

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: P623544

Luminaire Tested: **IFLD-L-SA7D-830-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	40245.7 lumens	Max Intensity:	130136.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

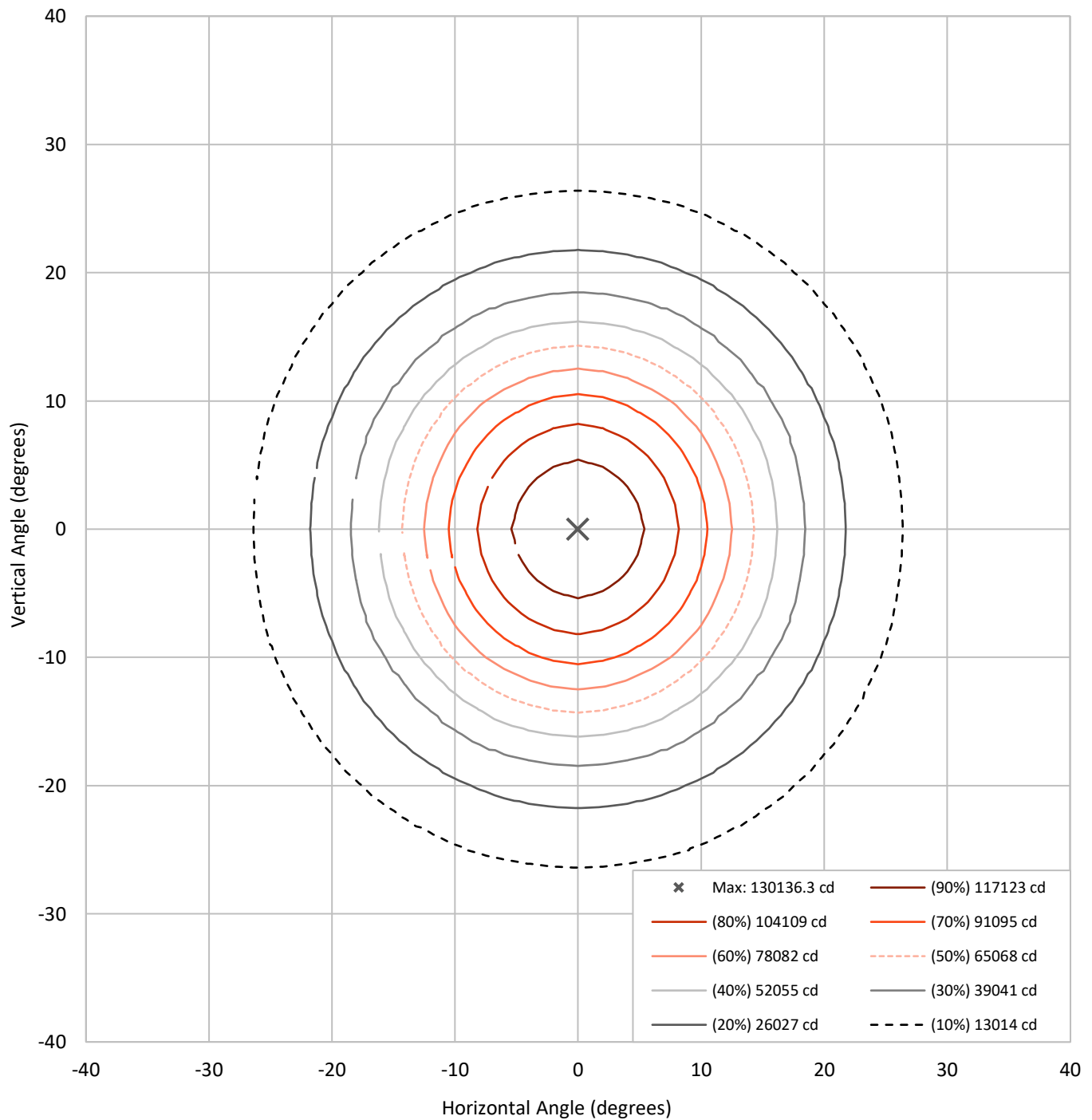
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	14521.4 lumens	Field Lumens:	24521.4 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 422.6
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



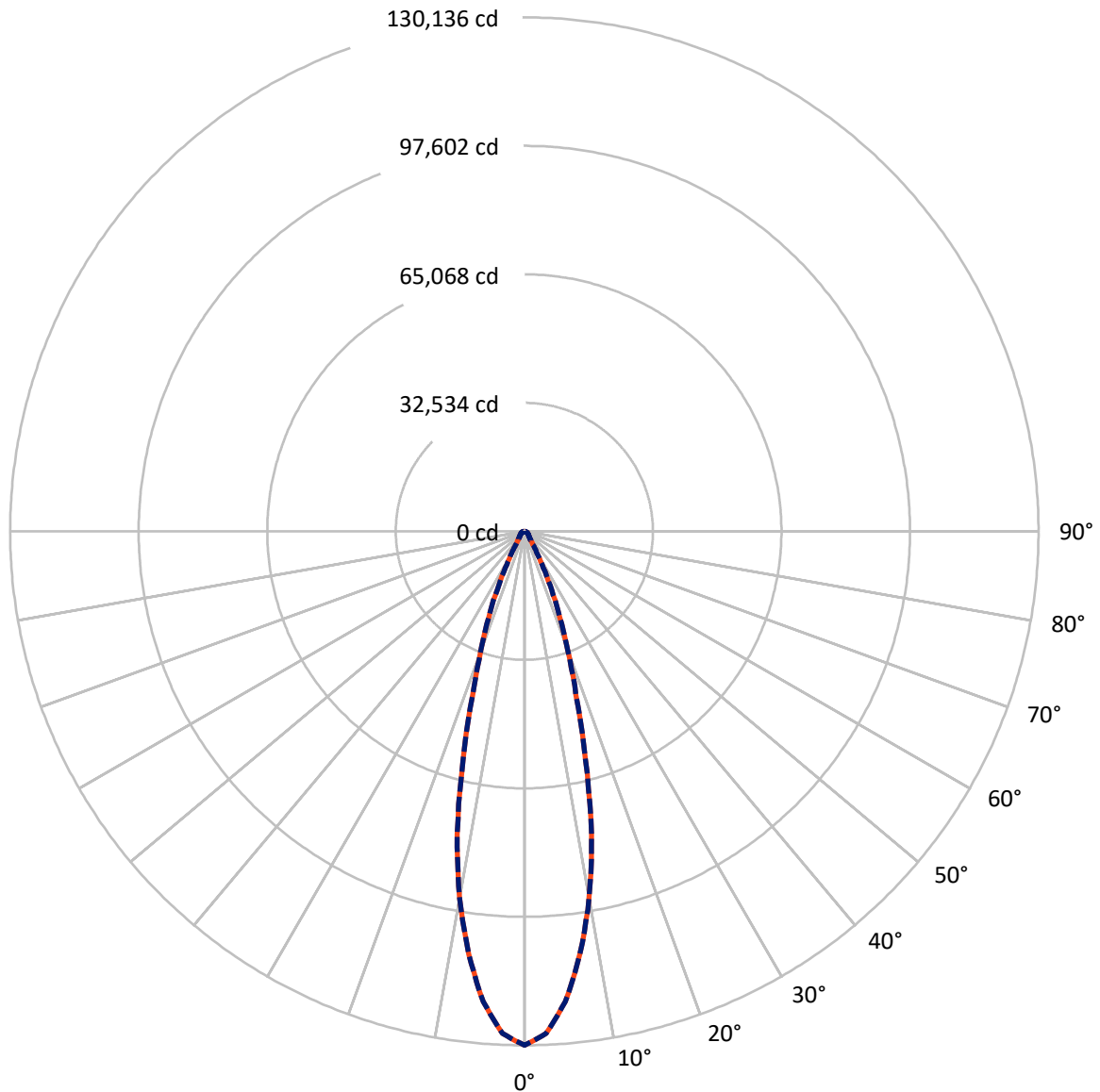
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Lumen Table

90	0.9		6.8		17.3		27.7		32.0		27.7		17.3		6.8		0.9	
80																		
70	3.1	3.3	6.7	11.0	15.5	19.5	22.4	24.1	24.1	22.4	19.5	15.5	11.0	6.7	3.3	3.1		
60		5.0	10.2	16.3	22.6	28.1	32.2	34.5	34.5	32.2	28.1	22.6	16.3	10.2	5.0			
50	5.3	6.6	13.3	21.0	28.8	36.6	43.6	48.1	48.1	43.6	36.6	28.8	21.0	13.3	6.6	5.3		
40		8.1	15.9	24.9	35.8	50.9	74.3	98.9	98.9	74.3	50.9	35.8	24.9	15.9	8.1			
30	7.0	9.2	17.8	28.6	46.1	96.6	264.8	479.6	479.6	264.8	96.6	46.1	28.6	17.8	9.2	7.0		
20		9.9	19.2	32.1	63.4	249.9	859.5	1658.1	1658.1	859.5	249.9	63.4	32.1	19.2	9.9			
10	7.7	10.3	20.0	34.3	82.2	440.3	1613.1	3180.3	3180.3	1613.1	440.3	82.2	34.3	20.0	10.3	7.7		
0		10.3	20.0	34.3	82.2	440.3	1613.1	3180.3	3180.3	1613.1	440.3	82.2	34.3	20.0	10.3			
-10	7.0	9.9	19.2	32.1	63.4	249.9	859.5	1658.1	1658.1	859.5	249.9	63.4	32.1	19.2	9.9	7.0		
-20		9.2	17.8	28.6	46.1	96.6	264.8	479.6	479.6	264.8	96.6	46.1	28.6	17.8	9.2			
-30	5.3	8.1	15.9	24.9	35.8	50.9	74.3	98.9	98.9	74.3	50.9	35.8	24.9	15.9	8.1	5.3		
-40		6.6	13.3	21.0	28.8	36.6	43.6	48.1	48.1	43.6	36.6	28.8	21.0	13.3	6.6			
-50	3.1	5.0	10.2	16.3	22.6	28.1	32.2	34.5	34.5	32.2	28.1	22.6	16.3	10.2	5.0	3.1		
-60		3.3	6.7	11.0	15.5	19.5	22.4	24.1	24.1	22.4	19.5	15.5	11.0	6.7	3.3			
-70	0.9	6.8		17.3		27.7		32.0		27.7		17.3		6.8		0.9		
-80																		
-90	0.9		6.8		17.3		27.7		32.0		27.7		17.3		6.8		0.9	

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Luminous Intensity Polar Plot

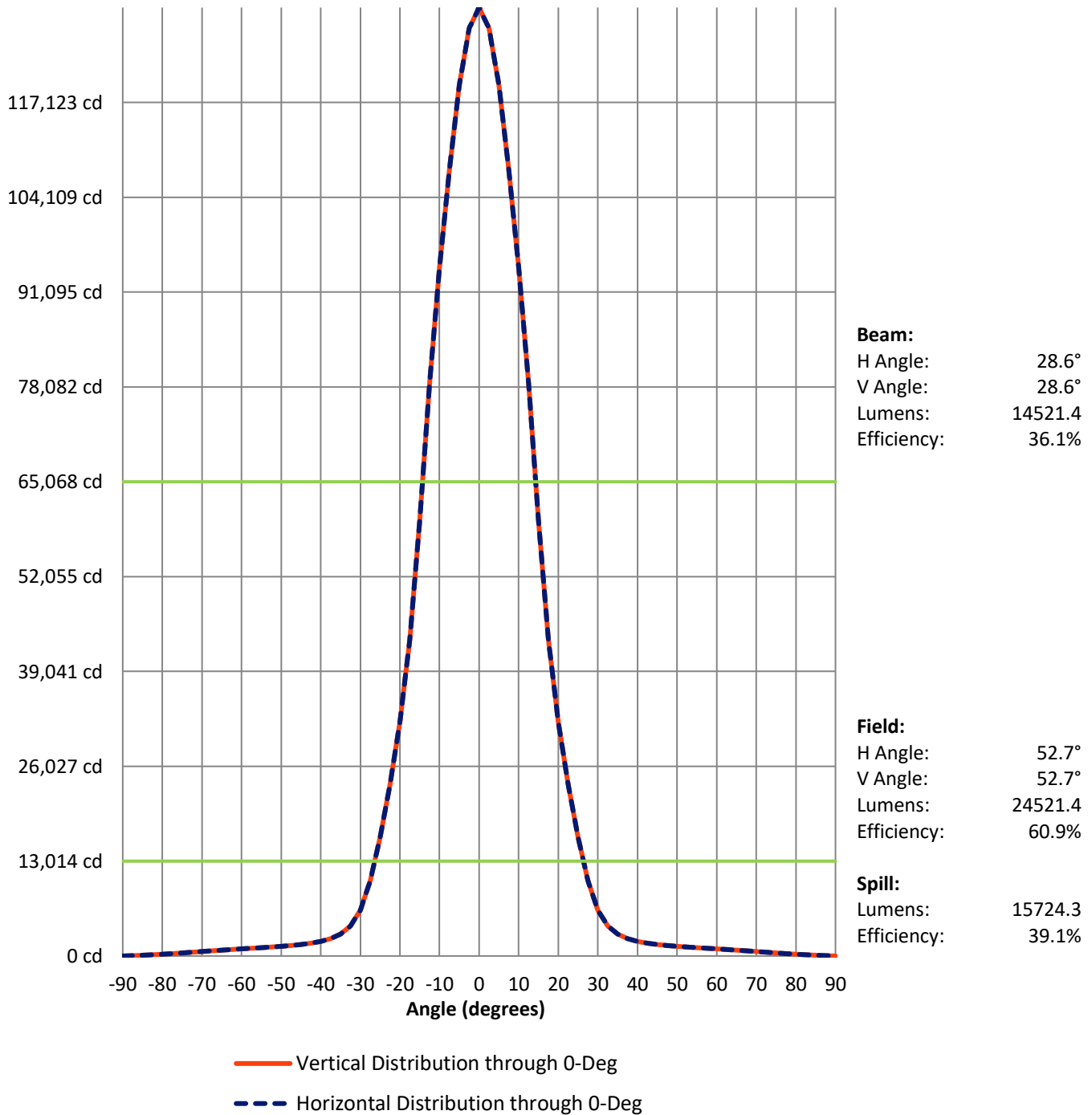


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



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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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	42.0	42.0	42.0	42.0
85°	104.9	104.9	104.9	104.9	104.9	100.7	100.7	100.7	96.5	96.5	92.3
82.5°	167.8	167.8	167.8	167.8	163.6	163.6	159.4	159.4	155.3	155.3	151.1
80°	239.2	239.2	239.2	239.2	235.0	230.8	230.8	226.6	222.4	218.2	214.0
77.5°	323.1	323.1	323.1	318.9	314.7	314.7	310.5	302.1	297.9	289.5	285.3
75°	415.4	415.4	415.4	411.2	407.0	402.8	394.4	390.2	381.8	373.4	360.9
72.5°	516.1	516.1	516.1	511.9	503.5	499.3	490.9	482.5	474.2	461.6	449.0
70°	612.6	612.6	612.6	604.2	600.0	591.6	583.3	574.9	562.3	549.7	537.1
67.5°	709.1	709.1	709.1	700.7	696.5	688.2	679.8	667.2	654.6	637.8	625.2
65°	797.2	797.2	793.1	788.9	784.7	776.3	763.7	755.3	742.7	725.9	709.1
62.5°	889.6	889.6	885.4	881.2	872.8	864.4	851.8	839.2	822.4	805.6	788.9
60°	981.9	981.9	977.7	973.5	965.1	952.5	939.9	927.3	910.5	889.6	868.6
57.5°	1057.4	1057.4	1053.2	1049.0	1040.6	1032.2	1019.6	1007.1	990.3	973.5	948.3
55°	1137.1	1137.1	1132.9	1124.5	1116.1	1107.8	1095.2	1078.4	1061.6	1040.6	1023.8
52.5°	1229.4	1229.4	1225.2	1216.9	1204.3	1191.7	1174.9	1153.9	1132.9	1112.0	1086.8
50°	1321.8	1321.8	1313.4	1305.0	1296.6	1279.8	1263.0	1242.0	1216.9	1191.7	1162.3
47.5°	1435.0	1435.0	1426.7	1414.1	1397.3	1380.5	1355.3	1326.0	1300.8	1271.4	1237.8
45°	1573.5	1573.5	1560.9	1548.3	1527.4	1498.0	1468.6	1435.0	1397.3	1359.5	1317.6
42.5°	1753.9	1753.9	1737.2	1716.2	1686.8	1649.0	1602.9	1556.7	1510.6	1460.2	1409.9
40°	1997.3	1997.3	1972.1	1942.8	1896.6	1842.1	1774.9	1712.0	1649.0	1577.7	1514.8
37.5°	2379.2	2379.2	2337.2	2282.7	2207.1	2114.8	2001.5	1917.6	1821.1	1728.8	1644.9
35°	3004.4	3004.4	2928.8	2832.3	2698.1	2530.2	2349.8	2207.1	2047.7	1917.6	1795.9
32.5°	4116.3	4116.3	3965.3	3776.4	3520.5	3193.2	2891.1	2639.3	2379.2	2177.7	1984.7
30°	6268.9	6268.9	5945.8	5547.2	4997.5	4309.3	3793.2	3310.7	2870.1	2538.6	2257.5
27.5°	10309.7	10141.9	9638.3	8811.7	7678.8	6268.9	5370.9	4351.3	3654.8	3021.2	2630.9
25°	16276.5	15999.5	15168.7	13813.4	11967.1	9873.3	8039.6	6105.3	4884.2	3831.0	3105.1
22.5°	23527.3	23145.4	22016.7	20174.6	17678.0	14891.8	11925.2	9143.2	6667.5	5064.6	3831.0
20°	32112.4	31600.5	30085.7	27626.8	24320.3	20774.6	16813.6	13087.5	9516.6	6667.5	4884.2
17.5°	43445.9	42665.4	40370.2	36677.7	32112.4	27333.1	22381.7	17573.1	13087.5	9143.2	6105.3
15°	59739.2	58421.6	54569.6	48451.8	41343.7	34680.4	28365.3	22381.7	16813.6	11925.2	8039.6
12.5°	78575.2	76741.6	71433.6	63154.7	53495.4	42959.2	34680.4	27333.1	20774.6	14891.8	9873.3
10°	94444.7	92510.3	87026.1	78722.1	66473.8	53495.4	41343.7	32112.4	24320.3	17678.0	11967.1
7.5°	107851.1	105685.9	99773.7	90689.2	78722.1	63154.7	48451.8	36677.7	27626.8	20174.6	13813.4
5°	119495.1	116750.9	109869.4	99773.7	87026.1	71433.6	54569.6	40370.2	30085.7	22016.7	15168.7
2.5°	127274.6	124052.0	116750.9	105685.9	92510.3	76741.6	58421.6	42665.4	31600.5	23145.4	15999.5
0°	130136.3	127274.6	119495.1	107851.1	94444.7	78575.2	59739.2	43445.9	32112.4	23527.3	16276.5

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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°	42.0	42.0	37.8	37.8	37.8	33.6	33.6	33.6	29.4	29.4	29.4
85°	92.3	88.1	88.1	83.9	79.7	75.5	75.5	71.3	67.1	62.9	58.7
82.5°	146.9	142.7	138.5	134.3	130.1	121.7	117.5	113.3	104.9	100.7	96.5
80°	205.6	201.4	193.0	188.8	180.4	172.0	163.6	155.3	146.9	138.5	130.1
77.5°	276.9	264.4	256.0	247.6	235.0	226.6	214.0	205.6	193.0	180.4	167.8
75°	352.5	339.9	327.3	314.7	302.1	285.3	272.7	256.0	243.4	226.6	214.0
72.5°	436.4	419.6	402.8	386.0	369.3	352.5	335.7	314.7	297.9	276.9	256.0
70°	520.3	503.5	486.7	465.8	444.8	423.8	402.8	377.6	356.7	331.5	306.3
67.5°	608.4	587.4	566.5	545.5	524.5	499.3	470.0	444.8	415.4	386.0	360.9
65°	692.3	671.4	646.2	621.0	595.8	570.7	541.3	511.9	478.3	444.8	415.4
62.5°	767.9	746.9	725.9	696.5	671.4	642.0	612.6	574.9	541.3	507.7	470.0
60°	847.6	822.4	797.2	767.9	738.5	709.1	675.6	637.8	604.2	562.3	524.5
57.5°	923.1	898.0	868.6	839.2	805.6	772.1	738.5	700.7	663.0	621.0	579.1
55°	998.7	973.5	944.1	910.5	872.8	835.0	797.2	759.5	721.7	675.6	629.4
52.5°	1061.6	1036.4	1007.1	981.9	939.9	902.2	860.2	814.0	772.1	725.9	679.8
50°	1128.7	1099.4	1065.8	1036.4	1002.9	965.1	918.9	872.8	822.4	776.3	725.9
47.5°	1204.3	1166.5	1128.7	1091.0	1057.4	1015.4	977.7	927.3	877.0	822.4	772.1
45°	1279.8	1237.8	1195.9	1149.7	1107.8	1065.8	1023.8	981.9	927.3	872.8	814.0
42.5°	1359.5	1309.2	1263.0	1216.9	1166.5	1116.1	1070.0	1023.8	977.7	918.9	860.2
40°	1451.8	1393.1	1334.3	1279.8	1229.4	1170.7	1116.1	1065.8	1015.4	965.1	902.2
37.5°	1556.7	1485.4	1414.1	1346.9	1284.0	1229.4	1166.5	1107.8	1057.4	1002.9	939.9
35°	1691.0	1586.1	1502.2	1418.3	1346.9	1279.8	1216.9	1149.7	1091.0	1036.4	981.9
32.5°	1842.1	1712.0	1598.7	1502.2	1414.1	1334.3	1263.0	1195.9	1128.7	1065.8	1007.1
30°	2026.7	1858.9	1712.0	1586.1	1485.4	1393.1	1309.2	1237.8	1166.5	1099.4	1036.4
27.5°	2286.8	2026.7	1842.1	1691.0	1556.7	1451.8	1359.5	1279.8	1204.3	1128.7	1061.6
25°	2630.9	2257.5	1984.7	1795.9	1644.9	1514.8	1409.9	1317.6	1237.8	1162.3	1086.8
22.5°	3021.2	2538.6	2177.7	1917.6	1728.8	1577.7	1460.2	1359.5	1271.4	1191.7	1112.0
20°	3654.8	2870.1	2379.2	2047.7	1821.1	1649.0	1510.6	1397.3	1300.8	1216.9	1132.9
17.5°	4351.3	3310.7	2639.3	2207.1	1917.6	1712.0	1556.7	1435.0	1326.0	1242.0	1153.9
15°	5370.9	3793.2	2891.1	2349.8	2001.5	1774.9	1602.9	1468.6	1355.3	1263.0	1174.9
12.5°	6268.9	4309.3	3193.2	2530.2	2114.8	1842.1	1649.0	1498.0	1380.5	1279.8	1191.7
10°	7678.8	4997.5	3520.5	2698.1	2207.1	1896.6	1686.8	1527.4	1397.3	1296.6	1204.3
7.5°	8811.7	5547.2	3776.4	2832.3	2282.7	1942.8	1716.2	1548.3	1414.1	1305.0	1216.9
5°	9638.3	5945.8	3965.3	2928.8	2337.2	1972.1	1737.2	1560.9	1426.7	1313.4	1225.2
2.5°	10141.9	6268.9	4116.3	3004.4	2379.2	1997.3	1753.9	1573.5	1435.0	1321.8	1229.4
0°	10309.7	6268.9	4116.3	3004.4	2379.2	1997.3	1753.9	1573.5	1435.0	1321.8	1229.4

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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°	25.2	25.2	21.0	21.0	21.0	16.8	16.8	12.6	12.6	8.4	8.4
85°	54.5	50.4	46.2	42.0	37.8	33.6	33.6	29.4	25.2	21.0	16.8
82.5°	88.1	83.9	75.5	67.1	62.9	54.5	46.2	42.0	37.8	29.4	25.2
80°	121.7	113.3	104.9	96.5	88.1	75.5	67.1	58.7	46.2	37.8	33.6
77.5°	159.4	146.9	134.3	121.7	109.1	100.7	88.1	75.5	62.9	50.4	37.8
75°	197.2	180.4	167.8	151.1	138.5	121.7	104.9	92.3	79.7	62.9	46.2
72.5°	239.2	218.2	201.4	180.4	163.6	146.9	125.9	109.1	92.3	75.5	58.7
70°	285.3	260.2	235.0	214.0	193.0	167.8	146.9	125.9	104.9	88.1	67.1
67.5°	331.5	302.1	272.7	243.4	218.2	193.0	167.8	146.9	121.7	100.7	75.5
65°	377.6	344.1	314.7	281.1	247.6	218.2	193.0	163.6	138.5	109.1	88.1
62.5°	428.0	390.2	352.5	314.7	281.1	243.4	214.0	180.4	151.1	121.7	96.5
60°	482.5	440.6	394.4	352.5	314.7	272.7	235.0	201.4	167.8	134.3	104.9
57.5°	532.9	486.7	440.6	390.2	344.1	302.1	260.2	218.2	180.4	146.9	113.3
55°	583.3	532.9	482.5	428.0	377.6	331.5	285.3	239.2	197.2	159.4	121.7
52.5°	629.4	579.1	524.5	470.0	415.4	360.9	306.3	256.0	214.0	167.8	130.1
50°	675.6	621.0	562.3	507.7	444.8	386.0	331.5	276.9	226.6	180.4	138.5
47.5°	721.7	663.0	604.2	541.3	478.3	415.4	356.7	297.9	243.4	193.0	146.9
45°	759.5	700.7	637.8	574.9	511.9	444.8	377.6	314.7	256.0	205.6	155.3
42.5°	797.2	738.5	675.6	612.6	541.3	470.0	402.8	335.7	272.7	214.0	163.6
40°	835.0	772.1	709.1	642.0	570.7	499.3	423.8	352.5	285.3	226.6	172.0
37.5°	872.8	805.6	738.5	671.4	595.8	524.5	444.8	369.3	302.1	235.0	180.4
35°	910.5	839.2	767.9	696.5	621.0	545.5	465.8	386.0	314.7	247.6	188.8
32.5°	944.1	868.6	797.2	725.9	646.2	566.5	486.7	402.8	327.3	256.0	193.0
30°	973.5	898.0	822.4	746.9	671.4	587.4	503.5	419.6	339.9	264.4	201.4
27.5°	998.7	923.1	847.6	767.9	692.3	608.4	520.3	436.4	352.5	276.9	205.6
25°	1023.8	948.3	868.6	788.9	709.1	625.2	537.1	449.0	360.9	285.3	214.0
22.5°	1040.6	973.5	889.6	805.6	725.9	637.8	549.7	461.6	373.4	289.5	218.2
20°	1061.6	990.3	910.5	822.4	742.7	654.6	562.3	474.2	381.8	297.9	222.4
17.5°	1078.4	1007.1	927.3	839.2	755.3	667.2	574.9	482.5	390.2	302.1	226.6
15°	1095.2	1019.6	939.9	851.8	763.7	679.8	583.3	490.9	394.4	310.5	230.8
12.5°	1107.8	1032.2	952.5	864.4	776.3	688.2	591.6	499.3	402.8	314.7	230.8
10°	1116.1	1040.6	965.1	872.8	784.7	696.5	600.0	503.5	407.0	314.7	235.0
7.5°	1124.5	1049.0	973.5	881.2	788.9	700.7	604.2	511.9	411.2	318.9	239.2
5°	1132.9	1053.2	977.7	885.4	793.1	709.1	612.6	516.1	415.4	323.1	239.2
2.5°	1137.1	1057.4	981.9	889.6	797.2	709.1	612.6	516.1	415.4	323.1	239.2
0°	1137.1	1057.4	981.9	889.6	797.2	709.1	612.6	516.1	415.4	323.1	239.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	0.0	0.0
85°	12.6	8.4	4.2	0.0
82.5°	16.8	12.6	4.2	0.0
80°	25.2	16.8	8.4	0.0
77.5°	29.4	21.0	8.4	0.0
75°	37.8	25.2	12.6	0.0
72.5°	42.0	29.4	12.6	0.0
70°	46.2	33.6	16.8	0.0
67.5°	54.5	33.6	16.8	0.0
65°	62.9	37.8	21.0	0.0
62.5°	67.1	42.0	21.0	0.0
60°	75.5	46.2	21.0	0.0
57.5°	83.9	50.4	25.2	0.0
55°	88.1	54.5	25.2	0.0
52.5°	96.5	58.7	29.4	0.0
50°	100.7	62.9	29.4	0.0
47.5°	104.9	67.1	29.4	0.0
45°	113.3	71.3	33.6	0.0
42.5°	117.5	75.5	33.6	0.0
40°	121.7	75.5	33.6	0.0
37.5°	130.1	79.7	37.8	0.0
35°	134.3	83.9	37.8	0.0
32.5°	138.5	88.1	37.8	0.0
30°	142.7	88.1	42.0	0.0
27.5°	146.9	92.3	42.0	0.0
25°	151.1	92.3	42.0	0.0
22.5°	155.3	96.5	42.0	0.0
20°	155.3	96.5	42.0	0.0
17.5°	159.4	100.7	42.0	0.0
15°	159.4	100.7	46.2	0.0
12.5°	163.6	100.7	46.2	0.0
10°	163.6	104.9	46.2	0.0
7.5°	167.8	104.9	46.2	0.0
5°	167.8	104.9	46.2	0.0
2.5°	167.8	104.9	46.2	0.0
0°	167.8	104.9	46.2	0.0

(END OF REPORT)