

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: P624024

Luminaire Tested: **IFLD-S-SA6A-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

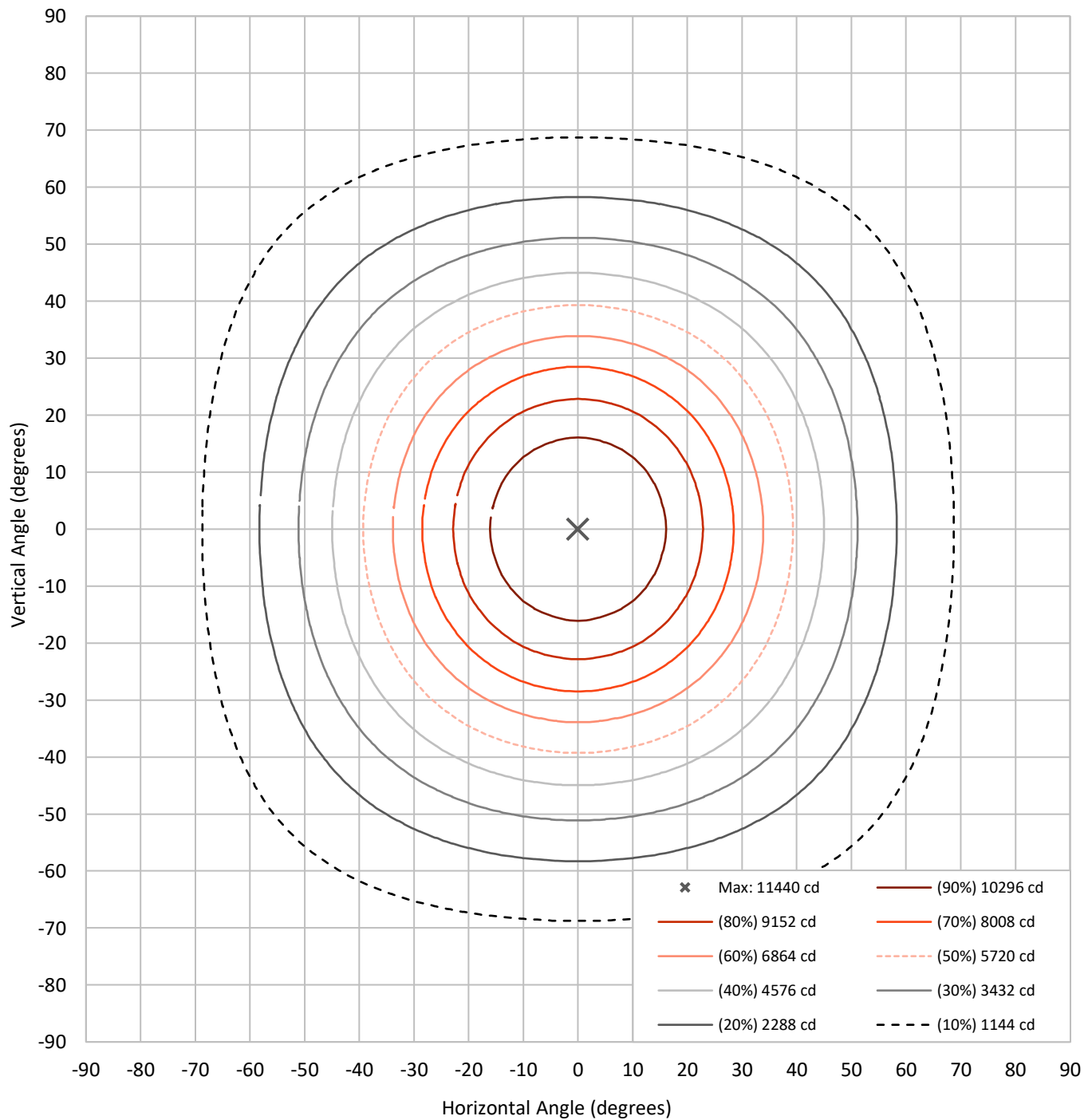
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20598 lumens	Max Intensity:	11440 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8912.6 lumens	Field Lumens:	14594 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	189.6		
Input Voltage (V):	120		
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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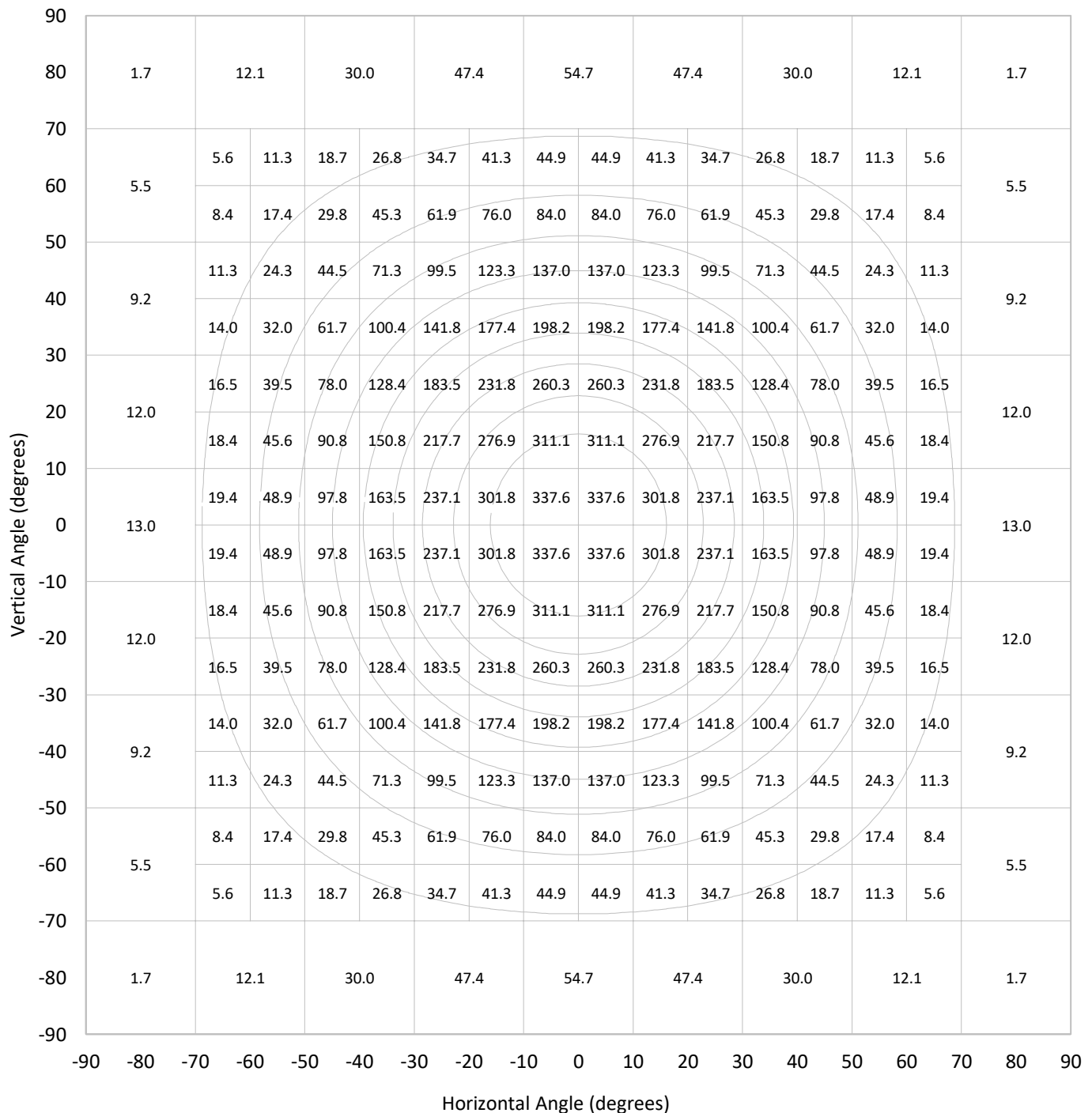
CATALOG NUMBER: IFLD-S-SA6A-827-U-77

Iso-Candela Plot



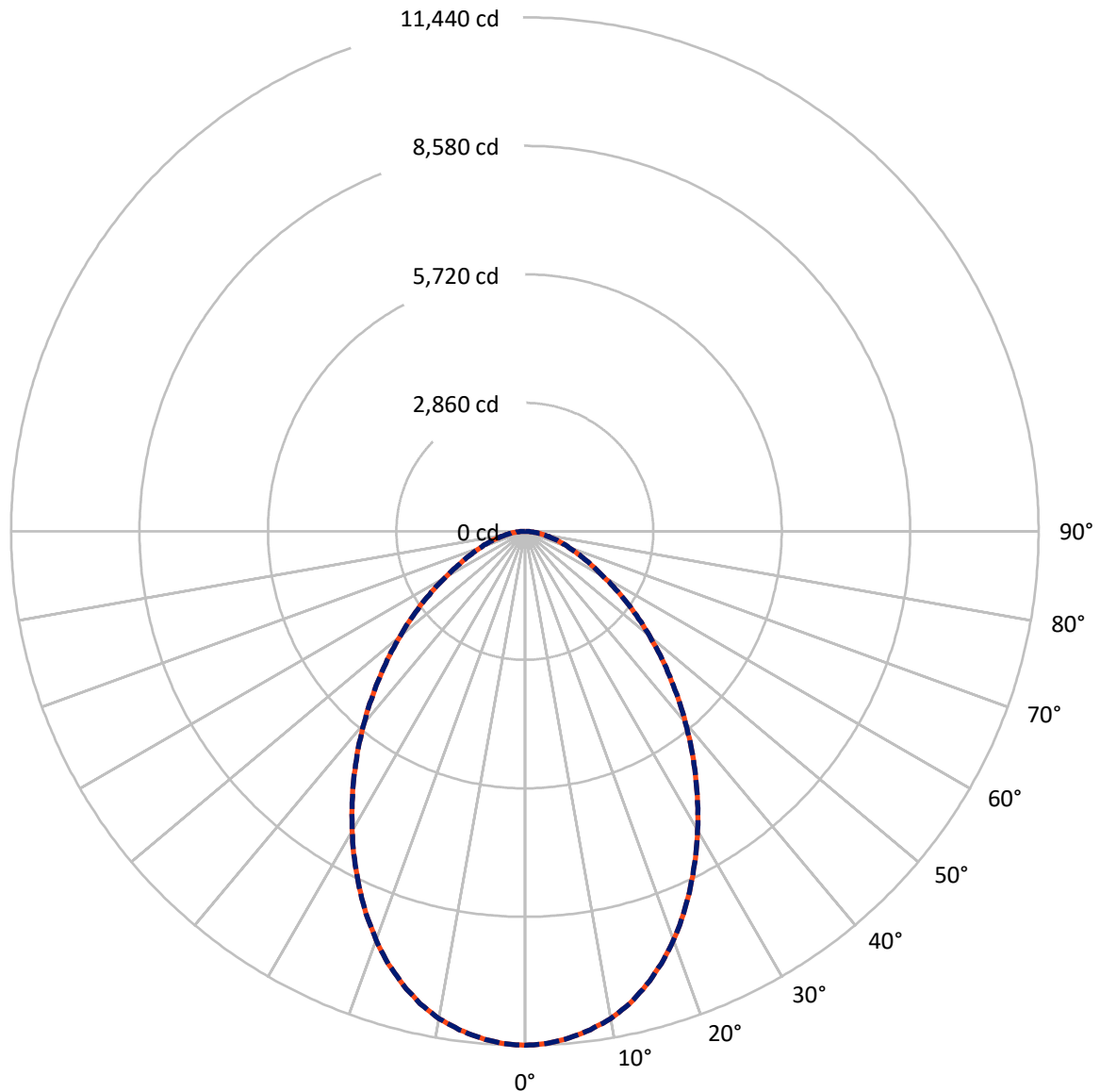
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Lumen Table



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Luminous Intensity Polar Plot

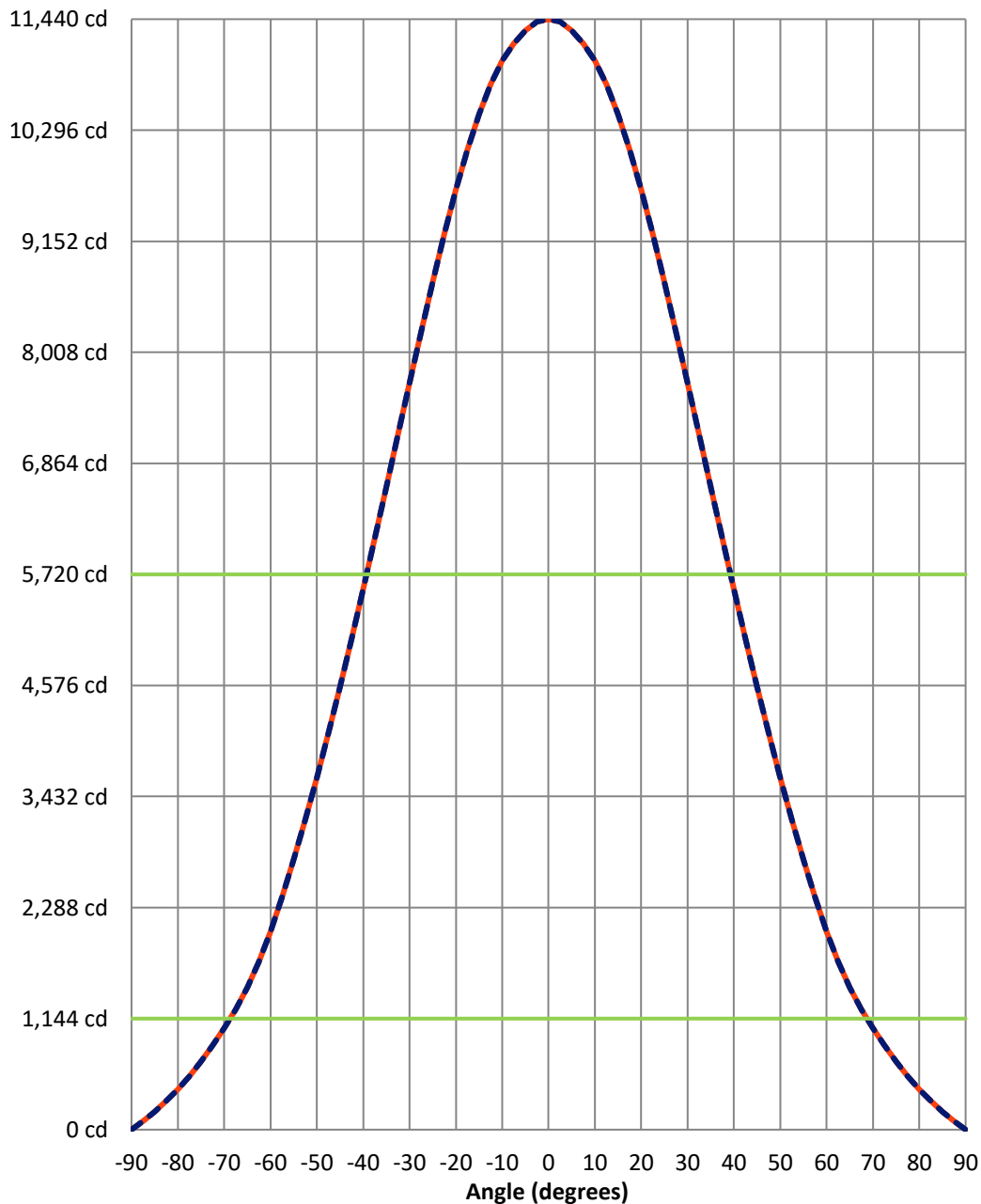


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8912.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 14594
Efficiency: 70.9%

Spill:

Lumens: 6004
Efficiency: 29.1%

— 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°	88.0	88.0	88.0	88.0	88.0	88.0	88.0	83.8	83.8	81.6	79.5
85°	184.7	184.7	184.7	184.7	184.7	180.4	178.2	176.1	174.0	169.7	167.5
82.5°	296.4	296.4	296.4	296.4	292.1	287.8	285.6	281.3	277.0	270.6	264.1
80°	414.5	414.5	414.5	414.5	408.0	403.7	397.3	393.0	386.6	378.0	369.4
77.5°	549.8	549.8	549.8	543.3	539.0	532.6	526.2	517.6	509.0	498.2	485.3
75°	702.3	702.3	702.3	693.7	687.2	680.8	670.0	659.3	646.4	631.4	614.2
72.5°	867.6	867.6	867.6	856.9	850.4	839.7	826.8	811.8	796.7	777.4	755.9
70°	1045.9	1045.9	1045.9	1033.0	1022.2	1011.5	994.3	977.1	955.7	934.2	908.4
67.5°	1239.1	1239.1	1239.1	1224.1	1211.2	1196.2	1176.9	1155.4	1129.6	1099.5	1069.5
65°	1464.6	1464.6	1456.0	1443.2	1428.1	1406.6	1383.0	1353.0	1320.7	1282.1	1241.3
62.5°	1730.9	1730.9	1718.0	1703.0	1683.7	1655.8	1623.6	1584.9	1539.8	1490.4	1441.0
60°	2040.2	2040.2	2025.1	2005.8	1977.9	1943.5	1900.6	1851.2	1795.4	1733.1	1672.9
57.5°	2396.7	2396.7	2377.3	2351.6	2317.2	2274.3	2220.6	2158.3	2087.4	2010.1	1934.9
55°	2783.2	2783.2	2759.6	2729.5	2688.7	2637.2	2572.8	2499.8	2413.9	2325.8	2229.2
52.5°	3193.4	3193.4	3165.5	3131.1	3083.9	3023.8	2950.7	2864.8	2766.0	2663.0	2549.1
50°	3625.1	3625.1	3592.9	3554.2	3500.5	3429.6	3345.9	3247.1	3137.6	3017.3	2886.3
47.5°	4086.8	4086.8	4050.3	4005.2	3940.8	3859.2	3760.4	3646.5	3522.0	3386.7	3238.5
45°	4561.4	4561.4	4520.6	4469.1	4398.2	4305.8	4196.3	4086.8	3927.9	3771.1	3599.3
42.5°	5055.3	5055.3	5008.1	4950.1	4868.5	4767.6	4643.0	4501.3	4344.5	4168.4	3981.6
40°	5568.6	5568.6	5514.9	5448.3	5358.1	5242.2	5102.6	4943.7	4767.6	4572.1	4366.0
37.5°	6092.6	6092.6	6032.5	5959.5	5858.5	5729.7	5572.9	5396.8	5199.2	4982.3	4754.7
35°	6620.9	6620.9	6554.3	6474.9	6363.2	6221.5	6051.8	5856.4	5637.3	5401.1	5145.5
32.5°	7159.9	7159.9	7086.9	6996.7	6870.0	6713.3	6526.4	6313.8	6092.6	5817.7	5538.5
30°	7692.5	7692.5	7613.1	7514.3	7379.0	7207.2	7003.2	6769.1	6509.2	6227.9	5927.2
27.5°	8216.5	8195.1	8128.5	8023.3	7875.1	7692.5	7471.3	7217.9	6936.6	6627.4	6305.2
25°	8732.0	8708.3	8635.3	8519.3	8360.4	8160.7	7922.3	7651.7	7348.9	7022.5	6670.3
22.5°	9225.9	9200.1	9122.8	8998.2	8828.6	8611.7	8356.1	8066.2	7744.1	7394.0	7022.5
20°	9683.3	9655.4	9575.9	9444.9	9268.8	9039.1	8768.5	8457.1	8113.5	7744.1	7348.9
17.5°	10095.6	10067.7	9984.0	9848.7	9683.3	9427.8	9148.6	8820.0	8457.1	8066.2	7651.7
15°	10458.6	10428.5	10342.6	10207.3	10018.3	9777.8	9483.6	9148.6	8768.5	8356.1	7922.3
12.5°	10767.8	10737.8	10649.7	10514.4	10319.0	10078.5	9777.8	9427.8	9039.1	8611.7	8160.7
10°	11012.7	10982.6	10898.8	10770.0	10568.1	10319.0	10018.3	9683.3	9268.8	8828.6	8360.4
7.5°	11188.8	11160.8	11083.5	10954.7	10770.0	10514.4	10207.3	9848.7	9444.9	8998.2	8519.3
5°	11321.9	11289.7	11212.4	11083.5	10898.8	10649.7	10342.6	9984.0	9575.9	9122.8	8635.3
2.5°	11414.2	11375.6	11289.7	11160.8	10982.6	10737.8	10428.5	10067.7	9655.4	9200.1	8708.3
0°	11440.0	11414.2	11321.9	11188.8	11012.7	10767.8	10458.6	10095.6	9683.3	9225.9	8732.0

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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°	77.3	77.3	75.2	73.0	70.9	66.6	64.4	62.3	60.1	55.8	53.7
85°	163.2	158.9	154.6	150.3	143.9	139.6	133.1	128.9	122.4	116.0	109.5
82.5°	257.7	251.3	242.7	236.2	227.6	216.9	208.3	197.6	186.8	178.2	167.5
80°	360.8	350.1	339.3	328.6	315.7	302.8	289.9	277.0	262.0	247.0	231.9
77.5°	472.5	457.4	442.4	425.2	410.2	393.0	375.8	358.6	339.3	320.0	300.7
75°	597.0	577.7	556.2	534.7	515.4	491.8	468.2	444.5	418.8	395.1	369.4
72.5°	732.3	708.7	682.9	657.2	629.2	599.2	569.1	536.9	506.8	476.8	444.5
70°	878.3	850.4	818.2	786.0	751.6	715.1	678.6	640.0	601.3	562.7	524.0
67.5°	1035.1	1000.8	962.1	923.4	880.5	837.5	794.6	749.5	702.3	655.0	609.9
65°	1202.6	1159.7	1114.6	1065.2	1015.8	966.4	914.9	861.2	807.5	751.6	702.3
62.5°	1389.5	1335.8	1277.8	1217.7	1161.8	1101.7	1045.9	979.3	914.9	852.6	790.3
60°	1606.4	1535.5	1464.6	1389.5	1318.6	1241.3	1172.6	1099.5	1026.5	955.7	882.6
57.5°	1849.0	1758.8	1672.9	1582.7	1488.3	1402.4	1314.3	1226.3	1144.6	1060.9	981.4
55°	2123.9	2014.4	1907.0	1795.4	1685.8	1578.5	1466.8	1368.0	1267.1	1172.6	1080.2
52.5°	2424.6	2300.0	2166.9	2040.2	1900.6	1767.4	1642.9	1518.3	1400.2	1286.4	1181.2
50°	2746.7	2600.7	2448.2	2293.6	2134.7	1977.9	1827.6	1681.5	1544.1	1410.9	1286.4
47.5°	3081.7	2916.4	2742.4	2566.3	2396.7	2205.5	2025.1	1859.8	1694.4	1544.1	1400.2
45°	3425.3	3238.5	3047.4	2847.7	2647.9	2441.8	2242.0	2040.2	1859.8	1681.5	1518.3
42.5°	3779.7	3569.2	3356.6	3135.4	2914.2	2688.7	2463.2	2242.0	2025.1	1827.6	1642.9
40°	4144.8	3912.8	3670.2	3429.6	3193.4	2935.7	2688.7	2441.8	2205.5	1977.9	1767.4
37.5°	4509.9	4256.5	3994.4	3723.9	3453.3	3193.4	2914.2	2647.9	2396.7	2134.7	1900.6
35°	4877.1	4597.9	4314.4	4020.2	3723.9	3429.6	3135.4	2847.7	2566.3	2293.6	2040.2
32.5°	5246.5	4941.5	4628.0	4314.4	3994.4	3670.2	3356.6	3047.4	2742.4	2448.2	2166.9
30°	5609.4	5278.7	4941.5	4597.9	4256.5	3912.8	3569.2	3238.5	2916.4	2600.7	2300.0
27.5°	5963.8	5609.4	5246.5	4877.1	4509.9	4144.8	3779.7	3425.3	3081.7	2746.7	2424.6
25°	6305.2	5927.2	5538.5	5145.5	4754.7	4366.0	3981.6	3599.3	3238.5	2886.3	2549.1
22.5°	6627.4	6227.9	5817.7	5401.1	4982.3	4572.1	4168.4	3771.1	3386.7	3017.3	2663.0
20°	6936.6	6509.2	6092.6	5637.3	5199.2	4767.6	4344.5	3927.9	3522.0	3137.6	2766.0
17.5°	7217.9	6769.1	6313.8	5856.4	5396.8	4943.7	4501.3	4086.8	3646.5	3247.1	2864.8
15°	7471.3	7003.2	6526.4	6051.8	5572.9	5102.6	4643.0	4196.3	3760.4	3345.9	2950.7
12.5°	7692.5	7207.2	6713.3	6221.5	5729.7	5242.2	4767.6	4305.8	3859.2	3429.6	3023.8
10°	7875.1	7379.0	6870.0	6363.2	5858.5	5358.1	4868.5	4398.2	3940.8	3500.5	3083.9
7.5°	8023.3	7514.3	6996.7	6474.9	5959.5	5448.3	4950.1	4469.1	4005.2	3554.2	3131.1
5°	8128.5	7613.1	7086.9	6554.3	6032.5	5514.9	5008.1	4520.6	4050.3	3592.9	3165.5
2.5°	8195.1	7692.5	7159.9	6620.9	6092.6	5568.6	5055.3	4561.4	4086.8	3625.1	3193.4
0°	8216.5	7692.5	7159.9	6620.9	6092.6	5568.6	5055.3	4561.4	4086.8	3625.1	3193.4

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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°	51.5	47.2	43.0	40.8	36.5	34.4	30.1	25.8	23.6	19.3	15.0
85°	103.1	94.5	88.0	81.6	75.2	66.6	60.1	53.7	45.1	38.7	30.1
82.5°	156.8	146.0	135.3	124.6	113.8	103.1	90.2	79.5	68.7	58.0	45.1
80°	216.9	199.7	184.7	169.7	154.6	139.6	122.4	107.4	90.2	75.2	60.1
77.5°	279.2	259.9	238.4	216.9	195.4	176.1	154.6	135.3	116.0	94.5	75.2
75°	345.8	320.0	296.4	268.4	242.7	214.8	189.0	163.2	139.6	116.0	90.2
72.5°	414.5	382.3	350.1	320.0	287.8	255.6	225.5	193.3	163.2	135.3	107.4
70°	485.3	446.7	408.0	371.5	335.0	296.4	262.0	225.5	189.0	154.6	122.4
67.5°	560.5	515.4	470.3	423.1	382.3	339.3	296.4	255.6	214.8	176.1	139.6
65°	642.1	588.4	532.6	483.2	429.5	382.3	335.0	287.8	242.7	195.4	154.6
62.5°	725.9	663.6	601.3	539.0	483.2	423.1	371.5	320.0	268.4	216.9	169.7
60°	811.8	740.9	670.0	601.3	532.6	470.3	408.0	350.1	296.4	238.4	184.7
57.5°	899.8	820.4	740.9	663.6	588.4	515.4	446.7	382.3	320.0	259.9	199.7
55°	990.0	899.8	811.8	725.9	642.1	560.5	485.3	414.5	345.8	279.2	216.9
52.5°	1080.2	981.4	882.6	790.3	702.3	609.9	524.0	444.5	369.4	300.7	231.9
50°	1172.6	1060.9	955.7	852.6	751.6	655.0	562.7	476.8	395.1	320.0	247.0
47.5°	1267.1	1144.6	1026.5	914.9	807.5	702.3	601.3	506.8	418.8	339.3	262.0
45°	1368.0	1226.3	1099.5	979.3	861.2	749.5	640.0	536.9	444.5	358.6	277.0
42.5°	1466.8	1314.3	1172.6	1045.9	914.9	794.6	678.6	569.1	468.2	375.8	289.9
40°	1578.5	1402.4	1241.3	1101.7	966.4	837.5	715.1	599.2	491.8	393.0	302.8
37.5°	1685.8	1488.3	1318.6	1161.8	1015.8	880.5	751.6	629.2	515.4	410.2	315.7
35°	1795.4	1582.7	1389.5	1217.7	1065.2	923.4	786.0	657.2	534.7	425.2	328.6
32.5°	1907.0	1672.9	1464.6	1277.8	1114.6	962.1	818.2	682.9	556.2	442.4	339.3
30°	2014.4	1758.8	1535.5	1335.8	1159.7	1000.8	850.4	708.7	577.7	457.4	350.1
27.5°	2123.9	1849.0	1606.4	1389.5	1202.6	1035.1	878.3	732.3	597.0	472.5	360.8
25°	2229.2	1934.9	1672.9	1441.0	1241.3	1069.5	908.4	755.9	614.2	485.3	369.4
22.5°	2325.8	2010.1	1733.1	1490.4	1282.1	1099.5	934.2	777.4	631.4	498.2	378.0
20°	2413.9	2087.4	1795.4	1539.8	1320.7	1129.6	955.7	796.7	646.4	509.0	386.6
17.5°	2499.8	2158.3	1851.2	1584.9	1353.0	1155.4	977.1	811.8	659.3	517.6	393.0
15°	2572.8	2220.6	1900.6	1623.6	1383.0	1176.9	994.3	826.8	670.0	526.2	397.3
12.5°	2637.2	2274.3	1943.5	1655.8	1406.6	1196.2	1011.5	839.7	680.8	532.6	403.7
10°	2688.7	2317.2	1977.9	1683.7	1428.1	1211.2	1022.2	850.4	687.2	539.0	408.0
7.5°	2729.5	2351.6	2005.8	1703.0	1443.2	1224.1	1033.0	856.9	693.7	543.3	414.5
5°	2759.6	2377.3	2025.1	1718.0	1456.0	1239.1	1045.9	867.6	702.3	549.8	414.5
2.5°	2783.2	2396.7	2040.2	1730.9	1464.6	1239.1	1045.9	867.6	702.3	549.8	414.5
0°	2783.2	2396.7	2040.2	1730.9	1464.6	1239.1	1045.9	867.6	702.3	549.8	414.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.7	8.6	4.3	0.0
85°	23.6	15.0	8.6	0.0
82.5°	34.4	23.6	10.7	0.0
80°	45.1	30.1	15.0	0.0
77.5°	58.0	38.7	19.3	0.0
75°	68.7	45.1	23.6	0.0
72.5°	79.5	53.7	25.8	0.0
70°	90.2	60.1	30.1	0.0
67.5°	103.1	66.6	34.4	0.0
65°	113.8	75.2	36.5	0.0
62.5°	124.6	81.6	40.8	0.0
60°	135.3	88.0	43.0	0.0
57.5°	146.0	94.5	47.2	0.0
55°	156.8	103.1	51.5	0.0
52.5°	167.5	109.5	53.7	0.0
50°	178.2	116.0	55.8	0.0
47.5°	186.8	122.4	60.1	0.0
45°	197.6	128.9	62.3	0.0
42.5°	208.3	133.1	64.4	0.0
40°	216.9	139.6	66.6	0.0
37.5°	227.6	143.9	70.9	0.0
35°	236.2	150.3	73.0	0.0
32.5°	242.7	154.6	75.2	0.0
30°	251.3	158.9	77.3	0.0
27.5°	257.7	163.2	77.3	0.0
25°	264.1	167.5	79.5	0.0
22.5°	270.6	169.7	81.6	0.0
20°	277.0	174.0	83.8	0.0
17.5°	281.3	176.1	83.8	0.0
15°	285.6	178.2	88.0	0.0
12.5°	287.8	180.4	88.0	0.0
10°	292.1	184.7	88.0	0.0
7.5°	296.4	184.7	88.0	0.0
5°	296.4	184.7	88.0	0.0
2.5°	296.4	184.7	88.0	0.0
0°	296.4	184.7	88.0	0.0

(END OF REPORT)