

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: P624506

Luminaire Tested: **IFLD-S-SA6B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21939.7 lumens	Max Intensity:	12185.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	89.6 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:	9493.1 lumens	Field Lumens:	15544.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

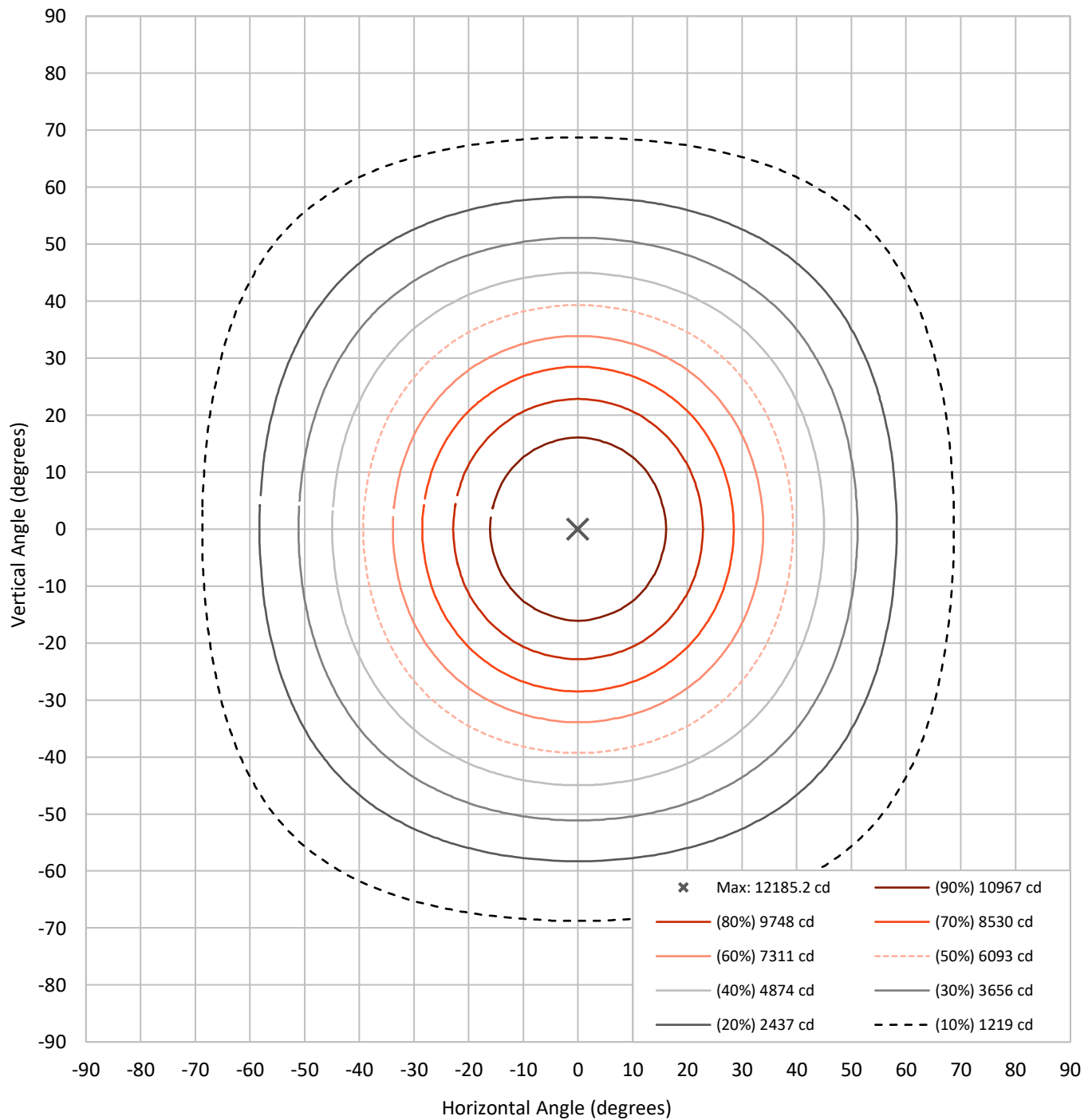
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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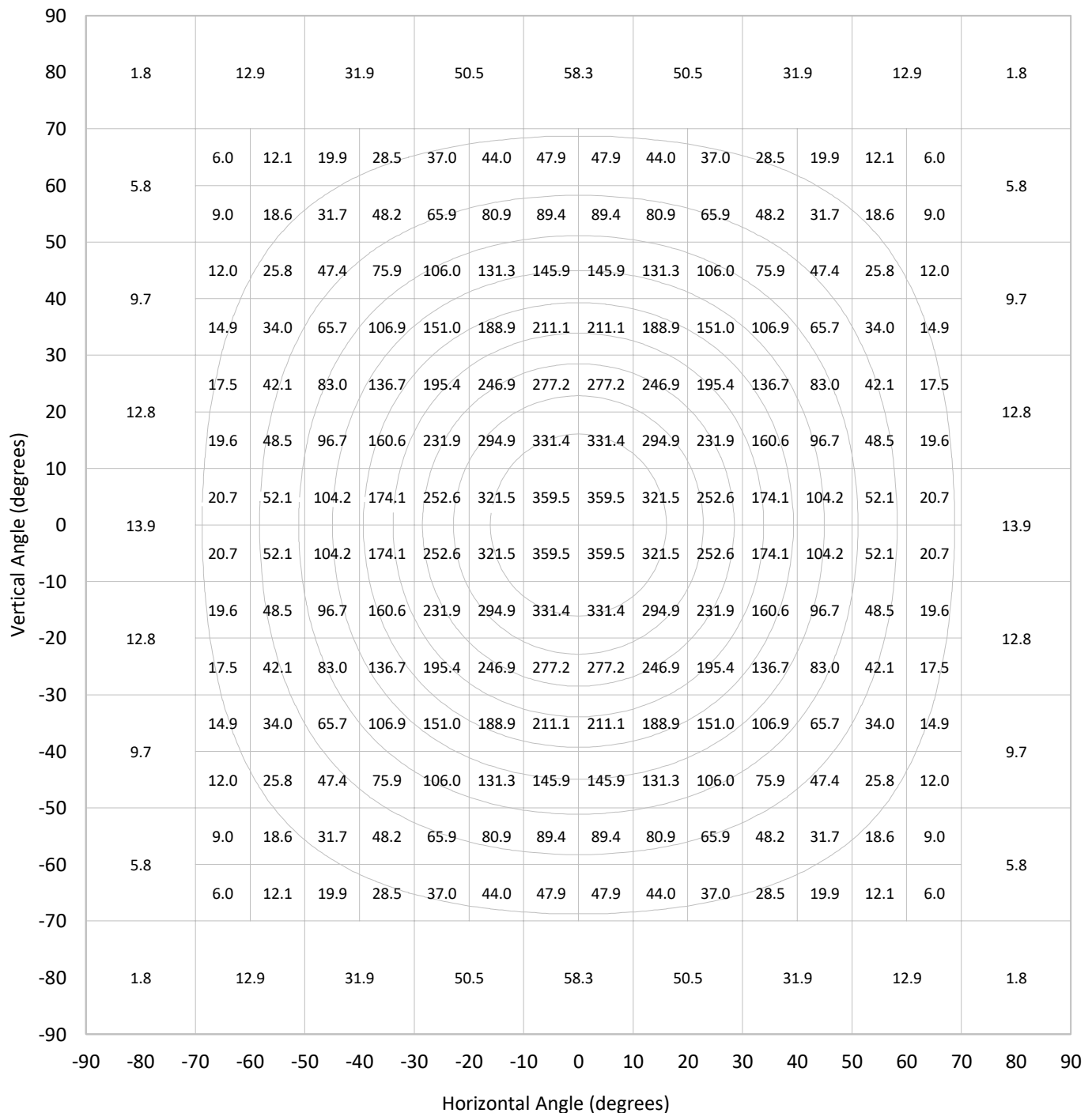
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Iso-Candela Plot



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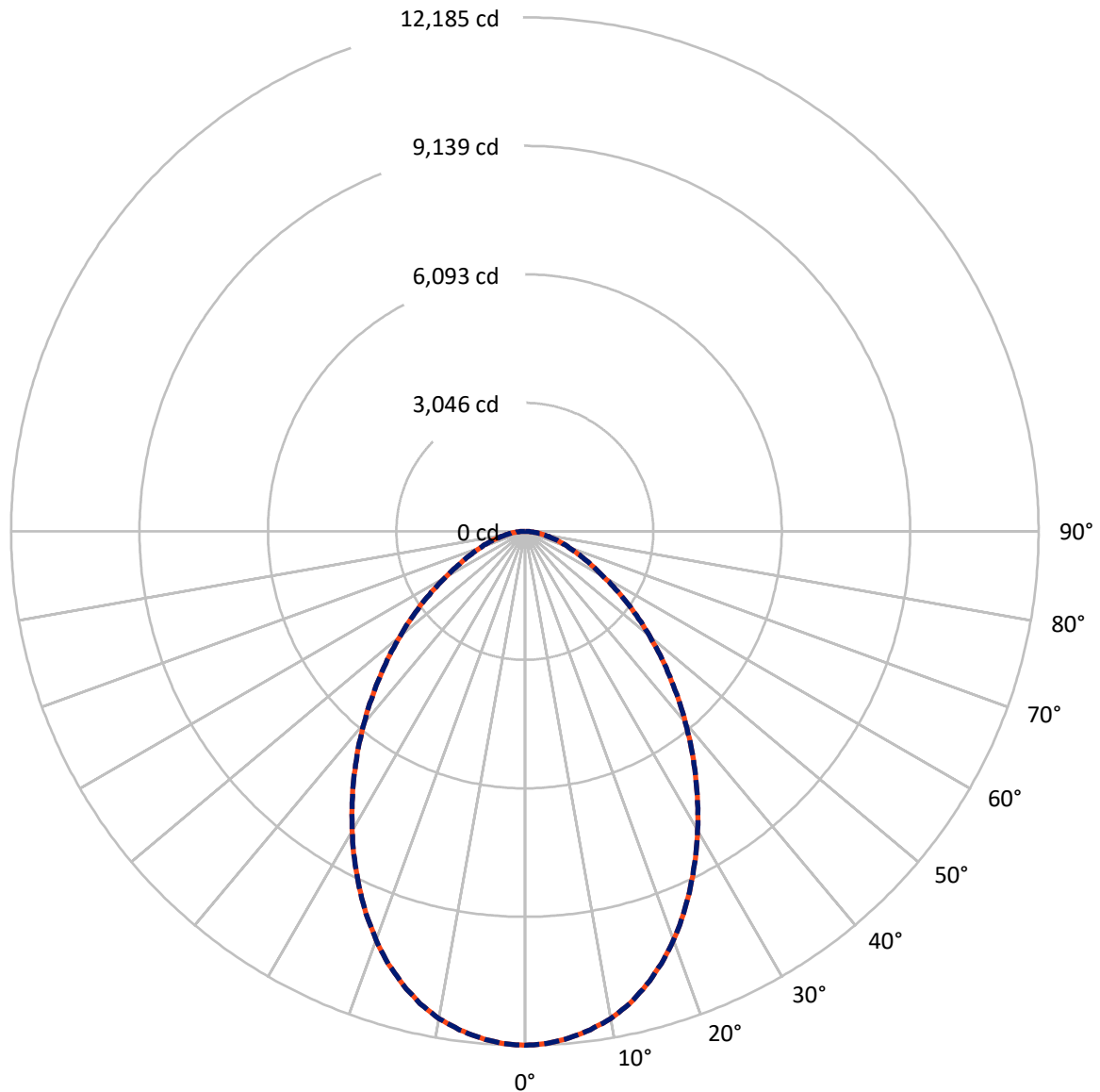
Lumen Table



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Luminous Intensity Polar Plot

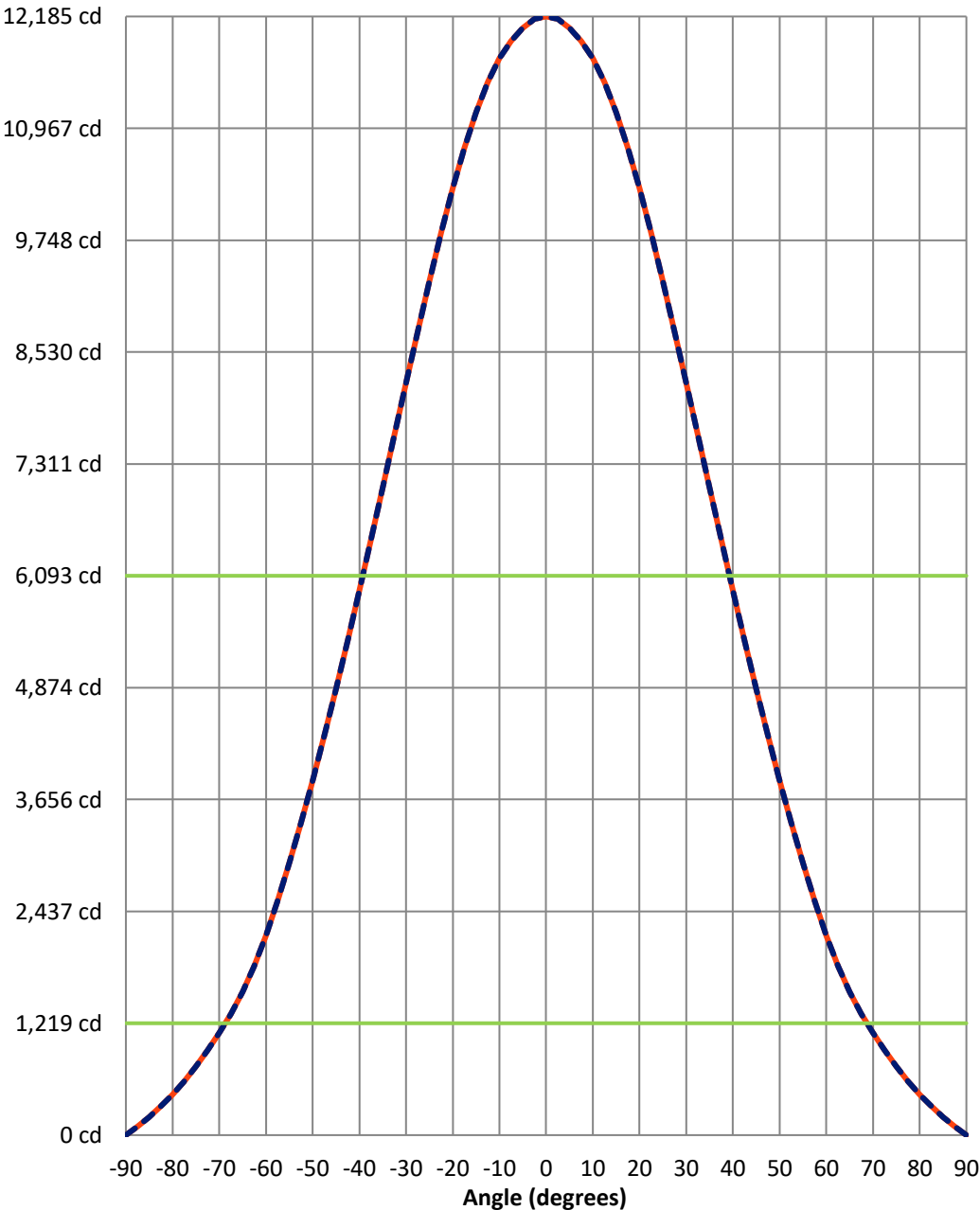


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9493.1
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15544.6
Efficiency: 70.9%

Spill:
Lumens: 6395.1
Efficiency: 29.1%



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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°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	89.2	89.2	86.9	84.6
85°	196.7	196.7	196.7	196.7	196.7	192.1	189.9	187.6	185.3	180.7	178.4
82.5°	315.7	315.7	315.7	315.7	311.1	306.5	304.2	299.7	295.1	288.2	281.4
80°	441.5	441.5	441.5	441.5	434.6	430.0	423.2	418.6	411.7	402.6	393.4
77.5°	585.6	585.6	585.6	578.7	574.1	567.3	560.4	551.3	542.1	530.7	517.0
75°	748.0	748.0	748.0	738.8	732.0	725.1	713.7	702.2	688.5	672.5	654.2
72.5°	924.1	924.1	924.1	912.7	905.8	894.4	880.7	864.7	848.6	828.1	805.2
70°	1114.0	1114.0	1114.0	1100.3	1088.8	1077.4	1059.1	1040.8	1017.9	995.0	967.6
67.5°	1319.9	1319.9	1319.9	1303.8	1290.1	1274.1	1253.5	1230.6	1203.2	1171.2	1139.1
65°	1560.0	1560.0	1550.9	1537.2	1521.1	1498.3	1473.1	1441.1	1406.8	1365.6	1322.1
62.5°	1843.7	1843.7	1830.0	1813.9	1793.4	1763.6	1729.3	1688.1	1640.1	1587.5	1534.9
60°	2173.1	2173.1	2157.1	2136.5	2106.7	2070.1	2024.4	1971.8	1912.3	1846.0	1781.9
57.5°	2552.8	2552.8	2532.2	2504.7	2468.1	2422.4	2365.2	2298.9	2223.4	2141.0	2061.0
55°	2964.5	2964.5	2939.4	2907.3	2863.9	2809.0	2740.4	2662.6	2571.1	2477.3	2374.4
52.5°	3401.4	3401.4	3371.7	3335.1	3284.8	3220.7	3142.9	3051.4	2946.2	2836.4	2715.2
50°	3861.2	3861.2	3826.9	3785.7	3728.5	3653.0	3563.8	3458.6	3342.0	3213.9	3074.3
47.5°	4353.0	4353.0	4314.1	4266.1	4197.5	4110.5	4005.3	3884.1	3751.4	3607.3	3449.5
45°	4858.5	4858.5	4815.1	4760.2	4684.7	4586.3	4469.7	4353.0	4183.7	4016.7	3833.8
42.5°	5384.6	5384.6	5334.3	5272.6	5185.6	5078.1	4945.4	4794.5	4627.5	4439.9	4240.9
40°	5931.3	5931.3	5874.2	5803.2	5707.2	5583.6	5435.0	5265.7	5078.1	4870.0	4650.4
37.5°	6489.5	6489.5	6425.4	6347.7	6240.1	6102.9	5935.9	5748.3	5537.9	5306.9	5064.4
35°	7052.2	7052.2	6981.3	6896.6	6777.7	6626.7	6446.0	6237.9	6004.5	5752.9	5480.7
32.5°	7626.3	7626.3	7548.6	7452.5	7317.5	7150.5	6951.5	6725.1	6489.5	6196.7	5899.3
30°	8193.6	8193.6	8109.0	8003.8	7859.7	7676.7	7459.3	7210.0	6933.2	6633.6	6313.3
27.5°	8751.8	8728.9	8658.0	8545.9	8388.0	8193.6	7958.0	7688.1	7388.4	7059.0	6715.9
25°	9300.7	9275.6	9197.8	9074.3	8905.0	8692.3	8438.4	8150.2	7827.6	7479.9	7104.8
22.5°	9826.9	9799.4	9717.1	9584.4	9403.7	9172.6	8900.4	8591.6	8248.5	7875.7	7479.9
20°	10314.1	10284.3	10199.7	10060.2	9872.6	9627.8	9339.6	9007.9	8642.0	8248.5	7827.6
17.5°	10753.3	10723.5	10634.3	10490.2	10314.1	10041.9	9744.5	9394.5	9007.9	8591.6	8150.2
15°	11139.8	11107.8	11016.3	10872.2	10670.9	10414.7	10101.3	9744.5	9339.6	8900.4	8438.4
12.5°	11469.2	11437.2	11343.4	11199.3	10991.2	10735.0	10414.7	10041.9	9627.8	9172.6	8692.3
10°	11730.0	11698.0	11608.8	11471.5	11256.5	10991.2	10670.9	10314.1	9872.6	9403.7	8905.0
7.5°	11917.6	11887.8	11805.5	11668.2	11471.5	11199.3	10872.2	10490.2	10060.2	9584.4	9074.3
5°	12059.4	12025.1	11942.7	11805.5	11608.8	11343.4	11016.3	10634.3	10199.7	9717.1	9197.8
2.5°	12157.8	12116.6	12025.1	11887.8	11698.0	11437.2	11107.8	10723.5	10284.3	9799.4	9275.6
0°	12185.2	12157.8	12059.4	11917.6	11730.0	11469.2	11139.8	10753.3	10314.1	9826.9	9300.7

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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°	82.3	82.3	80.1	77.8	75.5	70.9	68.6	66.3	64.0	59.5	57.2
85°	173.8	169.3	164.7	160.1	153.3	148.7	141.8	137.2	130.4	123.5	116.7
82.5°	274.5	267.6	258.5	251.6	242.5	231.0	221.9	210.4	199.0	189.9	178.4
80°	384.3	372.9	361.4	350.0	336.3	322.5	308.8	295.1	279.1	263.1	247.0
77.5°	503.2	487.2	471.2	452.9	436.9	418.6	400.3	382.0	361.4	340.8	320.2
75°	635.9	615.3	592.4	569.6	549.0	523.8	498.7	473.5	446.1	420.9	393.4
72.5°	780.0	754.9	727.4	700.0	670.2	638.2	606.2	571.9	539.8	507.8	473.5
70°	935.6	905.8	871.5	837.2	800.6	761.7	722.8	681.7	640.5	599.3	558.1
67.5°	1102.5	1065.9	1024.8	983.6	937.9	892.1	846.4	798.3	748.0	697.7	649.6
65°	1281.0	1235.2	1187.2	1134.6	1082.0	1029.3	974.5	917.3	860.1	800.6	748.0
62.5°	1480.0	1422.8	1361.0	1297.0	1237.5	1173.5	1114.0	1043.1	974.5	908.1	841.8
60°	1711.0	1635.5	1560.0	1480.0	1404.5	1322.1	1248.9	1171.2	1093.4	1017.9	940.1
57.5°	1969.5	1873.4	1781.9	1685.8	1585.2	1493.7	1399.9	1306.1	1219.2	1130.0	1045.4
55°	2262.3	2145.6	2031.2	1912.3	1795.6	1681.3	1562.3	1457.1	1349.6	1248.9	1150.6
52.5°	2582.5	2449.9	2308.0	2173.1	2024.4	1882.6	1749.9	1617.2	1491.4	1370.2	1258.1
50°	2925.6	2770.1	2607.7	2443.0	2273.7	2106.7	1946.6	1791.1	1644.7	1502.8	1370.2
47.5°	3282.5	3106.3	2921.1	2733.5	2552.8	2349.2	2157.1	1980.9	1804.8	1644.7	1491.4
45°	3648.5	3449.5	3245.9	3033.1	2820.4	2600.8	2388.1	2173.1	1980.9	1791.1	1617.2
42.5°	4025.9	3801.7	3575.3	3339.7	3104.1	2863.9	2623.7	2388.1	2157.1	1946.6	1749.9
40°	4414.8	4167.7	3909.2	3653.0	3401.4	3126.9	2863.9	2600.8	2349.2	2106.7	1882.6
37.5°	4803.6	4533.7	4254.6	3966.4	3678.2	3401.4	3104.1	2820.4	2552.8	2273.7	2024.4
35°	5194.8	4897.4	4595.5	4282.1	3966.4	3653.0	3339.7	3033.1	2733.5	2443.0	2173.1
32.5°	5588.2	5263.4	4929.4	4595.5	4254.6	3909.2	3575.3	3245.9	2921.1	2607.7	2308.0
30°	5974.8	5622.5	5263.4	4897.4	4533.7	4167.7	3801.7	3449.5	3106.3	2770.1	2449.9
27.5°	6352.2	5974.8	5588.2	5194.8	4803.6	4414.8	4025.9	3648.5	3282.5	2925.6	2582.5
25°	6715.9	6313.3	5899.3	5480.7	5064.4	4650.4	4240.9	3833.8	3449.5	3074.3	2715.2
22.5°	7059.0	6633.6	6196.7	5752.9	5306.9	4870.0	4439.9	4016.7	3607.3	3213.9	2836.4
20°	7388.4	6933.2	6489.5	6004.5	5537.9	5078.1	4627.5	4183.7	3751.4	3342.0	2946.2
17.5°	7688.1	7210.0	6725.1	6237.9	5748.3	5265.7	4794.5	4353.0	3884.1	3458.6	3051.4
15°	7958.0	7459.3	6951.5	6446.0	5935.9	5435.0	4945.4	4469.7	4005.3	3563.8	3142.9
12.5°	8193.6	7676.7	7150.5	6626.7	6102.9	5583.6	5078.1	4586.3	4110.5	3653.0	3220.7
10°	8388.0	7859.7	7317.5	6777.7	6240.1	5707.2	5185.6	4684.7	4197.5	3728.5	3284.8
7.5°	8545.9	8003.8	7452.5	6896.6	6347.7	5803.2	5272.6	4760.2	4266.1	3785.7	3335.1
5°	8658.0	8109.0	7548.6	6981.3	6425.4	5874.2	5334.3	4815.1	4314.1	3826.9	3371.7
2.5°	8728.9	8193.6	7626.3	7052.2	6489.5	5931.3	5384.6	4858.5	4353.0	3861.2	3401.4
0°	8751.8	8193.6	7626.3	7052.2	6489.5	5931.3	5384.6	4858.5	4353.0	3861.2	3401.4

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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°	54.9	50.3	45.7	43.5	38.9	36.6	32.0	27.4	25.2	20.6	16.0
85°	109.8	100.6	93.8	86.9	80.1	70.9	64.0	57.2	48.0	41.2	32.0
82.5°	167.0	155.5	144.1	132.7	121.2	109.8	96.1	84.6	73.2	61.8	48.0
80°	231.0	212.7	196.7	180.7	164.7	148.7	130.4	114.4	96.1	80.1	64.0
77.5°	297.4	276.8	253.9	231.0	208.2	187.6	164.7	144.1	123.5	100.6	80.1
75°	368.3	340.8	315.7	285.9	258.5	228.7	201.3	173.8	148.7	123.5	96.1
72.5°	441.5	407.2	372.9	340.8	306.5	272.2	240.2	205.9	173.8	144.1	114.4
70°	517.0	475.8	434.6	395.7	356.8	315.7	279.1	240.2	201.3	164.7	130.4
67.5°	597.0	549.0	500.9	450.6	407.2	361.4	315.7	272.2	228.7	187.6	148.7
65°	683.9	626.8	567.3	514.7	457.5	407.2	356.8	306.5	258.5	208.2	164.7
62.5°	773.2	706.8	640.5	574.1	514.7	450.6	395.7	340.8	285.9	231.0	180.7
60°	864.7	789.2	713.7	640.5	567.3	500.9	434.6	372.9	315.7	253.9	196.7
57.5°	958.4	873.8	789.2	706.8	626.8	549.0	475.8	407.2	340.8	276.8	212.7
55°	1054.5	958.4	864.7	773.2	683.9	597.0	517.0	441.5	368.3	297.4	231.0
52.5°	1150.6	1045.4	940.1	841.8	748.0	649.6	558.1	473.5	393.4	320.2	247.0
50°	1248.9	1130.0	1017.9	908.1	800.6	697.7	599.3	507.8	420.9	340.8	263.1
47.5°	1349.6	1219.2	1093.4	974.5	860.1	748.0	640.5	539.8	446.1	361.4	279.1
45°	1457.1	1306.1	1171.2	1043.1	917.3	798.3	681.7	571.9	473.5	382.0	295.1
42.5°	1562.3	1399.9	1248.9	1114.0	974.5	846.4	722.8	606.2	498.7	400.3	308.8
40°	1681.3	1493.7	1322.1	1173.5	1029.3	892.1	761.7	638.2	523.8	418.6	322.5
37.5°	1795.6	1585.2	1404.5	1237.5	1082.0	937.9	800.6	670.2	549.0	436.9	336.3
35°	1912.3	1685.8	1480.0	1297.0	1134.6	983.6	837.2	700.0	569.6	452.9	350.0
32.5°	2031.2	1781.9	1560.0	1361.0	1187.2	1024.8	871.5	727.4	592.4	471.2	361.4
30°	2145.6	1873.4	1635.5	1422.8	1235.2	1065.9	905.8	754.9	615.3	487.2	372.9
27.5°	2262.3	1969.5	1711.0	1480.0	1281.0	1102.5	935.6	780.0	635.9	503.2	384.3
25°	2374.4	2061.0	1781.9	1534.9	1322.1	1139.1	967.6	805.2	654.2	517.0	393.4
22.5°	2477.3	2141.0	1846.0	1587.5	1365.6	1171.2	995.0	828.1	672.5	530.7	402.6
20°	2571.1	2223.4	1912.3	1640.1	1406.8	1203.2	1017.9	848.6	688.5	542.1	411.7
17.5°	2662.6	2298.9	1971.8	1688.1	1441.1	1230.6	1040.8	864.7	702.2	551.3	418.6
15°	2740.4	2365.2	2024.4	1729.3	1473.1	1253.5	1059.1	880.7	713.7	560.4	423.2
12.5°	2809.0	2422.4	2070.1	1763.6	1498.3	1274.1	1077.4	894.4	725.1	567.3	430.0
10°	2863.9	2468.1	2106.7	1793.4	1521.1	1290.1	1088.8	905.8	732.0	574.1	434.6
7.5°	2907.3	2504.7	2136.5	1813.9	1537.2	1303.8	1100.3	912.7	738.8	578.7	441.5
5°	2939.4	2532.2	2157.1	1830.0	1550.9	1319.9	1114.0	924.1	748.0	585.6	441.5
2.5°	2964.5	2552.8	2173.1	1843.7	1560.0	1319.9	1114.0	924.1	748.0	585.6	441.5
0°	2964.5	2552.8	2173.1	1843.7	1560.0	1319.9	1114.0	924.1	748.0	585.6	441.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.4	9.1	4.6	0.0
85°	25.2	16.0	9.1	0.0
82.5°	36.6	25.2	11.4	0.0
80°	48.0	32.0	16.0	0.0
77.5°	61.8	41.2	20.6	0.0
75°	73.2	48.0	25.2	0.0
72.5°	84.6	57.2	27.4	0.0
70°	96.1	64.0	32.0	0.0
67.5°	109.8	70.9	36.6	0.0
65°	121.2	80.1	38.9	0.0
62.5°	132.7	86.9	43.5	0.0
60°	144.1	93.8	45.7	0.0
57.5°	155.5	100.6	50.3	0.0
55°	167.0	109.8	54.9	0.0
52.5°	178.4	116.7	57.2	0.0
50°	189.9	123.5	59.5	0.0
47.5°	199.0	130.4	64.0	0.0
45°	210.4	137.2	66.3	0.0
42.5°	221.9	141.8	68.6	0.0
40°	231.0	148.7	70.9	0.0
37.5°	242.5	153.3	75.5	0.0
35°	251.6	160.1	77.8	0.0
32.5°	258.5	164.7	80.1	0.0
30°	267.6	169.3	82.3	0.0
27.5°	274.5	173.8	82.3	0.0
25°	281.4	178.4	84.6	0.0
22.5°	288.2	180.7	86.9	0.0
20°	295.1	185.3	89.2	0.0
17.5°	299.7	187.6	89.2	0.0
15°	304.2	189.9	93.8	0.0
12.5°	306.5	192.1	93.8	0.0
10°	311.1	196.7	93.8	0.0
7.5°	315.7	196.7	93.8	0.0
5°	315.7	196.7	93.8	0.0
2.5°	315.7	196.7	93.8	0.0
0°	315.7	196.7	93.8	0.0

(END OF REPORT)