

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: P628466

Luminaire Tested: **IFLD-L-SA8B-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628466  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

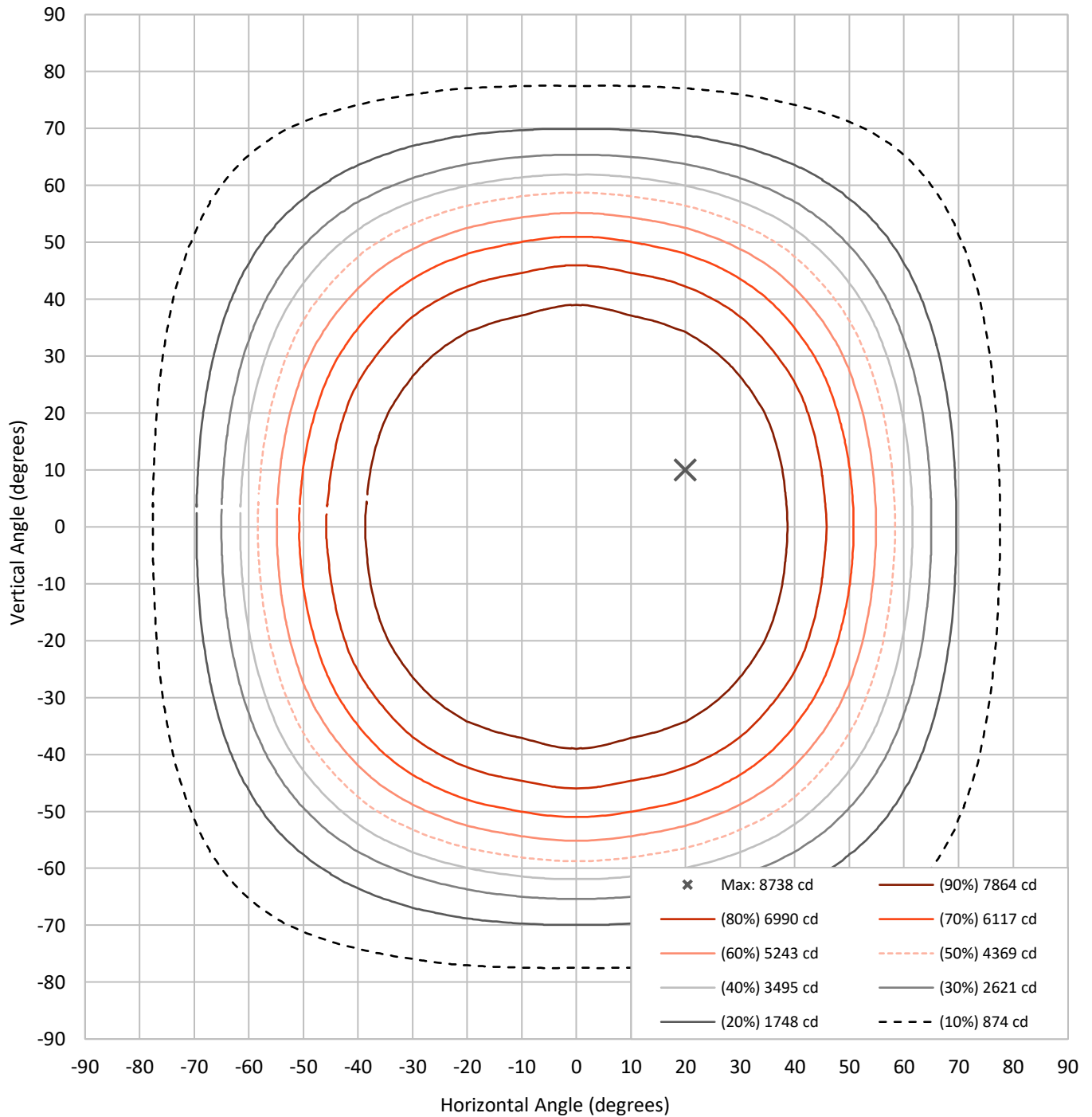
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26807 lumens	Max Intensity:	8738 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	83.8 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:	16449.3 lumens	Field Lumens:	19719.9 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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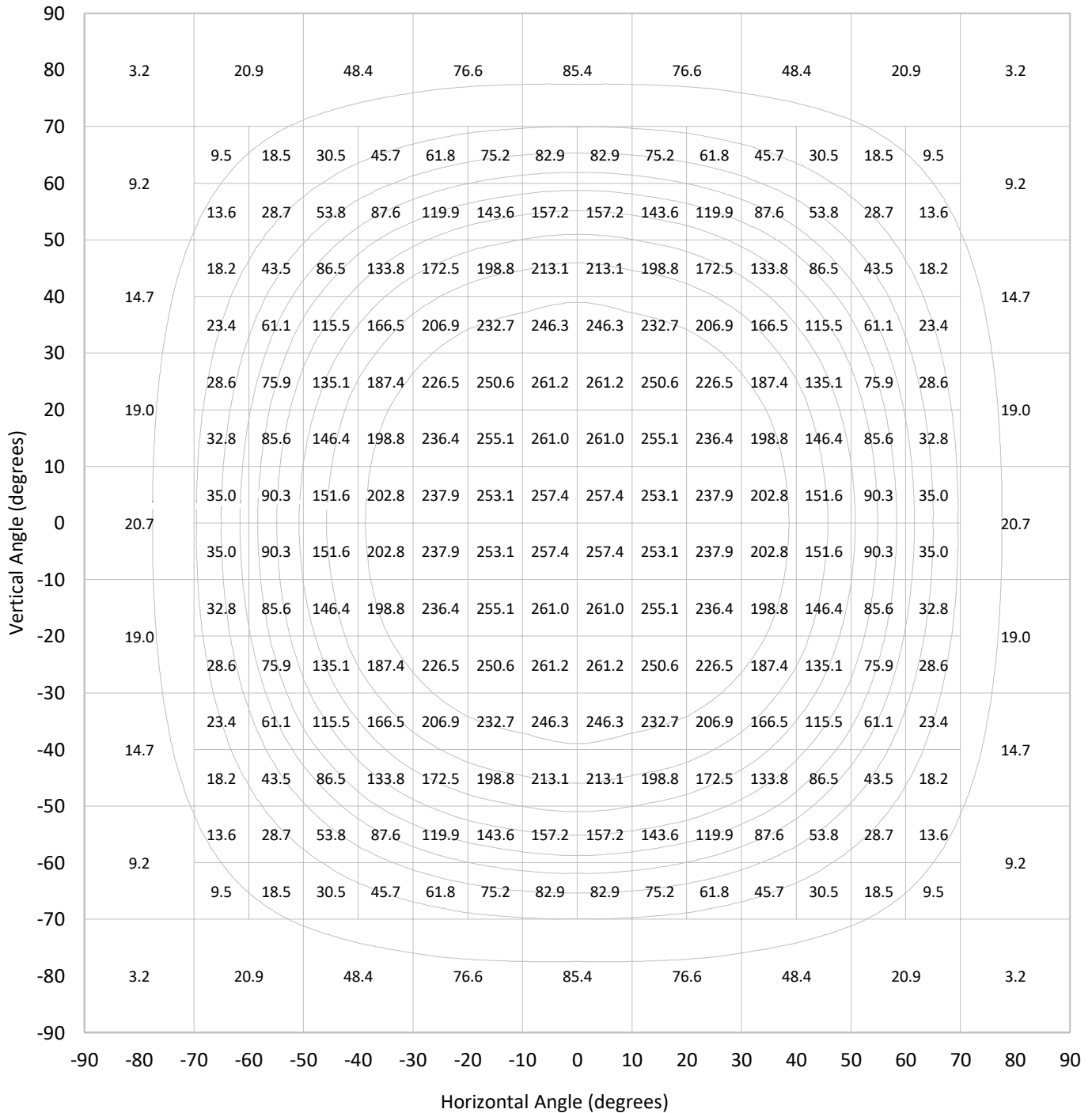
### Iso-Candela Plot





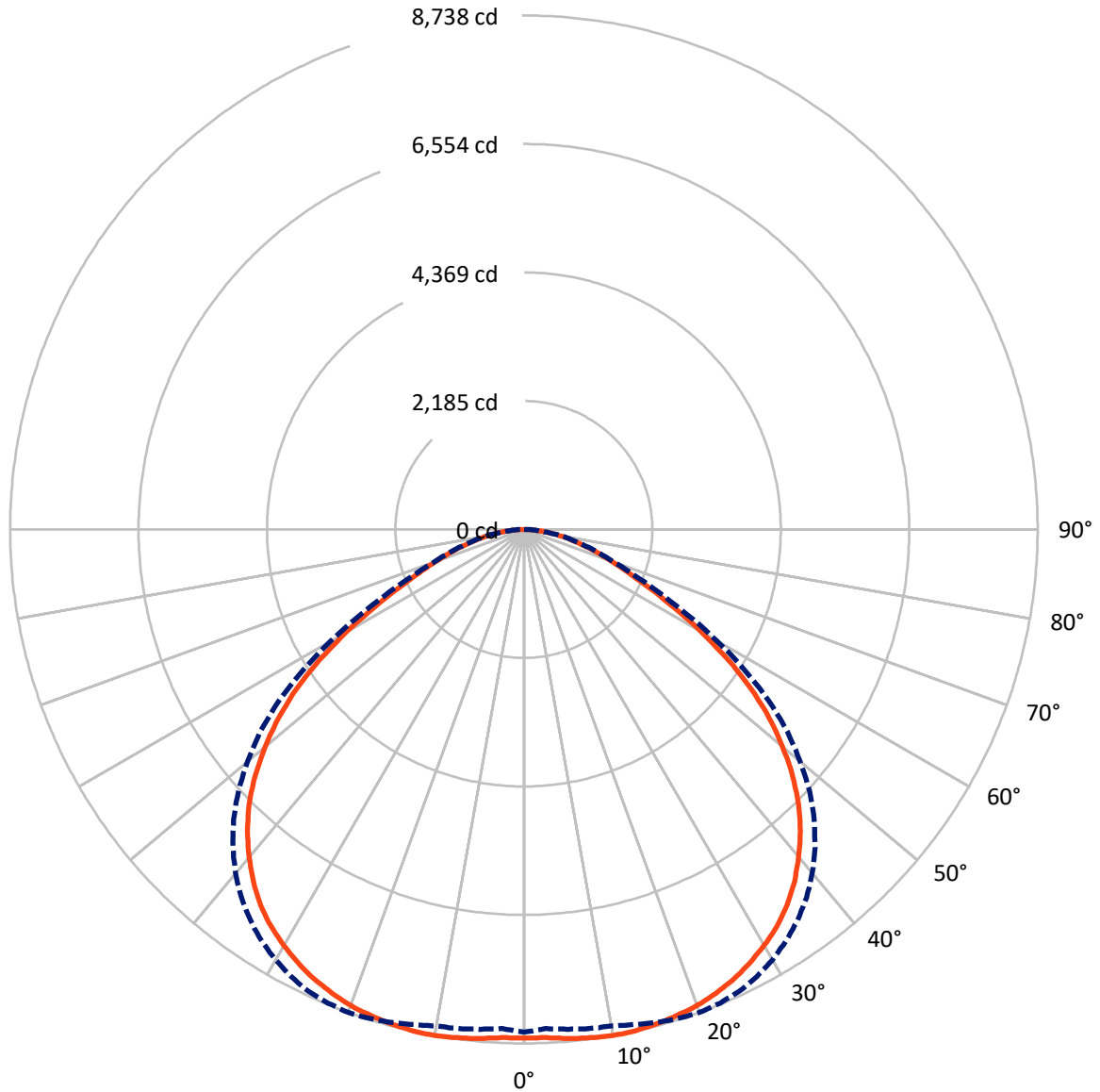
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### Lumen Table



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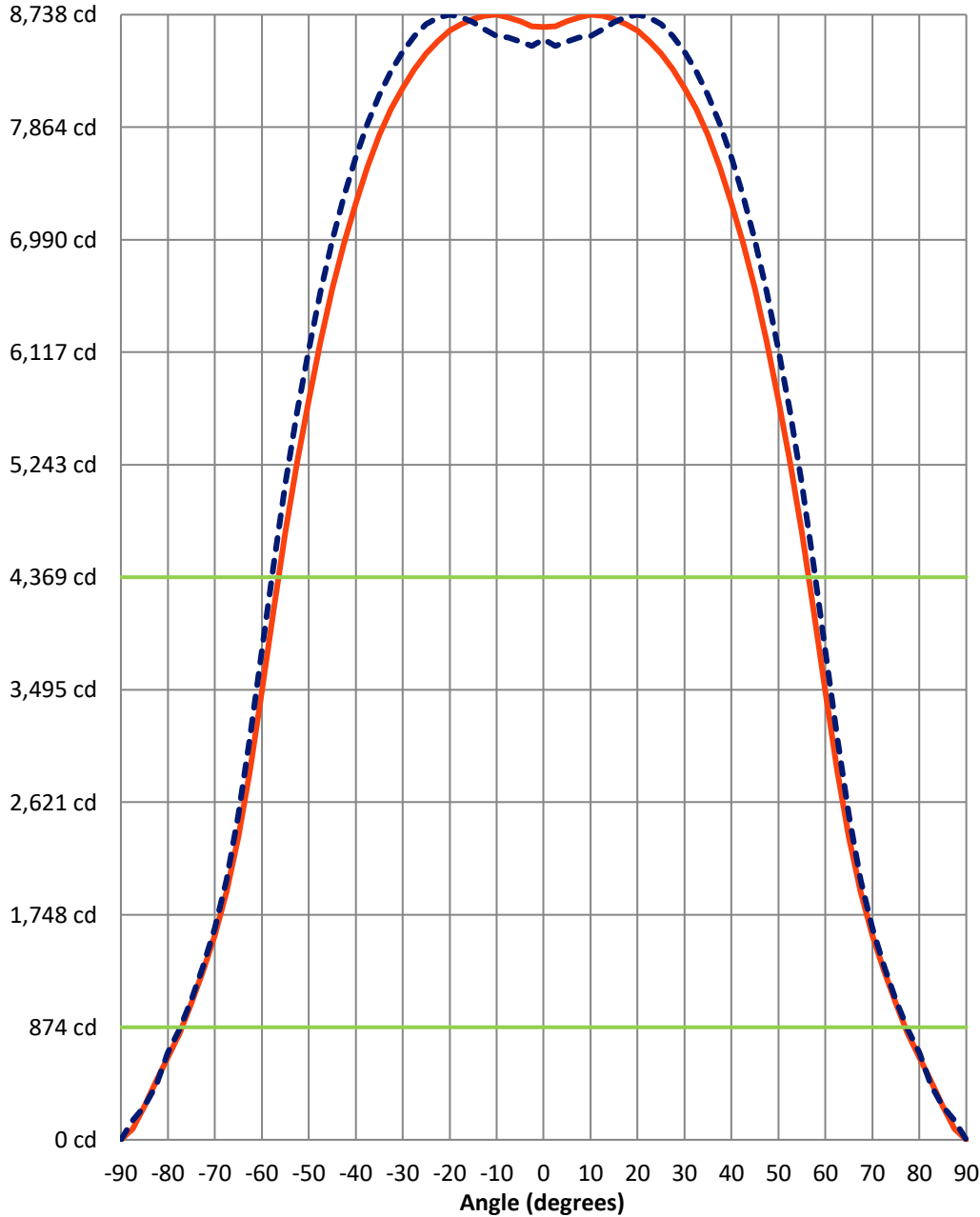
### Luminous Intensity Polar Plot



— 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: 16449.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 19719.9  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7087  
 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°	70.5	76.2	79.0	81.8	84.6	87.4	90.3	87.4	84.6	84.6	81.8
85°	189.0	194.6	197.4	217.2	236.9	248.2	262.3	259.5	259.5	256.7	253.8
82.5°	378.0	394.9	409.0	428.7	440.0	456.9	468.2	459.7	454.1	442.8	434.4
80°	671.3	676.9	679.7	682.6	668.5	665.6	660.0	651.5	640.3	626.2	612.1
77.5°	854.6	860.3	865.9	860.3	857.4	854.6	846.2	837.7	826.4	815.1	798.2
75°	1131.0	1131.0	1131.0	1122.6	1116.9	1108.5	1094.4	1080.3	1060.5	1038.0	1012.6
72.5°	1424.4	1421.5	1418.7	1401.8	1387.7	1370.8	1351.0	1334.1	1311.5	1286.2	1252.3
70°	1731.8	1737.4	1740.3	1717.7	1700.8	1678.2	1652.8	1621.8	1588.0	1551.3	1503.3
67.5°	2154.9	2149.2	2143.6	2112.6	2090.0	2059.0	2022.3	1977.2	1926.4	1870.0	1802.3
65°	2679.5	2688.0	2671.0	2640.0	2597.7	2546.9	2490.5	2425.7	2349.5	2264.9	2169.0
62.5°	3314.1	3328.2	3308.5	3269.0	3215.4	3147.7	3068.7	2975.7	2871.3	2752.8	2634.4
60°	4036.2	4033.4	3996.7	3943.1	3872.6	3788.0	3700.5	3599.0	3480.5	3342.3	3198.5
57.5°	4699.0	4693.4	4648.2	4594.6	4524.1	4433.9	4340.8	4233.6	4109.5	3962.8	3796.4
55°	5294.1	5288.5	5243.4	5187.0	5113.6	5023.4	4938.7	4837.2	4715.9	4560.8	4383.1
52.5°	5821.6	5824.4	5784.9	5722.9	5643.9	5556.4	5474.6	5373.1	5257.5	5102.3	4930.3
50°	6306.7	6303.9	6261.6	6205.2	6131.8	6047.2	5965.4	5863.9	5742.6	5593.1	5426.7
47.5°	6758.0	6752.3	6704.4	6642.3	6566.2	6492.9	6416.7	6326.4	6199.5	6050.0	5883.6
45°	7135.9	7124.7	7076.7	7017.5	6944.1	6879.3	6811.6	6743.9	6608.5	6470.3	6312.3
42.5°	7460.3	7457.5	7409.5	7350.3	7277.0	7220.6	7158.5	7073.9	6961.1	6834.1	6679.0
40°	7770.6	7748.0	7700.0	7643.6	7575.9	7528.0	7465.9	7381.3	7271.3	7147.2	6997.7
37.5°	8001.8	8004.7	7953.9	7891.8	7832.6	7787.5	7731.1	7652.1	7556.2	7434.9	7285.4
35°	8221.8	8207.7	8165.4	8111.8	8058.2	8007.5	7948.2	7880.6	7801.6	7688.8	7547.7
32.5°	8365.7	8385.4	8334.7	8278.2	8247.2	8207.7	8145.7	8075.2	8004.7	7891.8	7764.9
30°	8523.6	8506.7	8467.2	8419.3	8396.7	8371.3	8317.7	8250.0	8168.2	8066.7	7948.2
27.5°	8633.6	8625.2	8577.2	8532.1	8520.8	8498.3	8455.9	8396.7	8314.9	8216.2	8106.2
25°	8681.6	8687.2	8642.1	8616.7	8616.7	8602.6	8568.8	8518.0	8436.2	8345.9	8238.8
22.5°	8704.1	8698.5	8667.5	8661.8	8675.9	8664.7	8650.6	8605.4	8532.1	8458.8	8368.5
20°	8718.3	8678.8	8650.6	8673.1	8690.0	8687.2	8675.9	8647.7	8613.9	8551.8	8472.9
17.5°	8687.2	8661.8	8628.0	8661.8	8698.5	8701.3	8690.0	8673.1	8664.7	8625.2	8554.7
15°	8611.1	8591.3	8597.0	8630.8	8673.1	8687.2	8695.7	8715.4	8704.1	8673.1	8611.1
12.5°	8560.3	8534.9	8560.3	8594.1	8616.7	8625.2	8692.9	8729.5	8729.5	8701.3	8661.8
10°	8546.2	8495.4	8529.3	8560.3	8571.6	8622.4	8678.8	8718.3	8738.0	8715.4	8664.7
7.5°	8518.0	8484.1	8498.3	8512.4	8577.2	8613.9	8644.9	8687.2	8715.4	8712.6	8667.5
5°	8503.9	8461.6	8467.2	8526.5	8571.6	8597.0	8608.3	8644.9	8687.2	8695.7	8661.8
2.5°	8467.2	8447.5	8489.8	8495.4	8529.3	8549.0	8560.3	8594.1	8647.7	8667.5	8653.4
0°	8447.5	8419.3	8391.1	8413.6	8470.0	8512.4	8529.3	8580.0	8642.1	8661.8	8630.8



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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°	79.0	76.2	73.3	70.5	73.3	73.3	73.3	70.5	73.3	70.5	70.5
85°	245.4	234.1	225.6	214.4	203.1	194.6	183.3	172.1	169.2	166.4	160.8
82.5°	423.1	409.0	394.9	378.0	361.0	341.3	321.5	299.0	293.3	287.7	279.2
80°	595.1	575.4	555.6	535.9	519.0	499.2	476.7	451.3	434.4	420.3	403.3
77.5°	775.6	747.4	719.2	685.4	665.6	645.9	623.3	598.0	572.6	550.0	524.6
75°	981.5	950.5	922.3	888.5	851.8	815.1	778.5	744.6	708.0	674.1	640.3
72.5°	1210.0	1164.9	1119.7	1077.4	1032.3	987.2	939.2	894.1	849.0	803.9	755.9
70°	1449.8	1393.3	1336.9	1280.5	1221.3	1162.1	1105.6	1049.2	992.8	933.6	880.0
67.5°	1731.8	1666.9	1593.6	1514.6	1427.2	1351.0	1277.7	1210.0	1142.3	1074.6	1006.9
65°	2084.4	1994.1	1895.4	1788.2	1686.7	1585.1	1478.0	1376.4	1297.4	1218.5	1142.3
62.5°	2518.7	2391.8	2253.6	2115.4	1991.3	1858.7	1734.6	1602.1	1478.0	1365.1	1272.1
60°	3037.7	2865.7	2696.4	2518.7	2346.7	2166.2	2008.2	1844.6	1689.5	1551.3	1415.9
57.5°	3610.3	3410.0	3206.9	2989.8	2755.7	2544.1	2329.8	2115.4	1932.1	1748.7	1596.4
55°	4191.3	3979.8	3751.3	3505.9	3249.2	2978.5	2688.0	2448.2	2197.2	1982.8	1785.4
52.5°	4744.1	4524.1	4287.2	4061.6	3754.1	3443.9	3125.1	2809.2	2515.9	2242.3	2002.6
50°	5237.7	5023.4	4794.9	4532.6	4247.7	3917.7	3562.3	3206.9	2860.0	2538.5	2239.5
47.5°	5689.0	5480.3	5251.8	4989.5	4730.0	4363.4	4005.1	3613.1	3226.7	2857.2	2507.4
45°	6112.1	5900.5	5663.6	5412.6	5113.6	4786.4	4416.9	4022.1	3607.5	3192.8	2789.5
42.5°	6495.7	6284.1	6044.4	5784.9	5488.7	5164.4	4806.2	4408.5	3991.0	3539.8	3096.9
40°	6831.3	6625.4	6394.1	6123.4	5847.0	5505.7	5153.1	4775.2	4343.6	3889.5	3401.6
37.5°	7124.7	6932.9	6704.4	6436.4	6143.1	5838.5	5474.6	5096.7	4707.5	4213.9	3714.6
35°	7384.1	7206.4	6972.3	6718.5	6430.8	6109.3	5768.0	5398.5	4978.2	4515.7	4030.5
32.5°	7609.8	7429.3	7214.9	6961.1	6681.8	6380.0	6030.3	5658.0	5260.3	4789.3	4261.8
30°	7801.6	7626.7	7423.6	7183.9	6915.9	6617.0	6275.7	5900.5	5494.4	5026.2	4504.4
27.5°	7968.0	7801.6	7604.1	7381.3	7124.7	6837.0	6492.9	6114.9	5700.3	5249.0	4727.2
25°	8111.8	7951.1	7767.7	7556.2	7302.3	7020.3	6695.9	6301.1	5886.4	5432.3	4916.2
22.5°	8241.6	8086.5	7903.1	7697.2	7465.9	7183.9	6856.7	6464.7	6044.4	5595.9	5088.2
20°	8357.2	8213.4	8032.9	7821.3	7590.0	7305.2	6980.8	6608.5	6185.4	5745.4	5243.4
17.5°	8450.3	8323.4	8142.9	7920.0	7688.8	7412.3	7096.4	6755.2	6306.7	5872.3	5373.1
15°	8515.2	8391.1	8227.5	8001.8	7776.2	7502.6	7186.7	6834.1	6416.7	5973.9	5480.3
12.5°	8560.3	8427.7	8275.4	8066.7	7841.1	7570.3	7262.9	6915.9	6509.8	6064.1	5573.4
10°	8571.6	8450.3	8298.0	8111.8	7891.8	7629.5	7327.7	6983.6	6585.9	6134.6	5649.5
7.5°	8577.2	8461.6	8323.4	8145.7	7928.5	7674.7	7375.7	7037.2	6642.3	6193.9	5705.9
5°	8574.4	8464.4	8340.3	8168.2	7951.1	7700.0	7406.7	7073.9	6681.8	6233.4	5748.2
2.5°	8565.9	8467.2	8351.6	8185.2	7976.5	7728.2	7437.7	7116.2	6724.1	6267.2	5782.1
0°	8588.5	8503.9	8357.2	8179.5	7982.1	7728.2	7434.9	7121.8	6729.8	6264.4	5779.3





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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°	70.5	67.7	67.7	64.9	62.1	59.2	53.6	50.8	45.1	36.7	28.2
85°	152.3	143.8	135.4	129.7	124.1	118.5	110.0	101.5	90.3	73.3	56.4
82.5°	268.0	251.0	234.1	214.4	197.4	180.5	166.4	152.3	135.4	110.0	84.6
80°	383.6	358.2	332.8	304.6	279.2	251.0	225.6	203.1	180.5	146.7	112.8
77.5°	499.2	465.4	428.7	394.9	358.2	321.5	284.9	253.8	220.0	180.5	141.0
75°	606.4	566.9	533.1	485.1	440.0	392.1	344.1	301.8	259.5	211.5	169.2
72.5°	713.6	662.8	614.9	569.7	519.0	459.7	406.2	352.6	299.0	242.6	191.8
70°	820.8	758.7	699.5	645.9	589.5	530.3	465.4	403.3	338.5	270.8	211.5
67.5°	930.8	860.3	792.6	724.9	660.0	592.3	524.6	454.1	378.0	299.0	234.1
65°	1052.1	964.6	882.8	806.7	730.5	657.2	581.0	504.9	420.3	330.0	253.8
62.5°	1173.3	1077.4	981.5	885.6	801.0	719.2	637.4	552.8	459.7	363.8	273.6
60°	1303.1	1193.1	1083.1	975.9	871.5	781.3	691.0	600.8	502.1	394.9	293.3
57.5°	1446.9	1314.4	1190.3	1069.0	950.5	843.3	744.6	648.7	538.7	425.9	315.9
55°	1610.5	1446.9	1300.3	1164.9	1035.1	905.4	798.2	699.5	581.0	456.9	341.3
52.5°	1782.6	1593.6	1415.9	1263.6	1125.4	978.7	849.0	739.0	623.3	488.0	363.8
50°	1982.8	1743.1	1545.6	1359.5	1204.4	1052.1	902.6	784.1	665.6	524.6	386.4
47.5°	2188.7	1923.6	1675.4	1472.3	1289.0	1122.6	964.6	823.6	705.1	558.5	409.0
45°	2428.5	2095.7	1822.1	1582.3	1370.8	1195.9	1026.7	865.9	739.0	592.3	431.5
42.5°	2659.8	2298.7	1974.4	1703.6	1463.9	1266.4	1083.1	911.0	772.8	626.2	451.3
40°	2933.3	2501.8	2121.0	1819.2	1556.9	1334.1	1139.5	959.0	803.9	657.2	471.0
37.5°	3195.7	2707.7	2298.7	1946.2	1647.2	1401.8	1195.9	1004.1	832.1	688.2	496.4
35°	3455.1	2936.2	2468.0	2064.6	1740.3	1478.0	1252.3	1046.4	860.3	713.6	519.0
32.5°	3703.4	3150.5	2640.0	2197.2	1841.8	1548.5	1303.1	1085.9	888.5	736.2	541.5
30°	3934.6	3353.6	2809.2	2332.6	1934.9	1613.3	1351.0	1125.4	922.3	755.9	564.1
27.5°	4146.2	3551.0	2978.5	2459.5	2022.3	1672.6	1401.8	1162.1	950.5	775.6	583.8
25°	4338.0	3728.7	3133.6	2575.1	2101.3	1737.4	1449.8	1198.7	975.9	792.6	600.8
22.5°	4518.5	3892.3	3274.6	2690.8	2197.2	1802.3	1494.9	1232.6	1001.3	809.5	617.7
20°	4676.4	4041.8	3410.0	2806.4	2281.8	1861.5	1534.4	1263.6	1023.9	820.8	634.6
17.5°	4803.4	4174.4	3531.3	2908.0	2355.1	1912.3	1568.2	1291.8	1043.6	834.9	645.9
15°	4916.2	4287.2	3632.8	2995.4	2420.0	1954.6	1599.2	1314.4	1060.5	843.3	660.0
12.5°	5012.1	4383.1	3720.3	3071.6	2476.4	1991.3	1624.6	1331.3	1074.6	851.8	668.5
10°	5091.1	4459.3	3793.6	3130.8	2521.6	2019.5	1644.4	1348.2	1085.9	860.3	676.9
7.5°	5150.3	4515.7	3847.2	3181.6	2558.2	2039.2	1661.3	1359.5	1097.2	865.9	691.0
5°	5195.4	4563.6	3889.5	3215.4	2586.4	2067.4	1681.0	1373.6	1108.5	871.5	691.0
2.5°	5229.3	4603.1	3923.4	3243.6	2609.0	2061.8	1681.0	1370.8	1108.5	871.5	688.2
0°	5223.6	4605.9	3920.5	3243.6	2609.0	2056.2	1681.0	1368.0	1108.5	871.5	688.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.7	14.1	5.6	0.0
85°	42.3	28.2	14.1	0.0
82.5°	62.1	39.5	19.7	0.0
80°	81.8	53.6	25.4	0.0
77.5°	104.4	67.7	33.8	0.0
75°	124.1	79.0	39.5	0.0
72.5°	143.8	93.1	45.1	0.0
70°	160.8	104.4	50.8	0.0
67.5°	177.7	118.5	59.2	0.0
65°	191.8	129.7	64.9	0.0
62.5°	203.1	143.8	70.5	0.0
60°	217.2	155.1	76.2	0.0
57.5°	228.5	163.6	81.8	0.0
55°	239.7	169.2	87.4	0.0
52.5°	251.0	177.7	93.1	0.0
50°	262.3	186.2	98.7	0.0
47.5°	273.6	191.8	101.5	0.0
45°	290.5	200.3	107.2	0.0
42.5°	304.6	205.9	112.8	0.0
40°	318.7	211.5	115.6	0.0
37.5°	332.8	217.2	121.3	0.0
35°	346.9	222.8	124.1	0.0
32.5°	358.2	228.5	126.9	0.0
30°	369.5	234.1	129.7	0.0
27.5°	380.8	236.9	132.6	0.0
25°	389.2	242.6	135.4	0.0
22.5°	397.7	245.4	138.2	0.0
20°	403.3	248.2	141.0	0.0
17.5°	411.8	251.0	143.8	0.0
15°	414.6	253.8	149.5	0.0
12.5°	420.3	256.7	149.5	0.0
10°	423.1	259.5	149.5	0.0
7.5°	428.7	259.5	149.5	0.0
5°	425.9	259.5	149.5	0.0
2.5°	425.9	259.5	149.5	0.0
0°	423.1	259.5	149.5	0.0

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