

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: P623744

Luminaire Tested: **IFLD-L-SA7A-760-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-760-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	33383.7 lumens	Max Intensity:	40796.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	153.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	16592.5 lumens	Field Lumens:	21579.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

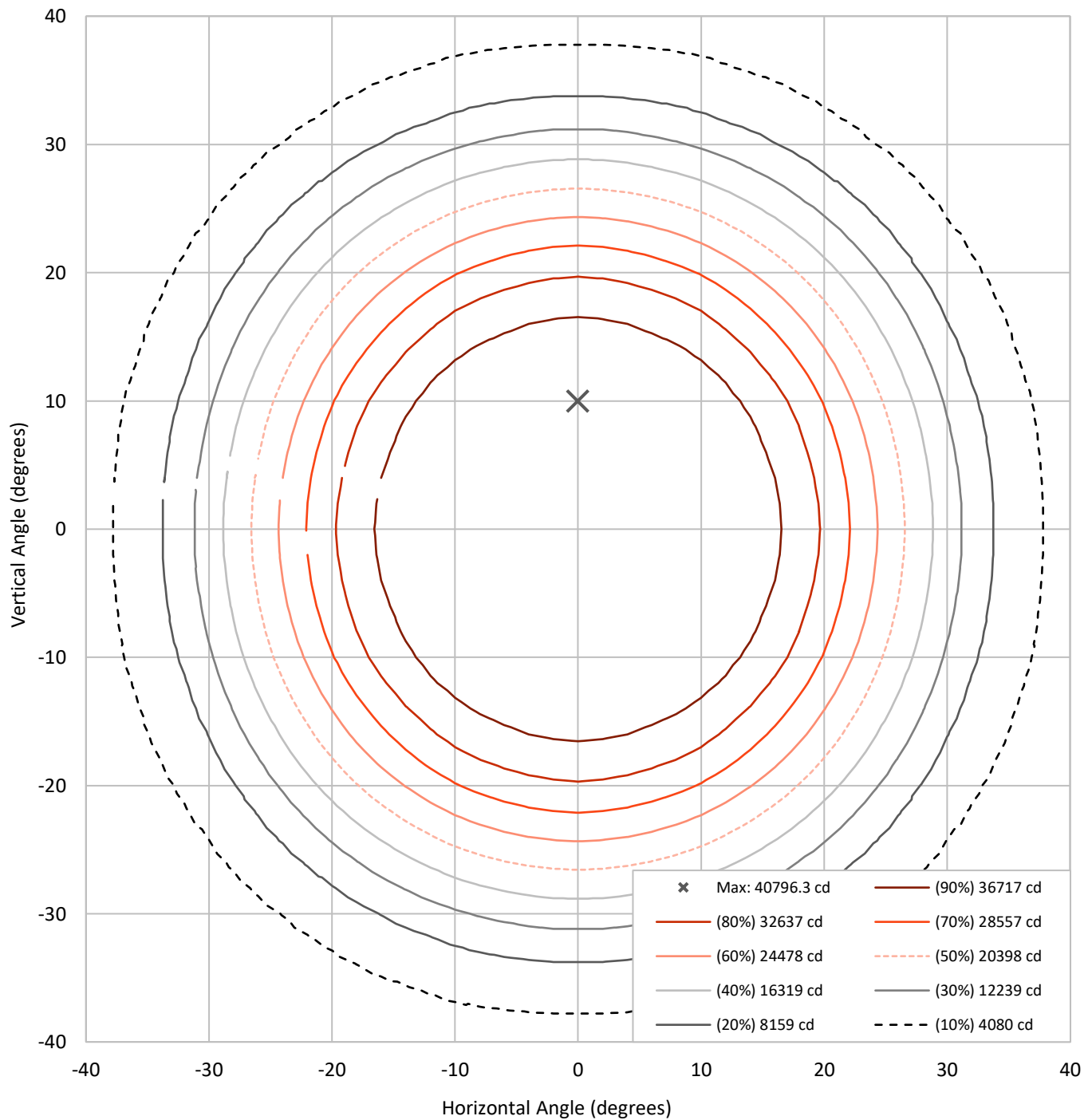
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



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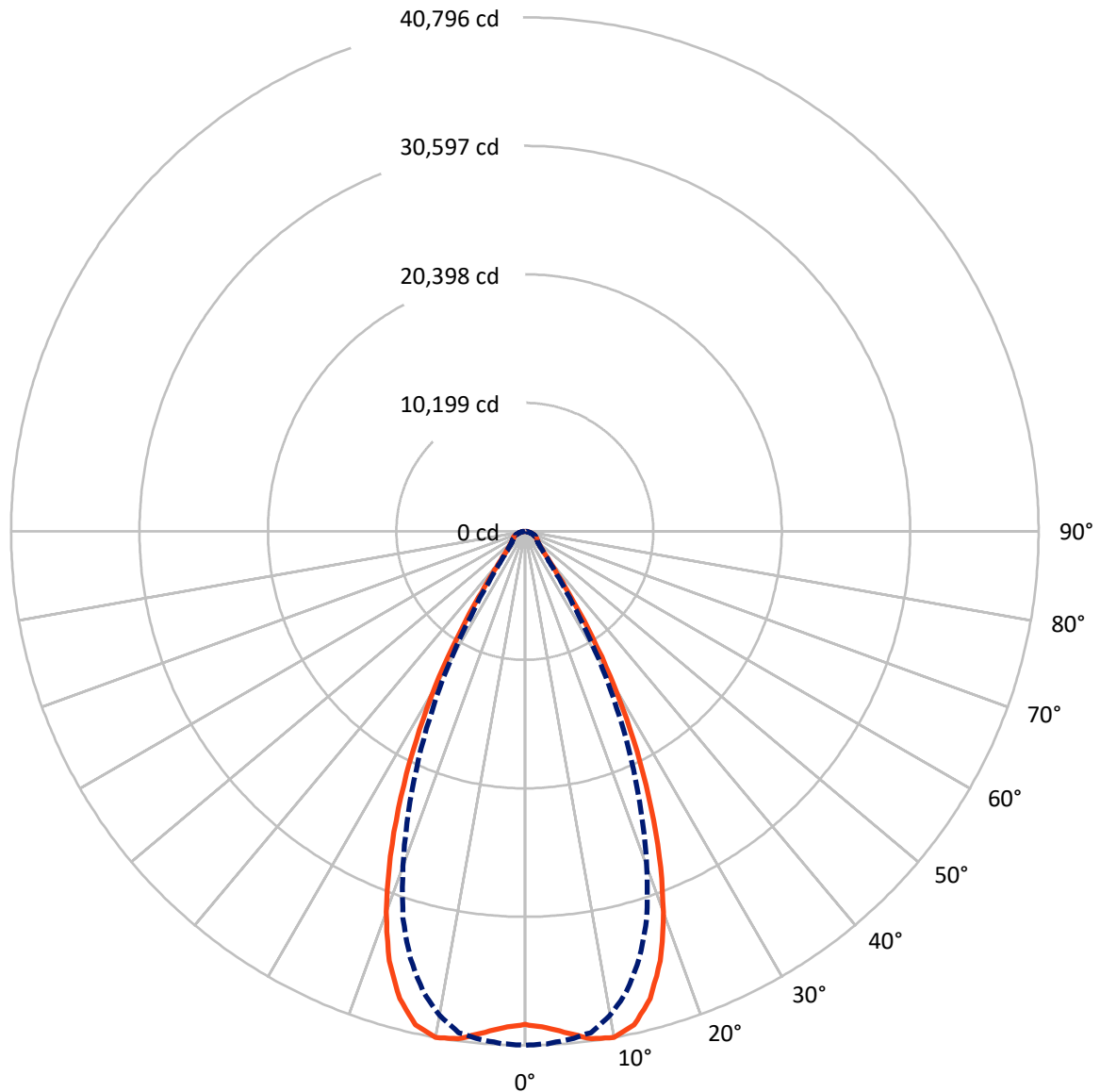
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Lumen Table

90	1.0		7.3		19.1		30.8		35.7		30.8		19.1		7.3		1.0			
80																				
70	3.4	3.6	7.5	12.5	17.5	21.9	25.1	26.7	26.7	25.1	21.9	17.5	12.5	7.5	3.6	3.4				
60		5.6	11.5	18.3	24.6	29.9	33.9	36.2	36.2	33.9	29.9	24.6	18.3	11.5	5.6					
50	5.9	7.5	14.9	22.5	30.2	39.1	49.5	57.5	57.5	49.5	39.1	30.2	22.5	14.9	7.5	5.9				
40		9.1	17.3	26.1	39.6	70.5	137.8	207.9	207.9	137.8	70.5	39.6	26.1	17.3	9.1					
30	7.9	10.3	19.0	30.6	64.0	204.0	472.6	670.8	670.8	472.6	204.0	64.0	30.6	19.0	10.3	7.9				
20		11.1	20.2	36.5	118.1	445.2	871.0	1110.4	1110.4	871.0	445.2	118.1	36.5	20.2	11.1					
10	8.6	11.5	20.9	41.2	173.4	613.3	1077.6	1222.0	1222.0	1077.6	613.3	173.4	41.2	20.9	11.5	8.6				
0		11.5	20.9	41.2	173.4	613.3	1077.6	1222.0	1222.0	1077.6	613.3	173.4	41.2	20.9	11.5					
-10	7.9	11.1	20.2	36.5	118.1	445.2	871.0	1110.4	1110.4	871.0	445.2	118.1	36.5	20.2	11.1	7.9				
-20		10.3	19.0	30.6	64.0	204.0	472.6	670.8	670.8	472.6	204.0	64.0	30.6	19.0	10.3					
-30	5.9	9.1	17.3	26.1	39.6	70.5	137.8	207.9	207.9	137.8	70.5	39.6	26.1	17.3	9.1	5.9				
-40		7.5	14.9	22.5	30.2	39.1	49.5	57.5	57.5	49.5	39.1	30.2	22.5	14.9	7.5					
-50	3.4	5.6	11.5	18.3	24.6	29.9	33.9	36.2	36.2	33.9	29.9	24.6	18.3	11.5	5.6	3.4				
-60		3.6	7.5	12.5	17.5	21.9	25.1	26.7	26.7	25.1	21.9	17.5	12.5	7.5	3.6					
-70	1.0		7.3		19.1		30.8		35.7		30.8		19.1		7.3		1.0			
-80																				
-90																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		Horizontal Angle (degrees)																		

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Luminous Intensity Polar Plot

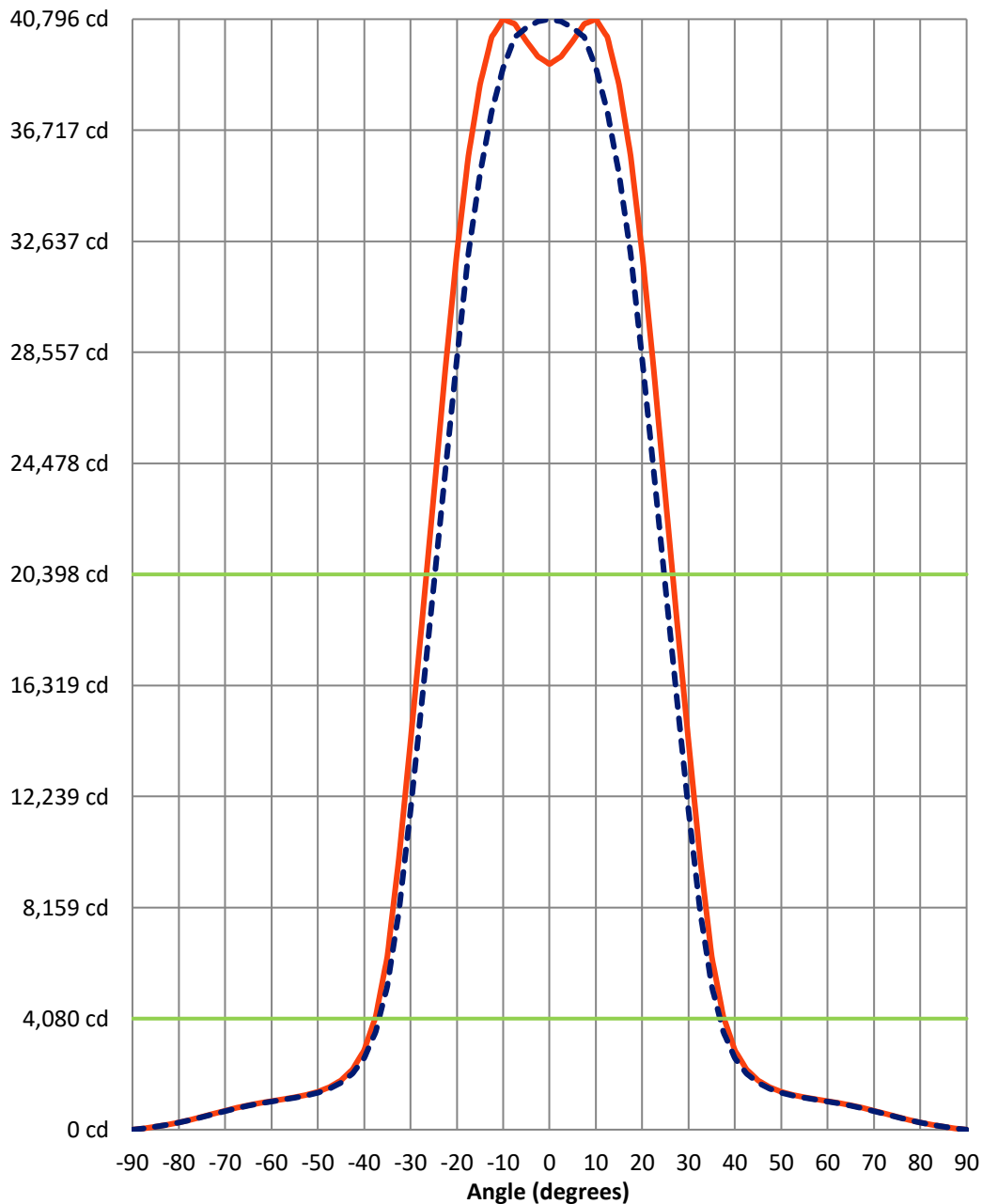


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 16592.5
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 21579.1
Efficiency: 64.6%

Spill:

Lumens: 11804.6
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°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	41.6	41.6	41.6	41.6
85°	111.0	111.0	111.0	111.0	111.0	107.5	107.5	104.0	104.0	100.6	97.1
82.5°	180.3	180.3	180.3	180.3	176.9	176.9	173.4	169.9	166.5	163.0	159.5
80°	263.6	263.6	263.6	263.6	260.1	256.6	253.2	249.7	242.8	239.3	232.3
77.5°	360.7	360.7	360.7	357.2	353.7	350.3	343.3	336.4	329.4	322.5	315.6
75°	471.6	471.6	471.6	464.7	461.2	454.3	447.4	440.4	430.0	419.6	409.2
72.5°	586.1	586.1	586.1	579.1	572.2	565.3	558.3	547.9	537.5	523.7	509.8
70°	693.6	693.6	693.6	686.6	679.7	672.8	662.4	652.0	638.1	624.2	610.3
67.5°	804.6	804.6	804.6	794.1	787.2	780.3	769.9	756.0	742.1	724.8	707.4
65°	894.7	894.7	891.2	887.8	880.8	870.4	863.5	849.6	835.8	821.9	804.6
62.5°	977.9	977.9	974.5	971.0	964.1	953.7	943.3	932.9	919.0	901.7	884.3
60°	1047.3	1047.3	1043.8	1040.4	1033.4	1026.5	1016.1	1005.7	991.8	977.9	960.6
57.5°	1116.7	1116.7	1113.2	1109.7	1102.8	1092.4	1082.0	1071.6	1057.7	1040.4	1023.0
55°	1189.5	1189.5	1186.0	1179.1	1172.1	1161.7	1151.3	1137.5	1120.1	1102.8	1085.4
52.5°	1276.2	1276.2	1269.2	1262.3	1251.9	1241.5	1224.2	1206.8	1186.0	1165.2	1144.4
50°	1390.6	1390.6	1383.7	1373.3	1355.9	1338.6	1317.8	1290.1	1265.8	1238.0	1210.3
47.5°	1560.6	1560.6	1546.7	1529.3	1505.1	1477.3	1439.2	1397.6	1362.9	1328.2	1286.6
45°	1810.2	1810.2	1789.4	1761.7	1723.5	1675.0	1619.5	1560.6	1501.6	1442.6	1383.7
42.5°	2216.0	2216.0	2177.8	2129.3	2063.4	1980.2	1876.1	1779.0	1695.8	1602.2	1522.4
40°	2916.5	2916.5	2843.7	2753.5	2628.7	2469.1	2278.4	2125.8	1980.2	1817.2	1706.2
37.5°	4161.5	4161.5	4019.3	3845.9	3603.1	3298.0	2930.4	2684.1	2413.7	2157.0	1969.8
35°	6360.1	6360.1	6086.1	5749.8	5281.6	4692.1	4064.4	3599.7	3083.0	2687.6	2337.4
32.5°	9966.7	9966.7	9474.3	8867.4	8031.6	6973.9	5968.2	5083.9	4161.5	3506.0	2874.9
30°	14253.0	14253.0	13608.0	12813.9	11724.9	10351.6	8919.4	7348.5	5891.9	4723.3	3769.6
27.5°	18685.0	18501.2	17946.3	17041.2	15799.7	14253.0	12467.1	10438.3	8468.6	6408.7	5045.8
25°	23269.5	23054.5	22419.9	21379.5	19957.7	18206.4	16195.0	13927.0	11496.1	9040.8	6682.6
22.5°	27902.6	27659.9	26938.6	25762.9	24167.7	22204.9	19926.5	17405.3	14690.0	11853.2	9040.8
20°	32185.5	31928.9	31172.9	29948.7	28298.0	26144.4	23612.9	20817.7	17814.5	14690.0	11496.1
17.5°	35771.3	35525.1	34796.8	33628.1	32185.5	29803.0	27170.9	24098.4	20817.7	17405.3	13927.0
15°	38389.5	38178.0	37557.2	36575.8	35105.4	32997.0	30316.3	27170.9	23612.9	19926.5	16195.0
12.5°	40126.9	39957.0	39468.0	38705.1	37387.3	35618.7	32997.0	29803.0	26144.4	22204.9	18206.4
10°	40796.3	40713.0	40484.1	40133.9	39010.3	37387.3	35105.4	32185.5	28298.0	24167.7	19957.7
7.5°	40619.4	40647.1	40726.9	40636.7	40133.9	38705.1	36575.8	33628.1	29948.7	25762.9	21379.5
5°	39988.2	40137.4	40508.4	40726.9	40484.1	39468.0	37557.2	34796.8	31172.9	26938.6	22419.9
2.5°	39426.4	39658.8	40137.4	40647.1	40713.0	39957.0	38178.0	35525.1	31928.9	27659.9	23054.5
0°	39149.0	39426.4	39988.2	40619.4	40796.3	40126.9	38389.5	35771.3	32185.5	27902.6	23269.5

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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°	41.6	38.1	38.1	38.1	34.7	34.7	34.7	31.2	31.2	27.7	27.7
85°	97.1	93.6	90.2	86.7	83.2	79.8	76.3	72.8	69.4	62.4	59.0
82.5°	156.1	152.6	149.1	142.2	138.7	131.8	124.8	117.9	111.0	107.5	100.6
80°	225.4	218.5	211.5	204.6	194.2	183.8	176.9	166.5	159.5	149.1	142.2
77.5°	305.2	294.8	284.4	270.5	260.1	249.7	235.8	225.4	211.5	197.7	183.8
75°	395.3	381.5	364.1	350.3	336.4	319.0	301.7	284.4	267.0	249.7	232.3
72.5°	492.4	475.1	457.8	440.4	419.6	395.3	374.5	350.3	329.4	308.6	284.4
70°	593.0	572.2	551.4	530.6	506.3	478.6	454.3	426.6	398.8	371.1	343.3
67.5°	686.6	665.8	641.6	620.8	593.0	565.3	534.1	502.8	471.6	437.0	402.3
65°	783.7	759.5	731.7	704.0	676.2	645.0	613.8	582.6	544.5	506.3	471.6
62.5°	863.5	842.7	818.4	790.7	759.5	724.8	693.6	652.0	613.8	575.7	530.6
60°	939.8	915.5	894.7	863.5	835.8	804.6	766.4	724.8	683.2	638.1	596.5
57.5°	1005.7	984.9	960.6	932.9	901.7	870.4	835.8	797.6	749.1	704.0	655.4
55°	1064.6	1040.4	1016.1	991.8	964.1	929.4	894.7	856.6	815.0	766.4	714.4
52.5°	1123.6	1099.3	1071.6	1047.3	1016.1	984.9	950.2	912.1	870.4	825.4	769.9
50°	1182.6	1154.8	1127.1	1095.9	1064.6	1033.4	998.8	964.1	919.0	873.9	825.4
47.5°	1251.9	1217.2	1182.6	1147.9	1116.7	1078.5	1043.8	1005.7	967.5	919.0	870.4
45°	1338.6	1286.6	1245.0	1203.4	1165.2	1127.1	1085.4	1047.3	1005.7	964.1	912.1
42.5°	1446.1	1376.8	1321.3	1265.8	1217.2	1172.1	1130.5	1085.4	1043.8	998.8	950.2
40°	1591.8	1498.1	1408.0	1338.6	1276.2	1220.7	1172.1	1127.1	1078.5	1033.4	984.9
37.5°	1782.5	1650.7	1525.9	1425.3	1345.5	1276.2	1217.2	1165.2	1116.7	1064.6	1016.1
35°	2070.3	1841.4	1681.9	1536.3	1425.3	1338.6	1265.8	1203.4	1147.9	1095.9	1047.3
32.5°	2476.1	2122.3	1865.7	1681.9	1525.9	1408.0	1321.3	1245.0	1182.6	1127.1	1071.6
30°	3010.1	2521.2	2122.3	1841.4	1650.7	1498.1	1376.8	1286.6	1217.2	1154.8	1099.3
27.5°	3856.3	3010.1	2476.1	2070.3	1782.5	1591.8	1446.1	1338.6	1251.9	1182.6	1123.6
25°	5045.8	3769.6	2874.9	2337.4	1969.8	1706.2	1522.4	1383.7	1286.6	1210.3	1144.4
22.5°	6408.7	4723.3	3506.0	2687.6	2157.0	1817.2	1602.2	1442.6	1328.2	1238.0	1165.2
20°	8468.6	5891.9	4161.5	3083.0	2413.7	1980.2	1695.8	1501.6	1362.9	1265.8	1186.0
17.5°	10438.3	7348.5	5083.9	3599.7	2684.1	2125.8	1779.0	1560.6	1397.6	1290.1	1206.8
15°	12467.1	8919.4	5968.2	4064.4	2930.4	2278.4	1876.1	1619.5	1439.2	1317.8	1224.2
12.5°	14253.0	10351.6	6973.9	4692.1	3298.0	2469.1	1980.2	1675.0	1477.3	1338.6	1241.5
10°	15799.7	11724.9	8031.6	5281.6	3603.1	2628.7	2063.4	1723.5	1505.1	1355.9	1251.9
7.5°	17041.2	12813.9	8867.4	5749.8	3845.9	2753.5	2129.3	1761.7	1529.3	1373.3	1262.3
5°	17946.3	13608.0	9474.3	6086.1	4019.3	2843.7	2177.8	1789.4	1546.7	1383.7	1269.2
2.5°	18501.2	14253.0	9966.7	6360.1	4161.5	2916.5	2216.0	1810.2	1560.6	1390.6	1276.2
0°	18685.0	14253.0	9966.7	6360.1	4161.5	2916.5	2216.0	1810.2	1560.6	1390.6	1276.2

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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°	24.3	24.3	20.8	20.8	17.3	17.3	13.9	13.9	10.4	10.4	6.9
85°	55.5	48.6	45.1	41.6	38.1	34.7	31.2	27.7	24.3	20.8	17.3
82.5°	93.6	86.7	76.3	69.4	62.4	55.5	45.1	41.6	34.7	27.7	24.3
80°	131.8	121.4	111.0	100.6	90.2	79.8	69.4	59.0	48.6	38.1	31.2
77.5°	169.9	156.1	145.7	131.8	117.9	104.0	90.2	76.3	62.4	48.6	38.1
75°	215.0	197.7	180.3	163.0	145.7	128.3	114.4	97.1	79.8	62.4	48.6
72.5°	263.6	239.3	218.5	197.7	173.4	156.1	135.2	117.9	97.1	76.3	59.0
70°	315.6	287.8	260.1	232.3	208.1	180.3	159.5	135.2	114.4	90.2	69.4
67.5°	367.6	336.4	305.2	270.5	239.3	211.5	180.3	156.1	128.3	104.0	79.8
65°	430.0	388.4	350.3	312.1	274.0	239.3	208.1	173.4	145.7	117.9	90.2
62.5°	489.0	443.9	398.8	353.7	312.1	270.5	232.3	197.7	163.0	131.8	100.6
60°	547.9	499.4	447.4	398.8	350.3	305.2	260.1	218.5	180.3	145.7	111.0
57.5°	606.9	551.4	499.4	443.9	388.4	336.4	287.8	239.3	197.7	156.1	121.4
55°	658.9	606.9	547.9	489.0	430.0	367.6	315.6	263.6	215.0	169.9	131.8
52.5°	714.4	655.4	596.5	530.6	471.6	402.3	343.3	284.4	232.3	183.8	142.2
50°	766.4	704.0	638.1	575.7	506.3	437.0	371.1	308.6	249.7	197.7	149.1
47.5°	815.0	749.1	683.2	613.8	544.5	471.6	398.8	329.4	267.0	211.5	159.5
45°	856.6	797.6	724.8	652.0	582.6	502.8	426.6	350.3	284.4	225.4	166.5
42.5°	894.7	835.8	766.4	693.6	613.8	534.1	454.3	374.5	301.7	235.8	176.9
40°	929.4	870.4	804.6	724.8	645.0	565.3	478.6	395.3	319.0	249.7	183.8
37.5°	964.1	901.7	835.8	759.5	676.2	593.0	506.3	419.6	336.4	260.1	194.2
35°	991.8	932.9	863.5	790.7	704.0	620.8	530.6	440.4	350.3	270.5	204.6
32.5°	1016.1	960.6	894.7	818.4	731.7	641.6	551.4	457.8	364.1	284.4	211.5
30°	1040.4	984.9	915.5	842.7	759.5	665.8	572.2	475.1	381.5	294.8	218.5
27.5°	1064.6	1005.7	939.8	863.5	783.7	686.6	593.0	492.4	395.3	305.2	225.4
25°	1085.4	1023.0	960.6	884.3	804.6	707.4	610.3	509.8	409.2	315.6	232.3
22.5°	1102.8	1040.4	977.9	901.7	821.9	724.8	624.2	523.7	419.6	322.5	239.3
20°	1120.1	1057.7	991.8	919.0	835.8	742.1	638.1	537.5	430.0	329.4	242.8
17.5°	1137.5	1071.6	1005.7	932.9	849.6	756.0	652.0	547.9	440.4	336.4	249.7
15°	1151.3	1082.0	1016.1	943.3	863.5	769.9	662.4	558.3	447.4	343.3	253.2
12.5°	1161.7	1092.4	1026.5	953.7	870.4	780.3	672.8	565.3	454.3	350.3	256.6
10°	1172.1	1102.8	1033.4	964.1	880.8	787.2	679.7	572.2	461.2	353.7	260.1
7.5°	1179.1	1109.7	1040.4	971.0	887.8	794.1	686.6	579.1	464.7	357.2	263.6
5°	1186.0	1113.2	1043.8	974.5	891.2	804.6	693.6	586.1	471.6	360.7	263.6
2.5°	1189.5	1116.7	1047.3	977.9	894.7	804.6	693.6	586.1	471.6	360.7	263.6
0°	1189.5	1116.7	1047.3	977.9	894.7	804.6	693.6	586.1	471.6	360.7	263.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	3.5	0.0
85°	10.4	6.9	3.5	0.0
82.5°	17.3	10.4	6.9	0.0
80°	24.3	17.3	6.9	0.0
77.5°	27.7	20.8	10.4	0.0
75°	34.7	24.3	10.4	0.0
72.5°	41.6	27.7	13.9	0.0
70°	45.1	31.2	13.9	0.0
67.5°	55.5	34.7	17.3	0.0
65°	62.4	38.1	17.3	0.0
62.5°	69.4	41.6	20.8	0.0
60°	76.3	45.1	20.8	0.0
57.5°	86.7	48.6	24.3	0.0
55°	93.6	55.5	24.3	0.0
52.5°	100.6	59.0	27.7	0.0
50°	107.5	62.4	27.7	0.0
47.5°	111.0	69.4	31.2	0.0
45°	117.9	72.8	31.2	0.0
42.5°	124.8	76.3	34.7	0.0
40°	131.8	79.8	34.7	0.0
37.5°	138.7	83.2	34.7	0.0
35°	142.2	86.7	38.1	0.0
32.5°	149.1	90.2	38.1	0.0
30°	152.6	93.6	38.1	0.0
27.5°	156.1	97.1	41.6	0.0
25°	159.5	97.1	41.6	0.0
22.5°	163.0	100.6	41.6	0.0
20°	166.5	104.0	41.6	0.0
17.5°	169.9	104.0	41.6	0.0
15°	173.4	107.5	45.1	0.0
12.5°	176.9	107.5	45.1	0.0
10°	176.9	111.0	45.1	0.0
7.5°	180.3	111.0	45.1	0.0
5°	180.3	111.0	45.1	0.0
2.5°	180.3	111.0	45.1	0.0
0°	180.3	111.0	45.1	0.0

(END OF REPORT)