

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: P624516

Luminaire Tested: **IFLD-L-SA7B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23407.1 lumens	Max Intensity:	13000.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	10128 lumens	Field Lumens:	16584.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

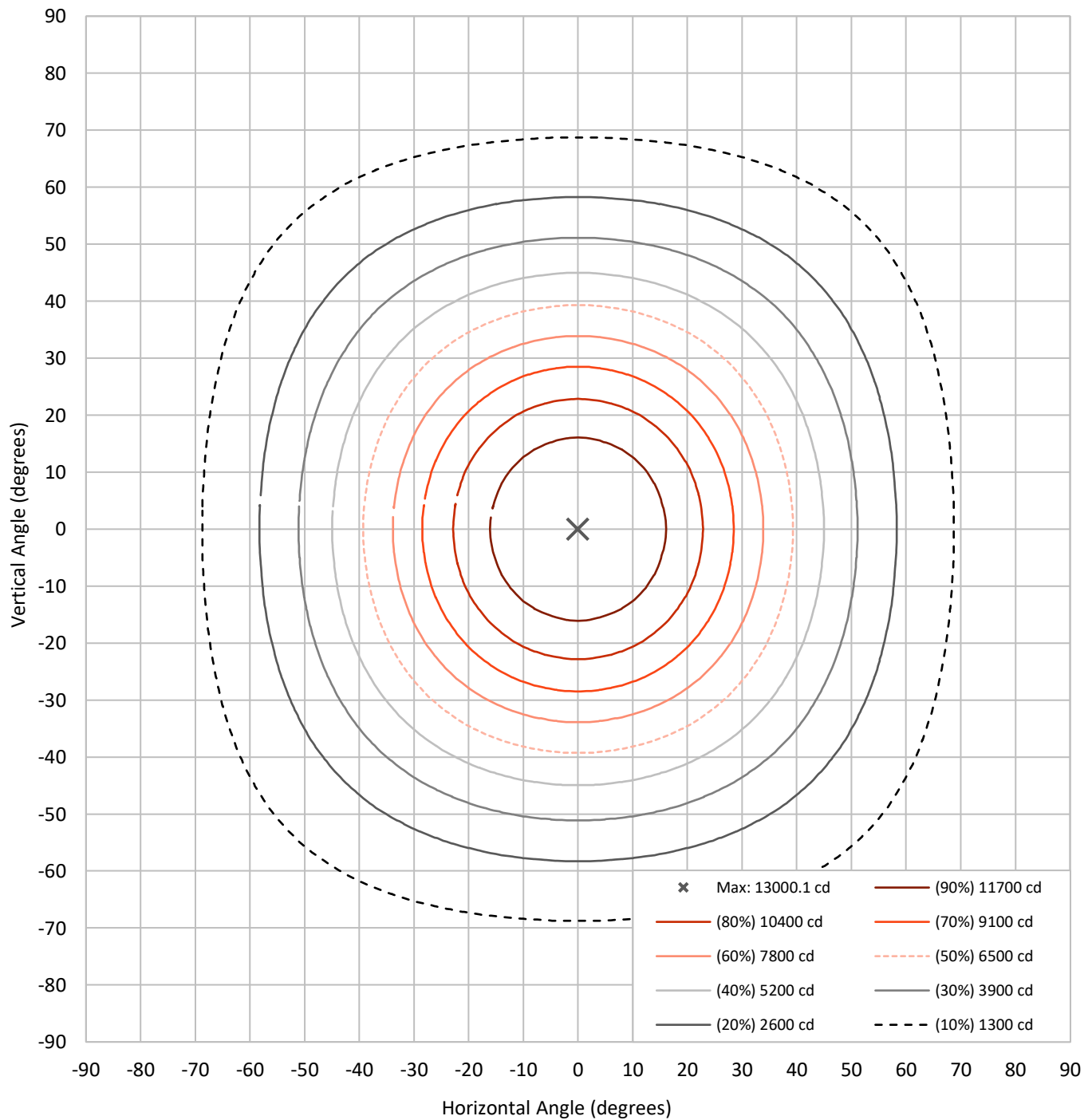
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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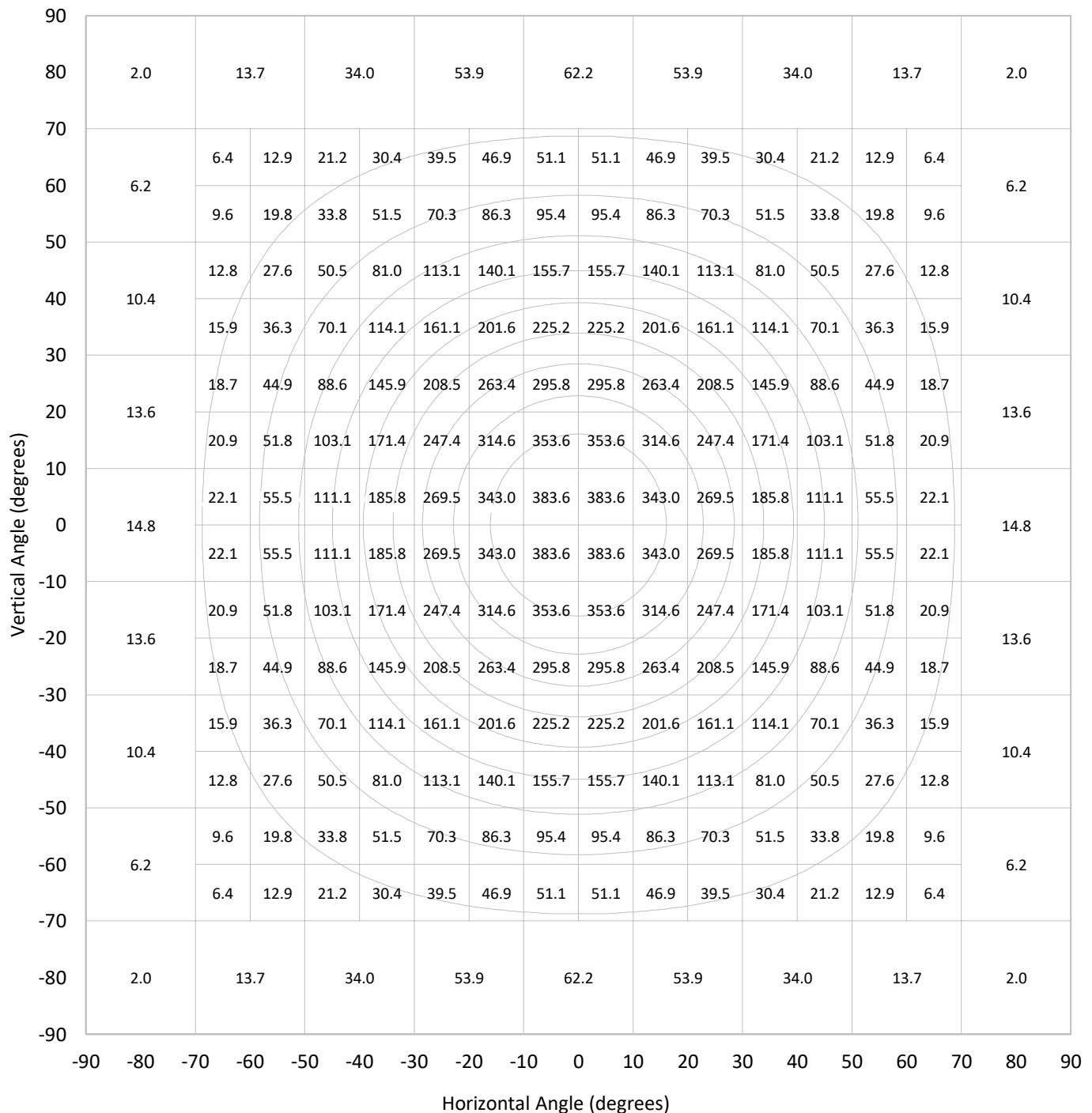
Iso-Candela Plot



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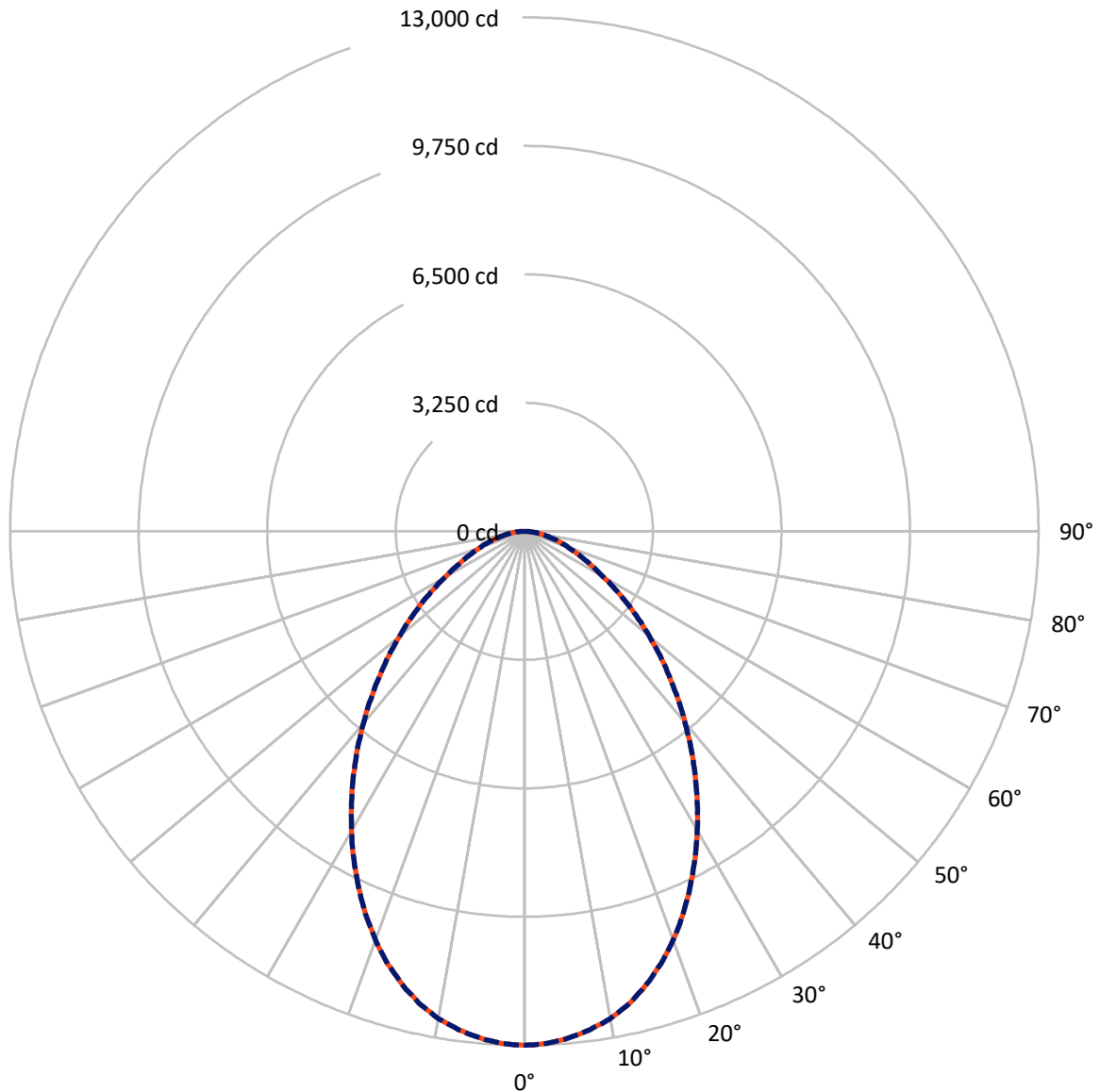
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Lumen Table



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Luminous Intensity Polar Plot

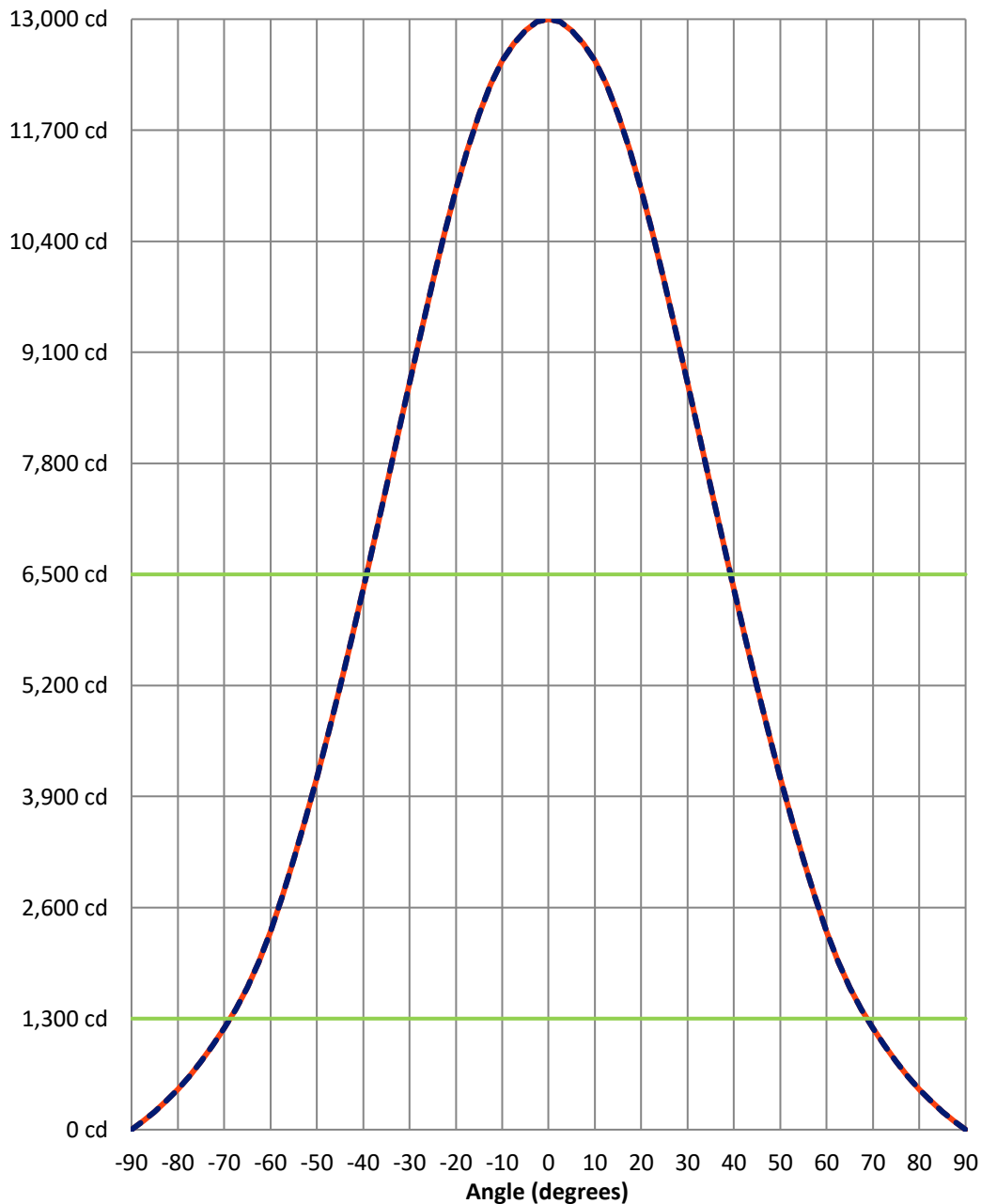


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10128
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16584.2
Efficiency: 70.9%

Spill:

Lumens: 6822.8
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°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	95.2	95.2	92.7	90.3
85°	209.9	209.9	209.9	209.9	209.9	205.0	202.6	200.1	197.7	192.8	190.4
82.5°	336.8	336.8	336.8	336.8	331.9	327.0	324.6	319.7	314.8	307.5	300.2
80°	471.0	471.0	471.0	471.0	463.7	458.8	451.5	446.6	439.3	429.5	419.8
77.5°	624.7	624.7	624.7	617.4	612.5	605.2	597.9	588.1	578.4	566.2	551.5
75°	798.0	798.0	798.0	788.3	780.9	773.6	761.4	749.2	734.6	717.5	698.0
72.5°	985.9	985.9	985.9	973.7	966.4	954.2	939.6	922.5	905.4	883.4	859.0
70°	1188.5	1188.5	1188.5	1173.8	1161.6	1149.4	1129.9	1110.4	1086.0	1061.6	1032.3
67.5°	1408.1	1408.1	1408.1	1391.0	1376.4	1359.3	1337.4	1312.9	1283.7	1249.5	1215.3
65°	1664.4	1664.4	1654.6	1640.0	1622.9	1598.5	1571.6	1537.5	1500.9	1456.9	1410.6
62.5°	1967.0	1967.0	1952.3	1935.3	1913.3	1881.6	1845.0	1801.0	1749.8	1693.7	1637.5
60°	2318.4	2318.4	2301.3	2279.4	2247.6	2208.6	2159.8	2103.6	2040.2	1969.4	1901.1
57.5°	2723.5	2723.5	2701.5	2672.3	2633.2	2584.4	2523.4	2452.6	2372.1	2284.2	2198.8
55°	3162.8	3162.8	3135.9	3101.8	3055.4	2996.8	2923.6	2840.7	2743.0	2643.0	2533.2
52.5°	3628.9	3628.9	3597.2	3558.1	3504.4	3436.1	3353.1	3255.5	3143.3	3026.1	2896.8
50°	4119.4	4119.4	4082.8	4038.9	3977.9	3897.4	3802.2	3689.9	3565.5	3428.8	3279.9
47.5°	4644.1	4644.1	4602.6	4551.4	4478.2	4385.4	4273.2	4143.8	4002.3	3848.5	3680.2
45°	5183.5	5183.5	5137.1	5078.5	4998.0	4893.1	4768.6	4644.1	4463.5	4285.4	4090.2
42.5°	5744.8	5744.8	5691.1	5625.2	5532.4	5417.7	5276.2	5115.1	4937.0	4736.9	4524.5
40°	6328.0	6328.0	6267.0	6191.4	6088.9	5957.1	5798.4	5617.9	5417.7	5195.7	4961.4
37.5°	6923.5	6923.5	6855.2	6772.2	6657.5	6511.1	6332.9	6132.8	5908.3	5661.8	5403.1
35°	7523.8	7523.8	7448.2	7357.9	7231.0	7069.9	6877.1	6655.0	6406.1	6137.7	5847.3
32.5°	8136.4	8136.4	8053.4	7950.9	7806.9	7628.8	7416.4	7174.8	6923.5	6611.1	6293.9
30°	8741.6	8741.6	8651.3	8539.0	8385.3	8190.1	7958.2	7692.2	7396.9	7077.2	6735.6
27.5°	9337.1	9312.7	9237.0	9117.4	8949.0	8741.6	8490.2	8202.3	7882.6	7531.1	7165.1
25°	9922.8	9895.9	9812.9	9681.2	9500.6	9273.6	9002.7	8695.2	8351.1	7980.2	7580.0
22.5°	10484.1	10454.8	10366.9	10225.4	10032.6	9786.1	9495.7	9166.2	8800.2	8402.4	7980.2
20°	11003.9	10972.1	10881.9	10733.0	10532.9	10271.7	9964.3	9610.4	9219.9	8800.2	8351.1
17.5°	11472.4	11440.7	11345.5	11191.8	11003.9	10713.5	10396.2	10022.8	9610.4	9166.2	8695.2
15°	11884.9	11850.7	11753.1	11599.3	11384.6	11111.3	10776.9	10396.2	9964.3	9495.7	9002.7
12.5°	12236.3	12202.1	12102.1	11948.3	11726.2	11452.9	11111.3	10713.5	10271.7	9786.1	9273.6
10°	12514.5	12480.3	12385.2	12238.7	12009.3	11726.2	11384.6	11003.9	10532.9	10032.6	9500.6
7.5°	12714.6	12682.9	12595.0	12448.6	12238.7	11948.3	11599.3	11191.8	10733.0	10225.4	9681.2
5°	12865.9	12829.3	12741.5	12595.0	12385.2	12102.1	11753.1	11345.5	10881.9	10366.9	9812.9
2.5°	12970.9	12926.9	12829.3	12682.9	12480.3	12202.1	11850.7	11440.7	10972.1	10454.8	9895.9
0°	13000.1	12970.9	12865.9	12714.6	12514.5	12236.3	11884.9	11472.4	11003.9	10484.1	9922.8

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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°	87.9	87.9	85.4	83.0	80.5	75.7	73.2	70.8	68.3	63.5	61.0
85°	185.5	180.6	175.7	170.8	163.5	158.6	151.3	146.4	139.1	131.8	124.5
82.5°	292.9	285.5	275.8	268.4	258.7	246.5	236.7	224.5	212.3	202.6	190.4
80°	410.0	397.8	385.6	373.4	358.7	344.1	329.5	314.8	297.7	280.6	263.6
77.5°	536.9	519.8	502.7	483.2	466.1	446.6	427.1	407.6	385.6	363.6	341.7
75°	678.4	656.5	632.1	607.7	585.7	558.9	532.0	505.2	475.9	449.0	419.8
72.5°	832.2	805.3	776.1	746.8	715.0	680.9	646.7	610.1	575.9	541.8	505.2
70°	998.1	966.4	929.8	893.2	854.1	812.7	771.2	727.2	683.3	639.4	595.5
67.5°	1176.3	1137.2	1093.3	1049.4	1000.6	951.8	903.0	851.7	798.0	744.3	693.1
65°	1366.6	1317.8	1266.6	1210.5	1154.3	1098.2	1039.6	978.6	917.6	854.1	798.0
62.5°	1579.0	1517.9	1452.1	1383.7	1320.3	1251.9	1188.5	1112.8	1039.6	968.8	898.1
60°	1825.4	1744.9	1664.4	1579.0	1498.4	1410.6	1332.5	1249.5	1166.5	1086.0	1003.0
57.5°	2101.2	1998.7	1901.1	1798.6	1691.2	1593.6	1493.5	1393.5	1300.7	1205.6	1115.3
55°	2413.6	2289.1	2167.1	2040.2	1915.7	1793.7	1666.8	1554.6	1439.9	1332.5	1227.5
52.5°	2755.2	2613.7	2462.4	2318.4	2159.8	2008.5	1866.9	1725.4	1591.2	1461.8	1342.2
50°	3121.3	2955.4	2782.1	2606.4	2425.8	2247.6	2076.8	1910.9	1754.7	1603.4	1461.8
47.5°	3502.0	3314.1	3116.4	2916.3	2723.5	2506.3	2301.3	2113.4	1925.5	1754.7	1591.2
45°	3892.5	3680.2	3463.0	3236.0	3009.0	2774.8	2547.8	2318.4	2113.4	1910.9	1725.4
42.5°	4295.1	4056.0	3814.4	3563.0	3311.7	3055.4	2799.2	2547.8	2301.3	2076.8	1866.9
40°	4710.0	4446.5	4170.7	3897.4	3628.9	3336.1	3055.4	2774.8	2506.3	2247.6	2008.5
37.5°	5124.9	4836.9	4539.2	4231.7	3924.2	3628.9	3311.7	3009.0	2723.5	2425.8	2159.8
35°	5542.2	5224.9	4902.8	4568.5	4231.7	3897.4	3563.0	3236.0	2916.3	2606.4	2318.4
32.5°	5962.0	5615.4	5259.1	4902.8	4539.2	4170.7	3814.4	3463.0	3116.4	2782.1	2462.4
30°	6374.4	5998.6	5615.4	5224.9	4836.9	4446.5	4056.0	3680.2	3314.1	2955.4	2613.7
27.5°	6777.1	6374.4	5962.0	5542.2	5124.9	4710.0	4295.1	3892.5	3502.0	3121.3	2755.2
25°	7165.1	6735.6	6293.9	5847.3	5403.1	4961.4	4524.5	4090.2	3680.2	3279.9	2896.8
22.5°	7531.1	7077.2	6611.1	6137.7	5661.8	5195.7	4736.9	4285.4	3848.5	3428.8	3026.1
20°	7882.6	7396.9	6923.5	6406.1	5908.3	5417.7	4937.0	4463.5	4002.3	3565.5	3143.3
17.5°	8202.3	7692.2	7174.8	6655.0	6132.8	5617.9	5115.1	4644.1	4143.8	3689.9	3255.5
15°	8490.2	7958.2	7416.4	6877.1	6332.9	5798.4	5276.2	4768.6	4273.2	3802.2	3353.1
12.5°	8741.6	8190.1	7628.8	7069.9	6511.1	5957.1	5417.7	4893.1	4385.4	3897.4	3436.1
10°	8949.0	8385.3	7806.9	7231.0	6657.5	6088.9	5532.4	4998.0	4478.2	3977.9	3504.4
7.5°	9117.4	8539.0	7950.9	7357.9	6772.2	6191.4	5625.2	5078.5	4551.4	4038.9	3558.1
5°	9237.0	8651.3	8053.4	7448.2	6855.2	6267.0	5691.1	5137.1	4602.6	4082.8	3597.2
2.5°	9312.7	8741.6	8136.4	7523.8	6923.5	6328.0	5744.8	5183.5	4644.1	4119.4	3628.9
0°	9337.1	8741.6	8136.4	7523.8	6923.5	6328.0	5744.8	5183.5	4644.1	4119.4	3628.9

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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°	58.6	53.7	48.8	46.4	41.5	39.0	34.2	29.3	26.8	22.0	17.1
85°	117.1	107.4	100.1	92.7	85.4	75.7	68.3	61.0	51.2	43.9	34.2
82.5°	178.2	165.9	153.7	141.5	129.3	117.1	102.5	90.3	78.1	65.9	51.2
80°	246.5	227.0	209.9	192.8	175.7	158.6	139.1	122.0	102.5	85.4	68.3
77.5°	317.3	295.3	270.9	246.5	222.1	200.1	175.7	153.7	131.8	107.4	85.4
75°	392.9	363.6	336.8	305.1	275.8	244.0	214.8	185.5	158.6	131.8	102.5
72.5°	471.0	434.4	397.8	363.6	327.0	290.4	256.2	219.6	185.5	153.7	122.0
70°	551.5	507.6	463.7	422.2	380.7	336.8	297.7	256.2	214.8	175.7	139.1
67.5°	637.0	585.7	534.5	480.8	434.4	385.6	336.8	290.4	244.0	200.1	158.6
65°	729.7	668.7	605.2	549.1	488.1	434.4	380.7	327.0	275.8	222.1	175.7
62.5°	824.9	754.1	683.3	612.5	549.1	480.8	422.2	363.6	305.1	246.5	192.8
60°	922.5	841.9	761.4	683.3	605.2	534.5	463.7	397.8	336.8	270.9	209.9
57.5°	1022.5	932.2	841.9	754.1	668.7	585.7	507.6	434.4	363.6	295.3	227.0
55°	1125.0	1022.5	922.5	824.9	729.7	637.0	551.5	471.0	392.9	317.3	246.5
52.5°	1227.5	1115.3	1003.0	898.1	798.0	693.1	595.5	505.2	419.8	341.7	263.6
50°	1332.5	1205.6	1086.0	968.8	854.1	744.3	639.4	541.8	449.0	363.6	280.6
47.5°	1439.9	1300.7	1166.5	1039.6	917.6	798.0	683.3	575.9	475.9	385.6	297.7
45°	1554.6	1393.5	1249.5	1112.8	978.6	851.7	727.2	610.1	505.2	407.6	314.8
42.5°	1666.8	1493.5	1332.5	1188.5	1039.6	903.0	771.2	646.7	532.0	427.1	329.5
40°	1793.7	1593.6	1410.6	1251.9	1098.2	951.8	812.7	680.9	558.9	446.6	344.1
37.5°	1915.7	1691.2	1498.4	1320.3	1154.3	1000.6	854.1	715.0	585.7	466.1	358.7
35°	2040.2	1798.6	1579.0	1383.7	1210.5	1049.4	893.2	746.8	607.7	483.2	373.4
32.5°	2167.1	1901.1	1664.4	1452.1	1266.6	1093.3	929.8	776.1	632.1	502.7	385.6
30°	2289.1	1998.7	1744.9	1517.9	1317.8	1137.2	966.4	805.3	656.5	519.8	397.8
27.5°	2413.6	2101.2	1825.4	1579.0	1366.6	1176.3	998.1	832.2	678.4	536.9	410.0
25°	2533.2	2198.8	1901.1	1637.5	1410.6	1215.3	1032.3	859.0	698.0	551.5	419.8
22.5°	2643.0	2284.2	1969.4	1693.7	1456.9	1249.5	1061.6	883.4	717.5	566.2	429.5
20°	2743.0	2372.1	2040.2	1749.8	1500.9	1283.7	1086.0	905.4	734.6	578.4	439.3
17.5°	2840.7	2452.6	2103.6	1801.0	1537.5	1312.9	1110.4	922.5	749.2	588.1	446.6
15°	2923.6	2523.4	2159.8	1845.0	1571.6	1337.4	1129.9	939.6	761.4	597.9	451.5
12.5°	2996.8	2584.4	2208.6	1881.6	1598.5	1359.3	1149.4	954.2	773.6	605.2	458.8
10°	3055.4	2633.2	2247.6	1913.3	1622.9	1376.4	1161.6	966.4	780.9	612.5	463.7
7.5°	3101.8	2672.3	2279.4	1935.3	1640.0	1391.0	1173.8	973.7	788.3	617.4	471.0
5°	3135.9	2701.5	2301.3	1952.3	1654.6	1408.1	1188.5	985.9	798.0	624.7	471.0
2.5°	3162.8	2723.5	2318.4	1967.0	1664.4	1408.1	1188.5	985.9	798.0	624.7	471.0
0°	3162.8	2723.5	2318.4	1967.0	1664.4	1408.1	1188.5	985.9	798.0	624.7	471.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.2	9.8	4.9	0.0
85°	26.8	17.1	9.8	0.0
82.5°	39.0	26.8	12.2	0.0
80°	51.2	34.2	17.1	0.0
77.5°	65.9	43.9	22.0	0.0
75°	78.1	51.2	26.8	0.0
72.5°	90.3	61.0	29.3	0.0
70°	102.5	68.3	34.2	0.0
67.5°	117.1	75.7	39.0	0.0
65°	129.3	85.4	41.5	0.0
62.5°	141.5	92.7	46.4	0.0
60°	153.7	100.1	48.8	0.0
57.5°	165.9	107.4	53.7	0.0
55°	178.2	117.1	58.6	0.0
52.5°	190.4	124.5	61.0	0.0
50°	202.6	131.8	63.5	0.0
47.5°	212.3	139.1	68.3	0.0
45°	224.5	146.4	70.8	0.0
42.5°	236.7	151.3	73.2	0.0
40°	246.5	158.6	75.7	0.0
37.5°	258.7	163.5	80.5	0.0
35°	268.4	170.8	83.0	0.0
32.5°	275.8	175.7	85.4	0.0
30°	285.5	180.6	87.9	0.0
27.5°	292.9	185.5	87.9	0.0
25°	300.2	190.4	90.3	0.0
22.5°	307.5	192.8	92.7	0.0
20°	314.8	197.7	95.2	0.0
17.5°	319.7	200.1	95.2	0.0
15°	324.6	202.6	100.1	0.0
12.5°	327.0	205.0	100.1	0.0
10°	331.9	209.9	100.1	0.0
7.5°	336.8	209.9	100.1	0.0
5°	336.8	209.9	100.1	0.0
2.5°	336.8	209.9	100.1	0.0
0°	336.8	209.9	100.1	0.0

(END OF REPORT)