

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: P623800

Luminaire Tested: **IFLD-M-SA4D-830-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	25919.1 lumens	Max Intensity:	31674.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	103.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

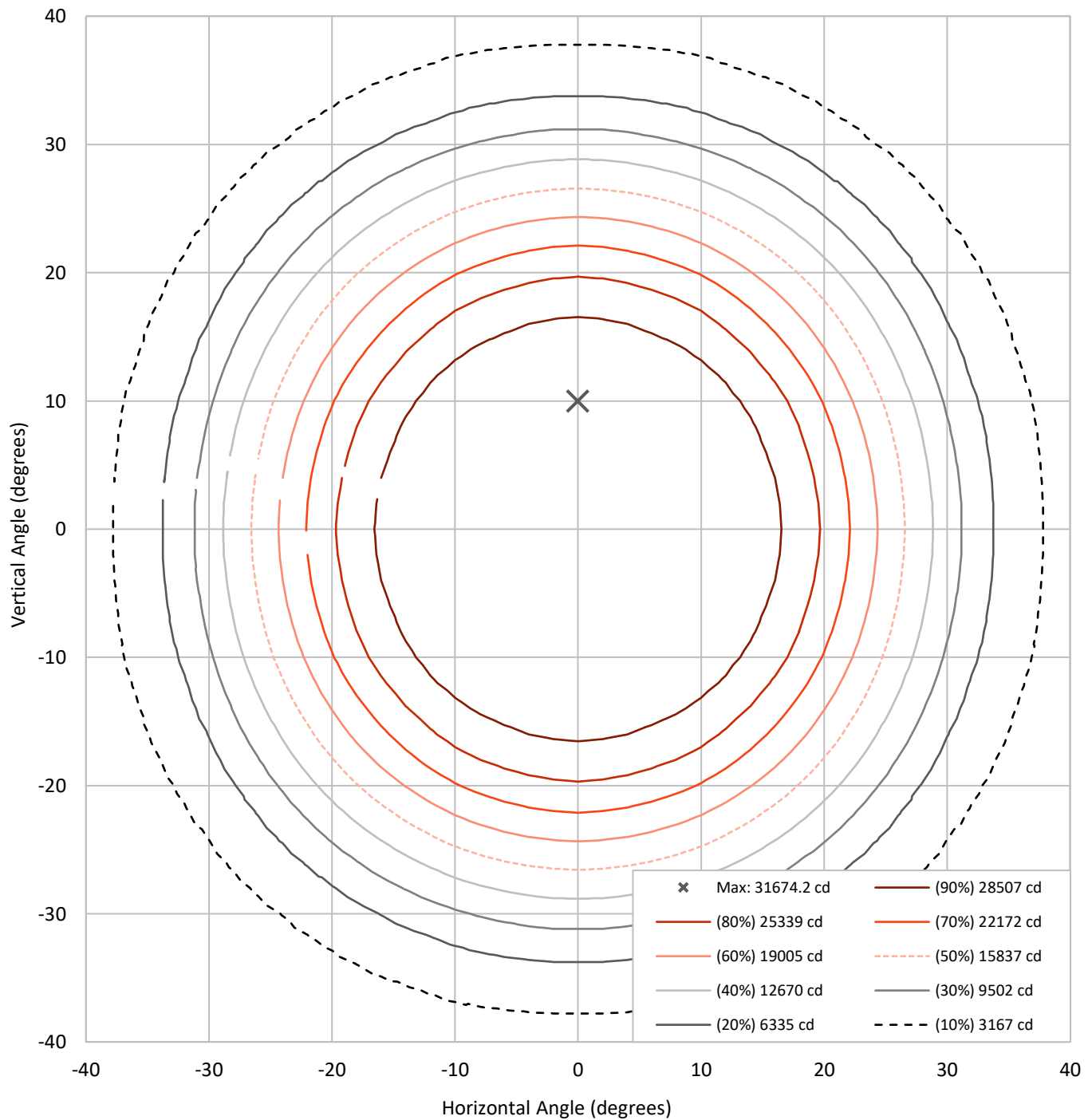
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	12882.4 lumens	Field Lumens:	16754 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 249.7
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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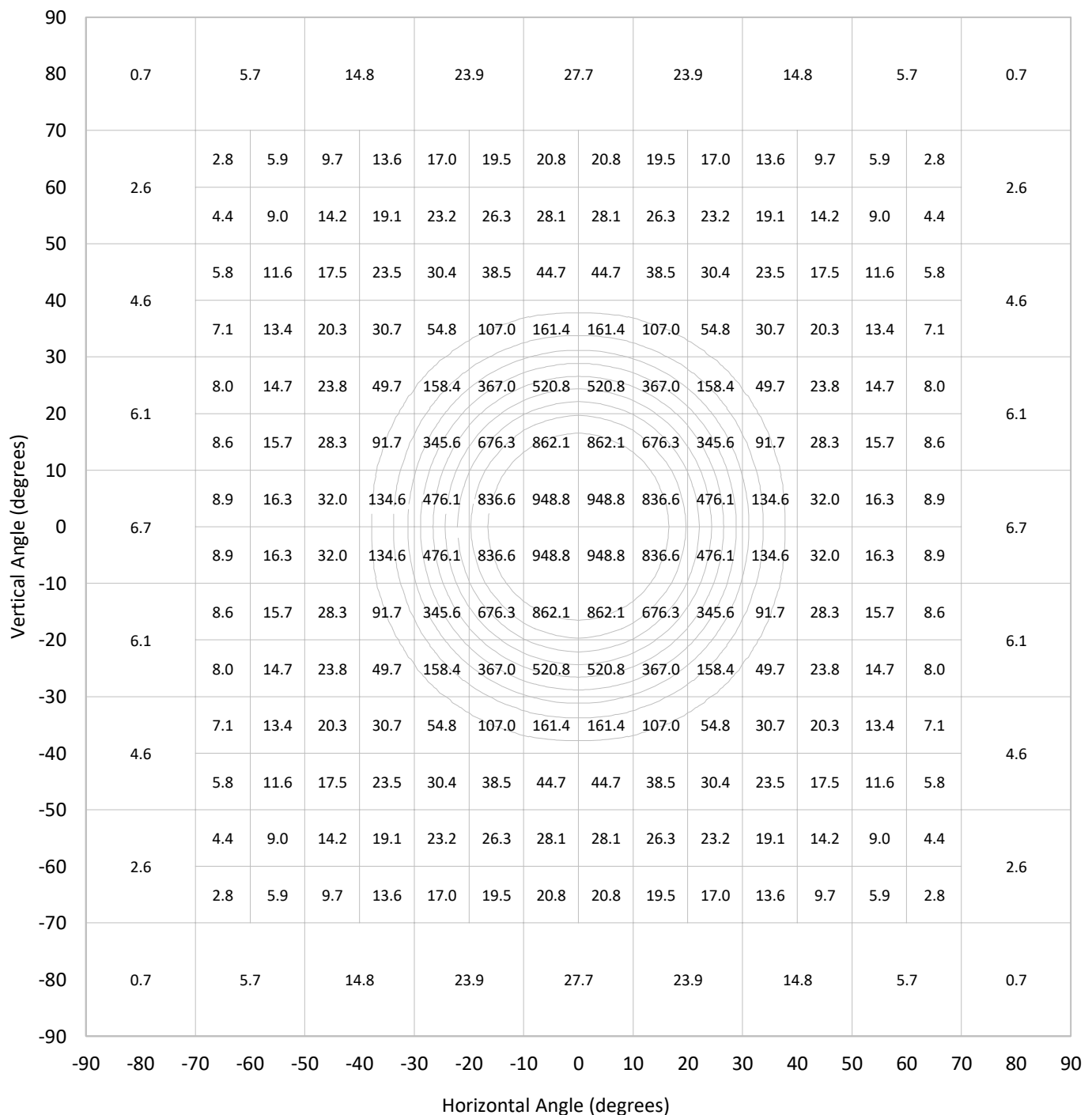
Iso-Candela Plot





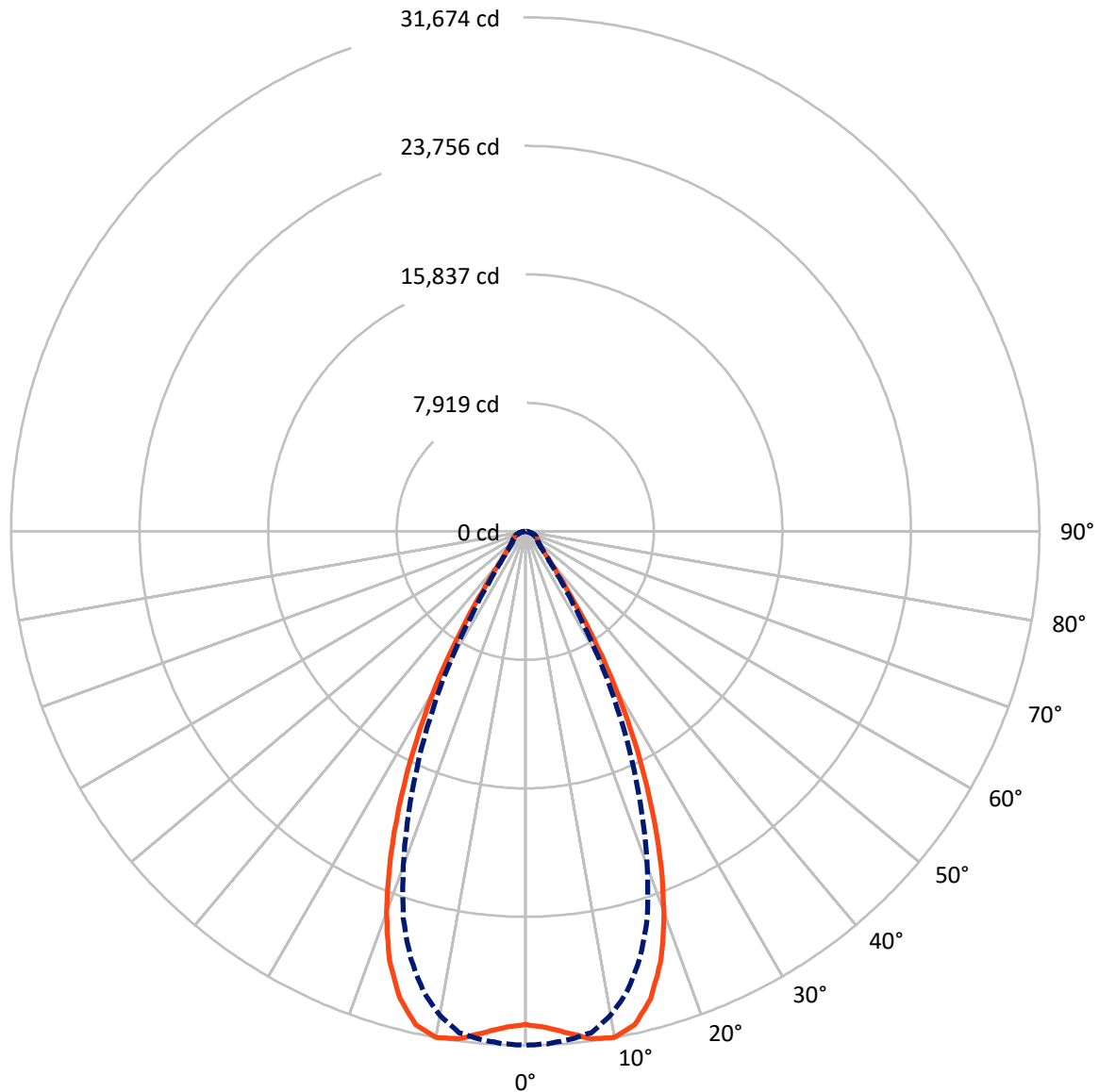
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Lumen Table



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Luminous Intensity Polar Plot

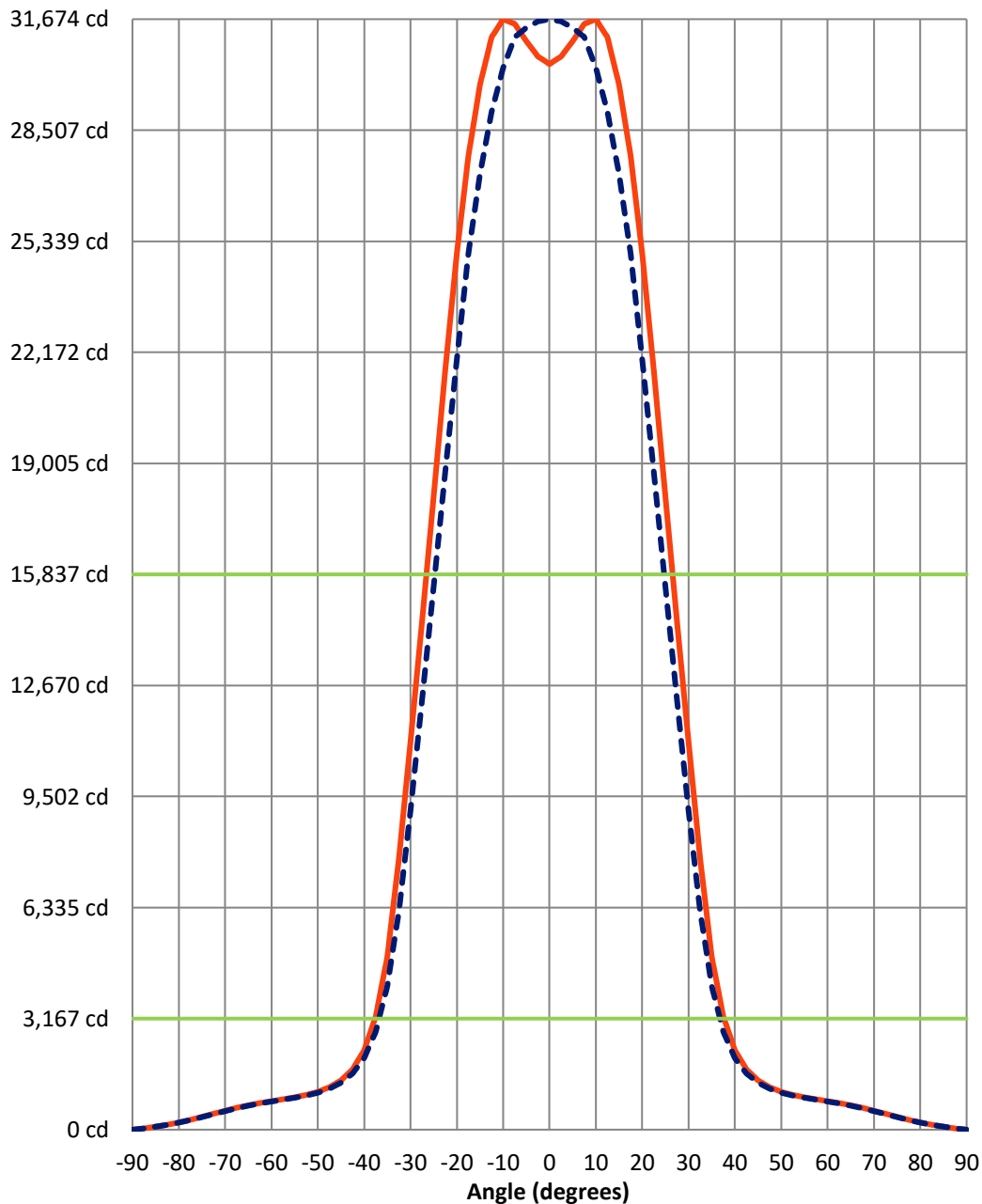


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 12882.4
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 16754
Efficiency: 64.6%

Spill:

Lumens: 9165.1
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	32.3	32.3	32.3	32.3
85°	86.2	86.2	86.2	86.2	86.2	83.5	83.5	80.8	80.8	78.1	75.4
82.5°	140.0	140.0	140.0	140.0	137.3	137.3	134.6	131.9	129.2	126.5	123.9
80°	204.6	204.6	204.6	204.6	201.9	199.2	196.6	193.9	188.5	185.8	180.4
77.5°	280.0	280.0	280.0	277.3	274.6	271.9	266.6	261.2	255.8	250.4	245.0
75°	366.2	366.2	366.2	360.8	358.1	352.7	347.3	341.9	333.9	325.8	317.7
72.5°	455.0	455.0	455.0	449.6	444.3	438.9	433.5	425.4	417.3	406.6	395.8
70°	538.5	538.5	538.5	533.1	527.7	522.3	514.3	506.2	495.4	484.6	473.9
67.5°	624.7	624.7	624.7	616.6	611.2	605.8	597.7	587.0	576.2	562.7	549.3
65°	694.7	694.7	692.0	689.3	683.9	675.8	670.4	659.7	648.9	638.1	624.7
62.5°	759.3	759.3	756.6	753.9	748.5	740.4	732.4	724.3	713.5	700.0	686.6
60°	813.1	813.1	810.4	807.7	802.4	797.0	788.9	780.8	770.0	759.3	745.8
57.5°	867.0	867.0	864.3	861.6	856.2	848.1	840.0	832.0	821.2	807.7	794.3
55°	923.5	923.5	920.8	915.4	910.1	902.0	893.9	883.1	869.7	856.2	842.7
52.5°	990.8	990.8	985.4	980.1	972.0	963.9	950.4	937.0	920.8	904.7	888.5
50°	1079.7	1079.7	1074.3	1066.2	1052.8	1039.3	1023.1	1001.6	982.8	961.2	939.7
47.5°	1211.6	1211.6	1200.8	1187.4	1168.5	1147.0	1117.4	1085.1	1058.1	1031.2	998.9
45°	1405.5	1405.5	1389.3	1367.8	1338.2	1300.5	1257.4	1211.6	1165.8	1120.1	1074.3
42.5°	1720.5	1720.5	1690.9	1653.2	1602.0	1537.4	1456.6	1381.2	1316.6	1243.9	1182.0
40°	2264.4	2264.4	2207.8	2137.8	2040.9	1917.0	1769.0	1650.5	1537.4	1410.9	1324.7
37.5°	3231.0	3231.0	3120.6	2985.9	2797.5	2560.5	2275.1	2084.0	1874.0	1674.7	1529.3
35°	4938.0	4938.0	4725.3	4464.1	4100.6	3642.9	3155.6	2794.8	2393.6	2086.7	1814.7
32.5°	7738.1	7738.1	7355.8	6884.6	6235.8	5414.6	4633.7	3947.2	3231.0	2722.1	2232.1
30°	11066.0	11066.0	10565.2	9948.7	9103.2	8037.0	6925.0	5705.3	4574.5	3667.1	2926.7
27.5°	14507.0	14364.3	13933.5	13230.8	12266.9	11066.0	9679.4	8104.3	6575.0	4975.7	3917.5
25°	18066.5	17899.5	17406.8	16599.1	15495.1	14135.4	12573.8	10812.9	8925.5	7019.3	5188.4
22.5°	21663.6	21475.1	20915.1	20002.3	18763.8	17239.9	15470.9	13513.5	11405.3	9202.9	7019.3
20°	24988.8	24789.5	24202.6	23252.1	21970.5	20298.5	18333.0	16162.9	13831.2	11405.3	8925.5
17.5°	27772.8	27581.6	27016.2	26108.8	24988.8	23139.1	21095.5	18709.9	16162.9	13513.5	10812.9
15°	29805.6	29641.4	29159.4	28397.4	27255.8	25618.8	23537.5	21095.5	18333.0	15470.9	12573.8
12.5°	31154.5	31022.6	30643.0	30050.6	29027.5	27654.3	25618.8	23139.1	20298.5	17239.9	14135.4
10°	31674.2	31609.6	31431.9	31159.9	30287.6	29027.5	27255.8	24988.8	21970.5	18763.8	15495.1
7.5°	31536.9	31558.4	31620.3	31550.3	31159.9	30050.6	28397.4	26108.8	23252.1	20002.3	16599.1
5°	31046.8	31162.6	31450.7	31620.3	31431.9	30643.0	29159.4	27016.2	24202.6	20915.1	17406.8
2.5°	30610.7	30791.0	31162.6	31558.4	31609.6	31022.6	29641.4	27581.6	24789.5	21475.1	17899.5
0°	30395.3	30610.7	31046.8	31536.9	31674.2	31154.5	29805.6	27772.8	24988.8	21663.6	18066.5

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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°	32.3	29.6	29.6	29.6	26.9	26.9	26.9	24.2	24.2	21.5	21.5
85°	75.4	72.7	70.0	67.3	64.6	61.9	59.2	56.5	53.8	48.5	45.8
82.5°	121.2	118.5	115.8	110.4	107.7	102.3	96.9	91.5	86.2	83.5	78.1
80°	175.0	169.6	164.2	158.9	150.8	142.7	137.3	129.2	123.9	115.8	110.4
77.5°	236.9	228.9	220.8	210.0	201.9	193.9	183.1	175.0	164.2	153.5	142.7
75°	306.9	296.2	282.7	271.9	261.2	247.7	234.2	220.8	207.3	193.9	180.4
72.5°	382.3	368.9	355.4	341.9	325.8	306.9	290.8	271.9	255.8	239.6	220.8
70°	460.4	444.3	428.1	411.9	393.1	371.6	352.7	331.2	309.6	288.1	266.6
67.5°	533.1	517.0	498.1	482.0	460.4	438.9	414.6	390.4	366.2	339.3	312.3
65°	608.5	589.7	568.1	546.6	525.0	500.8	476.6	452.3	422.7	393.1	366.2
62.5°	670.4	654.3	635.4	613.9	589.7	562.7	538.5	506.2	476.6	446.9	411.9
60°	729.7	710.8	694.7	670.4	648.9	624.7	595.0	562.7	530.4	495.4	463.1
57.5°	780.8	764.7	745.8	724.3	700.0	675.8	648.9	619.3	581.6	546.6	508.9
55°	826.6	807.7	788.9	770.0	748.5	721.6	694.7	665.0	632.7	595.0	554.6
52.5°	872.4	853.5	832.0	813.1	788.9	764.7	737.7	708.1	675.8	640.8	597.7
50°	918.1	896.6	875.1	850.8	826.6	802.4	775.4	748.5	713.5	678.5	640.8
47.5°	972.0	945.1	918.1	891.2	867.0	837.4	810.4	780.8	751.2	713.5	675.8
45°	1039.3	998.9	966.6	934.3	904.7	875.1	842.7	813.1	780.8	748.5	708.1
42.5°	1122.8	1068.9	1025.8	982.8	945.1	910.1	877.7	842.7	810.4	775.4	737.7
40°	1235.8	1163.1	1093.1	1039.3	990.8	947.7	910.1	875.1	837.4	802.4	764.7
37.5°	1383.9	1281.6	1184.7	1106.6	1044.7	990.8	945.1	904.7	867.0	826.6	788.9
35°	1607.4	1429.7	1305.8	1192.8	1106.6	1039.3	982.8	934.3	891.2	850.8	813.1
32.5°	1922.4	1647.8	1448.5	1305.8	1184.7	1093.1	1025.8	966.6	918.1	875.1	832.0
30°	2337.1	1957.4	1647.8	1429.7	1281.6	1163.1	1068.9	998.9	945.1	896.6	853.5
27.5°	2994.0	2337.1	1922.4	1607.4	1383.9	1235.8	1122.8	1039.3	972.0	918.1	872.4
25°	3917.5	2926.7	2232.1	1814.7	1529.3	1324.7	1182.0	1074.3	998.9	939.7	888.5
22.5°	4975.7	3667.1	2722.1	2086.7	1674.7	1410.9	1243.9	1120.1	1031.2	961.2	904.7
20°	6575.0	4574.5	3231.0	2393.6	1874.0	1537.4	1316.6	1165.8	1058.1	982.8	920.8
17.5°	8104.3	5705.3	3947.2	2794.8	2084.0	1650.5	1381.2	1211.6	1085.1	1001.6	937.0
15°	9679.4	6925.0	4633.7	3155.6	2275.1	1769.0	1456.6	1257.4	1117.4	1023.1	950.4
12.5°	11066.0	8037.0	5414.6	3642.9	2560.5	1917.0	1537.4	1300.5	1147.0	1039.3	963.9
10°	12266.9	9103.2	6235.8	4100.6	2797.5	2040.9	1602.0	1338.2	1168.5	1052.8	972.0
7.5°	13230.8	9948.7	6884.6	4464.1	2985.9	2137.8	1653.2	1367.8	1187.4	1066.2	980.1
5°	13933.5	10565.2	7355.8	4725.3	3120.6	2207.8	1690.9	1389.3	1200.8	1074.3	985.4
2.5°	14364.3	11066.0	7738.1	4938.0	3231.0	2264.4	1720.5	1405.5	1211.6	1079.7	990.8
0°	14507.0	11066.0	7738.1	4938.0	3231.0	2264.4	1720.5	1405.5	1211.6	1079.7	990.8

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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°	18.8	18.8	16.2	16.2	13.5	13.5	10.8	10.8	8.1	8.1	5.4
85°	43.1	37.7	35.0	32.3	29.6	26.9	24.2	21.5	18.8	16.2	13.5
82.5°	72.7	67.3	59.2	53.8	48.5	43.1	35.0	32.3	26.9	21.5	18.8
80°	102.3	94.2	86.2	78.1	70.0	61.9	53.8	45.8	37.7	29.6	24.2
77.5°	131.9	121.2	113.1	102.3	91.5	80.8	70.0	59.2	48.5	37.7	29.6
75°	166.9	153.5	140.0	126.5	113.1	99.6	88.9	75.4	61.9	48.5	37.7
72.5°	204.6	185.8	169.6	153.5	134.6	121.2	105.0	91.5	75.4	59.2	45.8
70°	245.0	223.5	201.9	180.4	161.5	140.0	123.9	105.0	88.9	70.0	53.8
67.5°	285.4	261.2	236.9	210.0	185.8	164.2	140.0	121.2	99.6	80.8	61.9
65°	333.9	301.6	271.9	242.3	212.7	185.8	161.5	134.6	113.1	91.5	70.0
62.5°	379.6	344.6	309.6	274.6	242.3	210.0	180.4	153.5	126.5	102.3	78.1
60°	425.4	387.7	347.3	309.6	271.9	236.9	201.9	169.6	140.0	113.1	86.2
57.5°	471.2	428.1	387.7	344.6	301.6	261.2	223.5	185.8	153.5	121.2	94.2
55°	511.6	471.2	425.4	379.6	333.9	285.4	245.0	204.6	166.9	131.9	102.3
52.5°	554.6	508.9	463.1	411.9	366.2	312.3	266.6	220.8	180.4	142.7	110.4
50°	595.0	546.6	495.4	446.9	393.1	339.3	288.1	239.6	193.9	153.5	115.8
47.5°	632.7	581.6	530.4	476.6	422.7	366.2	309.6	255.8	207.3	164.2	123.9
45°	665.0	619.3	562.7	506.2	452.3	390.4	331.2	271.9	220.8	175.0	129.2
42.5°	694.7	648.9	595.0	538.5	476.6	414.6	352.7	290.8	234.2	183.1	137.3
40°	721.6	675.8	624.7	562.7	500.8	438.9	371.6	306.9	247.7	193.9	142.7
37.5°	748.5	700.0	648.9	589.7	525.0	460.4	393.1	325.8	261.2	201.9	150.8
35°	770.0	724.3	670.4	613.9	546.6	482.0	411.9	341.9	271.9	210.0	158.9
32.5°	788.9	745.8	694.7	635.4	568.1	498.1	428.1	355.4	282.7	220.8	164.2
30°	807.7	764.7	710.8	654.3	589.7	517.0	444.3	368.9	296.2	228.9	169.6
27.5°	826.6	780.8	729.7	670.4	608.5	533.1	460.4	382.3	306.9	236.9	175.0
25°	842.7	794.3	745.8	686.6	624.7	549.3	473.9	395.8	317.7	245.0	180.4
22.5°	856.2	807.7	759.3	700.0	638.1	562.7	484.6	406.6	325.8	250.4	185.8
20°	869.7	821.2	770.0	713.5	648.9	576.2	495.4	417.3	333.9	255.8	188.5
17.5°	883.1	832.0	780.8	724.3	659.7	587.0	506.2	425.4	341.9	261.2	193.9
15°	893.9	840.0	788.9	732.4	670.4	597.7	514.3	433.5	347.3	266.6	196.6
12.5°	902.0	848.1	797.0	740.4	675.8	605.8	522.3	438.9	352.7	271.9	199.2
10°	910.1	856.2	802.4	748.5	683.9	611.2	527.7	444.3	358.1	274.6	201.9
7.5°	915.4	861.6	807.7	753.9	689.3	616.6	533.1	449.6	360.8	277.3	204.6
5°	920.8	864.3	810.4	756.6	692.0	624.7	538.5	455.0	366.2	280.0	204.6
2.5°	923.5	867.0	813.1	759.3	694.7	624.7	538.5	455.0	366.2	280.0	204.6
0°	923.5	867.0	813.1	759.3	694.7	624.7	538.5	455.0	366.2	280.0	204.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.7	0.0
85°	8.1	5.4	2.7	0.0
82.5°	13.5	8.1	5.4	0.0
80°	18.8	13.5	5.4	0.0
77.5°	21.5	16.2	8.1	0.0
75°	26.9	18.8	8.1	0.0
72.5°	32.3	21.5	10.8	0.0
70°	35.0	24.2	10.8	0.0
67.5°	43.1	26.9	13.5	0.0
65°	48.5	29.6	13.5	0.0
62.5°	53.8	32.3	16.2	0.0
60°	59.2	35.0	16.2	0.0
57.5°	67.3	37.7	18.8	0.0
55°	72.7	43.1	18.8	0.0
52.5°	78.1	45.8	21.5	0.0
50°	83.5	48.5	21.5	0.0
47.5°	86.2	53.8	24.2	0.0
45°	91.5	56.5	24.2	0.0
42.5°	96.9	59.2	26.9	0.0
40°	102.3	61.9	26.9	0.0
37.5°	107.7	64.6	26.9	0.0
35°	110.4	67.3	29.6	0.0
32.5°	115.8	70.0	29.6	0.0
30°	118.5	72.7	29.6	0.0
27.5°	121.2	75.4	32.3	0.0
25°	123.9	75.4	32.3	0.0
22.5°	126.5	78.1	32.3	0.0
20°	129.2	80.8	32.3	0.0
17.5°	131.9	80.8	32.3	0.0
15°	134.6	83.5	35.0	0.0
12.5°	137.3	83.5	35.0	0.0
10°	137.3	86.2	35.0	0.0
7.5°	140.0	86.2	35.0	0.0
5°	140.0	86.2	35.0	0.0
2.5°	140.0	86.2	35.0	0.0
0°	140.0	86.2	35.0	0.0

(END OF REPORT)