70-D-UNV-66-7030-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	21779 lumens	Max Intensity:	13366.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	118.4 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		

Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	16093 lumens	Field Lumens:	21216.4 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%

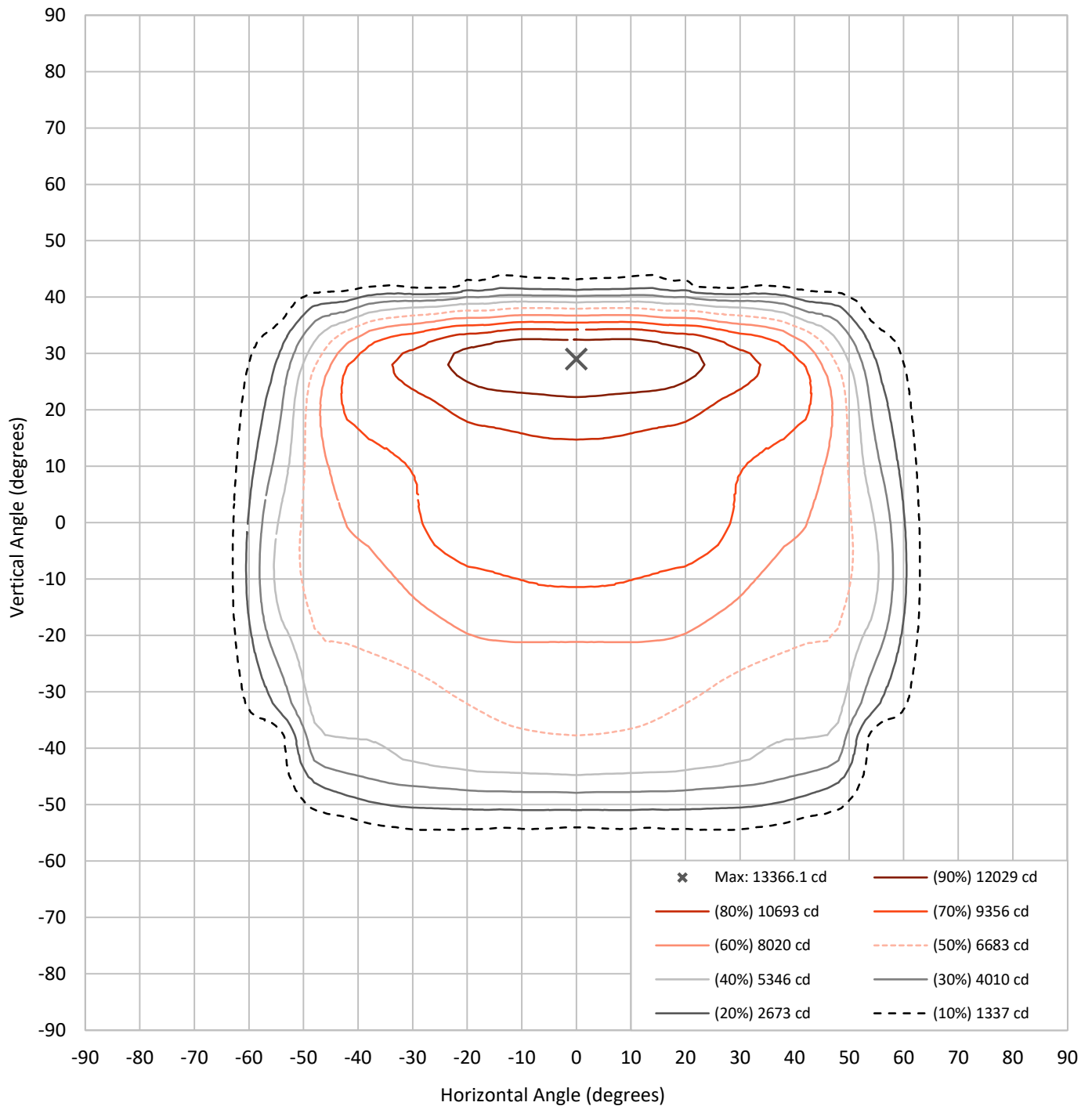
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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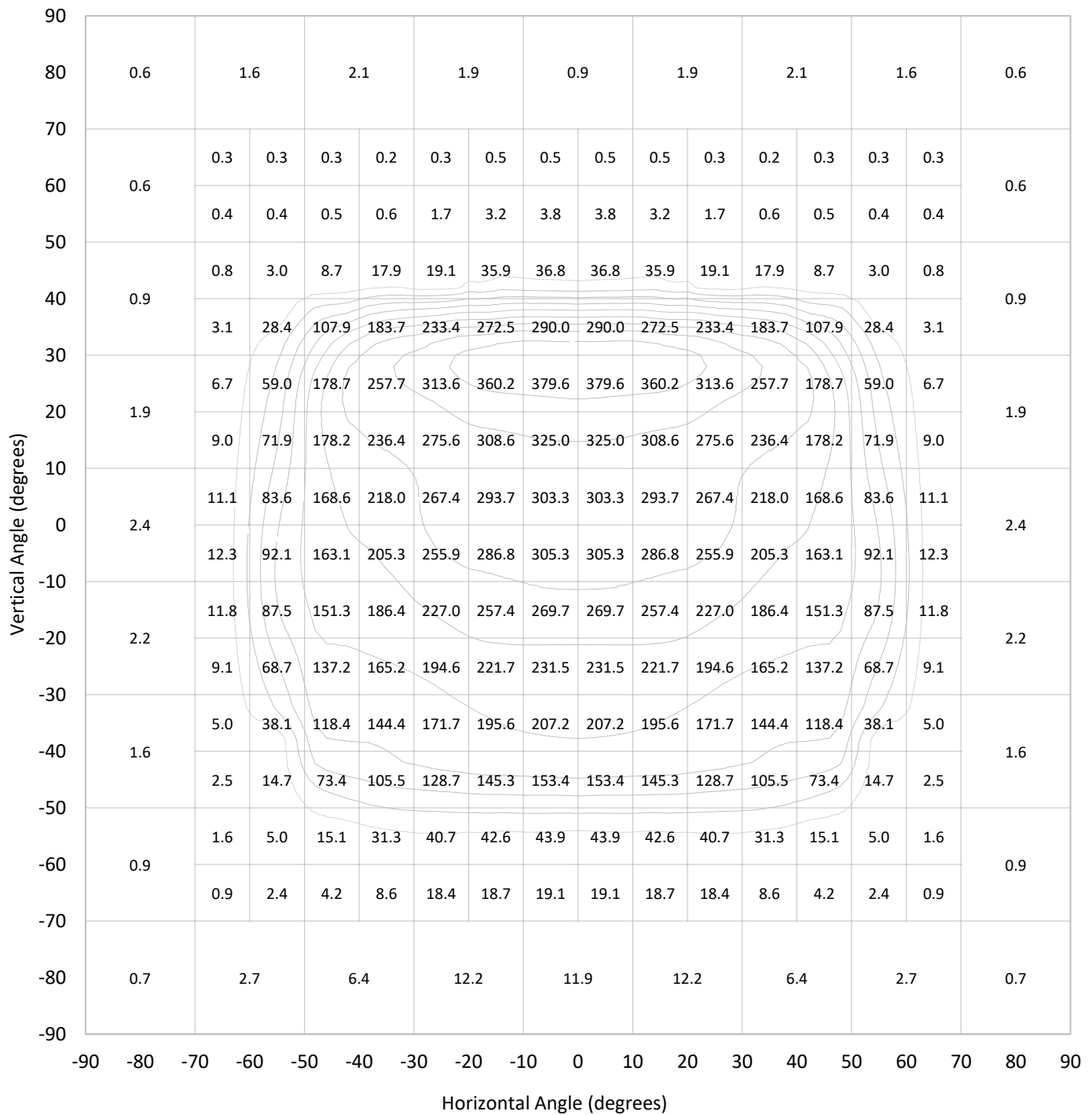
### Iso-Candela Plot





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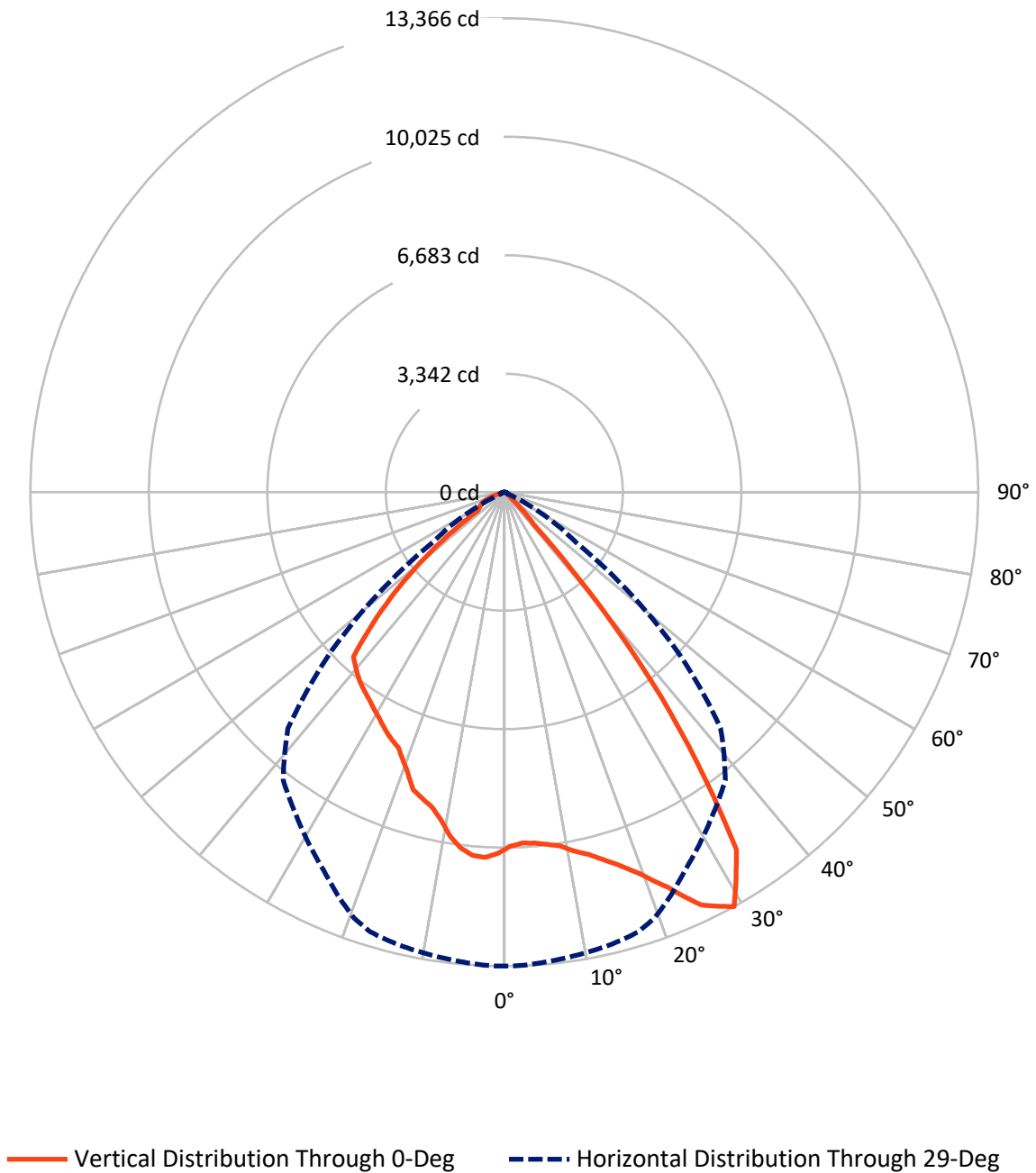
### Lumen Table



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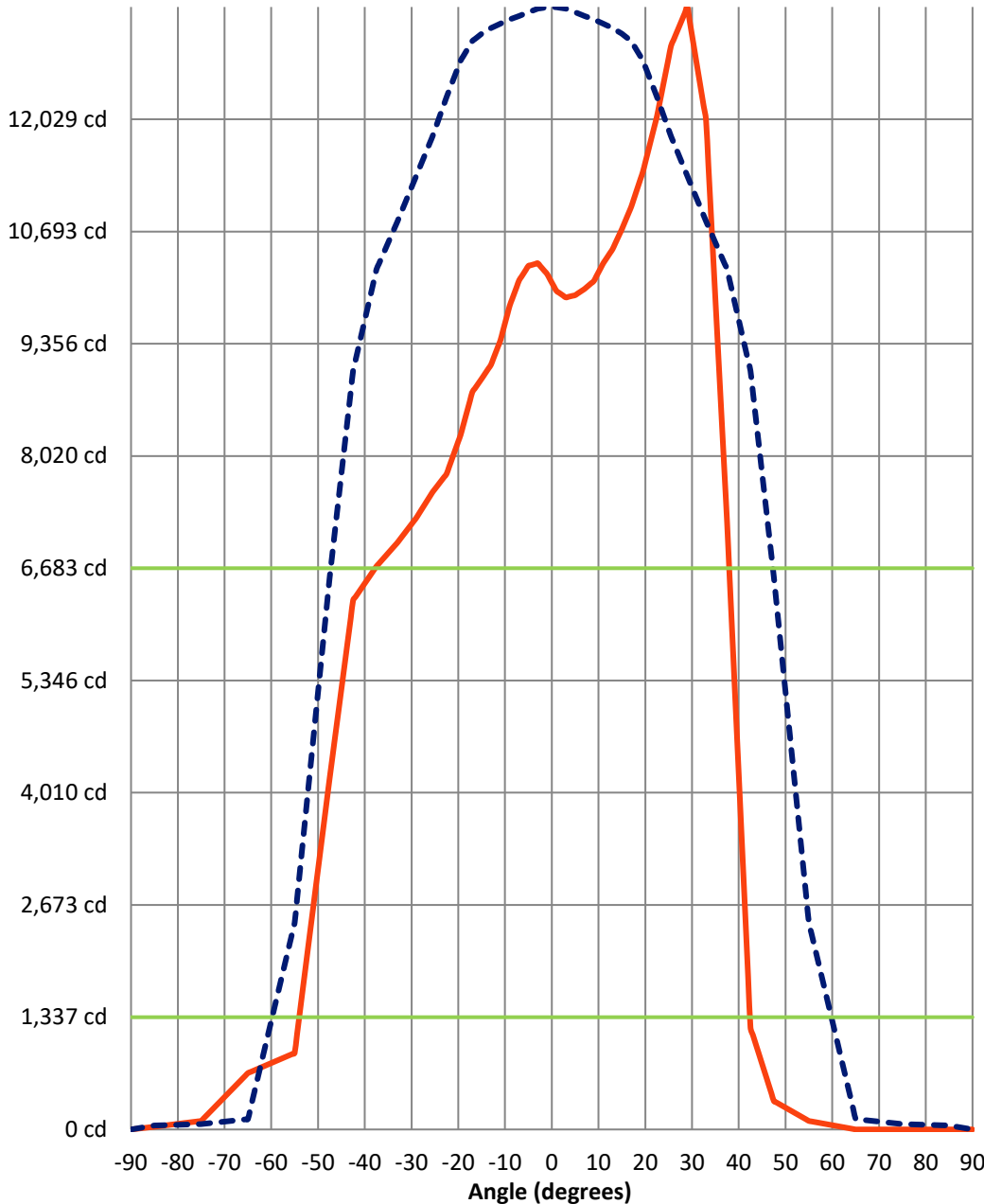
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 16093  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 21216.4  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 562.6  
 Efficiency: 2.6%

— 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	5.1	11.9	11.9	13.4	17.0	22.0	25.3	28.6	30.1	32.1
75°	0.0	1.8	5.1	8.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	0.0	0.0	3.5	5.1	6.6	6.6	8.3	8.3	8.3	8.3	6.6
55°	101.2	97.7	101.2	101.2	101.2	99.4	92.9	84.3	79.2	81.0	74.1
47.5°	338.8	340.5	337.3	330.4	327.1	323.6	316.8	310.2	295.0	288.4	283.1
42.5°	1215.4	1333.3	1305.0	1409.2	1370.5	1468.2	1611.6	1729.8	1736.4	950.8	1414.3
37.5°	7225.3	7253.8	7277.4	7344.7	7314.6	7350.0	7279.2	7132.4	6908.2	6817.2	6861.2
33°	12014.4	11960.5	11984.0	12060.1	12108.7	12166.2	12081.9	11930.1	11650.3	11454.7	11362.1
29°	13366.1	13362.9	13346.2	13303.9	13258.6	13218.1	13167.5	13115.2	13047.6	12960.1	12727.6
25.5°	12901.1	12879.1	12847.2	12778.2	12742.8	12708.8	12660.0	12611.2	12537.1	12432.6	12211.7
22.5°	12065.0	12051.5	12033.1	11973.9	11926.8	11889.6	11840.8	11818.8	11766.7	11705.9	11552.4
19.5°	11405.9	11392.5	11394.0	11365.4	11333.3	11286.2	11227.0	11173.1	11129.4	11097.5	11011.2
17°	10987.7	10967.4	10971.0	10962.6	10930.5	10876.6	10822.5	10750.1	10691.1	10655.5	10585.1
15°	10721.5	10706.1	10711.4	10692.7	10657.5	10605.1	10552.8	10488.7	10428.0	10359.0	10286.6
13°	10482.2	10466.7	10470.3	10453.3	10417.9	10377.4	10336.9	10278.0	10232.5	10166.7	10091.0
11°	10313.4	10303.3	10293.2	10283.1	10251.2	10212.5	10176.8	10128.0	10089.3	10030.3	9974.6
9°	10102.9	10109.5	10099.4	10094.3	10070.8	10037.1	10008.3	9974.6	9951.1	9917.5	9898.7
7°	10008.3	10013.6	10003.5	9998.2	9981.2	9962.8	9935.9	9915.4	9915.4	9920.8	9934.4
5°	9934.4	9939.2	9935.9	9937.5	9939.2	9930.9	9922.3	9927.3	9959.5	9986.5	9994.6
3°	9907.3	9908.9	9920.8	9932.4	9949.3	9964.5	9983.0	10013.6	10052.1	10053.8	10040.4
1°	9984.8	9981.2	10016.6	10047.3	10077.4	10101.1	10104.4	10092.8	10094.3	10075.8	10160.1
0°	10084.2	10077.4	10113.0	10128.0	10158.3	10166.7	10136.6	10107.7	10084.2	10041.9	10180.3
-1°	10186.9	10183.6	10202.3	10203.9	10219.0	10208.9	10153.3	10107.7	10058.9	9983.0	10014.9
-3°	10315.2	10318.5	10313.4	10293.2	10289.9	10239.3	10155.0	10084.2	9999.9	9883.6	9811.0
-5°	10283.1	10281.5	10263.1	10236.0	10198.8	10136.6	10030.3	9939.2	9831.4	9699.9	9629.0
-7°	10109.5	10114.6	10079.1	10060.4	9979.7	9887.1	9765.4	9656.1	9563.3	9474.0	9442.1
-9°	9809.4	9819.6	9767.4	9758.8	9642.5	9539.7	9452.2	9373.0	9323.9	9276.6	9259.9
-11°	9394.8	9408.2	9374.5	9393.0	9317.3	9278.4	9237.9	9187.3	9148.6	9109.9	9074.5
-13°	9106.6	9113.2	9098.0	9096.5	9066.1	9057.5	9037.3	9008.7	8978.3	8932.8	8885.5
-15°	8939.6	8946.4	8932.8	8924.4	8907.5	8902.4	8883.9	8847.0	8806.3	8747.3	8673.2
-17°	8779.5	8792.9	8777.9	8767.8	8750.9	8737.2	8723.8	8683.3	8629.4	8560.4	8438.9
-19.5°	8270.4	8290.4	8273.7	8270.4	8271.9	8280.3	8278.8	8246.6	8226.6	8191.0	8081.7
-22.5°	7806.7	7815.3	7811.7	7815.3	7820.3	7823.6	7820.3	7806.7	7786.7	7742.7	7629.6
-25.5°	7589.3	7594.4	7589.3	7590.8	7584.3	7579.2	7565.8	7540.2	7515.2	7469.7	7360.1
-29°	7280.9	7287.5	7286.0	7284.0	7277.4	7257.1	7228.5	7193.1	7158.0	7102.0	6997.8
-33°	6989.0	6994.3	6991.0	6978.8	6963.9	6940.4	6906.5	6859.4	6805.3	6736.2	6623.1
-37.5°	6705.8	6697.5	6699.3	6684.1	6667.1	6640.3	6606.4	6564.2	6500.2	6424.5	6316.5
-42.5°	6299.8	6264.4	6254.2	6193.5	6176.6	6107.5	6085.5	6046.8	6006.3	6014.9	5888.4
-47.5°	4189.0	4131.8	4150.3	4099.7	4131.8	4096.4	4128.5	4066.0	4076.1	4074.4	4018.7
-55°	910.3	900.2	932.3	964.2	988.0	997.8	962.7	930.5	942.4	1019.9	982.9
-65°	671.0	669.2	669.2	665.9	660.8	657.3	659.1	662.4	662.4	672.7	696.3
-75°	101.2	99.4	101.2	99.4	92.9	96.1	104.5	101.2	104.5	104.5	104.5
-85°	32.1	32.1	30.1	35.4	37.2	43.8	50.6	53.9	57.2	59.2	59.2
-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°	33.6	33.6	35.4	35.4	33.6	33.6	33.6	33.6	33.6	35.4	37.2
75°	11.9	13.4	15.2	18.5	20.2	23.5	23.5	27.1	30.1	33.6	37.2
65°	6.6	5.1	5.1	5.1	6.6	8.3	13.4	18.5	25.3	30.1	35.4
55°	60.7	40.2	18.5	17.0	17.0	15.2	13.4	15.2	25.3	30.1	35.4
47.5°	232.8	155.1	94.4	77.4	70.8	57.2	52.1	53.9	45.5	32.1	37.2
42.5°	370.9	372.4	305.1	939.1	794.2	310.2	322.1	220.9	64.0	37.2	39.0
37.5°	6786.8	6291.2	6148.0	5787.2	5305.2	3852.0	3459.1	332.2	82.7	47.1	42.3
33°	11225.5	10712.9	9981.2	9819.6	8978.3	7381.9	5307.0	1849.2	102.7	55.7	43.8
29°	12294.2	11827.4	11353.5	10814.4	10241.1	9034.0	6579.6	2461.2	123.0	64.0	47.1
25.5°	11883.0	11525.6	11122.8	10667.4	10328.6	9627.3	7481.3	2901.2	143.2	75.9	49.1
22.5°	11235.6	10890.0	10566.2	10252.9	10065.7	9639.2	7833.7	3198.0	165.2	89.3	52.1
19.5°	10736.7	10413.1	10121.1	9895.5	9821.1	9448.7	7928.1	3440.6	185.5	101.2	53.9
17°	10330.4	10053.8	9841.6	9701.7	9624.0	9175.7	7919.8	3641.2	205.7	106.3	53.9
15°	10067.5	9816.0	9666.0	9576.7	9436.8	8928.0	7868.9	3818.3	222.6	111.3	55.7
13°	9908.9	9718.4	9598.7	9463.8	9201.0	8671.7	7805.1	4003.8	234.3	114.6	55.7
11°	9819.6	9669.5	9556.7	9307.0	8946.4	8491.0	7751.3	4197.6	241.1	117.9	57.2
9°	9785.9	9632.3	9445.4	9108.1	8762.5	8366.6	7702.2	4415.2	245.9	121.4	57.2
7°	9839.8	9672.8	9391.5	8995.3	8611.0	8278.8	7666.8	4632.5	249.5	124.7	57.2
5°	9887.1	9726.7	9381.1	8875.3	8479.4	8191.0	7633.1	4846.5	252.8	128.3	59.2
3°	9920.8	9757.3	9365.9	8754.2	8366.6	8108.5	7606.0	5045.4	254.5	129.8	59.2
1°	10016.6	9740.4	9317.3	8654.7	8282.1	8048.0	7577.4	5227.5	251.2	129.8	59.2
0°	9952.6	9693.1	9268.3	8612.5	8238.3	8021.0	7564.0	5307.0	251.2	128.3	59.2
-1°	9822.8	9630.8	9211.1	8572.2	8199.6	7995.4	7557.2	5385.9	249.5	128.3	59.2
-3°	9629.0	9479.0	9091.2	8497.9	8110.3	7924.6	7538.7	5522.6	247.9	126.5	57.2
-5°	9462.3	9334.0	8963.1	8393.4	7997.2	7828.7	7489.6	5610.1	245.9	124.7	57.2
-7°	9318.9	9148.6	8784.5	8248.4	7868.9	7709.0	7437.5	5664.0	244.4	123.0	57.2
-9°	9136.7	8925.9	8555.3	8081.7	7727.5	7564.0	7365.2	5670.8	242.9	121.4	55.7
-11°	8934.5	8696.7	8332.9	7907.9	7590.8	7425.9	7272.3	5627.0	241.1	117.9	53.9
-13°	8713.7	8454.1	8120.4	7745.9	7449.4	7290.8	7172.9	5522.6	239.3	117.9	53.9
-15°	8471.0	8209.7	7902.8	7590.8	7321.1	7141.0	7058.3	5365.7	239.3	116.4	52.1
-17°	8209.7	7933.2	7668.5	7415.8	7172.9	6992.5	6926.7	5150.1	235.8	114.6	50.6
-19.5°	7859.0	7604.5	7390.2	7188.1	6965.4	6802.2	6753.2	4792.6	231.0	112.8	49.1
-22.5°	7412.2	7174.7	6999.1	6864.5	6717.7	6599.6	6589.5	4320.8	222.6	109.6	47.1
-25.5°	7162.8	6947.0	6778.5	6633.2	6520.4	6463.2	6444.5	3843.6	212.3	106.3	43.8
-29°	6835.9	6652.2	6496.9	6345.1	6247.4	6250.9	6265.9	3288.8	203.9	99.4	42.3
-33°	6473.3	6318.2	6161.4	5996.2	5891.7	5900.0	5922.0	2673.7	205.7	91.1	40.2
-37.5°	6183.4	6035.1	5847.9	5640.4	5465.1	5456.8	5382.6	362.3	210.8	79.2	39.0
-42.5°	5743.2	5682.7	5430.0	5251.1	4927.5	4637.5	4233.0	357.5	202.1	64.0	39.0
-47.5°	3922.8	3843.6	3767.7	3678.4	3380.1	2930.0	2306.1	335.5	178.6	49.1	37.2
-55°	1055.3	1048.4	1083.9	991.3	817.5	315.2	325.4	210.8	117.9	39.0	37.2
-65°	745.1	755.2	593.5	315.2	220.9	155.1	220.9	126.5	64.0	37.2	37.2
-75°	104.5	96.1	70.8	77.4	81.0	81.0	75.9	49.1	40.2	39.0	37.2
-85°	59.2	59.2	57.2	55.7	53.9	50.6	49.1	45.5	43.8	40.2	39.0
-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)