Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P722922

Luminaire Tested: **IFLD-S-SA6E-740-U-11**

Issue Date: 01/11/2023

Report Generated By 670245763

Test Information

Test Method:	LM-79-2019
Report Number:	P722922
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	01/11/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	IFLD-S-SA6E-740-U-11
Description:	Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 1 distribution lens
Light Source:	(96) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	1H x 1V
Luminaire Lumens:	27907.1 lumens	Max Intensity:	836419.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	60.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	8.3°H x 8.9°V	Field Angle (10%):	14.9°H x 14.6°V
Beam Lumens:	9402 lumens	Field Lumens:	14850.9 lumens
Beam Efficiency:	33.7%	Field Efficiency:	53.2%

Input Watts (W):	464.2
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:	28.75 FT

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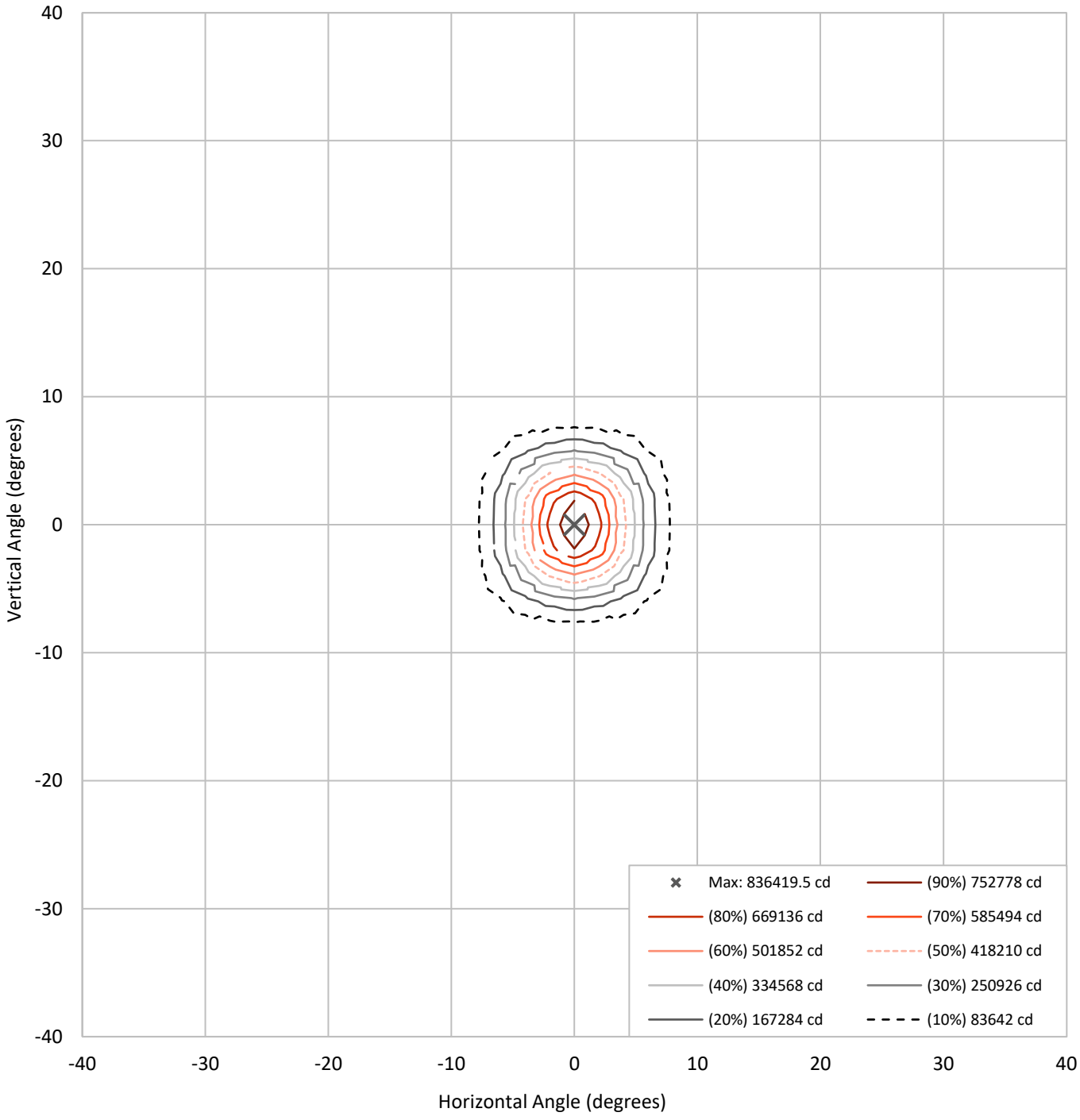
Iso-Candela Plot



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Lumen Table

Vertical Angle (degrees)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
90	0.1	1.1		3.8		8.7		15.2			8.7		3.8		1.1		0.1		
80																			
70	0.6	0.7	1.9	3.9	6.0	7.4	12.1	22.4	22.4		12.1	7.4	6.0	3.9	1.9	0.7	0.6		
60		1.4	3.4	7.1	11.1	14.4	19.3	27.3	27.3		19.3	14.4	11.1	7.1	3.4	1.4			
50	2.0	2.5	5.3	10.9	18.2	26.8	34.9	42.9	42.9		34.9	26.8	18.2	10.9	5.3	2.5	2.0		
40		3.9	7.4	15.6	28.1	37.7	41.8	44.5	44.5		41.8	37.7	28.1	15.6	7.4	3.9			
30	3.8	5.7	10.3	21.9	34.5	39.5	52.3	69.7	69.7		52.3	39.5	34.5	21.9	10.3	5.7	3.8		
20		7.8	14.4	28.8	37.9	50.8	101.9	195.7	195.7		101.9	50.8	37.9	28.8	14.4	7.8			
10	4.4	8.7	17.6	32.6	39.7	66.8	202.8	5448.7	5448.7		202.8	66.8	39.7	32.6	17.6	8.7	4.4		
0		8.7	17.6	32.6	39.7	66.8	202.8	5448.7	5448.7		202.8	66.8	39.7	32.6	17.6	8.7			
-10	3.8	7.8	14.4	28.8	37.9	50.8	101.9	195.7	195.7		101.9	50.8	37.9	28.8	14.4	7.8	3.8		
-20		5.7	10.3	21.9	34.5	39.5	52.3	69.7	69.7		52.3	39.5	34.5	21.9	10.3	5.7			
-30	2.0	3.9	7.4	15.6	28.1	37.7	41.8	44.5	44.5		41.8	37.7	28.1	15.6	7.4	3.9	2.0		
-40		2.5	5.3	10.9	18.2	26.8	34.9	42.9	42.9		34.9	26.8	18.2	10.9	5.3	2.5			
-50	0.6	1.4	3.4	7.1	11.1	14.4	19.3	27.3	27.3		19.3	14.4	11.1	7.1	3.4	1.4	0.6		
-60		0.7	1.9	3.9	6.0	7.4	12.1	22.4	22.4		12.1	7.4	6.0	3.9	1.9	0.7			
-70																			
-80	0.1	1.1		3.8		8.7		15.2			8.7		3.8		1.1		0.1		
-90																			

Horizontal Angle (degrees)

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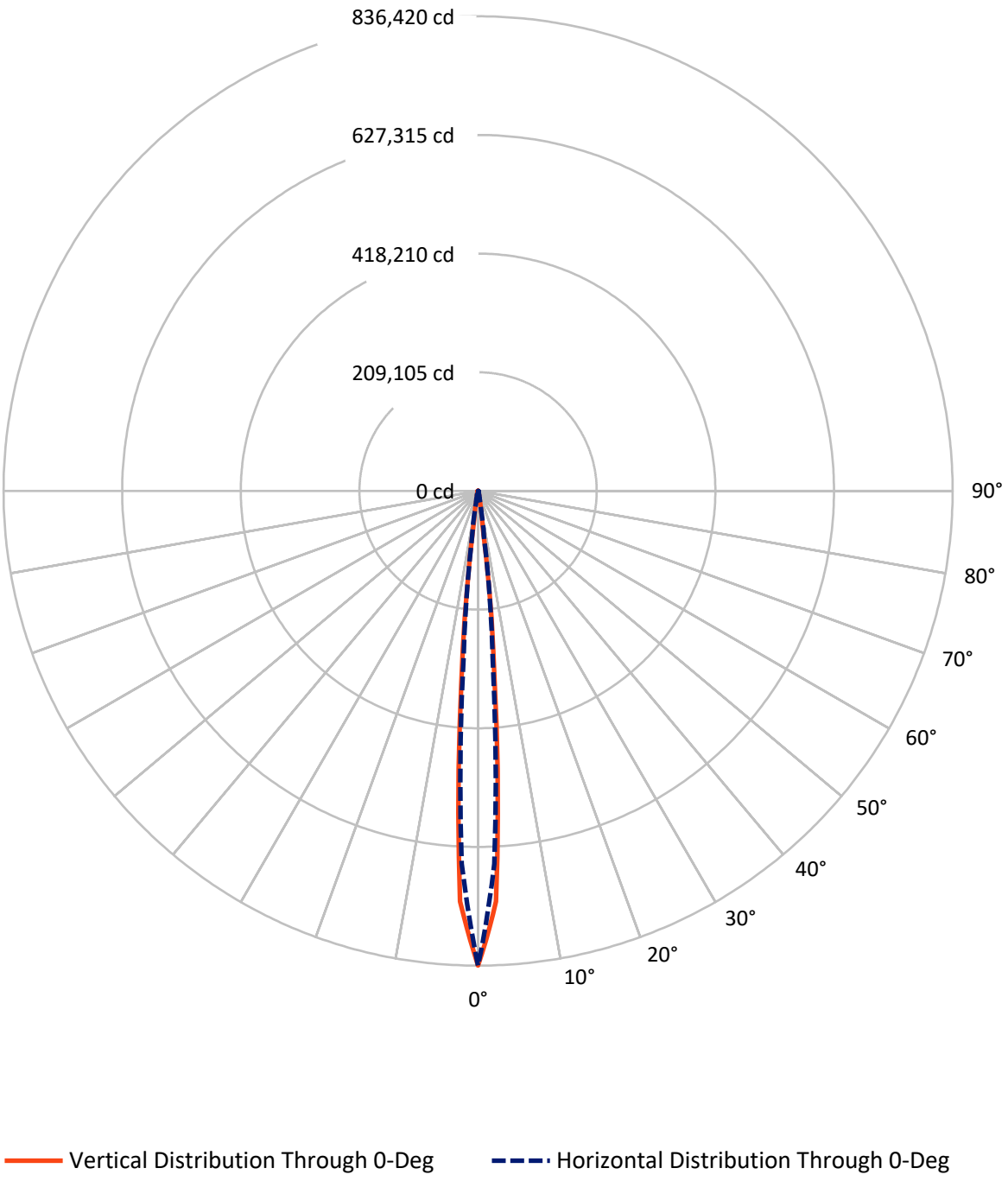
Luminous Intensity Polar Plot



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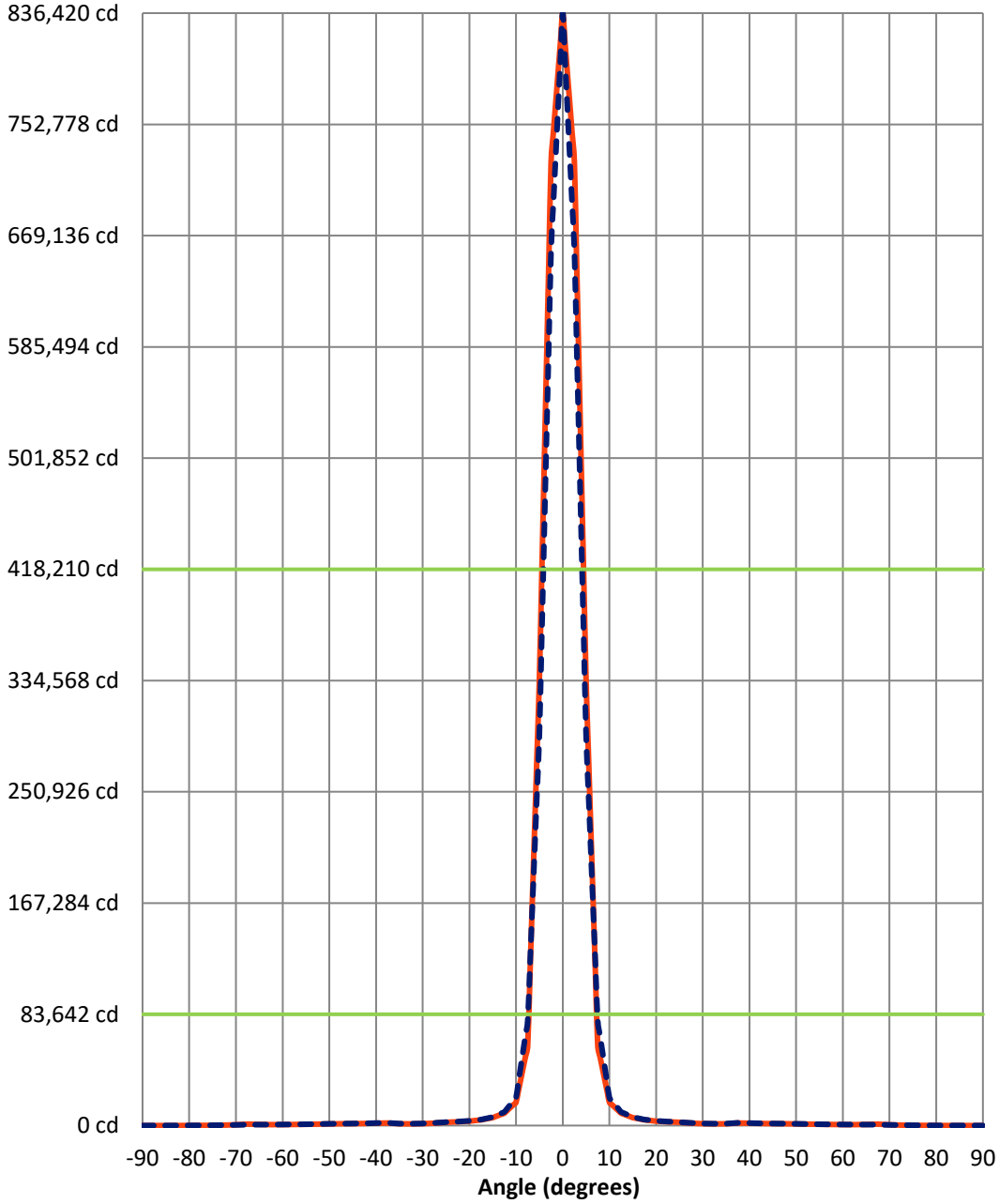
Luminous Intensity Plot



Beam:

H Angle:	8.3°
V Angle:	8.9°
Lumens:	9402
Efficiency:	33.7%

Field:

H Angle:	14.9°
V Angle:	14.6°
Lumens:	14850.9
Efficiency:	53.2%

Spill:

Lumens:	13056.2
Efficiency:	46.8%

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Scaled Data Report

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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	14.6	14.6	14.6	14.6
80°	58.3	58.3	58.3	58.3	58.3	58.3	51.0	51.0	43.7	36.4	36.4
77.5°	109.3	116.6	123.9	116.6	109.3	109.3	102.1	87.5	80.2	65.6	58.3
75°	182.2	196.8	204.1	196.8	189.5	182.2	167.7	145.8	123.9	102.1	87.5
72.5°	328.0	335.3	335.3	320.7	298.9	284.3	262.4	218.7	182.2	145.8	123.9
70°	568.6	590.5	597.7	524.8	459.2	400.9	342.6	291.6	233.3	182.2	160.4
67.5°	1093.4	1064.3	1013.2	816.4	634.2	473.8	364.5	320.7	269.7	218.7	204.1
65°	823.7	801.9	772.7	670.6	568.6	459.2	386.3	342.6	306.2	262.4	255.1
62.5°	692.5	692.5	677.9	612.3	546.7	466.5	415.5	386.3	349.9	313.5	313.5
60°	721.7	736.2	721.7	656.1	583.2	510.3	466.5	437.4	400.9	379.1	379.1
57.5°	816.4	823.7	801.9	729.0	656.1	575.9	532.1	495.7	459.2	437.4	437.4
55°	940.4	933.1	903.9	831.0	758.1	677.9	634.2	583.2	532.1	510.3	510.3
52.5°	1057.0	1064.3	1035.1	969.5	889.3	809.1	758.1	692.5	634.2	612.3	597.7
50°	1224.6	1231.9	1210.1	1144.5	1078.9	998.7	918.5	831.0	765.4	736.2	707.1
47.5°	1370.4	1370.4	1348.6	1304.8	1253.8	1180.9	1093.4	1013.2	940.4	889.3	838.3
45°	1436.0	1436.0	1421.5	1399.6	1370.4	1304.8	1217.4	1129.9	1078.9	1049.7	1006.0
42.5°	1552.7	1552.7	1516.2	1472.5	1436.0	1370.4	1290.3	1195.5	1180.9	1151.8	1122.6
40°	1742.2	1676.6	1618.3	1567.3	1508.9	1436.0	1363.1	1297.5	1268.4	1231.9	1202.8
37.5°	1917.2	1829.7	1742.2	1662.0	1596.4	1538.1	1443.3	1392.3	1355.9	1312.1	1283.0
35°	1319.4	1290.3	1326.7	1370.4	1436.0	1538.1	1603.7	1530.8	1450.6	1399.6	1363.1
32.5°	1261.1	1261.1	1268.4	1268.4	1253.8	1246.5	1312.1	1465.2	1618.3	1538.1	1465.2
30°	1399.6	1428.8	1436.0	1421.5	1370.4	1304.8	1268.4	1261.1	1334.0	1545.4	1603.7
27.5°	1807.8	1829.7	1815.1	1764.1	1654.7	1501.7	1406.9	1304.8	1283.0	1283.0	1516.2
25°	2449.3	2442.0	2383.7	2267.1	2099.4	1895.3	1691.2	1479.8	1370.4	1304.8	1297.5
22.5°	2813.8	2813.8	2770.0	2704.4	2595.1	2391.0	2106.7	1822.4	1552.7	1399.6	1312.1
20°	3309.5	3324.0	3273.0	3149.1	2952.3	2770.0	2558.6	2223.3	1873.4	1567.3	1392.3
17.5°	4242.5	4227.9	4111.3	3856.2	3513.6	3200.1	2872.1	2617.0	2245.2	1851.6	1523.5
15°	5948.3	5904.5	5576.5	4986.1	4344.6	3790.6	3309.5	2886.7	2595.1	2150.4	1749.5
12.5°	9301.5	9177.6	8288.2	6888.6	5656.7	4526.8	3812.4	3243.9	2813.8	2442.0	1968.2
10°	17451.2	17320.0	14586.4	10074.2	7741.5	5671.3	4373.7	3586.5	3025.2	2653.4	2179.6
7.5°	59964.0	51850.7	32096.0	19652.7	10234.6	7027.1	5095.4	3965.5	3258.4	2784.6	2361.8
5°	335706.4	277820.0	147519.0	40267.6	16226.6	8718.3	5787.9	4279.0	3418.8	2879.4	2471.2
2.5°	724211.2	598247.5	287748.4	72975.9	19995.3	9819.0	6188.8	4424.8	3499.0	2923.1	2536.8
0°	836419.5	657672.0	293886.2	78982.5	20950.2	10256.4	6363.8	4490.4	3535.4	2952.3	2558.6

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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°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3	7.3	7.3	7.3
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	14.6	14.6	14.6	14.6	14.6	14.6	7.3	7.3	7.3	7.3	7.3
80°	29.2	29.2	29.2	29.2	29.2	21.9	21.9	21.9	14.6	14.6	14.6
77.5°	58.3	58.3	51.0	51.0	43.7	43.7	43.7	36.4	29.2	29.2	21.9
75°	87.5	87.5	87.5	80.2	72.9	65.6	65.6	58.3	51.0	43.7	43.7
72.5°	123.9	123.9	123.9	116.6	109.3	102.1	87.5	80.2	72.9	65.6	58.3
70°	160.4	160.4	160.4	153.1	153.1	145.8	131.2	116.6	102.1	87.5	80.2
67.5°	204.1	204.1	204.1	189.5	182.2	174.9	167.7	153.1	138.5	116.6	102.1
65°	255.1	255.1	255.1	233.3	218.7	211.4	196.8	182.2	160.4	145.8	123.9
62.5°	320.7	320.7	306.2	284.3	262.4	240.6	226.0	211.4	189.5	167.7	145.8
60°	379.1	379.1	371.8	342.6	313.5	277.0	262.4	240.6	218.7	196.8	167.7
57.5°	437.4	437.4	422.8	393.6	364.5	335.3	306.2	284.3	255.1	226.0	196.8
55°	503.0	495.7	473.8	444.7	415.5	386.3	364.5	335.3	306.2	269.7	226.0
52.5°	583.2	561.3	524.8	495.7	459.2	430.1	408.2	379.1	349.9	306.2	255.1
50°	677.9	641.5	590.5	546.7	510.3	481.1	452.0	422.8	393.6	342.6	291.6
47.5°	794.6	736.2	677.9	619.6	568.6	532.1	495.7	466.5	422.8	371.8	320.7
45°	933.1	845.6	780.0	707.1	648.8	590.5	546.7	510.3	452.0	393.6	342.6
42.5°	1071.6	998.7	903.9	809.1	736.2	663.4	605.0	546.7	488.4	422.8	364.5
40°	1166.3	1108.0	1042.4	940.4	838.3	750.8	670.6	590.5	517.6	452.0	386.3
37.5°	1239.2	1195.5	1137.2	1064.3	962.2	852.9	743.5	641.5	554.0	481.1	415.5
35°	1319.4	1268.4	1210.1	1151.8	1071.6	954.9	816.4	699.8	597.7	510.3	452.0
32.5°	1406.9	1334.0	1275.7	1210.1	1151.8	1057.0	911.2	765.4	641.5	554.0	495.7
30°	1508.9	1414.2	1334.0	1268.4	1202.8	1115.3	1006.0	838.3	707.1	612.3	539.4
27.5°	1618.3	1479.8	1392.3	1319.4	1253.8	1173.6	1071.6	925.8	787.3	670.6	583.2
25°	1516.2	1589.1	1450.6	1370.4	1297.5	1217.4	1129.9	1035.1	874.7	743.5	641.5
22.5°	1304.8	1560.0	1552.7	1436.0	1348.6	1275.7	1224.6	1122.6	976.8	816.4	692.5
20°	1319.4	1392.3	1662.0	1501.7	1414.2	1363.1	1312.1	1217.4	1071.6	882.0	743.5
17.5°	1363.1	1334.0	1530.8	1603.7	1501.7	1436.0	1399.6	1312.1	1159.0	969.5	823.7
15°	1479.8	1355.9	1414.2	1691.2	1581.8	1508.9	1487.1	1377.7	1239.2	1064.3	903.9
12.5°	1581.8	1392.3	1363.1	1632.9	1654.7	1574.5	1523.5	1428.8	1304.8	1144.5	976.8
10°	1749.5	1479.8	1385.0	1567.3	1727.6	1632.9	1552.7	1472.5	1355.9	1217.4	1049.7
7.5°	1880.7	1530.8	1392.3	1516.2	1800.5	1676.6	1581.8	1494.4	1399.6	1275.7	1108.0
5°	1939.0	1552.7	1385.0	1472.5	1880.7	1727.6	1618.3	1516.2	1428.8	1312.1	1137.2
2.5°	1968.2	1560.0	1377.7	1436.0	1960.9	1793.2	1632.9	1516.2	1428.8	1319.4	1137.2
0°	*1982.8*	*1545.4*	*1377.7*	*1457.9*	*2019.2*	*1858.8*	*1640.2*	*1516.2*	*1421.5*	*1312.1*	*1122.6*

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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°	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	0.0	0.0
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	14.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
77.5°	21.9	21.9	14.6	14.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	36.4	29.2	29.2	21.9	21.9	14.6	7.3	7.3	7.3	7.3	7.3
72.5°	51.0	43.7	36.4	29.2	29.2	21.9	14.6	7.3	7.3	7.3	7.3
70°	65.6	58.3	43.7	36.4	36.4	29.2	21.9	14.6	7.3	7.3	7.3
67.5°	87.5	72.9	58.3	43.7	43.7	36.4	29.2	21.9	14.6	7.3	7.3
65°	109.3	87.5	72.9	58.3	51.0	43.7	36.4	29.2	21.9	7.3	7.3
62.5°	123.9	109.3	87.5	72.9	65.6	51.0	43.7	36.4	21.9	14.6	7.3
60°	145.8	123.9	102.1	87.5	80.2	65.6	51.0	43.7	29.2	21.9	7.3
57.5°	167.7	138.5	116.6	102.1	94.8	80.2	65.6	51.0	36.4	21.9	14.6
55°	189.5	160.4	131.2	123.9	109.3	94.8	80.2	58.3	43.7	29.2	14.6
52.5°	211.4	174.9	153.1	145.8	131.2	109.3	87.5	72.9	51.0	36.4	21.9
50°	240.6	196.8	174.9	167.7	145.8	123.9	102.1	87.5	65.6	43.7	21.9
47.5°	269.7	218.7	204.1	189.5	167.7	145.8	116.6	102.1	72.9	51.0	29.2
45°	291.6	255.1	233.3	218.7	189.5	167.7	138.5	116.6	80.2	58.3	29.2
42.5°	306.2	284.3	269.7	247.8	218.7	182.2	153.1	131.2	94.8	65.6	36.4
40°	342.6	320.7	298.9	277.0	247.8	204.1	174.9	145.8	109.3	72.9	36.4
37.5°	379.1	349.9	328.0	306.2	277.0	233.3	204.1	160.4	123.9	80.2	43.7
35°	415.5	386.3	357.2	335.3	306.2	269.7	226.0	182.2	138.5	87.5	51.0
32.5°	452.0	415.5	386.3	357.2	342.6	298.9	247.8	196.8	153.1	94.8	51.0
30°	488.4	444.7	415.5	393.6	379.1	335.3	277.0	218.7	167.7	109.3	58.3
27.5°	524.8	473.8	437.4	437.4	422.8	371.8	298.9	240.6	182.2	116.6	65.6
25°	561.3	503.0	488.4	481.1	473.8	408.2	328.0	262.4	189.5	131.2	65.6
22.5°	597.7	554.0	532.1	524.8	510.3	444.7	357.2	277.0	204.1	138.5	72.9
20°	656.1	612.3	583.2	561.3	554.0	488.4	386.3	298.9	218.7	138.5	72.9
17.5°	729.0	663.4	626.9	605.0	590.5	524.8	415.5	320.7	226.0	138.5	72.9
15°	794.6	721.7	670.6	641.5	626.9	568.6	437.4	328.0	233.3	138.5	72.9
12.5°	860.2	772.7	714.4	685.2	663.4	612.3	459.2	335.3	233.3	138.5	72.9
10°	918.5	823.7	765.4	721.7	692.5	626.9	466.5	342.6	233.3	138.5	72.9
7.5°	969.5	867.5	787.3	721.7	692.5	641.5	466.5	349.9	233.3	138.5	80.2
5°	976.8	867.5	780.0	721.7	699.8	648.8	473.8	349.9	233.3	131.2	72.9
2.5°	984.1	867.5	780.0	721.7	699.8	648.8	473.8	349.9	233.3	131.2	72.9
0°	*976.8*	*860.2*	*772.7*	*721.7*	*699.8*	*648.8*	*473.8*	*349.9*	*226.0*	*123.9*	*72.9*

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
80°	7.3	0.0	0.0	0.0
77.5°	7.3	0.0	0.0	0.0
75°	7.3	7.3	0.0	0.0
72.5°	7.3	7.3	0.0	0.0
70°	7.3	7.3	0.0	0.0
67.5°	7.3	7.3	0.0	0.0
65°	7.3	7.3	0.0	0.0
62.5°	7.3	7.3	0.0	0.0
60°	7.3	7.3	0.0	0.0
57.5°	7.3	7.3	7.3	0.0
55°	7.3	7.3	7.3	0.0
52.5°	7.3	7.3	7.3	0.0
50°	7.3	7.3	7.3	0.0
47.5°	7.3	7.3	7.3	0.0
45°	7.3	7.3	7.3	0.0
42.5°	14.6	7.3	7.3	0.0
40°	14.6	7.3	7.3	0.0
37.5°	21.9	7.3	7.3	0.0
35°	21.9	7.3	7.3	0.0
32.5°	21.9	7.3	7.3	0.0
30°	21.9	7.3	7.3	0.0
27.5°	29.2	7.3	7.3	0.0
25°	29.2	7.3	7.3	0.0
22.5°	29.2	7.3	7.3	0.0
20°	29.2	7.3	7.3	0.0
17.5°	29.2	7.3	7.3	0.0
15°	36.4	7.3	7.3	0.0
12.5°	36.4	7.3	7.3	0.0
10°	36.4	7.3	7.3	0.0
7.5°	36.4	7.3	7.3	0.0
5°	36.4	7.3	7.3	0.0
2.5°	36.4	7.3	7.3	0.0
0°	*36.4*	*7.3*	*7.3*	*0.0*

(END OF REPORT)