

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: P628234

Luminaire Tested: **IFLD-L-SA8B-730-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628234  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

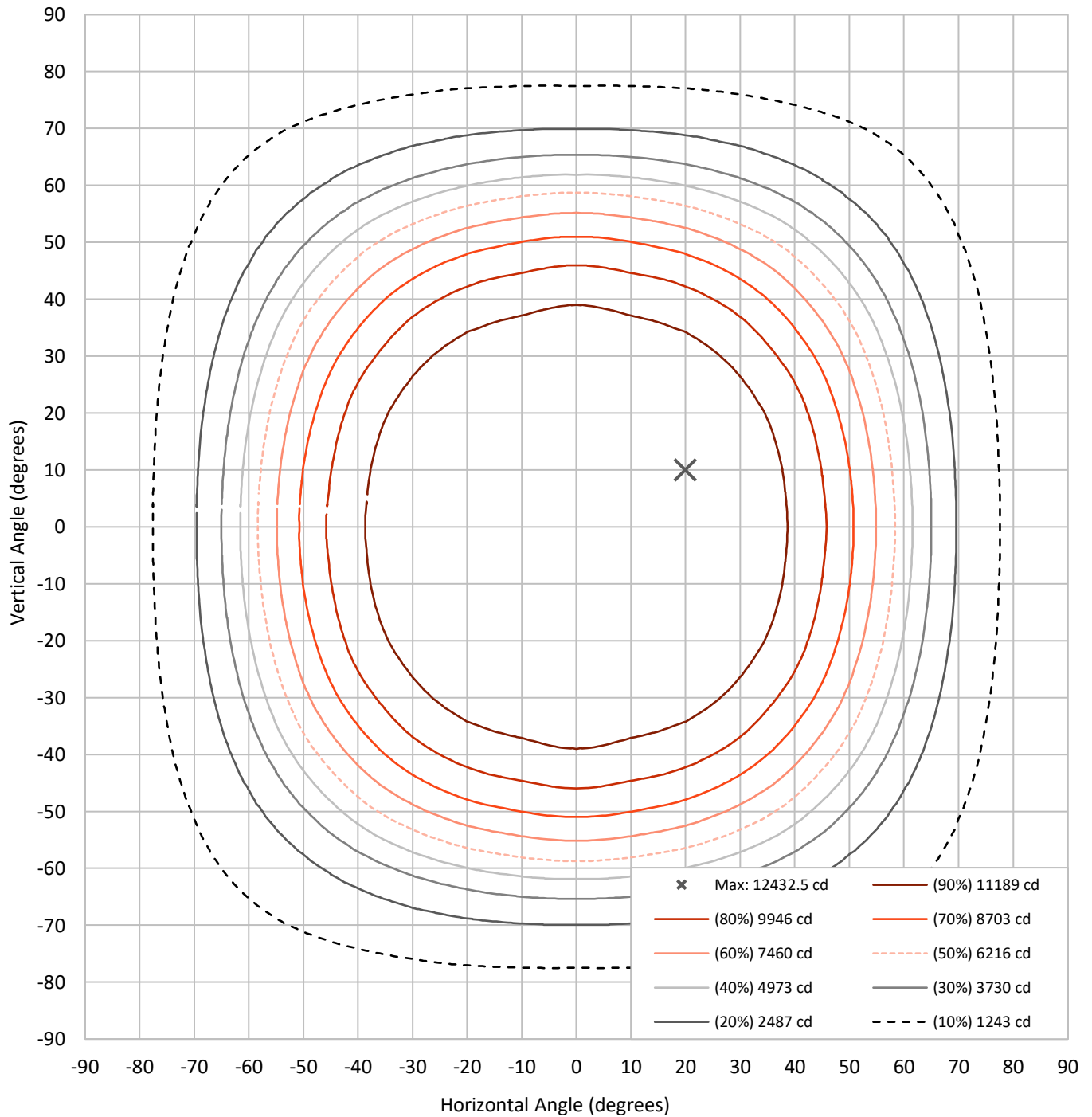
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38141.3 lumens	Max Intensity:	12432.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	119.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23404.3 lumens	Field Lumens:	28057.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320  
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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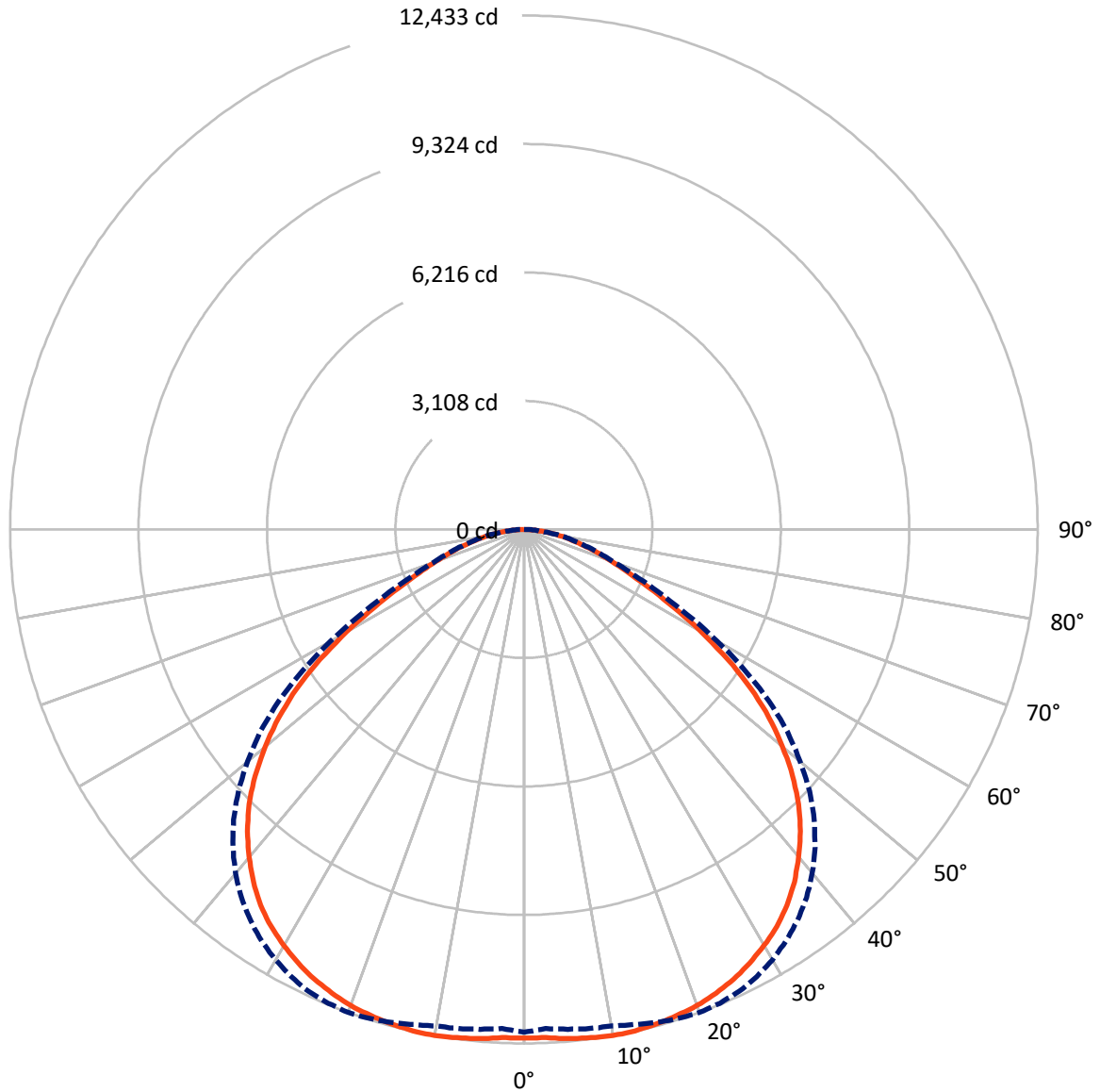
### Iso-Candela Plot





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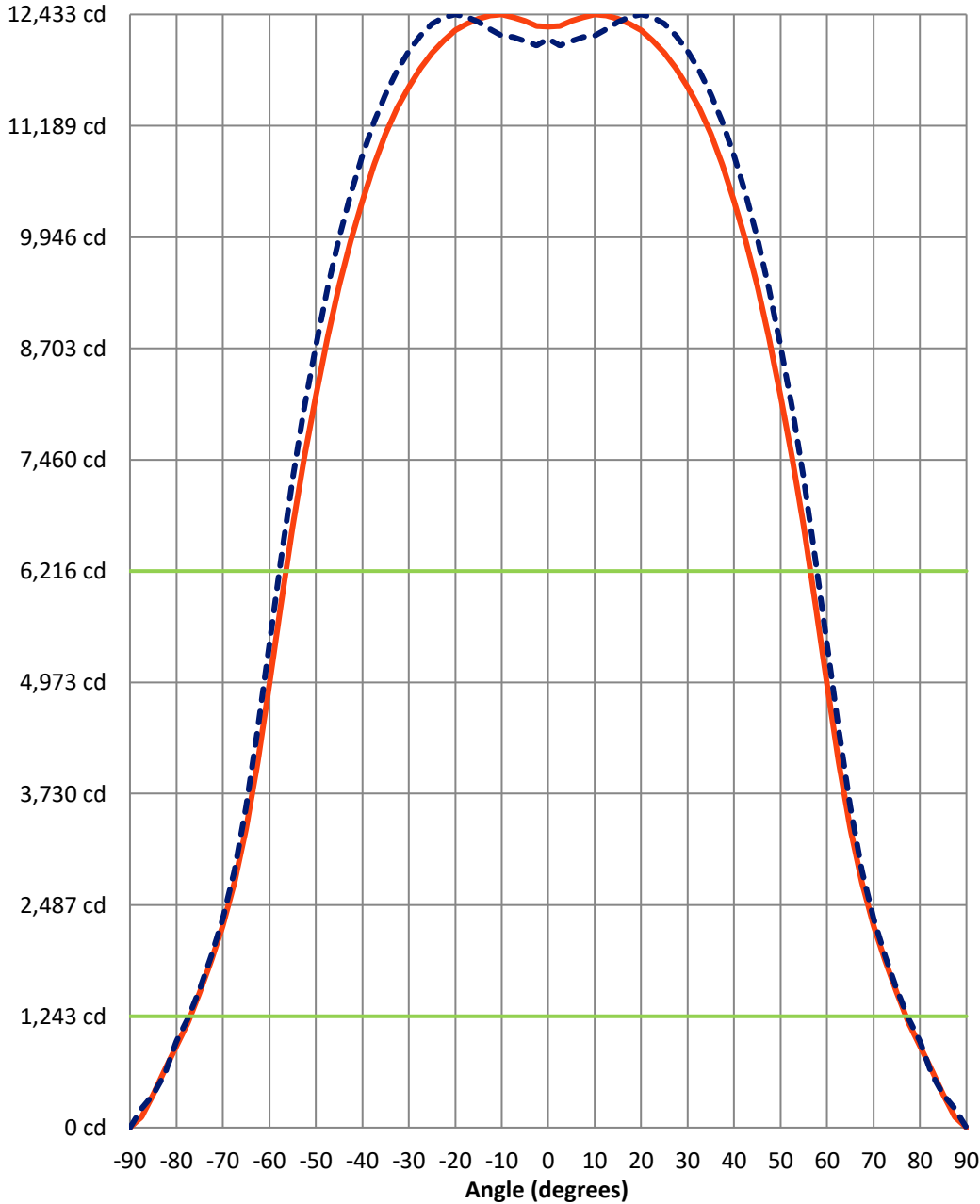
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg      - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 23404.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 28057.8  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 10083.5  
 Efficiency: 26.4%

- Vertical Distribution through 20-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°	100.3	108.4	112.4	116.4	120.4	124.4	128.4	124.4	120.4	120.4	116.4
85°	268.9	276.9	280.9	309.0	337.1	353.2	373.2	369.2	369.2	365.2	361.2
82.5°	537.8	561.8	581.9	610.0	626.0	650.1	666.2	654.1	646.1	630.1	618.0
80°	955.1	963.1	967.2	971.2	951.1	947.1	939.1	927.0	911.0	890.9	870.8
77.5°	1216.0	1224.0	1232.0	1224.0	1220.0	1216.0	1203.9	1191.9	1175.8	1159.8	1135.7
75°	1609.2	1609.2	1609.2	1597.2	1589.2	1577.1	1557.1	1537.0	1508.9	1476.8	1440.7
72.5°	2026.6	2022.6	2018.6	1994.5	1974.4	1950.4	1922.3	1898.2	1866.1	1830.0	1781.8
70°	2464.0	2472.1	2476.1	2444.0	2419.9	2387.8	2351.7	2307.5	2259.4	2207.2	2139.0
67.5°	3066.0	3058.0	3049.9	3005.8	2973.7	2929.6	2877.4	2813.2	2740.9	2660.7	2564.4
65°	3812.4	3824.5	3800.4	3756.2	3696.0	3623.8	3543.6	3451.3	3342.9	3222.5	3086.1
62.5°	4715.4	4735.4	4707.3	4651.2	4574.9	4478.6	4366.2	4233.8	4085.3	3916.8	3748.2
60°	5742.7	5738.7	5686.5	5610.3	5510.0	5389.6	5265.2	5120.7	4952.1	4755.5	4550.8
57.5°	6685.8	6677.8	6613.6	6537.3	6437.0	6308.6	6176.1	6023.6	5847.1	5638.4	5401.6
55°	7532.6	7524.5	7460.3	7380.1	7275.7	7147.3	7026.9	6882.4	6709.9	6489.2	6236.3
52.5°	8283.0	8287.0	8230.8	8142.5	8030.2	7905.8	7789.4	7644.9	7480.4	7259.7	7014.9
50°	8973.3	8969.2	8909.0	8828.8	8724.4	8604.0	8487.7	8343.2	8170.6	7957.9	7721.2
47.5°	9615.3	9607.3	9539.1	9450.8	9342.5	9238.1	9129.8	9001.3	8820.8	8608.1	8371.3
45°	10153.1	10137.0	10068.8	9984.5	9880.2	9787.9	9691.6	9595.3	9402.7	9206.0	8981.3
42.5°	10614.6	10610.6	10542.4	10458.1	10353.8	10273.5	10185.2	10064.8	9904.3	9723.7	9503.0
40°	11056.0	11023.9	10955.7	10875.5	10779.1	10710.9	10622.6	10502.2	10345.7	10169.2	9956.5
37.5°	11385.1	11389.1	11316.9	11228.6	11144.3	11080.1	10999.9	10887.5	10751.0	10578.5	10365.8
35°	11698.1	11678.1	11617.9	11541.6	11465.4	11393.1	11308.9	11212.6	11100.2	10939.7	10739.0
32.5°	11902.8	11930.9	11858.7	11778.4	11734.3	11678.1	11589.8	11489.5	11389.1	11228.6	11048.0
30°	12127.5	12103.5	12047.3	11979.1	11946.9	11910.8	11834.6	11738.3	11621.9	11477.4	11308.9
27.5°	12284.0	12272.0	12203.8	12139.6	12123.5	12091.4	12031.2	11946.9	11830.6	11690.1	11533.6
25°	12352.3	12360.3	12296.1	12260.0	12260.0	12239.9	12191.7	12119.5	12003.1	11874.7	11722.2
22.5°	12384.4	12376.3	12332.2	12324.2	12344.2	12328.2	12308.1	12243.9	12139.6	12035.2	11906.8
20°	12404.4	12348.3	12308.1	12340.2	12364.3	12360.3	12344.2	12304.1	12256.0	12167.7	12055.3
17.5°	12360.3	12324.2	12276.0	12324.2	12376.3	12380.4	12364.3	12340.2	12328.2	12272.0	12171.7
15°	12251.9	12223.8	12231.9	12280.0	12340.2	12360.3	12372.3	12400.4	12384.4	12340.2	12251.9
12.5°	12179.7	12143.6	12179.7	12227.9	12260.0	12272.0	12368.3	12420.5	12420.5	12380.4	12324.2
10°	12159.6	12087.4	12135.6	12179.7	12195.8	12268.0	12348.3	12404.4	12432.5	12400.4	12328.2
7.5°	12119.5	12071.4	12091.4	12111.5	12203.8	12256.0	12300.1	12360.3	12400.4	12396.4	12332.2
5°	12099.4	12039.2	12047.3	12131.5	12195.8	12231.9	12247.9	12300.1	12360.3	12372.3	12324.2
2.5°	12047.3	12019.2	12079.4	12087.4	12135.6	12163.7	12179.7	12227.9	12304.1	12332.2	12312.1
0°	12019.2	11979.1	11938.9	11971.0	12051.3	12111.5	12135.6	12207.8	12296.1	12324.2	12280.0



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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°	112.4	108.4	104.3	100.3	104.3	104.3	104.3	100.3	104.3	100.3	100.3
85°	349.1	333.1	321.0	305.0	288.9	276.9	260.9	244.8	240.8	236.8	228.7
82.5°	602.0	581.9	561.8	537.8	513.7	485.6	457.5	425.4	417.4	409.3	397.3
80°	846.8	818.7	790.6	762.5	738.4	710.3	678.2	642.1	618.0	597.9	573.9
77.5°	1103.6	1063.5	1023.3	975.2	947.1	919.0	886.9	850.8	814.7	782.6	746.4
75°	1396.6	1352.4	1312.3	1264.1	1212.0	1159.8	1107.6	1059.5	1007.3	959.1	911.0
72.5°	1721.6	1657.4	1593.2	1533.0	1468.8	1404.6	1336.4	1272.1	1207.9	1143.7	1075.5
70°	2062.7	1982.5	1902.2	1821.9	1737.7	1653.4	1573.1	1492.9	1412.6	1328.3	1252.1
67.5°	2464.0	2371.7	2267.4	2155.0	2030.6	1922.3	1817.9	1721.6	1625.3	1529.0	1432.7
65°	2965.7	2837.2	2696.8	2544.3	2399.8	2255.4	2102.9	1958.4	1846.0	1733.7	1625.3
62.5°	3583.7	3403.1	3206.5	3009.8	2833.2	2644.6	2468.0	2279.4	2102.9	1942.3	1809.9
60°	4322.1	4077.3	3836.5	3583.7	3338.9	3082.0	2857.3	2624.6	2403.8	2207.2	2014.6
57.5°	5136.7	4851.8	4562.9	4253.9	3920.8	3619.8	3314.8	3009.8	2749.0	2488.1	2271.4
55°	5963.4	5662.5	5337.4	4988.3	4623.1	4237.8	3824.5	3483.4	3126.2	2821.2	2540.3
52.5°	6750.0	6437.0	6099.9	5778.8	5341.4	4900.0	4446.5	3997.0	3579.7	3190.4	2849.3
50°	7452.3	7147.3	6822.2	6449.0	6043.7	5574.2	5068.5	4562.9	4069.3	3611.8	3186.4
47.5°	8094.4	7797.4	7472.4	7099.1	6729.9	6208.2	5698.6	5140.8	4591.0	4065.3	3567.6
45°	8696.3	8395.4	8058.3	7701.1	7275.7	6810.2	6284.5	5722.7	5132.7	4542.8	3968.9
42.5°	9242.1	8941.1	8600.0	8230.8	7809.5	7348.0	6838.3	6272.4	5678.5	5036.4	4406.4
40°	9719.7	9426.7	9097.7	8712.4	8319.1	7833.5	7331.9	6794.1	6180.1	5534.0	4839.8
37.5°	10137.0	9864.2	9539.1	9157.9	8740.5	8307.1	7789.4	7251.6	6697.8	5995.5	5285.2
35°	10506.3	10253.4	9920.3	9559.2	9149.8	8692.3	8206.8	7681.0	7083.1	6424.9	5734.7
32.5°	10827.3	10570.5	10265.5	9904.3	9507.0	9077.6	8580.0	8050.2	7484.4	6814.2	6063.8
30°	11100.2	10851.4	10562.4	10221.3	9840.1	9414.7	8929.1	8395.4	7817.5	7151.3	6408.9
27.5°	11337.0	11100.2	10819.3	10502.2	10137.0	9727.7	9238.1	8700.4	8110.4	7468.3	6725.9
25°	11541.6	11312.9	11052.0	10751.0	10389.9	9988.6	9527.1	8965.2	8375.3	7729.2	6994.8
22.5°	11726.2	11505.5	11244.7	10951.7	10622.6	10221.3	9755.8	9198.0	8600.0	7962.0	7239.6
20°	11890.8	11686.1	11429.3	11128.3	10799.2	10393.9	9932.4	9402.7	8800.7	8174.6	7460.3
17.5°	12023.2	11842.6	11585.8	11268.7	10939.7	10546.4	10096.9	9611.3	8973.3	8355.2	7644.9
15°	12115.5	11938.9	11706.2	11385.1	11064.1	10674.8	10225.3	9723.7	9129.8	8499.7	7797.4
12.5°	12179.7	11991.1	11774.4	11477.4	11156.4	10771.1	10333.7	9840.1	9262.2	8628.1	7929.9
10°	12195.8	12023.2	11806.5	11541.6	11228.6	10855.4	10426.0	9936.4	9370.5	8728.5	8038.2
7.5°	12203.8	12039.2	11842.6	11589.8	11280.8	10919.6	10494.2	10012.6	9450.8	8812.7	8118.5
5°	12199.8	12043.3	11866.7	11621.9	11312.9	10955.7	10538.4	10064.8	9507.0	8868.9	8178.7
2.5°	12187.7	12047.3	11882.7	11646.0	11349.0	10995.8	10582.5	10125.0	9567.2	8917.1	8226.8
0°	12219.8	12099.4	11890.8	11637.9	11357.0	10995.8	10578.5	10133.0	9575.2	8913.1	8222.8





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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°	100.3	96.3	96.3	92.3	88.3	84.3	76.2	72.2	64.2	52.2	40.1
85°	216.7	204.7	192.6	184.6	176.6	168.5	156.5	144.5	128.4	104.3	80.3
82.5°	381.2	357.2	333.1	305.0	280.9	256.8	236.8	216.7	192.6	156.5	120.4
80°	545.8	509.7	473.5	433.4	397.3	357.2	321.0	288.9	256.8	208.7	160.5
77.5°	710.3	662.2	610.0	561.8	509.7	457.5	405.3	361.2	313.0	256.8	200.7
75°	862.8	806.6	758.5	690.3	626.0	557.8	489.6	429.4	369.2	301.0	240.8
72.5°	1015.3	943.1	874.9	810.6	738.4	654.1	577.9	501.6	425.4	345.1	272.9
70°	1167.8	1079.5	995.2	919.0	838.7	754.5	662.2	573.9	481.6	385.3	301.0
67.5°	1324.3	1224.0	1127.7	1031.4	939.1	842.7	746.4	646.1	537.8	425.4	333.1
65°	1496.9	1372.5	1256.1	1147.7	1039.4	935.0	826.7	718.3	597.9	469.5	361.2
62.5°	1669.4	1533.0	1396.6	1260.1	1139.7	1023.3	907.0	786.6	654.1	517.7	389.3
60°	1854.0	1697.5	1541.0	1388.5	1240.0	1111.6	983.2	854.8	714.3	561.8	417.4
57.5°	2058.7	1870.1	1693.5	1521.0	1352.4	1199.9	1059.5	923.0	766.5	606.0	449.5
55°	2291.5	2058.7	1850.0	1657.4	1472.8	1288.2	1135.7	995.2	826.7	650.1	485.6
52.5°	2536.3	2267.4	2014.6	1797.9	1601.2	1392.5	1207.9	1051.4	886.9	694.3	517.7
50°	2821.2	2480.1	2199.2	1934.3	1713.6	1496.9	1284.2	1115.6	947.1	746.4	549.8
47.5°	3114.2	2736.9	2383.8	2094.8	1834.0	1597.2	1372.5	1171.8	1003.3	794.6	581.9
45°	3455.3	2981.7	2592.5	2251.3	1950.4	1701.5	1460.8	1232.0	1051.4	842.7	614.0
42.5°	3784.3	3270.7	2809.2	2423.9	2082.8	1801.9	1541.0	1296.2	1099.6	890.9	642.1
40°	4173.6	3559.6	3017.8	2588.4	2215.2	1898.2	1621.3	1364.4	1143.7	935.0	670.2
37.5°	4546.8	3852.6	3270.7	2769.0	2343.6	1994.5	1701.5	1428.7	1183.9	979.2	706.3
35°	4916.0	4177.6	3511.4	2937.6	2476.1	2102.9	1781.8	1488.9	1224.0	1015.3	738.4
32.5°	5269.2	4482.6	3756.2	3126.2	2620.5	2203.2	1854.0	1545.0	1264.1	1047.4	770.5
30°	5598.3	4771.6	3997.0	3318.8	2753.0	2295.5	1922.3	1601.2	1312.3	1075.5	802.6
27.5°	5899.2	5052.5	4237.8	3499.4	2877.4	2379.8	1994.5	1653.4	1352.4	1103.6	830.7
25°	6172.1	5305.3	4458.5	3663.9	2989.7	2472.1	2062.7	1705.6	1388.5	1127.7	854.8
22.5°	6429.0	5538.1	4659.2	3828.5	3126.2	2564.4	2126.9	1753.7	1424.6	1151.8	878.9
20°	6653.7	5750.7	4851.8	3993.0	3246.6	2648.6	2183.1	1797.9	1456.7	1167.8	902.9
17.5°	6834.3	5939.4	5024.4	4137.5	3350.9	2720.9	2231.3	1838.0	1484.8	1187.9	919.0
15°	6994.8	6099.9	5168.9	4261.9	3443.2	2781.1	2275.4	1870.1	1508.9	1199.9	939.1
12.5°	7131.2	6236.3	5293.3	4370.2	3523.5	2833.2	2311.5	1894.2	1529.0	1212.0	951.1
10°	7243.6	6344.7	5397.6	4454.5	3587.7	2873.4	2339.6	1918.3	1545.0	1224.0	963.1
7.5°	7327.9	6424.9	5473.8	4526.8	3639.9	2901.5	2363.7	1934.3	1561.1	1232.0	983.2
5°	7392.1	6493.2	5534.0	4574.9	3680.0	2941.6	2391.8	1954.4	1577.1	1240.0	983.2
2.5°	7440.3	6549.4	5582.2	4615.0	3712.1	2933.6	2391.8	1950.4	1577.1	1240.0	979.2
0°	7432.2	6553.4	5578.2	4615.0	3712.1	2925.5	2391.8	1946.3	1577.1	1240.0	979.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.1	20.1	8.0	0.0
85°	60.2	40.1	20.1	0.0
82.5°	88.3	56.2	28.1	0.0
80°	116.4	76.2	36.1	0.0
77.5°	148.5	96.3	48.2	0.0
75°	176.6	112.4	56.2	0.0
72.5°	204.7	132.4	64.2	0.0
70°	228.7	148.5	72.2	0.0
67.5°	252.8	168.5	84.3	0.0
65°	272.9	184.6	92.3	0.0
62.5°	288.9	204.7	100.3	0.0
60°	309.0	220.7	108.4	0.0
57.5°	325.1	232.8	116.4	0.0
55°	341.1	240.8	124.4	0.0
52.5°	357.2	252.8	132.4	0.0
50°	373.2	264.9	140.5	0.0
47.5°	389.3	272.9	144.5	0.0
45°	413.3	284.9	152.5	0.0
42.5°	433.4	293.0	160.5	0.0
40°	453.5	301.0	164.5	0.0
37.5°	473.5	309.0	172.6	0.0
35°	493.6	317.0	176.6	0.0
32.5°	509.7	325.1	180.6	0.0
30°	525.7	333.1	184.6	0.0
27.5°	541.8	337.1	188.6	0.0
25°	553.8	345.1	192.6	0.0
22.5°	565.8	349.1	196.6	0.0
20°	573.9	353.2	200.7	0.0
17.5°	585.9	357.2	204.7	0.0
15°	589.9	361.2	212.7	0.0
12.5°	597.9	365.2	212.7	0.0
10°	602.0	369.2	212.7	0.0
7.5°	610.0	369.2	212.7	0.0
5°	606.0	369.2	212.7	0.0
2.5°	606.0	369.2	212.7	0.0
0°	602.0	369.2	212.7	0.0

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