

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: 765545_400MP

Luminaire Tested: **CFB40PXX76**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 765545_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CFB40PXX76
Description: 400W MH 7H X 6V FLOODLIGHT
Light Source: 400 WATT PULSE-START CLEAR ED-37 UNIVERSAL BURN
Ballast/Driver: -

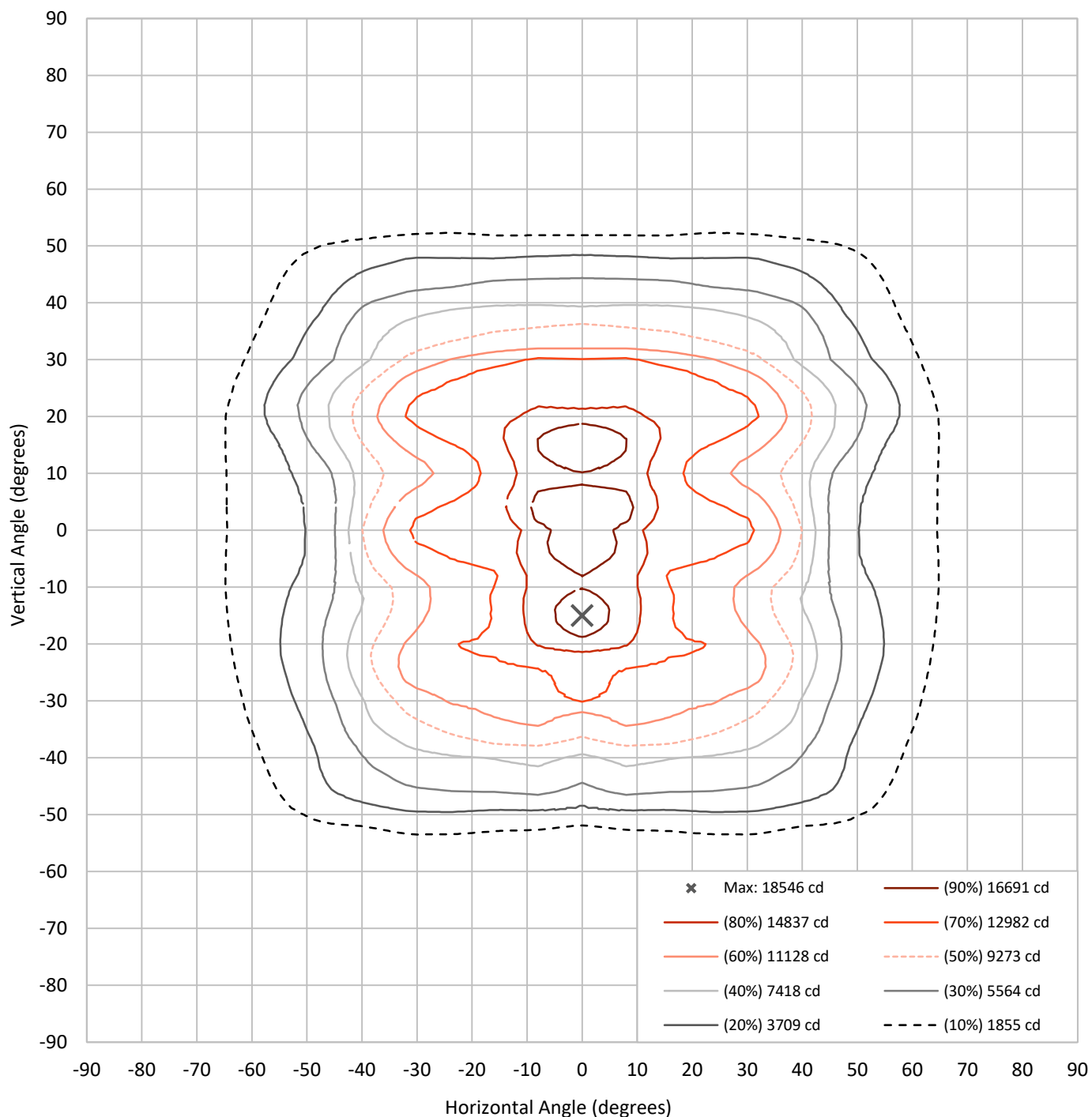
Summary

Lumens per Lamp:	42000 (1 lamp)	NEMA Type:	6H x 6V
Luminaire Lumens:	29092.2 lumens	Max Intensity:	18546 candela
Efficiency:	69.3%	Max Intensity Angle:	0°H x -15°V
Efficacy:	64.4 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 1.24' x L: 1.3' x H: 0.6')		
Beam Angle (50%):	70.1°H x 72.7°V	Field Angle (10%):	128.9°H x 103.8°V
Beam Lumens:	19400.1 lumens	Field Lumens:	27962.2 lumens
Beam Efficiency:	66.7%	Field Efficiency:	96.1%
Input Watts (W):	452		
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:	28.75 FT		



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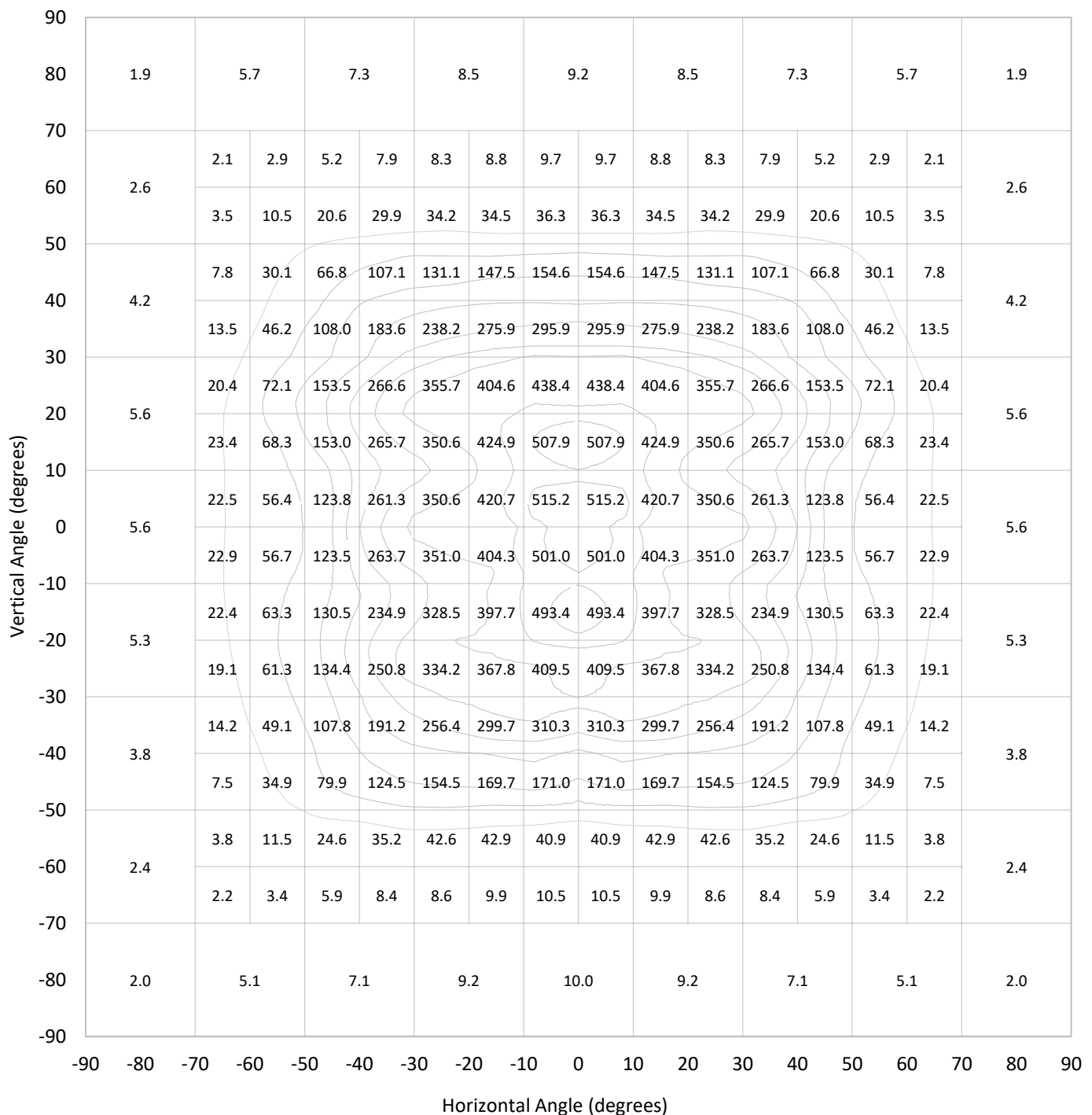
Iso-Candela Plot



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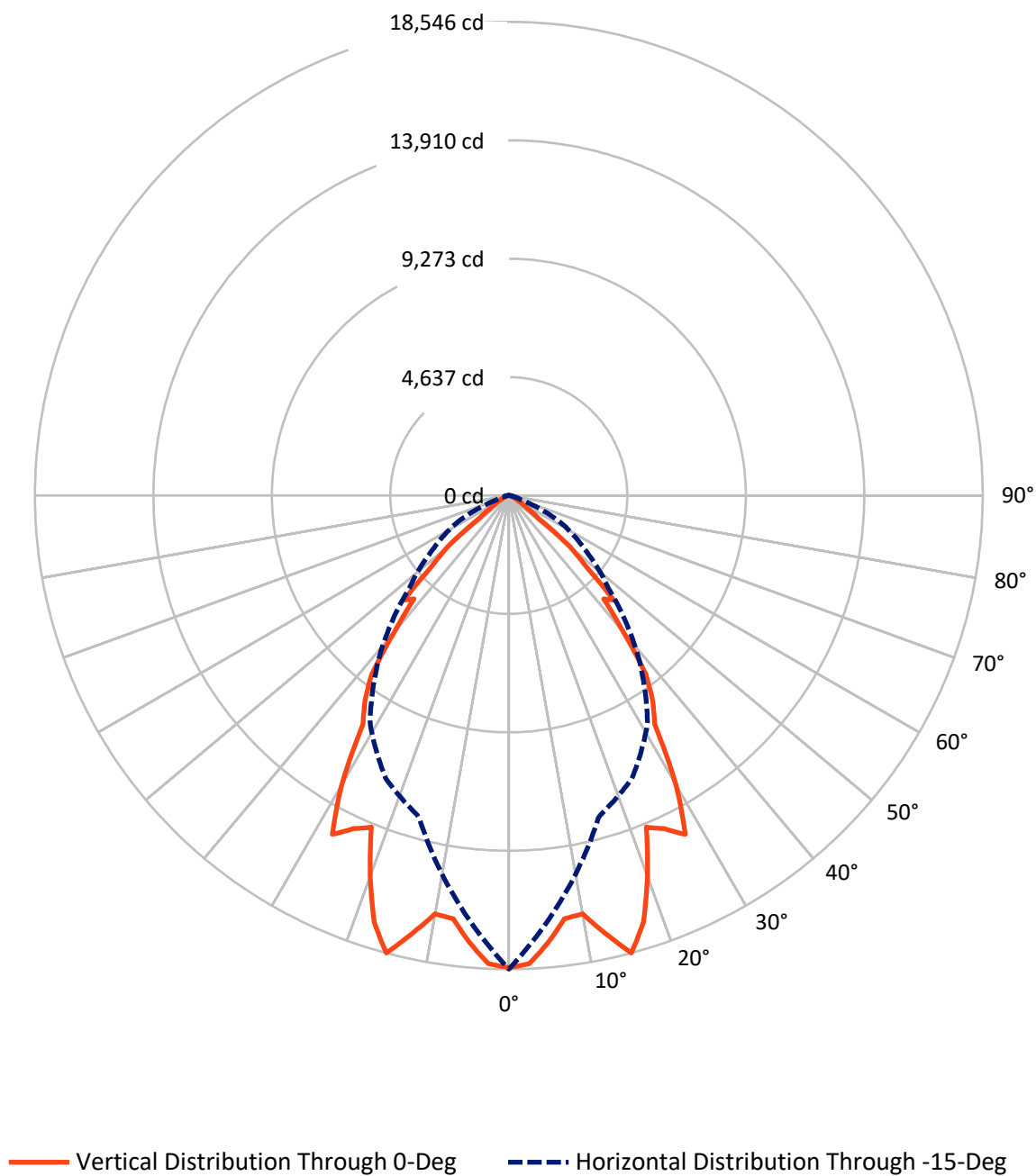
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Lumen Table



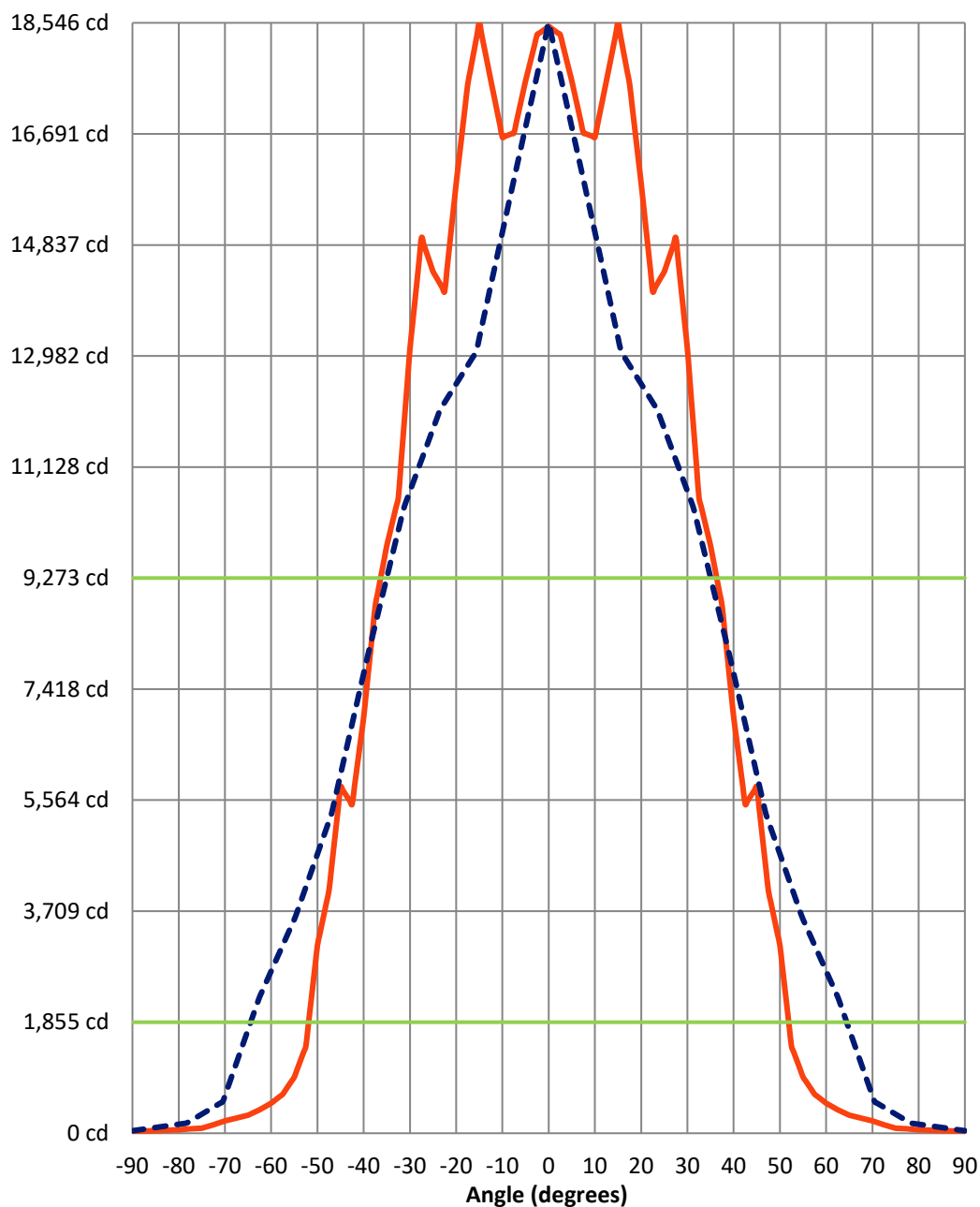
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 70.1°
V Angle: 72.7°
Lumens: 19400.1
Efficiency: 66.7%

Field:
H Angle: 128.9°
V Angle: 103.8°
Lumens: 27962.2
Efficiency: 96.1%

Spill:
Lumens: 1130
Efficiency: 3.9%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through -15-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	7.82609°	15.6522°	23.4783°	31.3043°	39.1304°	46.9565°	54.7826°	62.6087°	70.4348°	78.2609°
90°	35.7	38.9	41.3	47.2	48.4	52.1	56.8	54.8	83.1	107.4	84.8
87.5°	38.2	39.6	43.7	49.6	48.5	50.3	55.4	57.6	84.6	107.3	84.8
85°	42.0	45.2	47.3	52.1	50.9	53.1	58.0	61.1	86.3	107.1	84.8
82.5°	50.9	54.5	54.1	55.9	56.3	61.1	64.7	66.4	94.7	107.0	84.6
80°	57.3	61.2	61.3	60.6	62.3	73.3	78.3	72.7	105.0	116.9	84.4
77.5°	73.9	70.9	69.7	68.2	67.9	83.0	90.5	79.6	113.5	126.5	84.4
75°	84.1	84.7	79.3	81.5	78.6	88.5	101.2	88.3	121.0	135.7	88.0
72.5°	141.4	134.2	121.0	121.9	119.2	111.7	107.4	97.1	129.3	144.8	91.5
70°	206.3	190.4	179.6	192.8	196.0	159.4	127.8	112.2	139.0	153.6	94.7
67.5°	253.4	253.2	240.3	255.5	261.1	236.8	158.5	129.2	150.1	161.9	97.8
65°	301.8	306.5	290.1	289.4	311.2	289.7	209.0	153.8	163.9	168.9	100.6
62.5°	392.2	364.2	341.0	326.2	363.1	390.6	257.9	182.1	177.2	175.4	105.6
60°	501.8	486.7	445.2	422.4	465.2	545.8	310.4	217.0	208.6	181.5	110.8
57.5°	652.0	656.1	616.1	622.2	757.3	694.4	465.2	322.2	244.5	190.3	115.9
55°	938.6	909.3	905.6	916.6	1090.5	918.2	746.7	550.2	280.7	203.5	120.2
52.5°	1455.6	1536.6	1564.5	1748.4	1670.1	1449.1	1304.2	854.6	324.4	218.8	124.2
50°	3136.6	2811.6	2669.2	2881.4	2699.6	2292.3	1906.7	1210.7	375.1	236.5	128.0
47.5°	4056.1	4054.3	3862.7	3865.1	3934.5	3195.4	2491.5	1526.1	525.1	262.4	135.1
45°	5785.5	5453.4	5019.3	4716.0	4615.6	3982.8	2832.8	1759.4	699.9	288.3	141.6
42.5°	5493.9	5927.0	6318.5	5589.0	5400.0	4677.9	3170.0	1951.4	850.6	312.8	147.6
40°	6949.5	7204.7	7215.1	6987.2	6341.3	5539.8	3554.6	2121.2	1015.2	336.1	152.9
37.5°	8807.5	8674.8	8276.6	7953.4	7384.3	6359.7	3945.7	2265.7	1164.4	360.7	157.7
35°	9813.6	9489.5	9249.3	8617.1	8011.0	6839.8	4533.2	2490.6	1289.8	386.8	161.8
32.5°	10619.7	10560.6	10266.5	9509.0	8687.5	6969.2	4905.5	2831.2	1408.7	413.8	165.3
30°	13097.9	13305.9	12266.5	11260.3	9724.0	7192.0	5071.1	3232.0	1580.4	441.4	171.0
27.5°	14956.0	14560.7	13692.2	12728.8	11164.1	8246.3	5817.1	3789.8	1786.8	448.4	178.5
25°	14390.5	14474.2	13875.3	13425.2	12506.1	9421.7	6563.7	4258.7	1999.3	462.1	185.8
22.5°	14055.6	14615.7	13827.7	13753.3	13091.7	10207.3	7065.0	4629.5	2202.3	483.6	190.3
20°	15862.7	15413.2	14156.5	14131.0	13256.5	10444.4	6978.8	4469.4	2369.2	495.3	193.0
17.5°	17520.8	16512.3	14529.1	13980.3	12545.5	10179.3	6908.6	4095.2	2395.7	498.0	194.1
15°	18546.0	16934.6	14308.7	12909.5	11643.6	9520.4	6362.7	3649.5	2392.0	492.3	193.6
12.5°	17581.9	16440.7	13774.4	12019.3	10776.5	8837.9	5556.3	3437.7	2365.6	494.6	191.7
10°	16634.4	16097.2	13631.9	11773.9	10340.8	8557.5	4895.3	3290.6	2318.8	498.6	188.5
7.5°	16708.3	16530.5	13707.2	12171.4	10855.2	8524.1	4535.8	3133.9	2313.3	498.5	184.1
5°	17575.6	17265.3	14238.9	13096.5	11864.9	8887.1	4191.8	3162.7	2312.8	494.5	178.7
2.5°	18347.3	17314.6	13857.5	13807.4	12825.7	9400.5	4126.4	3220.6	2306.4	487.2	172.5
0°	18484.8	16013.6	13150.8	13703.9	13131.0	9884.4	4037.7	3270.4	2289.5	477.1	165.6
-2.5°	18347.3	16349.4	13415.9	13624.4	12873.2	9658.7	4079.2	3240.1	2329.3	497.5	167.6
-5°	17575.6	16249.1	13532.2	13033.9	12032.6	9266.9	4093.7	3205.4	2355.3	514.6	169.2
-7.5°	16708.3	15667.9	12755.4	12455.5	10998.9	8654.5	4402.0	3200.9	2369.1	527.6	170.1
-10°	16634.4	15569.2	13027.3	12185.6	10220.0	8011.5	4762.8	3364.2	2367.8	535.5	170.5
-12.5°	17581.9	15845.3	13160.8	11962.8	10317.9	7496.3	5079.9	3502.6	2319.2	537.6	170.1
-15°	18546.0	15819.2	13053.6	12084.3	10450.8	7973.9	5333.3	3610.0	2258.7	528.9	169.2
-17.5°	17520.8	15604.1	13130.2	12585.1	10837.5	8454.7	5491.7	3681.2	2186.8	505.4	167.5
-20°	15862.7	14990.1	13130.9	12982.9	11463.9	8852.2	5539.1	3711.7	2103.7	479.1	165.2



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CANDELA DISTRIBUTION (continued):

	0°	7.82609°	15.6522°	23.4783°	31.3043°	39.1304°	46.9565°	54.7826°	62.6087°	70.4348°	78.2609°
-22.5°	14055.6	13945.8	13011.2	12872.1	11912.8	9070.9	5508.8	3682.5	2010.1	449.9	162.1
-25°	14390.5	12553.2	12477.3	12471.4	11990.8	8696.1	5405.9	3510.0	1898.5	418.3	158.3
-27.5°	14956.0	11825.4	11860.7	11933.5	11102.0	8115.4	5220.5	3330.3	1782.5	399.6	153.9
-30°	13097.9	11701.2	11531.2	11335.8	10118.0	7577.6	4884.6	3144.5	1668.6	390.9	148.8
-32.5°	10619.7	11653.8	11302.9	10542.3	9319.9	7341.2	4529.1	2969.5	1561.6	380.1	143.5
-35°	9813.6	11057.8	10637.8	9710.5	8491.3	6951.6	4301.0	2807.8	1408.5	367.0	138.1
-37.5°	8807.5	9494.7	9424.0	8564.1	7700.3	6162.4	4037.3	2656.3	1191.0	351.7	132.6
-40°	6949.5	8078.3	7498.5	7220.8	6712.3	5677.3	3893.0	2502.0	948.5	333.3	126.9
-42.5°	5493.9	6993.6	6692.1	6514.0	6117.3	5291.8	3802.0	2313.5	720.2	311.5	121.1
-45°	5785.5	6288.1	6023.1	5940.4	5684.5	4713.3	3588.1	2042.3	614.5	290.0	115.1
-47.5°	4056.1	5173.1	4877.7	4896.3	4730.1	3934.9	3284.0	1730.6	487.0	268.9	109.0
-50°	3136.6	3080.5	3104.1	3443.4	3411.1	2810.0	2324.5	1301.6	380.0	246.8	102.8
-52.5°	1455.6	1804.1	1865.4	2141.1	2178.4	1655.5	1483.1	848.0	353.3	226.2	101.7
-55°	938.6	1207.4	1277.0	1295.8	1311.1	938.7	1004.2	543.3	328.2	205.7	100.7
-57.5°	652.0	931.2	848.3	801.8	776.3	707.6	666.0	360.1	291.8	185.2	99.4
-60°	501.8	528.5	527.9	475.7	504.9	642.8	394.3	265.1	248.7	169.3	98.0
-62.5°	392.2	428.7	393.5	363.1	366.4	465.0	307.4	222.6	208.9	157.9	96.3
-65°	301.8	353.1	317.2	293.0	297.1	329.0	230.3	182.4	184.6	146.3	95.1
-67.5°	253.4	281.9	255.3	233.8	250.0	250.2	158.5	146.8	159.7	135.4	97.0
-70°	206.3	233.1	202.9	193.3	197.5	158.9	127.6	123.8	141.0	128.0	98.9
-72.5°	141.4	178.6	144.6	143.1	132.3	113.2	104.2	104.5	123.6	120.3	100.8
-75°	84.1	102.2	97.4	95.1	87.0	87.2	85.6	89.0	108.5	112.7	102.6
-77.5°	73.9	71.7	69.4	68.3	71.5	72.8	74.3	74.6	95.1	110.4	104.4
-80°	57.3	60.5	59.0	59.2	62.5	63.9	67.4	62.5	82.7	107.9	106.2
-82.5°	50.9	54.2	53.0	55.2	56.5	60.6	65.1	54.3	72.0	105.2	107.9
-85°	42.0	47.9	47.4	53.0	52.6	55.4	57.2	50.7	63.7	107.7	109.4
-87.5°	38.2	42.4	43.8	49.5	49.0	49.7	50.9	48.6	65.6	110.4	110.8
-90°	35.7	39.3	42.4	46.3	47.1	47.1	47.1	47.1	67.5	113.3	112.0



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CANDELA DISTRIBUTION (continued):

90°	
90°	42.0
87.5°	42.0
85°	42.0
82.5°	42.0
80°	42.0
77.5°	42.0
75°	42.0
72.5°	42.0
70°	42.0
67.5°	42.0
65°	42.0
62.5°	42.0
60°	42.0
57.5°	42.0
55°	42.0
52.5°	42.0
50°	42.0
47.5°	42.0
45°	42.0
42.5°	42.0
40°	42.0
37.5°	42.0
35°	42.0
32.5°	42.0
30°	42.0
27.5°	42.0
25°	42.0
22.5°	42.0
20°	42.0
17.5°	42.0
15°	42.0
12.5°	42.0
10°	42.0
7.5°	42.0
5°	42.0
2.5°	42.0
0°	42.0
-2.5°	42.0
-5°	42.0
-7.5°	42.0
-10°	42.0
-12.5°	42.0
-15°	42.0
-17.5°	42.0
-20°	42.0



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CANDELA DISTRIBUTION (continued):

	90°
-22.5°	42.0
-25°	42.0
-27.5°	42.0
-30°	42.0
-32.5°	42.0
-35°	42.0
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-40°	42.0
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-50°	42.0
-52.5°	42.0
-55°	42.0
-57.5°	42.0
-60°	42.0
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-65°	42.0
-67.5°	42.0
-70°	42.0
-72.5°	42.0
-75°	42.0
-77.5°	42.0
-80°	42.0
-82.5°	42.0
-85°	42.0
-87.5°	42.0
-90°	42.0

(END OF REPORT)