

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: P624540

Luminaire Tested: **IFLD-M-SA4B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

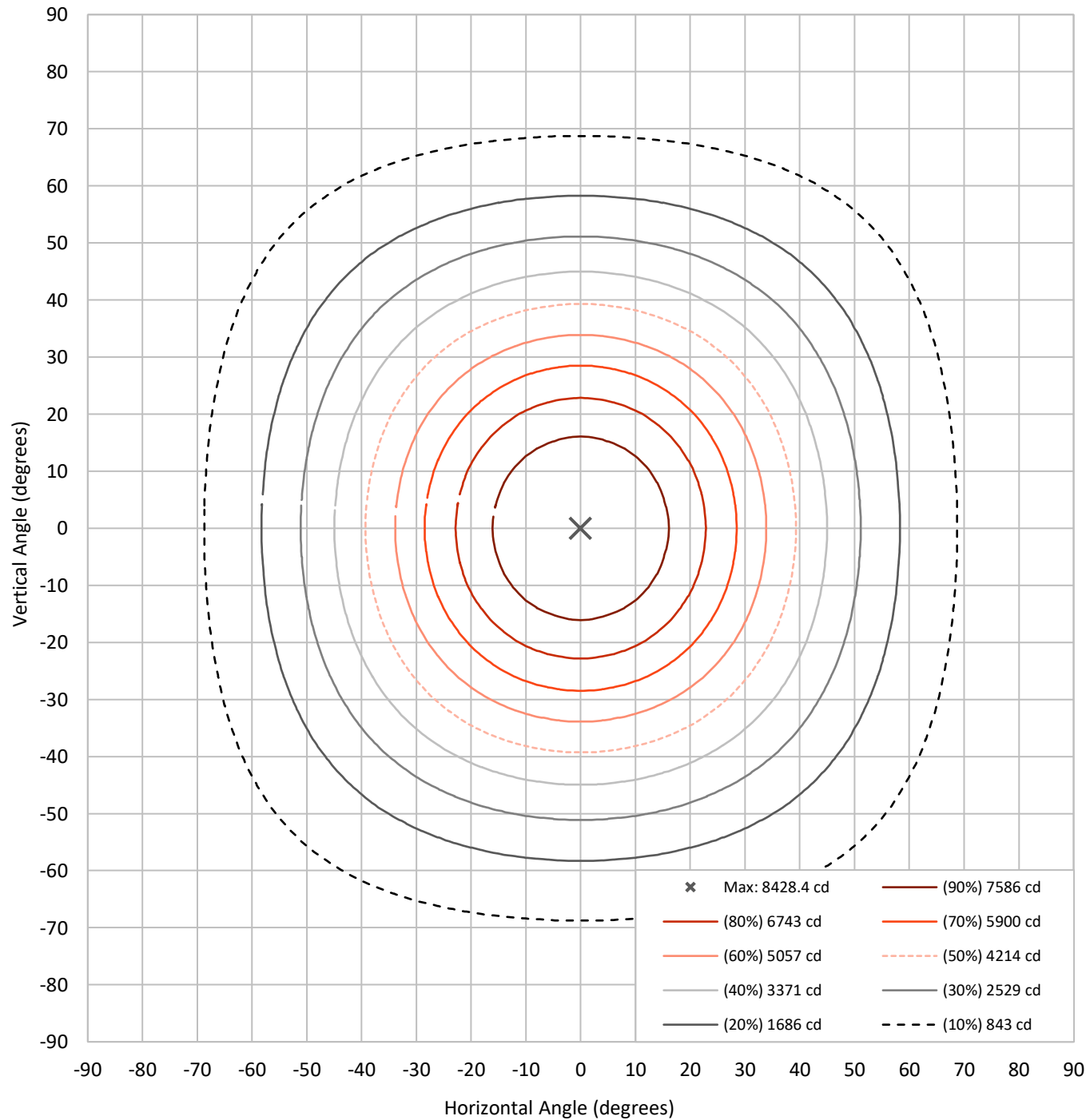
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15175.5 lumens	Max Intensity:	8428.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6566.3 lumens	Field Lumens:	10752.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
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		





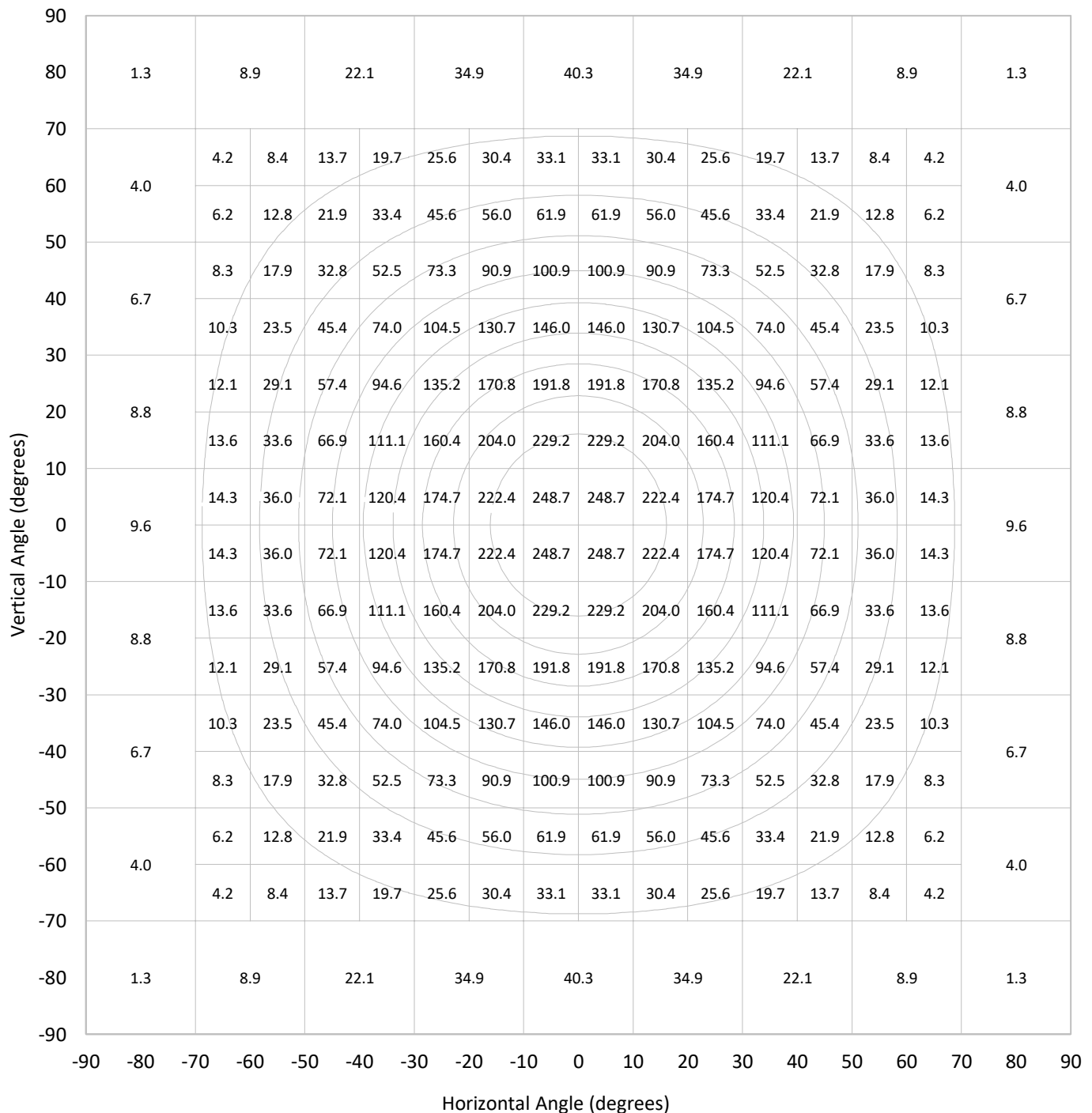
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Iso-Candela Plot



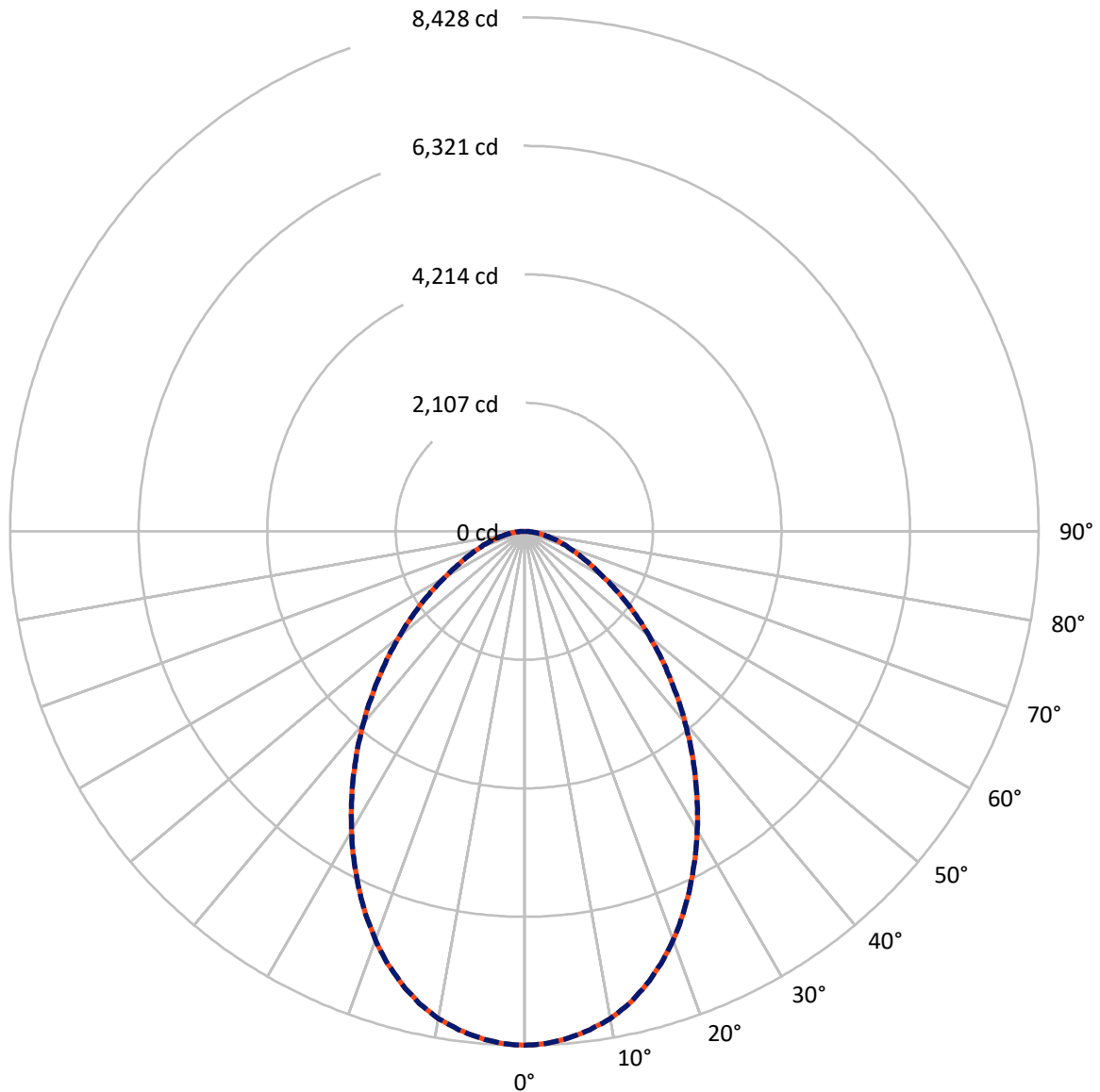
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Lumen Table



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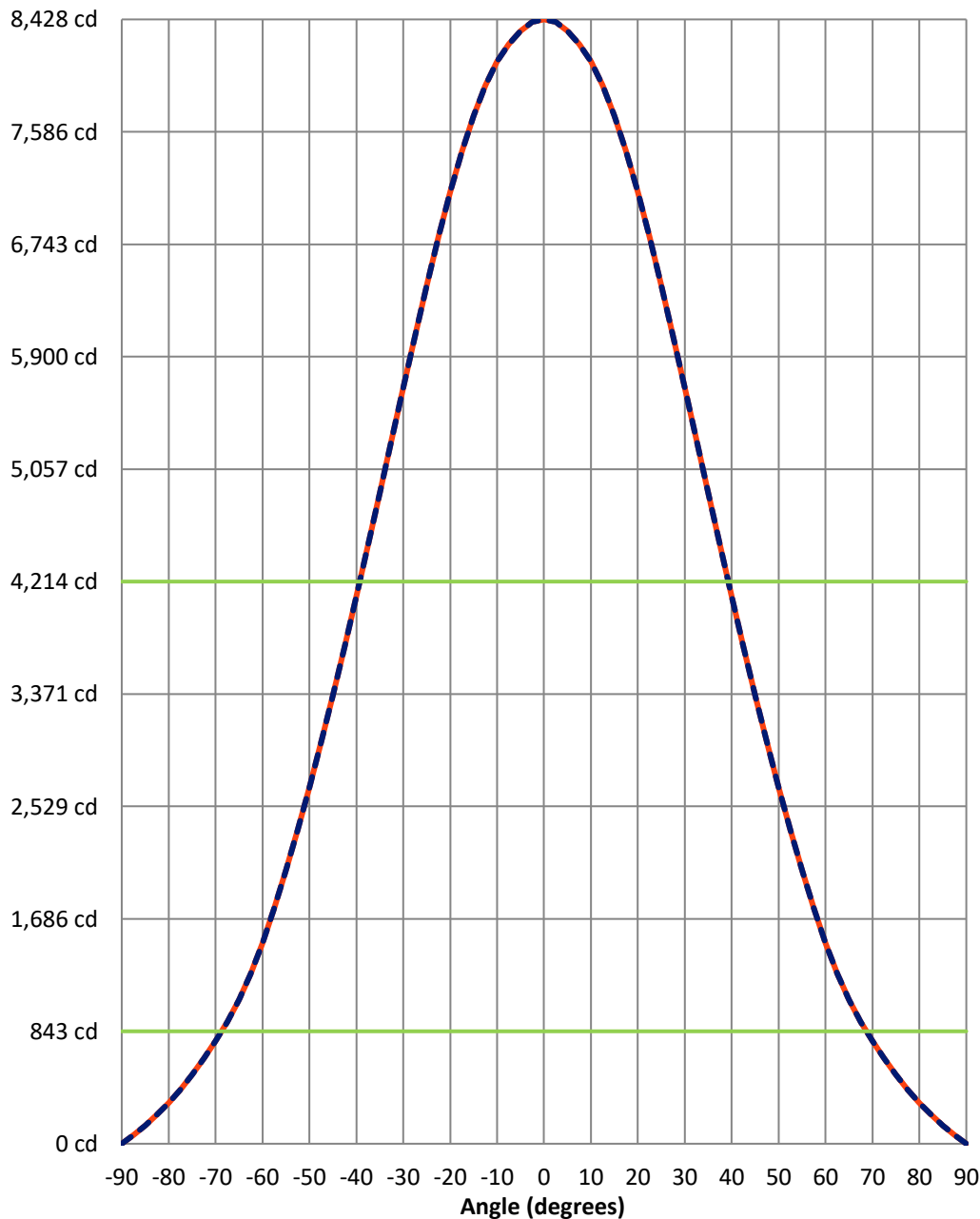
Luminous Intensity Polar Plot



— 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: 6566.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10752.1
Efficiency: 70.9%

Spill:

Lumens: 4423.4
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	61.7	61.7	60.1	58.5
85°	136.1	136.1	136.1	136.1	136.1	132.9	131.3	129.7	128.2	125.0	123.4
82.5°	218.3	218.3	218.3	218.3	215.2	212.0	210.4	207.3	204.1	199.4	194.6
80°	305.4	305.4	305.4	305.4	300.6	297.5	292.7	289.5	284.8	278.5	272.1
77.5°	405.0	405.0	405.0	400.3	397.1	392.4	387.6	381.3	375.0	367.1	357.6
75°	517.4	517.4	517.4	511.1	506.3	501.6	493.6	485.7	476.2	465.2	452.5
72.5°	639.2	639.2	639.2	631.3	626.6	618.6	609.1	598.1	587.0	572.8	556.9
70°	770.5	770.5	770.5	761.0	753.1	745.2	732.6	719.9	704.1	688.3	669.3
67.5°	912.9	912.9	912.9	901.9	892.4	881.3	867.0	851.2	832.2	810.1	787.9
65°	1079.1	1079.1	1072.7	1063.2	1052.2	1036.3	1018.9	996.8	973.1	944.6	914.5
62.5°	1275.3	1275.3	1265.8	1254.7	1240.4	1219.9	1196.1	1167.7	1134.4	1098.0	1061.7
60°	1503.1	1503.1	1492.0	1477.8	1457.2	1431.9	1400.2	1363.9	1322.7	1276.8	1232.5
57.5°	1765.7	1765.7	1751.5	1732.5	1707.2	1675.5	1636.0	1590.1	1537.9	1480.9	1425.6
55°	2050.5	2050.5	2033.1	2011.0	1980.9	1942.9	1895.5	1841.7	1778.4	1713.5	1642.3
52.5°	2352.7	2352.7	2332.2	2306.8	2272.0	2227.7	2173.9	2110.7	2037.9	1961.9	1878.1
50°	2670.8	2670.8	2647.0	2618.5	2579.0	2526.8	2465.1	2392.3	2311.6	2223.0	2126.5
47.5°	3010.9	3010.9	2984.0	2950.8	2903.3	2843.2	2770.4	2686.6	2594.8	2495.1	2386.0
45°	3360.6	3360.6	3330.5	3292.6	3240.3	3172.3	3091.6	3010.9	2893.8	2778.3	2651.8
42.5°	3724.5	3724.5	3689.7	3647.0	3586.8	3512.5	3420.7	3316.3	3200.8	3071.0	2933.4
40°	4102.6	4102.6	4063.1	4014.0	3947.6	3862.1	3759.3	3642.2	3512.5	3368.5	3216.6
37.5°	4488.7	4488.7	4444.4	4390.6	4316.2	4221.3	4105.8	3976.1	3830.5	3670.7	3503.0
35°	4877.9	4877.9	4828.9	4770.3	4688.1	4583.6	4458.6	4314.7	4153.3	3979.2	3790.9
32.5°	5275.1	5275.1	5221.3	5154.8	5061.5	4946.0	4808.3	4651.7	4488.7	4286.2	4080.5
30°	5667.4	5667.4	5608.9	5536.1	5436.4	5309.9	5159.6	4987.1	4795.6	4588.4	4366.9
27.5°	6053.5	6037.7	5988.6	5911.1	5801.9	5667.4	5504.5	5317.8	5110.5	4882.7	4645.3
25°	6433.2	6415.8	6362.0	6276.6	6159.5	6012.4	5836.7	5637.4	5414.3	5173.8	4914.3
22.5°	6797.1	6778.1	6721.2	6629.4	6504.4	6344.6	6156.3	5942.7	5705.4	5447.5	5173.8
20°	7134.1	7113.6	7055.0	6958.5	6828.8	6659.5	6460.1	6230.7	5977.5	5705.4	5414.3
17.5°	7437.9	7417.4	7355.6	7256.0	7134.1	6945.9	6740.2	6498.1	6230.7	5942.7	5637.4
15°	7705.3	7683.2	7619.9	7520.2	7381.0	7203.8	6987.0	6740.2	6460.1	6156.3	5836.7
12.5°	7933.1	7911.0	7846.1	7746.4	7602.5	7425.3	7203.8	6945.9	6659.5	6344.6	6012.4
10°	8113.5	8091.4	8029.7	7934.7	7786.0	7602.5	7381.0	7134.1	6828.8	6504.4	6159.5
7.5°	8243.3	8222.7	8165.7	8070.8	7934.7	7746.4	7520.2	7256.0	6958.5	6629.4	6276.6
5°	8341.4	8317.6	8260.7	8165.7	8029.7	7846.1	7619.9	7355.6	7055.0	6721.2	6362.0
2.5°	8409.4	8380.9	8317.6	8222.7	8091.4	7911.0	7683.2	7417.4	7113.6	6778.1	6415.8
0°	8428.4	8409.4	8341.4	8243.3	8113.5	7933.1	7705.3	7437.9	7134.1	6797.1	6433.2

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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°	57.0	57.0	55.4	53.8	52.2	49.0	47.5	45.9	44.3	41.1	39.6
85°	120.2	117.1	113.9	110.8	106.0	102.8	98.1	94.9	90.2	85.4	80.7
82.5°	189.9	185.1	178.8	174.0	167.7	159.8	153.5	145.6	137.7	131.3	123.4
80°	265.8	257.9	250.0	242.1	232.6	223.1	213.6	204.1	193.0	182.0	170.9
77.5°	348.1	337.0	325.9	313.3	302.2	289.5	276.9	264.2	250.0	235.7	221.5
75°	439.9	425.6	409.8	394.0	379.7	362.3	344.9	327.5	308.5	291.1	272.1
72.5°	539.5	522.1	503.1	484.2	463.6	441.4	419.3	395.5	373.4	351.2	327.5
70°	647.1	626.6	602.8	579.1	553.8	526.9	500.0	471.5	443.0	414.5	386.1
67.5°	762.6	737.3	708.8	680.3	648.7	617.1	585.4	552.2	517.4	482.6	449.3
65°	886.0	854.4	821.2	784.8	748.4	712.0	674.0	634.5	594.9	553.8	517.4
62.5°	1023.7	984.1	941.4	897.1	856.0	811.7	770.5	721.5	674.0	628.1	582.2
60°	1183.5	1131.3	1079.1	1023.7	971.5	914.5	863.9	810.1	756.3	704.1	650.3
57.5°	1362.3	1295.8	1232.5	1166.1	1096.5	1033.2	968.3	903.4	843.3	781.6	723.1
55°	1564.8	1484.1	1405.0	1322.7	1242.0	1162.9	1080.6	1007.9	933.5	863.9	795.8
52.5°	1786.3	1694.5	1596.4	1503.1	1400.2	1302.1	1210.4	1118.6	1031.6	947.7	870.2
50°	2023.6	1916.0	1803.7	1689.8	1572.7	1457.2	1346.5	1238.9	1137.6	1039.5	947.7
47.5°	2270.5	2148.6	2020.5	1890.7	1765.7	1624.9	1492.0	1370.2	1248.4	1137.6	1031.6
45°	2523.6	2386.0	2245.1	2098.0	1950.9	1799.0	1651.8	1503.1	1370.2	1238.9	1118.6
42.5°	2784.7	2629.6	2473.0	2310.0	2147.0	1980.9	1814.8	1651.8	1492.0	1346.5	1210.4
40°	3053.6	2882.8	2704.0	2526.8	2352.7	2162.9	1980.9	1799.0	1624.9	1457.2	1302.1
37.5°	3322.6	3135.9	2942.9	2743.5	2544.2	2352.7	2147.0	1950.9	1765.7	1572.7	1400.2
35°	3593.2	3387.5	3178.6	2961.9	2743.5	2526.8	2310.0	2098.0	1890.7	1689.8	1503.1
32.5°	3865.3	3640.6	3409.6	3178.6	2942.9	2704.0	2473.0	2245.1	2020.5	1803.7	1596.4
30°	4132.7	3889.0	3640.6	3387.5	3135.9	2882.8	2629.6	2386.0	2148.6	1916.0	1694.5
27.5°	4393.8	4132.7	3865.3	3593.2	3322.6	3053.6	2784.7	2523.6	2270.5	2023.6	1786.3
25°	4645.3	4366.9	4080.5	3790.9	3503.0	3216.6	2933.4	2651.8	2386.0	2126.5	1878.1
22.5°	4882.7	4588.4	4286.2	3979.2	3670.7	3368.5	3071.0	2778.3	2495.1	2223.0	1961.9
20°	5110.5	4795.6	4488.7	4153.3	3830.5	3512.5	3200.8	2893.8	2594.8	2311.6	2037.9
17.5°	5317.8	4987.1	4651.7	4314.7	3976.1	3642.2	3316.3	3010.9	2686.6	2392.3	2110.7
15°	5504.5	5159.6	4808.3	4458.6	4105.8	3759.3	3420.7	3091.6	2770.4	2465.1	2173.9
12.5°	5667.4	5309.9	4946.0	4583.6	4221.3	3862.1	3512.5	3172.3	2843.2	2526.8	2227.7
10°	5801.9	5436.4	5061.5	4688.1	4316.2	3947.6	3586.8	3240.3	2903.3	2579.0	2272.0
7.5°	5911.1	5536.1	5154.8	4770.3	4390.6	4014.0	3647.0	3292.6	2950.8	2618.5	2306.8
5°	5988.6	5608.9	5221.3	4828.9	4444.4	4063.1	3689.7	3330.5	2984.0	2647.0	2332.2
2.5°	6037.7	5667.4	5275.1	4877.9	4488.7	4102.6	3724.5	3360.6	3010.9	2670.8	2352.7
0°	6053.5	5667.4	5275.1	4877.9	4488.7	4102.6	3724.5	3360.6	3010.9	2670.8	2352.7

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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°	38.0	34.8	31.6	30.1	26.9	25.3	22.2	19.0	17.4	14.2	11.1
85°	75.9	69.6	64.9	60.1	55.4	49.0	44.3	39.6	33.2	28.5	22.2
82.5°	115.5	107.6	99.7	91.8	83.9	75.9	66.5	58.5	50.6	42.7	33.2
80°	159.8	147.1	136.1	125.0	113.9	102.8	90.2	79.1	66.5	55.4	44.3
77.5°	205.7	191.4	175.6	159.8	144.0	129.7	113.9	99.7	85.4	69.6	55.4
75°	254.7	235.7	218.3	197.8	178.8	158.2	139.2	120.2	102.8	85.4	66.5
72.5°	305.4	281.6	257.9	235.7	212.0	188.3	166.1	142.4	120.2	99.7	79.1
70°	357.6	329.1	300.6	273.7	246.8	218.3	193.0	166.1	139.2	113.9	90.2
67.5°	413.0	379.7	346.5	311.7	281.6	250.0	218.3	188.3	158.2	129.7	102.8
65°	473.1	433.5	392.4	356.0	316.4	281.6	246.8	212.0	178.8	144.0	113.9
62.5°	534.8	488.9	443.0	397.1	356.0	311.7	273.7	235.7	197.8	159.8	125.0
60°	598.1	545.9	493.6	443.0	392.4	346.5	300.6	257.9	218.3	175.6	136.1
57.5°	662.9	604.4	545.9	488.9	433.5	379.7	329.1	281.6	235.7	191.4	147.1
55°	729.4	662.9	598.1	534.8	473.1	413.0	357.6	305.4	254.7	205.7	159.8
52.5°	795.8	723.1	650.3	582.2	517.4	449.3	386.1	327.5	272.1	221.5	170.9
50°	863.9	781.6	704.1	628.1	553.8	482.6	414.5	351.2	291.1	235.7	182.0
47.5°	933.5	843.3	756.3	674.0	594.9	517.4	443.0	373.4	308.5	250.0	193.0
45°	1007.9	903.4	810.1	721.5	634.5	552.2	471.5	395.5	327.5	264.2	204.1
42.5°	1080.6	968.3	863.9	770.5	674.0	585.4	500.0	419.3	344.9	276.9	213.6
40°	1162.9	1033.2	914.5	811.7	712.0	617.1	526.9	441.4	362.3	289.5	223.1
37.5°	1242.0	1096.5	971.5	856.0	748.4	648.7	553.8	463.6	379.7	302.2	232.6
35°	1322.7	1166.1	1023.7	897.1	784.8	680.3	579.1	484.2	394.0	313.3	242.1
32.5°	1405.0	1232.5	1079.1	941.4	821.2	708.8	602.8	503.1	409.8	325.9	250.0
30°	1484.1	1295.8	1131.3	984.1	854.4	737.3	626.6	522.1	425.6	337.0	257.9
27.5°	1564.8	1362.3	1183.5	1023.7	886.0	762.6	647.1	539.5	439.9	348.1	265.8
25°	1642.3	1425.6	1232.5	1061.7	914.5	787.9	669.3	556.9	452.5	357.6	272.1
22.5°	1713.5	1480.9	1276.8	1098.0	944.6	810.1	688.3	572.8	465.2	367.1	278.5
20°	1778.4	1537.9	1322.7	1134.4	973.1	832.2	704.1	587.0	476.2	375.0	284.8
17.5°	1841.7	1590.1	1363.9	1167.7	996.8	851.2	719.9	598.1	485.7	381.3	289.5
15°	1895.5	1636.0	1400.2	1196.1	1018.9	867.0	732.6	609.1	493.6	387.6	292.7
12.5°	1942.9	1675.5	1431.9	1219.9	1036.3	881.3	745.2	618.6	501.6	392.4	297.5
10°	1980.9	1707.2	1457.2	1240.4	1052.2	892.4	753.1	626.6	506.3	397.1	300.6
7.5°	2011.0	1732.5	1477.8	1254.7	1063.2	901.9	761.0	631.3	511.1	400.3	305.4
5°	2033.1	1751.5	1492.0	1265.8	1072.7	912.9	770.5	639.2	517.4	405.0	305.4
2.5°	2050.5	1765.7	1503.1	1275.3	1079.1	912.9	770.5	639.2	517.4	405.0	305.4
0°	2050.5	1765.7	1503.1	1275.3	1079.1	912.9	770.5	639.2	517.4	405.0	305.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	6.3	3.2	0.0
85°	17.4	11.1	6.3	0.0
82.5°	25.3	17.4	7.9	0.0
80°	33.2	22.2	11.1	0.0
77.5°	42.7	28.5	14.2	0.0
75°	50.6	33.2	17.4	0.0
72.5°	58.5	39.6	19.0	0.0
70°	66.5	44.3	22.2	0.0
67.5°	75.9	49.0	25.3	0.0
65°	83.9	55.4	26.9	0.0
62.5°	91.8	60.1	30.1	0.0
60°	99.7	64.9	31.6	0.0
57.5°	107.6	69.6	34.8	0.0
55°	115.5	75.9	38.0	0.0
52.5°	123.4	80.7	39.6	0.0
50°	131.3	85.4	41.1	0.0
47.5°	137.7	90.2	44.3	0.0
45°	145.6	94.9	45.9	0.0
42.5°	153.5	98.1	47.5	0.0
40°	159.8	102.8	49.0	0.0
37.5°	167.7	106.0	52.2	0.0
35°	174.0	110.8	53.8	0.0
32.5°	178.8	113.9	55.4	0.0
30°	185.1	117.1	57.0	0.0
27.5°	189.9	120.2	57.0	0.0
25°	194.6	123.4	58.5	0.0
22.5°	199.4	125.0	60.1	0.0
20°	204.1	128.2	61.7	0.0
17.5°	207.3	129.7	61.7	0.0
15°	210.4	131.3	64.9	0.0
12.5°	212.0	132.9	64.9	0.0
10°	215.2	136.1	64.9	0.0
7.5°	218.3	136.1	64.9	0.0
5°	218.3	136.1	64.9	0.0
2.5°	218.3	136.1	64.9	0.0
0°	218.3	136.1	64.9	0.0

(END OF REPORT)