

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623306

Luminaire Tested: **IFLD-M-SA4C-722-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	21745.6 lumens	Max Intensity:	70315.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

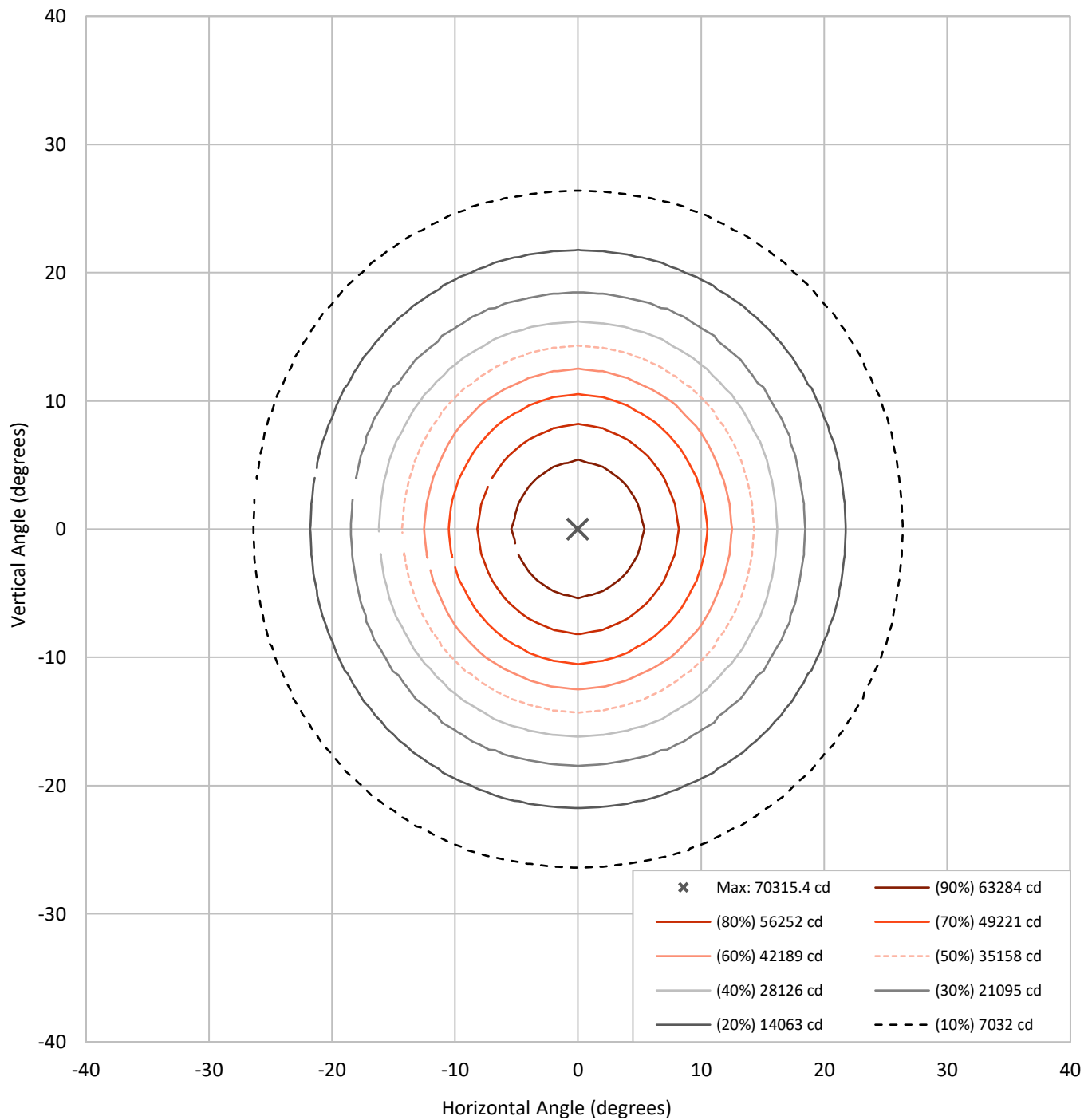
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	7846.2 lumens	Field Lumens:	13249.4 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): 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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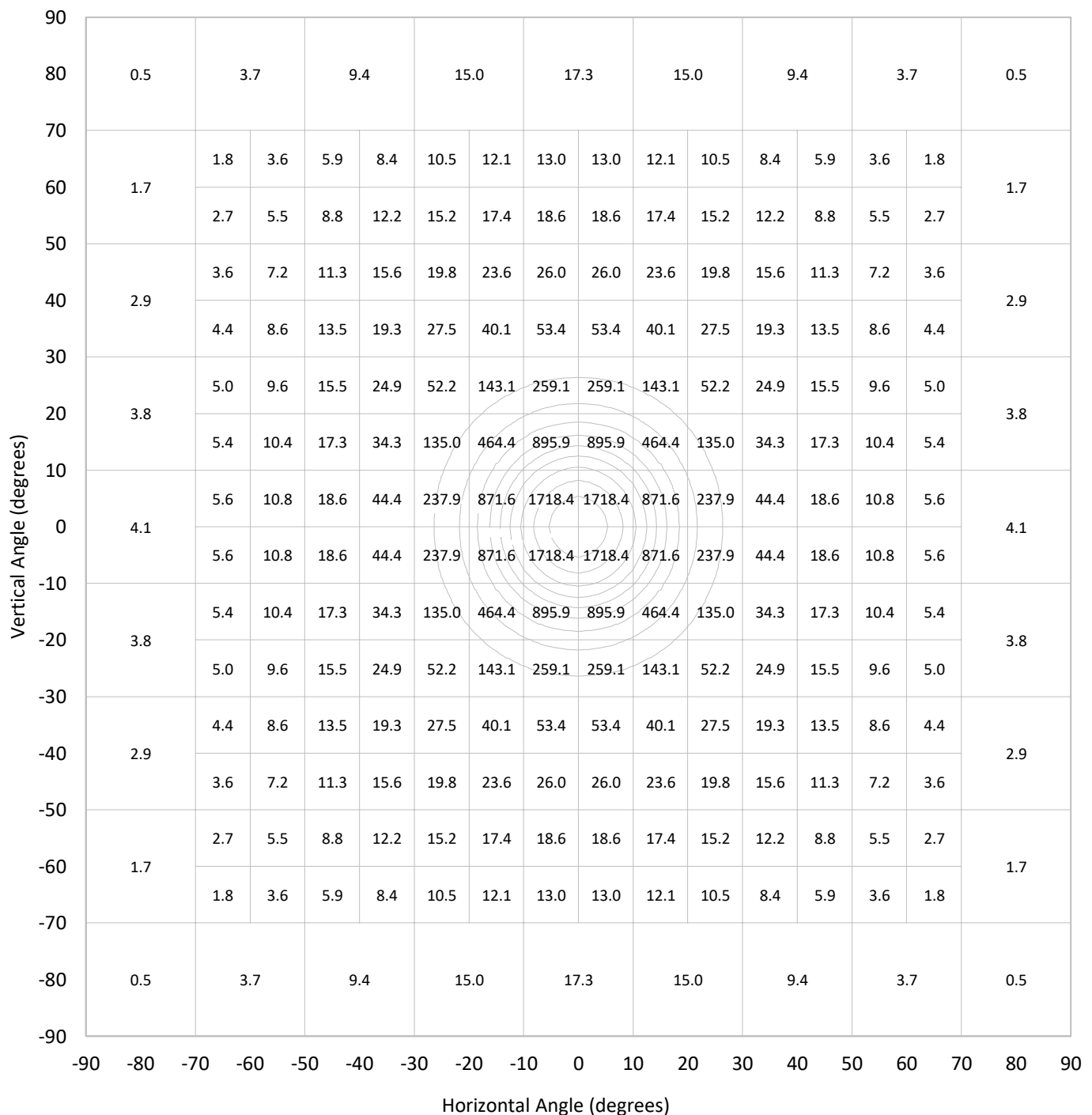
Iso-Candela Plot



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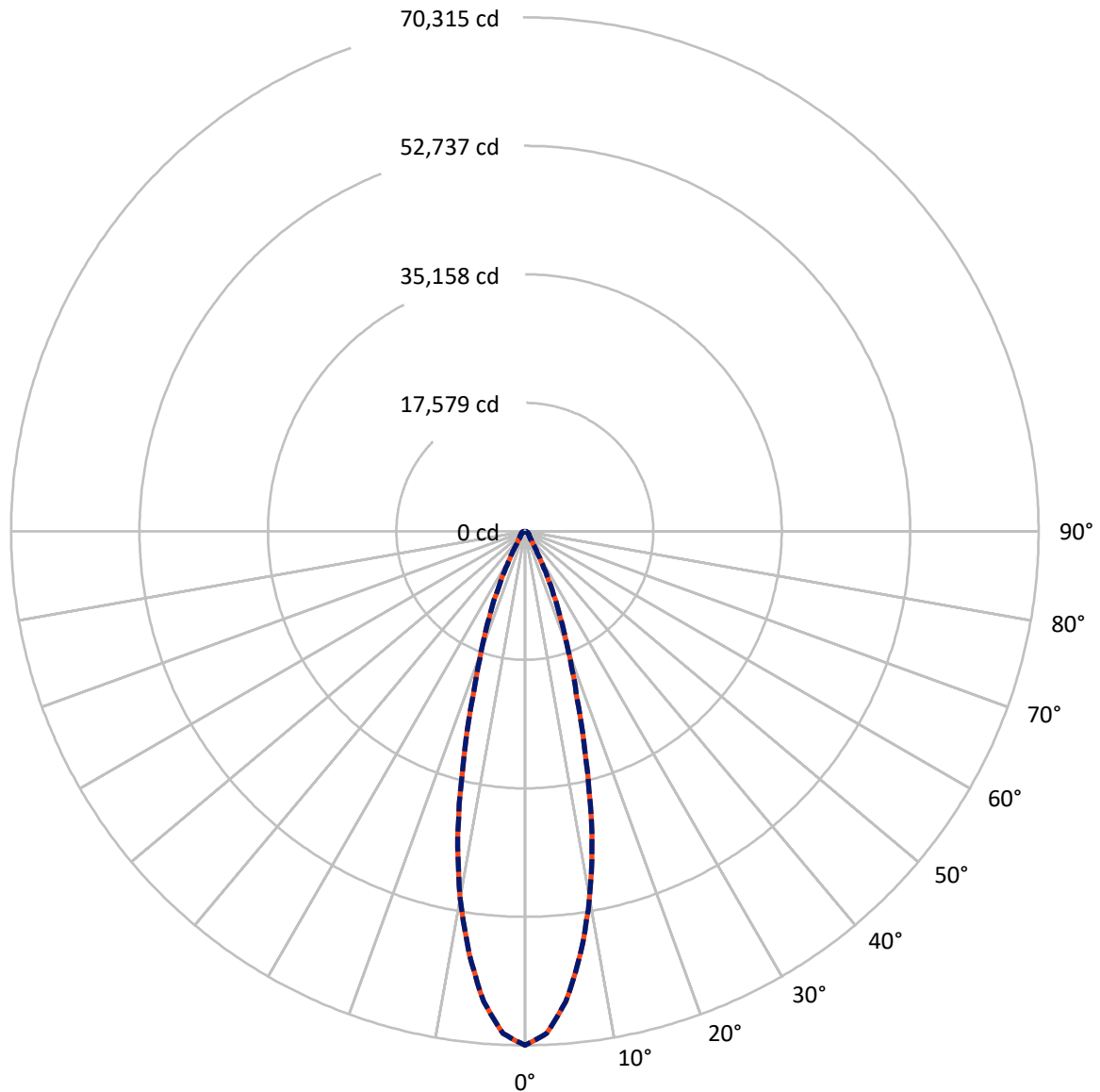
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Lumen Table



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Luminous Intensity Polar Plot

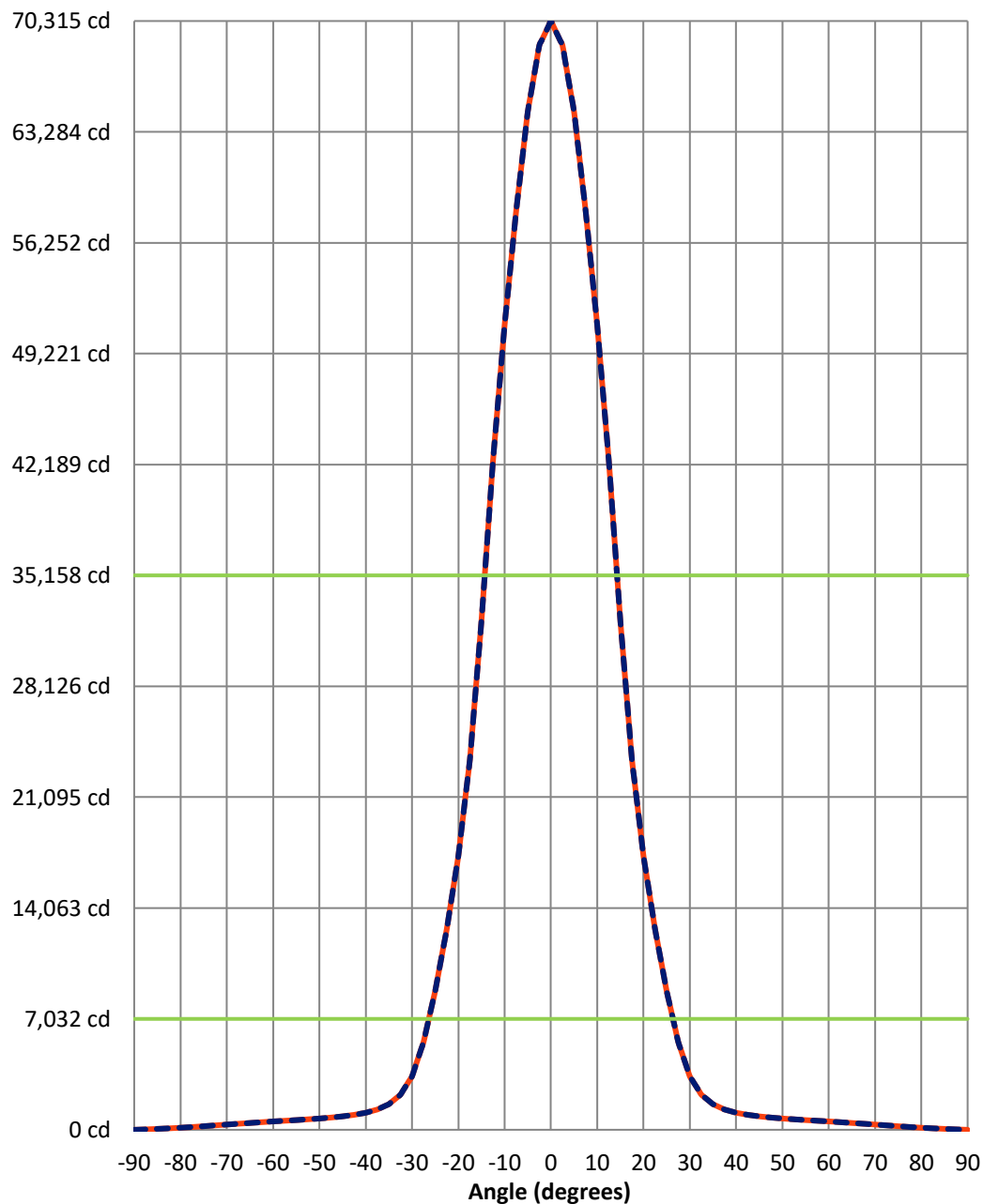


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 7846.2
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 13249.4
Efficiency: 60.9%

Spill:

Lumens: 8496.2
Efficiency: 39.1%

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

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	22.7	22.7	22.7	22.7
85°	56.7	56.7	56.7	56.7	56.7	54.4	54.4	54.4	52.1	52.1	49.9
82.5°	90.7	90.7	90.7	90.7	88.4	88.4	86.2	86.2	83.9	83.9	81.6
80°	129.2	129.2	129.2	129.2	127.0	124.7	124.7	122.4	120.2	117.9	115.6
77.5°	174.6	174.6	174.6	172.3	170.0	170.0	167.8	163.2	161.0	156.4	154.2
75°	224.5	224.5	224.5	222.2	219.9	217.7	213.1	210.9	206.3	201.8	195.0
72.5°	278.9	278.9	278.9	276.6	272.1	269.8	265.3	260.7	256.2	249.4	242.6
70°	331.0	331.0	331.0	326.5	324.2	319.7	315.1	310.6	303.8	297.0	290.2
67.5°	383.2	383.2	383.2	378.6	376.4	371.8	367.3	360.5	353.7	344.6	337.8
65°	430.8	430.8	428.5	426.2	424.0	419.4	412.6	408.1	401.3	392.2	383.2
62.5°	480.6	480.6	478.4	476.1	471.6	467.0	460.2	453.4	444.4	435.3	426.2
60°	530.5	530.5	528.3	526.0	521.5	514.7	507.9	501.1	492.0	480.6	469.3
57.5°	571.3	571.3	569.1	566.8	562.3	557.7	550.9	544.1	535.1	526.0	512.4
55°	614.4	614.4	612.1	607.6	603.1	598.5	591.7	582.7	573.6	562.3	553.2
52.5°	664.3	664.3	662.0	657.5	650.7	643.9	634.8	623.5	612.1	600.8	587.2
50°	714.2	714.2	709.6	705.1	700.6	691.5	682.4	671.1	657.5	643.9	628.0
47.5°	775.4	775.4	770.9	764.1	755.0	745.9	732.3	716.4	702.8	687.0	668.8
45°	850.2	850.2	843.4	836.6	825.3	809.4	793.5	775.4	755.0	734.6	711.9
42.5°	947.7	947.7	938.6	927.3	911.4	891.0	866.1	841.1	816.2	789.0	761.8
40°	1079.2	1079.2	1065.6	1049.7	1024.8	995.3	959.0	925.0	891.0	852.5	818.5
37.5°	1285.5	1285.5	1262.8	1233.4	1192.6	1142.7	1081.5	1036.1	984.0	934.1	888.7
35°	1623.3	1623.3	1582.5	1530.4	1457.8	1367.1	1269.6	1192.6	1106.4	1036.1	970.4
32.5°	2224.1	2224.1	2142.5	2040.5	1902.2	1725.4	1562.1	1426.1	1285.5	1176.7	1072.4
30°	3387.2	3387.2	3212.6	2997.3	2700.3	2328.4	2049.6	1788.8	1550.8	1371.7	1219.8
27.5°	5570.5	5479.9	5207.8	4761.2	4149.0	3387.2	2902.0	2351.1	1974.7	1632.4	1421.5
25°	8794.5	8644.9	8196.0	7463.7	6466.1	5334.8	4344.0	3298.8	2639.0	2070.0	1677.7
22.5°	12712.3	12506.0	11896.1	10900.8	9551.8	8046.3	6443.4	4940.3	3602.6	2736.5	2070.0
20°	17351.0	17074.4	16255.9	14927.3	13140.8	11225.0	9084.7	7071.4	5142.0	3602.6	2639.0
17.5°	23474.7	23053.0	21812.9	19817.7	17351.0	14768.6	12093.3	9495.1	7071.4	4940.3	3298.8
15°	32278.3	31566.4	29485.1	26179.5	22338.9	18738.5	15326.4	12093.3	9084.7	6443.4	4344.0
12.5°	42455.9	41465.1	38597.1	34123.9	28904.7	23211.8	18738.5	14768.6	11225.0	8046.3	5334.8
10°	51030.5	49985.3	47022.1	42535.2	35917.2	28904.7	22338.9	17351.0	13140.8	9551.8	6466.1
7.5°	58274.2	57104.4	53909.9	49001.3	42535.2	34123.9	26179.5	19817.7	14927.3	10900.8	7463.7
5°	64565.8	63083.0	59364.8	53909.9	47022.1	38597.1	29485.1	21812.9	16255.9	11896.1	8196.0
2.5°	68769.2	67028.0	63083.0	57104.4	49985.3	41465.1	31566.4	23053.0	17074.4	12506.0	8644.9
0°	70315.4	68769.2	64565.8	58274.2	51030.5	42455.9	32278.3	23474.7	17351.0	12712.3	8794.5

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	22.7	20.4	20.4	20.4	18.1	18.1	18.1	15.9	15.9	15.9
85°	49.9	47.6	47.6	45.3	43.1	40.8	40.8	38.5	36.3	34.0	31.7
82.5°	79.4	77.1	74.8	72.6	70.3	65.7	63.5	61.2	56.7	54.4	52.1
80°	111.1	108.8	104.3	102.0	97.5	93.0	88.4	83.9	79.4	74.8	70.3
77.5°	149.6	142.8	138.3	133.8	127.0	122.4	115.6	111.1	104.3	97.5	90.7
75°	190.4	183.6	176.8	170.0	163.2	154.2	147.4	138.3	131.5	122.4	115.6
72.5°	235.8	226.7	217.7	208.6	199.5	190.4	181.4	170.0	161.0	149.6	138.3
70°	281.1	272.1	263.0	251.7	240.3	229.0	217.7	204.0	192.7	179.1	165.5
67.5°	328.7	317.4	306.1	294.7	283.4	269.8	253.9	240.3	224.5	208.6	195.0
65°	374.1	362.8	349.2	335.5	321.9	308.3	292.5	276.6	258.5	240.3	224.5
62.5°	414.9	403.6	392.2	376.4	362.8	346.9	331.0	310.6	292.5	274.3	253.9
60°	458.0	444.4	430.8	414.9	399.0	383.2	365.0	344.6	326.5	303.8	283.4
57.5°	498.8	485.2	469.3	453.4	435.3	417.2	399.0	378.6	358.2	335.5	312.9
55°	539.6	526.0	510.1	492.0	471.6	451.2	430.8	410.4	390.0	365.0	340.1
52.5°	573.6	560.0	544.1	530.5	507.9	487.5	464.8	439.8	417.2	392.2	367.3
50°	609.9	594.0	575.9	560.0	541.9	521.5	496.5	471.6	444.4	419.4	392.2
47.5°	650.7	630.3	609.9	589.5	571.3	548.7	528.3	501.1	473.8	444.4	417.2
45°	691.5	668.8	646.2	621.2	598.5	575.9	553.2	530.5	501.1	471.6	439.8
42.5°	734.6	707.4	682.4	657.5	630.3	603.1	578.1	553.2	528.3	496.5	464.8
40°	784.5	752.7	721.0	691.5	664.3	632.6	603.1	575.9	548.7	521.5	487.5
37.5°	841.1	802.6	764.1	727.8	693.8	664.3	630.3	598.5	571.3	541.9	507.9
35°	913.7	857.0	811.7	766.3	727.8	691.5	657.5	621.2	589.5	560.0	530.5
32.5°	995.3	925.0	863.8	811.7	764.1	721.0	682.4	646.2	609.9	575.9	544.1
30°	1095.1	1004.4	925.0	857.0	802.6	752.7	707.4	668.8	630.3	594.0	560.0
27.5°	1235.6	1095.1	995.3	913.7	841.1	784.5	734.6	691.5	650.7	609.9	573.6
25°	1421.5	1219.8	1072.4	970.4	888.7	818.5	761.8	711.9	668.8	628.0	587.2
22.5°	1632.4	1371.7	1176.7	1036.1	934.1	852.5	789.0	734.6	687.0	643.9	600.8
20°	1974.7	1550.8	1285.5	1106.4	984.0	891.0	816.2	755.0	702.8	657.5	612.1
17.5°	2351.1	1788.8	1426.1	1192.6	1036.1	925.0	841.1	775.4	716.4	671.1	623.5
15°	2902.0	2049.6	1562.1	1269.6	1081.5	959.0	866.1	793.5	732.3	682.4	634.8
12.5°	3387.2	2328.4	1725.4	1367.1	1142.7	995.3	891.0	809.4	745.9	691.5	643.9
10°	4149.0	2700.3	1902.2	1457.8	1192.6	1024.8	911.4	825.3	755.0	700.6	650.7
7.5°	4761.2	2997.3	2040.5	1530.4	1233.4	1049.7	927.3	836.6	764.1	705.1	657.5
5°	5207.8	3212.6	2142.5	1582.5	1262.8	1065.6	938.6	843.4	770.9	709.6	662.0
2.5°	5479.9	3387.2	2224.1	1623.3	1285.5	1079.2	947.7	850.2	775.4	714.2	664.3
0°	5570.5	3387.2	2224.1	1623.3	1285.5	1079.2	947.7	850.2	775.4	714.2	664.3

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	13.6	11.3	11.3	11.3	9.1	9.1	6.8	6.8	4.5	4.5
85°	29.5	27.2	24.9	22.7	20.4	18.1	18.1	15.9	13.6	11.3	9.1
82.5°	47.6	45.3	40.8	36.3	34.0	29.5	24.9	22.7	20.4	15.9	13.6
80°	65.7	61.2	56.7	52.1	47.6	40.8	36.3	31.7	24.9	20.4	18.1
77.5°	86.2	79.4	72.6	65.7	58.9	54.4	47.6	40.8	34.0	27.2	20.4
75°	106.6	97.5	90.7	81.6	74.8	65.7	56.7	49.9	43.1	34.0	24.9
72.5°	129.2	117.9	108.8	97.5	88.4	79.4	68.0	58.9	49.9	40.8	31.7
70°	154.2	140.6	127.0	115.6	104.3	90.7	79.4	68.0	56.7	47.6	36.3
67.5°	179.1	163.2	147.4	131.5	117.9	104.3	90.7	79.4	65.7	54.4	40.8
65°	204.0	185.9	170.0	151.9	133.8	117.9	104.3	88.4	74.8	58.9	47.6
62.5°	231.3	210.9	190.4	170.0	151.9	131.5	115.6	97.5	81.6	65.7	52.1
60°	260.7	238.1	213.1	190.4	170.0	147.4	127.0	108.8	90.7	72.6	56.7
57.5°	287.9	263.0	238.1	210.9	185.9	163.2	140.6	117.9	97.5	79.4	61.2
55°	315.1	287.9	260.7	231.3	204.0	179.1	154.2	129.2	106.6	86.2	65.7
52.5°	340.1	312.9	283.4	253.9	224.5	195.0	165.5	138.3	115.6	90.7	70.3
50°	365.0	335.5	303.8	274.3	240.3	208.6	179.1	149.6	122.4	97.5	74.8
47.5°	390.0	358.2	326.5	292.5	258.5	224.5	192.7	161.0	131.5	104.3	79.4
45°	410.4	378.6	344.6	310.6	276.6	240.3	204.0	170.0	138.3	111.1	83.9
42.5°	430.8	399.0	365.0	331.0	292.5	253.9	217.7	181.4	147.4	115.6	88.4
40°	451.2	417.2	383.2	346.9	308.3	269.8	229.0	190.4	154.2	122.4	93.0
37.5°	471.6	435.3	399.0	362.8	321.9	283.4	240.3	199.5	163.2	127.0	97.5
35°	492.0	453.4	414.9	376.4	335.5	294.7	251.7	208.6	170.0	133.8	102.0
32.5°	510.1	469.3	430.8	392.2	349.2	306.1	263.0	217.7	176.8	138.3	104.3
30°	526.0	485.2	444.4	403.6	362.8	317.4	272.1	226.7	183.6	142.8	108.8
27.5°	539.6	498.8	458.0	414.9	374.1	328.7	281.1	235.8	190.4	149.6	111.1
25°	553.2	512.4	469.3	426.2	383.2	337.8	290.2	242.6	195.0	154.2	115.6
22.5°	562.3	526.0	480.6	435.3	392.2	344.6	297.0	249.4	201.8	156.4	117.9
20°	573.6	535.1	492.0	444.4	401.3	353.7	303.8	256.2	206.3	161.0	120.2
17.5°	582.7	544.1	501.1	453.4	408.1	360.5	310.6	260.7	210.9	163.2	122.4
15°	591.7	550.9	507.9	460.2	412.6	367.3	315.1	265.3	213.1	167.8	124.7
12.5°	598.5	557.7	514.7	467.0	419.4	371.8	319.7	269.8	217.7	170.0	124.7
10°	603.1	562.3	521.5	471.6	424.0	376.4	324.2	272.1	219.9	170.0	127.0
7.5°	607.6	566.8	526.0	476.1	426.2	378.6	326.5	276.6	222.2	172.3	129.2
5°	612.1	569.1	528.3	478.4	428.5	383.2	331.0	278.9	224.5	174.6	129.2
2.5°	614.4	571.3	530.5	480.6	430.8	383.2	331.0	278.9	224.5	174.6	129.2
0°	614.4	571.3	530.5	480.6	430.8	383.2	331.0	278.9	224.5	174.6	129.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	0.0	0.0
85°	6.8	4.5	2.3	0.0
82.5°	9.1	6.8	2.3	0.0
80°	13.6	9.1	4.5	0.0
77.5°	15.9	11.3	4.5	0.0
75°	20.4	13.6	6.8	0.0
72.5°	22.7	15.9	6.8	0.0
70°	24.9	18.1	9.1	0.0
67.5°	29.5	18.1	9.1	0.0
65°	34.0	20.4	11.3	0.0
62.5°	36.3	22.7	11.3	0.0
60°	40.8	24.9	11.3	0.0
57.5°	45.3	27.2	13.6	0.0
55°	47.6	29.5	13.6	0.0
52.5°	52.1	31.7	15.9	0.0
50°	54.4	34.0	15.9	0.0
47.5°	56.7	36.3	15.9	0.0
45°	61.2	38.5	18.1	0.0
42.5°	63.5	40.8	18.1	0.0
40°	65.7	40.8	18.1	0.0
37.5°	70.3	43.1	20.4	0.0
35°	72.6	45.3	20.4	0.0
32.5°	74.8	47.6	20.4	0.0
30°	77.1	47.6	22.7	0.0
27.5°	79.4	49.9	22.7	0.0
25°	81.6	49.9	22.7	0.0
22.5°	83.9	52.1	22.7	0.0
20°	83.9	52.1	22.7	0.0
17.5°	86.2	54.4	22.7	0.0
15°	86.2	54.4	24.9	0.0
12.5°	88.4	54.4	24.9	0.0
10°	88.4	56.7	24.9	0.0
7.5°	90.7	56.7	24.9	0.0
5°	90.7	56.7	24.9	0.0
2.5°	90.7	56.7	24.9	0.0
0°	90.7	56.7	24.9	0.0

(END OF REPORT)