

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: P628174

Luminaire Tested: **IFLD-L-SA7E-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628174  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42795.1 lumens	Max Intensity:	13949.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	80.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

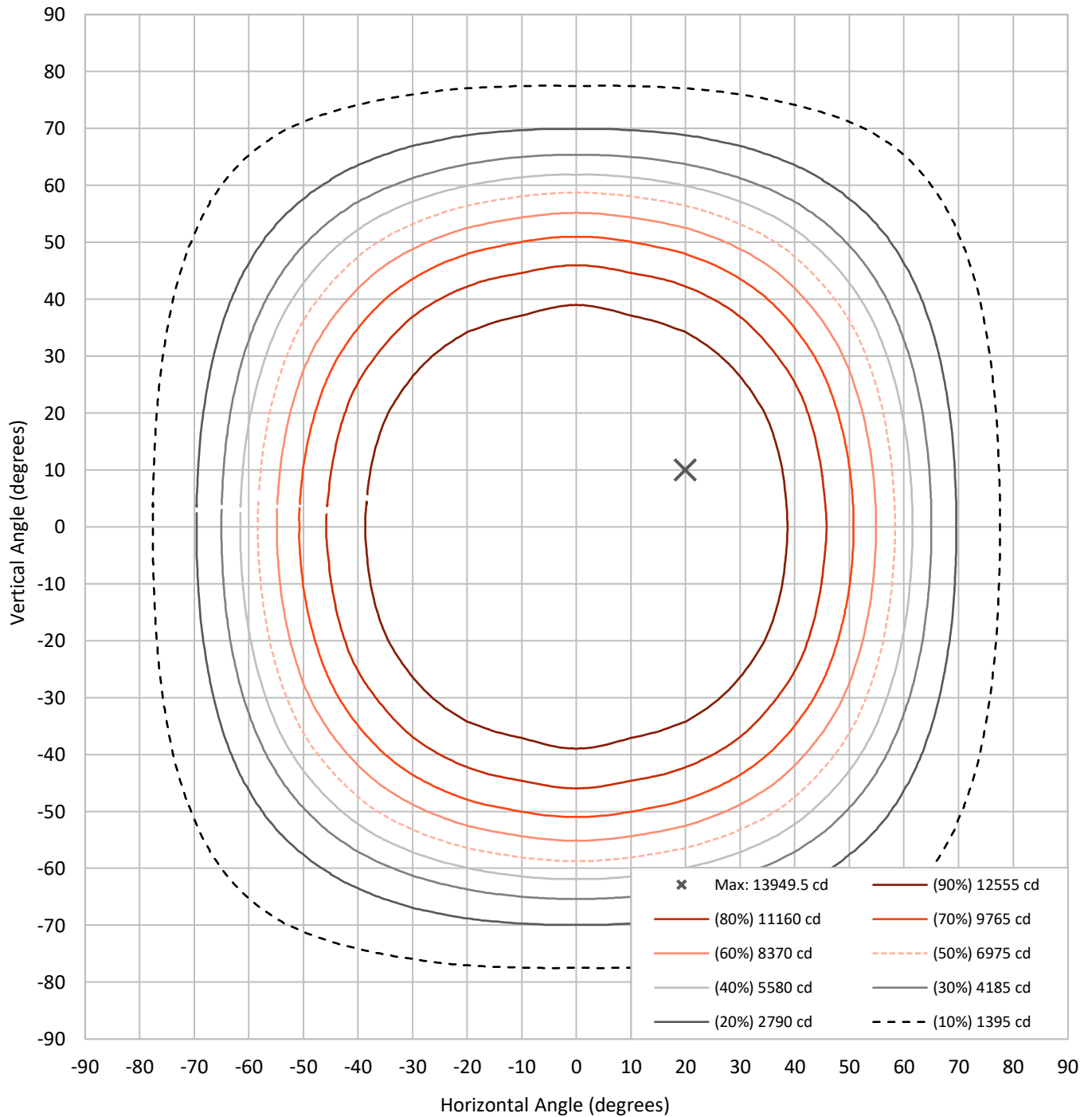
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26260 lumens	Field Lumens:	31481.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 532.7  
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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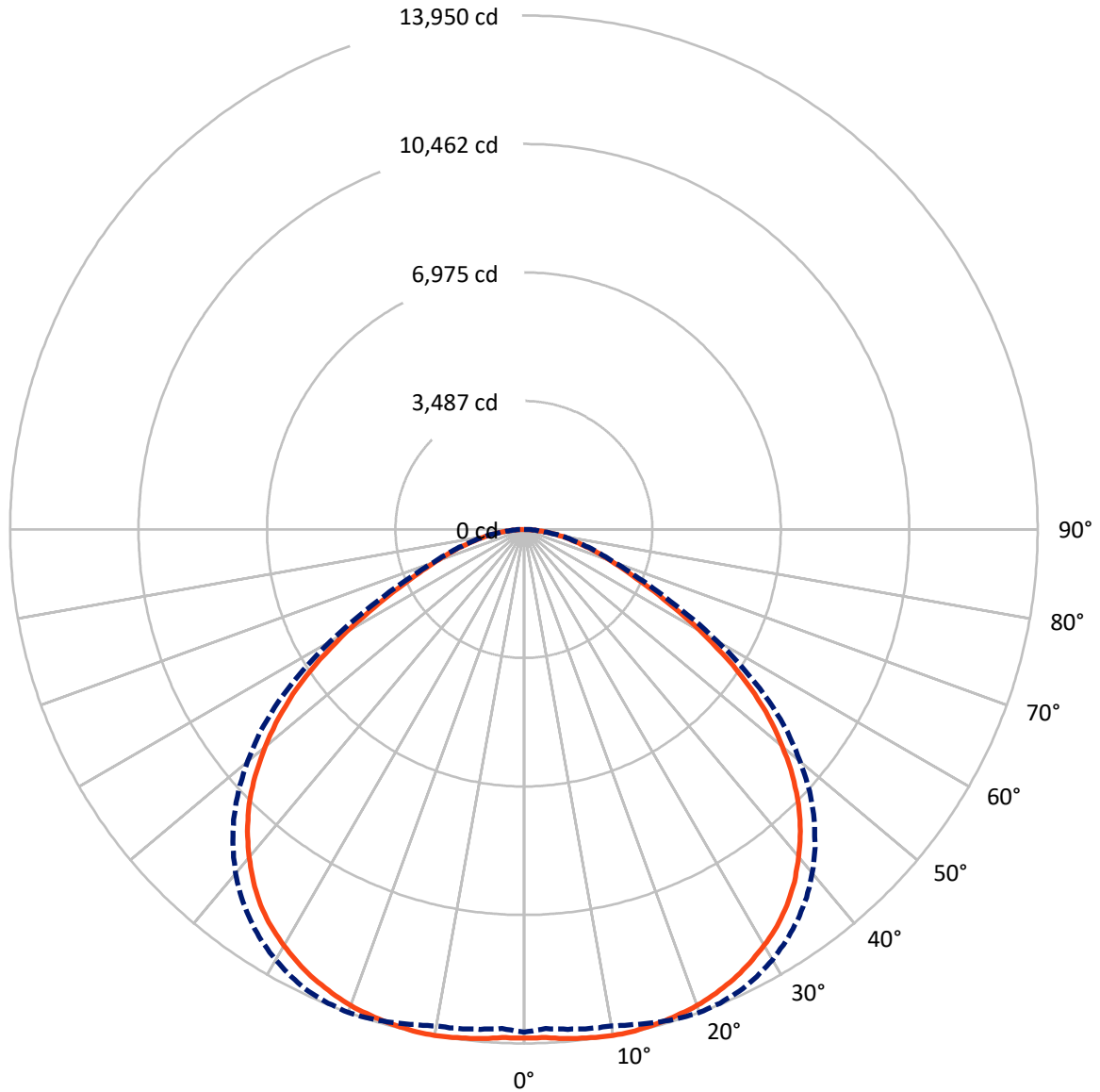
### Iso-Candela Plot





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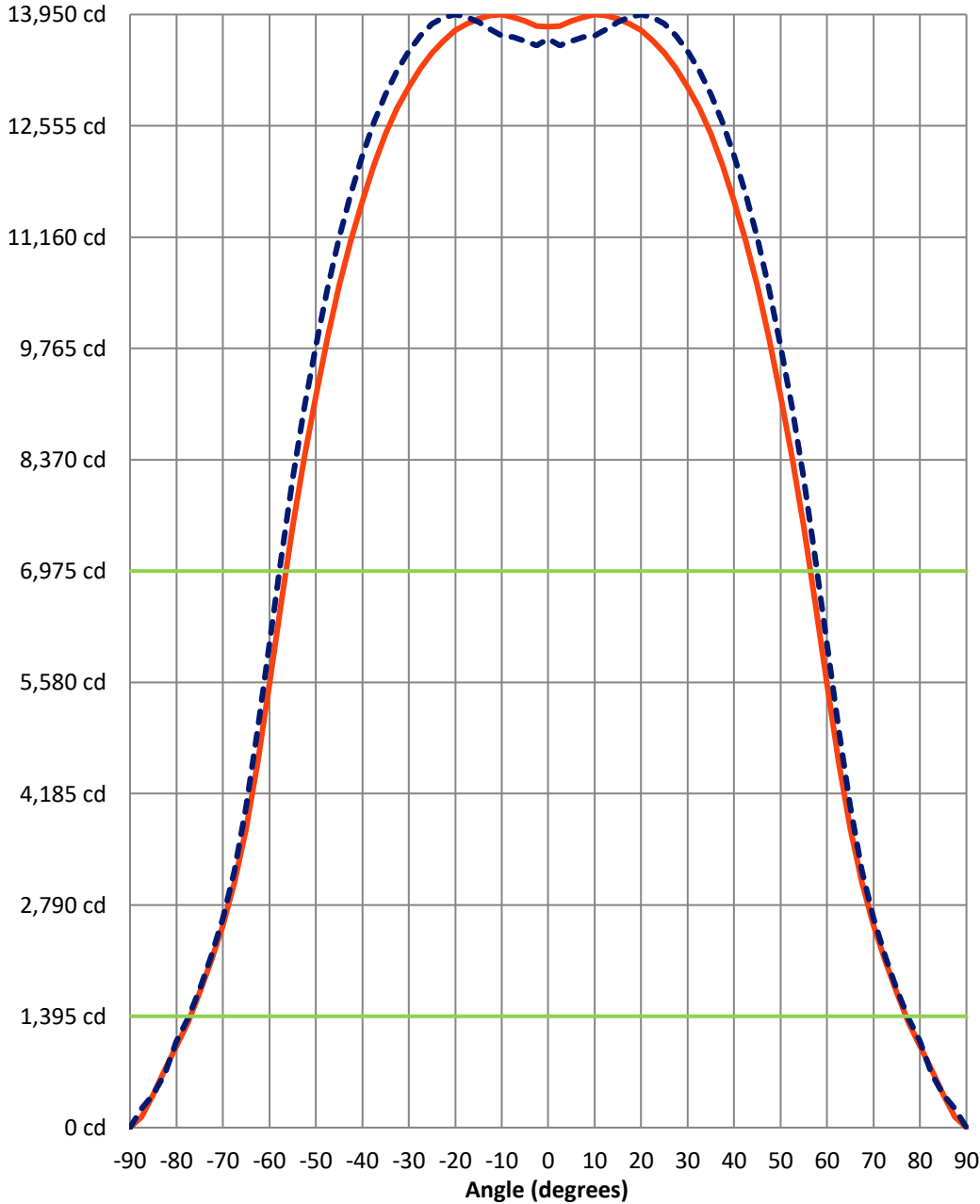
### Luminous Intensity Polar Plot



— 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: 26260  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 31481.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 11313.9  
 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°	112.6	121.6	126.1	130.6	135.1	139.6	144.1	139.6	135.1	135.1	130.6
85°	301.7	310.7	315.2	346.7	378.2	396.2	418.8	414.3	414.3	409.7	405.2
82.5°	603.4	630.4	652.9	684.4	702.4	729.4	747.5	733.9	724.9	706.9	693.4
80°	1071.7	1080.7	1085.2	1089.7	1067.1	1062.6	1053.6	1040.1	1022.1	999.6	977.1
77.5°	1364.3	1373.3	1382.3	1373.3	1368.8	1364.3	1350.8	1337.3	1319.3	1301.3	1274.3
75°	1805.6	1805.6	1805.6	1792.1	1783.1	1769.6	1747.1	1724.5	1693.0	1657.0	1616.5
72.5°	2273.9	2269.4	2264.9	2237.9	2215.3	2188.3	2156.8	2129.8	2093.8	2053.2	1999.2
70°	2764.7	2773.7	2778.2	2742.2	2715.2	2679.1	2638.6	2589.1	2535.0	2476.5	2400.0
67.5°	3440.1	3431.1	3422.1	3372.6	3336.5	3287.0	3228.5	3156.4	3075.4	2985.3	2877.3
65°	4277.6	4291.1	4264.1	4214.6	4147.0	4066.0	3975.9	3872.4	3750.8	3615.7	3462.6
62.5°	5290.7	5313.2	5281.7	5218.7	5133.1	5025.1	4899.0	4750.4	4583.8	4394.7	4205.6
60°	6443.4	6438.9	6380.4	6294.8	6182.3	6047.2	5907.6	5745.5	5556.4	5335.7	5106.1
57.5°	7501.6	7492.6	7420.5	7335.0	7222.4	7078.3	6929.7	6758.6	6560.5	6326.3	6060.7
55°	8451.6	8442.6	8370.6	8280.5	8163.5	8019.4	7884.3	7722.2	7528.6	7280.9	6997.3
52.5°	9293.7	9298.2	9235.1	9136.1	9010.0	8870.4	8739.8	8577.7	8393.1	8145.5	7870.8
50°	10068.1	10063.6	9996.1	9906.0	9789.0	9653.9	9523.3	9361.2	9167.6	8928.9	8663.3
47.5°	10788.6	10779.6	10703.0	10604.0	10482.4	10365.3	10243.7	10099.6	9897.0	9658.4	9392.7
45°	11391.9	11373.9	11297.4	11202.8	11085.7	10982.2	10874.1	10766.0	10549.9	10329.3	10077.1
42.5°	11909.7	11905.2	11828.7	11734.1	11617.1	11527.0	11428.0	11292.9	11112.8	10910.1	10662.5
40°	12405.0	12369.0	12292.5	12202.4	12094.4	12017.8	11918.8	11783.7	11608.1	11409.9	11171.3
37.5°	12774.3	12778.8	12697.7	12598.7	12504.1	12432.1	12342.0	12215.9	12062.8	11869.2	11630.6
35°	13125.5	13103.0	13035.4	12949.9	12864.3	12783.3	12688.7	12580.7	12454.6	12274.5	12049.3
32.5°	13355.1	13386.6	13305.6	13215.5	13166.0	13103.0	13003.9	12891.3	12778.8	12598.7	12396.0
30°	13607.3	13580.3	13517.2	13440.7	13404.7	13364.1	13278.6	13170.5	13039.9	12877.8	12688.7
27.5°	13782.9	13769.4	13692.8	13620.8	13602.8	13566.8	13499.2	13404.7	13274.1	13116.5	12940.9
25°	13859.4	13868.4	13796.4	13755.9	13755.9	13733.4	13679.3	13598.3	13467.7	13323.6	13152.5
22.5°	13895.5	13886.4	13836.9	13827.9	13850.4	13832.4	13809.9	13737.9	13620.8	13503.7	13359.6
20°	13918.0	13854.9	13809.9	13845.9	13872.9	13868.4	13850.4	13805.4	13751.4	13652.3	13526.2
17.5°	13868.4	13827.9	13773.9	13827.9	13886.4	13891.0	13872.9	13845.9	13832.4	13769.4	13656.8
15°	13746.9	13715.3	13724.3	13778.4	13845.9	13868.4	13881.9	13913.5	13895.5	13845.9	13746.9
12.5°	13665.8	13625.3	13665.8	13719.8	13755.9	13769.4	13877.4	13936.0	13936.0	13891.0	13827.9
10°	13643.3	13562.3	13616.3	13665.8	13683.8	13764.9	13854.9	13918.0	13949.5	13913.5	13832.4
7.5°	13598.3	13544.2	13566.8	13589.3	13692.8	13751.4	13800.9	13868.4	13913.5	13909.0	13836.9
5°	13575.8	13508.2	13517.2	13611.8	13683.8	13724.3	13742.4	13800.9	13868.4	13881.9	13827.9
2.5°	13517.2	13485.7	13553.2	13562.3	13616.3	13647.8	13665.8	13719.8	13805.4	13836.9	13814.4
0°	13485.7	13440.7	13395.6	13431.7	13521.7	13589.3	13616.3	13697.3	13796.4	13827.9	13778.4



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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°	126.1	121.6	117.1	112.6	117.1	117.1	117.1	112.6	117.1	112.6	112.6
85°	391.7	373.7	360.2	342.2	324.2	310.7	292.7	274.7	270.2	265.7	256.7
82.5°	675.4	652.9	630.4	603.4	576.4	544.8	513.3	477.3	468.3	459.3	445.8
80°	950.1	918.6	887.0	855.5	828.5	797.0	761.0	720.4	693.4	670.9	643.9
77.5°	1238.3	1193.2	1148.2	1094.2	1062.6	1031.1	995.1	954.6	914.1	878.0	837.5
75°	1567.0	1517.4	1472.4	1418.4	1359.8	1301.3	1242.8	1188.7	1130.2	1076.2	1022.1
72.5°	1931.7	1859.6	1787.6	1720.0	1648.0	1576.0	1499.4	1427.4	1355.3	1283.3	1206.7
70°	2314.4	2224.4	2134.3	2044.2	1949.7	1855.1	1765.1	1675.0	1585.0	1490.4	1404.9
67.5°	2764.7	2661.1	2544.0	2418.0	2278.4	2156.8	2039.7	1931.7	1823.6	1715.5	1607.5
65°	3327.5	3183.4	3025.8	2854.7	2692.6	2530.5	2359.4	2197.3	2071.3	1945.2	1823.6
62.5°	4020.9	3818.3	3597.7	3377.1	3178.9	2967.3	2769.2	2557.6	2359.4	2179.3	2030.7
60°	4849.5	4574.8	4304.6	4020.9	3746.3	3458.1	3206.0	2944.8	2697.1	2476.5	2260.4
57.5°	5763.5	5443.8	5119.6	4772.9	4399.2	4061.5	3719.3	3377.1	3084.4	2791.7	2548.6
55°	6691.1	6353.4	5988.6	5596.9	5187.2	4754.9	4291.1	3908.4	3507.6	3165.4	2850.2
52.5°	7573.6	7222.4	6844.2	6483.9	5993.1	5497.8	4989.0	4484.7	4016.4	3579.7	3196.9
50°	8361.6	8019.4	7654.7	7235.9	6781.1	6254.3	5687.0	5119.6	4565.8	4052.5	3575.2
47.5°	9082.0	8748.8	8384.1	7965.3	7551.1	6965.7	6393.9	5768.0	5151.1	4561.3	4002.9
45°	9757.4	9419.7	9041.5	8640.8	8163.5	7641.1	7051.3	6420.9	5759.0	5097.1	4453.2
42.5°	10369.8	10032.1	9649.4	9235.1	8762.3	8244.5	7672.7	7037.8	6371.4	5650.9	4944.0
40°	10905.6	10576.9	10207.7	9775.4	9334.2	8789.3	8226.5	7623.1	6934.2	6209.3	5430.3
37.5°	11373.9	11067.7	10703.0	10275.3	9807.0	9320.7	8739.8	8136.5	7515.1	6727.1	5930.1
35°	11788.2	11504.5	11130.8	10725.5	10266.2	9752.9	9208.1	8618.2	7947.3	7208.9	6434.4
32.5°	12148.4	11860.2	11518.0	11112.8	10667.0	10185.2	9626.9	9032.5	8397.6	7645.7	6803.6
30°	12454.6	12175.4	11851.2	11468.5	11040.7	10563.4	10018.6	9419.7	8771.3	8023.9	7190.9
27.5°	12720.2	12454.6	12139.4	11783.7	11373.9	10914.6	10365.3	9761.9	9100.0	8379.6	7546.6
25°	12949.9	12693.2	12400.5	12062.8	11657.6	11207.3	10689.5	10059.1	9397.2	8672.3	7848.3
22.5°	13157.0	12909.4	12616.7	12288.0	11918.8	11468.5	10946.2	10320.3	9649.4	8933.4	8122.9
20°	13341.6	13112.0	12823.8	12486.1	12116.9	11662.1	11144.3	10549.9	9874.5	9172.1	8370.6
17.5°	13490.2	13287.6	12999.4	12643.7	12274.5	11833.2	11328.9	10784.1	10068.1	9374.7	8577.7
15°	13593.8	13395.6	13134.5	12774.3	12414.1	11977.3	11473.0	10910.1	10243.7	9536.8	8748.8
12.5°	13665.8	13454.2	13211.0	12877.8	12517.6	12085.4	11594.6	11040.7	10392.3	9680.9	8897.4
10°	13683.8	13490.2	13247.1	12949.9	12598.7	12179.9	11698.1	11148.8	10513.9	9793.5	9019.0
7.5°	13692.8	13508.2	13287.6	13003.9	12657.2	12252.0	11774.7	11234.3	10604.0	9888.0	9109.0
5°	13688.3	13512.7	13314.6	13039.9	12693.2	12292.5	11824.2	11292.9	10667.0	9951.1	9176.6
2.5°	13674.8	13517.2	13332.6	13066.9	12733.7	12337.5	11873.7	11360.4	10734.5	10005.1	9230.6
0°	13710.8	13575.8	13341.6	13057.9	12742.8	12337.5	11869.2	11369.4	10743.5	10000.6	9226.1





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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°	112.6	108.1	108.1	103.6	99.1	94.6	85.6	81.0	72.0	58.5	45.0
85°	243.1	229.6	216.1	207.1	198.1	189.1	175.6	162.1	144.1	117.1	90.1
82.5°	427.8	400.7	373.7	342.2	315.2	288.2	265.7	243.1	216.1	175.6	135.1
80°	612.4	571.8	531.3	486.3	445.8	400.7	360.2	324.2	288.2	234.1	180.1
77.5°	797.0	743.0	684.4	630.4	571.8	513.3	454.8	405.2	351.2	288.2	225.1
75°	968.1	905.1	851.0	774.5	702.4	625.9	549.3	481.8	414.3	337.7	270.2
72.5°	1139.2	1058.1	981.6	909.6	828.5	733.9	648.4	562.8	477.3	387.2	306.2
70°	1310.3	1211.2	1116.7	1031.1	941.1	846.5	743.0	643.9	540.3	432.3	337.7
67.5°	1485.9	1373.3	1265.3	1157.2	1053.6	945.6	837.5	724.9	603.4	477.3	373.7
65°	1679.5	1539.9	1409.4	1287.8	1166.2	1049.1	927.6	806.0	670.9	526.8	405.2
62.5°	1873.1	1720.0	1567.0	1413.9	1278.8	1148.2	1017.6	882.5	733.9	580.9	436.8
60°	2080.3	1904.7	1729.1	1557.9	1391.3	1247.3	1103.2	959.1	801.5	630.4	468.3
57.5°	2309.9	2098.3	1900.2	1706.5	1517.4	1346.3	1188.7	1035.6	860.0	679.9	504.3
55°	2571.1	2309.9	2075.8	1859.6	1652.5	1445.4	1274.3	1116.7	927.6	729.4	544.8
52.5°	2845.7	2544.0	2260.4	2017.2	1796.6	1562.5	1355.3	1179.7	995.1	779.0	580.9
50°	3165.4	2782.7	2467.5	2170.3	1922.7	1679.5	1440.9	1251.8	1062.6	837.5	616.9
47.5°	3494.1	3070.9	2674.6	2350.4	2057.8	1792.1	1539.9	1314.8	1125.7	891.5	652.9
45°	3876.9	3345.5	2908.8	2526.0	2188.3	1909.2	1639.0	1382.3	1179.7	945.6	688.9
42.5°	4246.1	3669.7	3151.9	2719.7	2336.9	2021.7	1729.1	1454.4	1233.8	999.6	720.4
40°	4682.8	3993.9	3386.1	2904.3	2485.5	2129.8	1819.1	1530.9	1283.3	1049.1	752.0
37.5°	5101.6	4322.6	3669.7	3106.9	2629.6	2237.9	1909.2	1603.0	1328.3	1098.7	792.5
35°	5515.9	4687.4	3939.9	3296.0	2778.2	2359.4	1999.2	1670.5	1373.3	1139.2	828.5
32.5°	5912.1	5029.6	4214.6	3507.6	2940.3	2472.0	2080.3	1733.6	1418.4	1175.2	864.5
30°	6281.3	5353.8	4484.7	3723.8	3088.9	2575.6	2156.8	1796.6	1472.4	1206.7	900.5
27.5°	6619.0	5668.9	4754.9	3926.4	3228.5	2670.1	2237.9	1855.1	1517.4	1238.3	932.1
25°	6925.2	5952.6	5002.5	4111.0	3354.5	2773.7	2314.4	1913.7	1557.9	1265.3	959.1
22.5°	7213.4	6213.8	5227.7	4295.6	3507.6	2877.3	2386.5	1967.7	1598.5	1292.3	986.1
20°	7465.5	6452.4	5443.8	4480.2	3642.7	2971.8	2449.5	2017.2	1634.5	1310.3	1013.1
17.5°	7668.2	6664.1	5637.4	4642.3	3759.8	3052.9	2503.5	2062.3	1666.0	1332.8	1031.1
15°	7848.3	6844.2	5799.5	4781.9	3863.4	3120.4	2553.1	2098.3	1693.0	1346.3	1053.6
12.5°	8001.4	6997.3	5939.1	4903.5	3953.4	3178.9	2593.6	2125.3	1715.5	1359.8	1067.1
10°	8127.4	7118.8	6056.2	4998.0	4025.4	3224.0	2625.1	2152.3	1733.6	1373.3	1080.7
7.5°	8222.0	7208.9	6141.7	5079.1	4084.0	3255.5	2652.1	2170.3	1751.6	1382.3	1103.2
5°	8294.0	7285.4	6209.3	5133.1	4129.0	3300.5	2683.6	2192.8	1769.6	1391.3	1103.2
2.5°	8348.1	7348.5	6263.3	5178.2	4165.0	3291.5	2683.6	2188.3	1769.6	1391.3	1098.7
0°	8339.1	7353.0	6258.8	5178.2	4165.0	3282.5	2683.6	2183.8	1769.6	1391.3	1098.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.5	22.5	9.0	0.0
85°	67.5	45.0	22.5	0.0
82.5°	99.1	63.0	31.5	0.0
80°	130.6	85.6	40.5	0.0
77.5°	166.6	108.1	54.0	0.0
75°	198.1	126.1	63.0	0.0
72.5°	229.6	148.6	72.0	0.0
70°	256.7	166.6	81.0	0.0
67.5°	283.7	189.1	94.6	0.0
65°	306.2	207.1	103.6	0.0
62.5°	324.2	229.6	112.6	0.0
60°	346.7	247.7	121.6	0.0
57.5°	364.7	261.2	130.6	0.0
55°	382.7	270.2	139.6	0.0
52.5°	400.7	283.7	148.6	0.0
50°	418.8	297.2	157.6	0.0
47.5°	436.8	306.2	162.1	0.0
45°	463.8	319.7	171.1	0.0
42.5°	486.3	328.7	180.1	0.0
40°	508.8	337.7	184.6	0.0
37.5°	531.3	346.7	193.6	0.0
35°	553.8	355.7	198.1	0.0
32.5°	571.8	364.7	202.6	0.0
30°	589.9	373.7	207.1	0.0
27.5°	607.9	378.2	211.6	0.0
25°	621.4	387.2	216.1	0.0
22.5°	634.9	391.7	220.6	0.0
20°	643.9	396.2	225.1	0.0
17.5°	657.4	400.7	229.6	0.0
15°	661.9	405.2	238.6	0.0
12.5°	670.9	409.7	238.6	0.0
10°	675.4	414.3	238.6	0.0
7.5°	684.4	414.3	238.6	0.0
5°	679.9	414.3	238.6	0.0
2.5°	679.9	414.3	238.6	0.0
0°	675.4	414.3	238.6	0.0

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