

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: P628505

Luminaire Tested: **IFLD-S-SA3C-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628505  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15752.6 lumens	Max Intensity:	5134.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

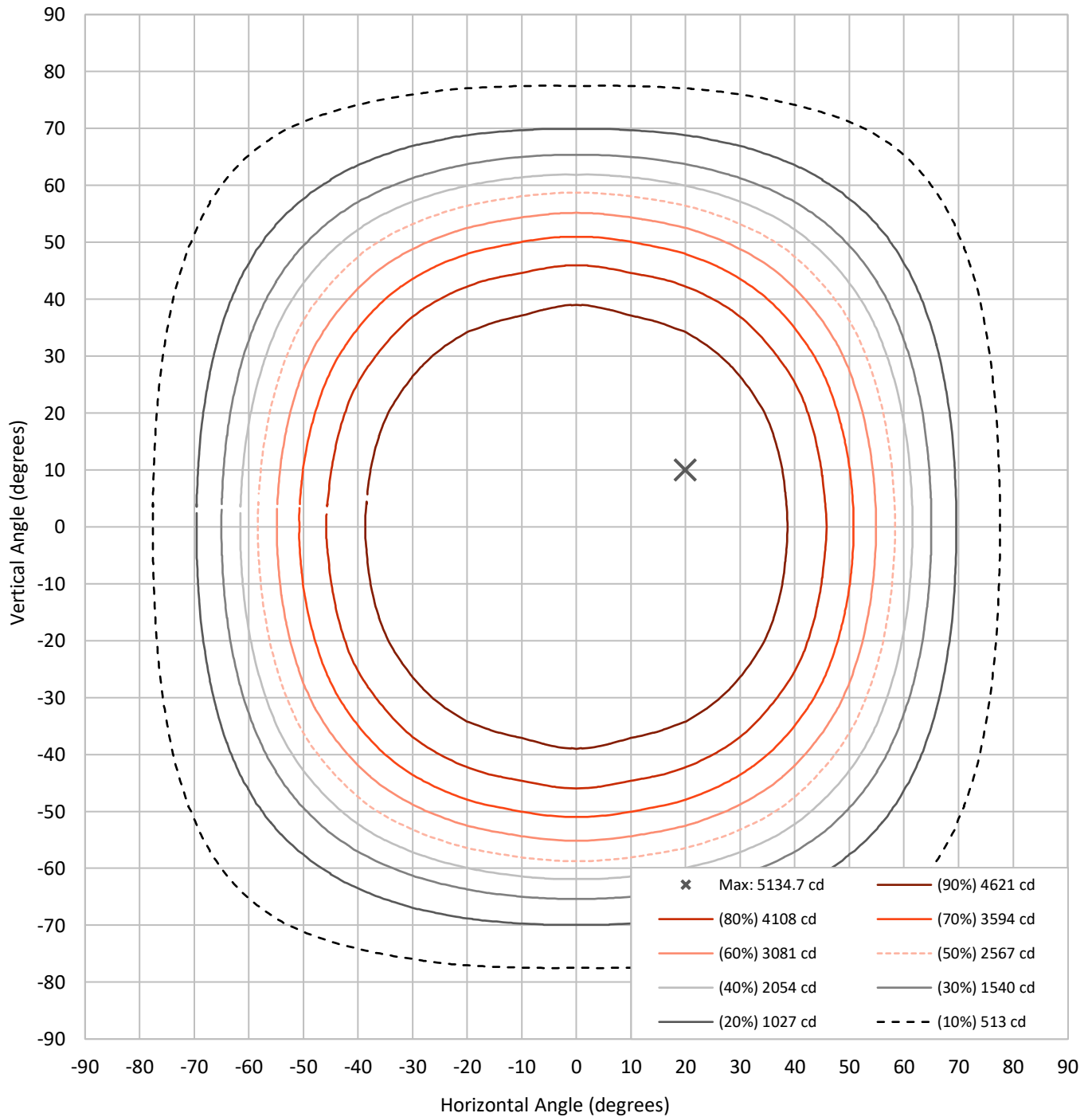
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9666.1 lumens	Field Lumens:	11588 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 160.8  
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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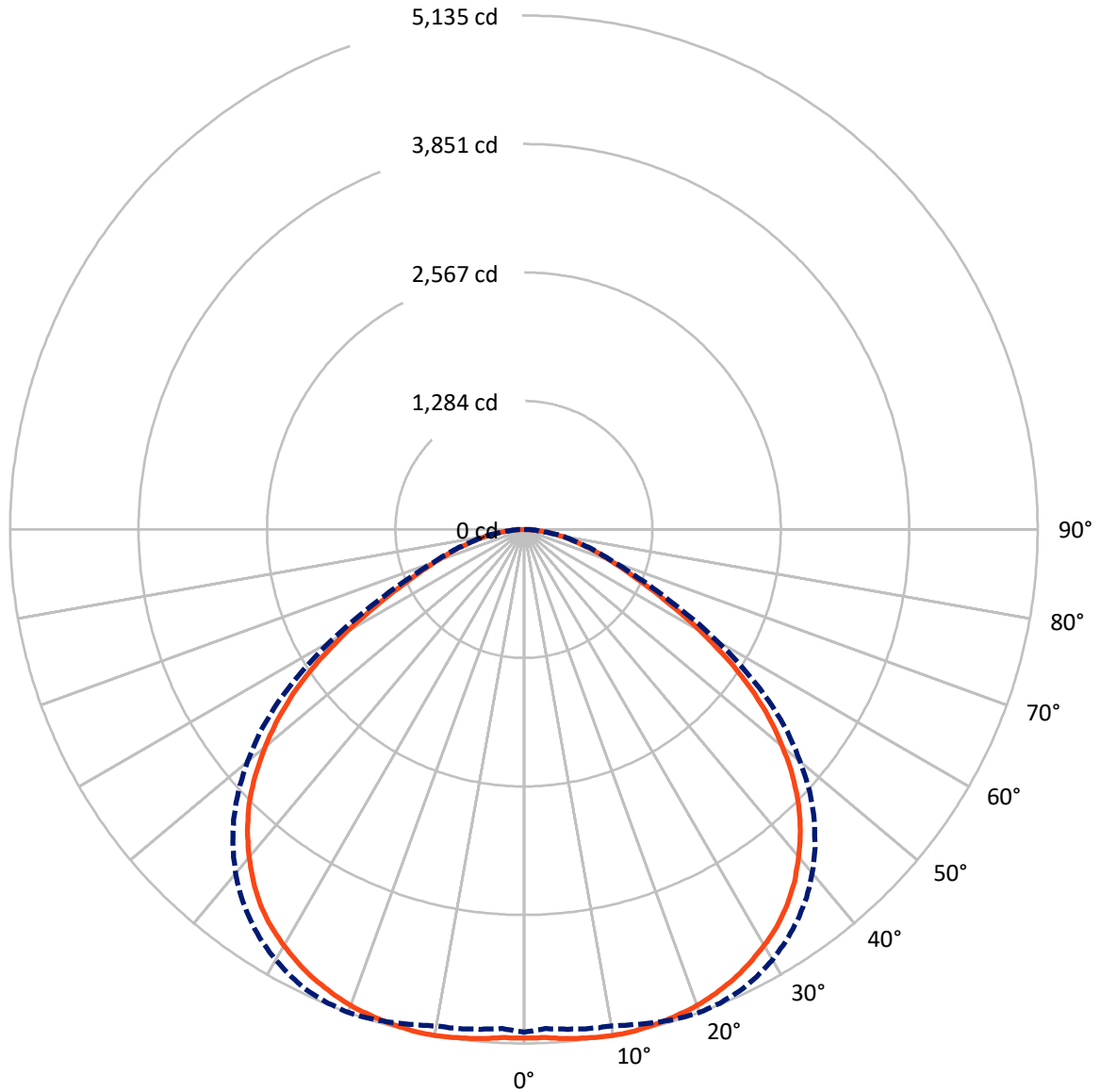
### Iso-Candela Plot





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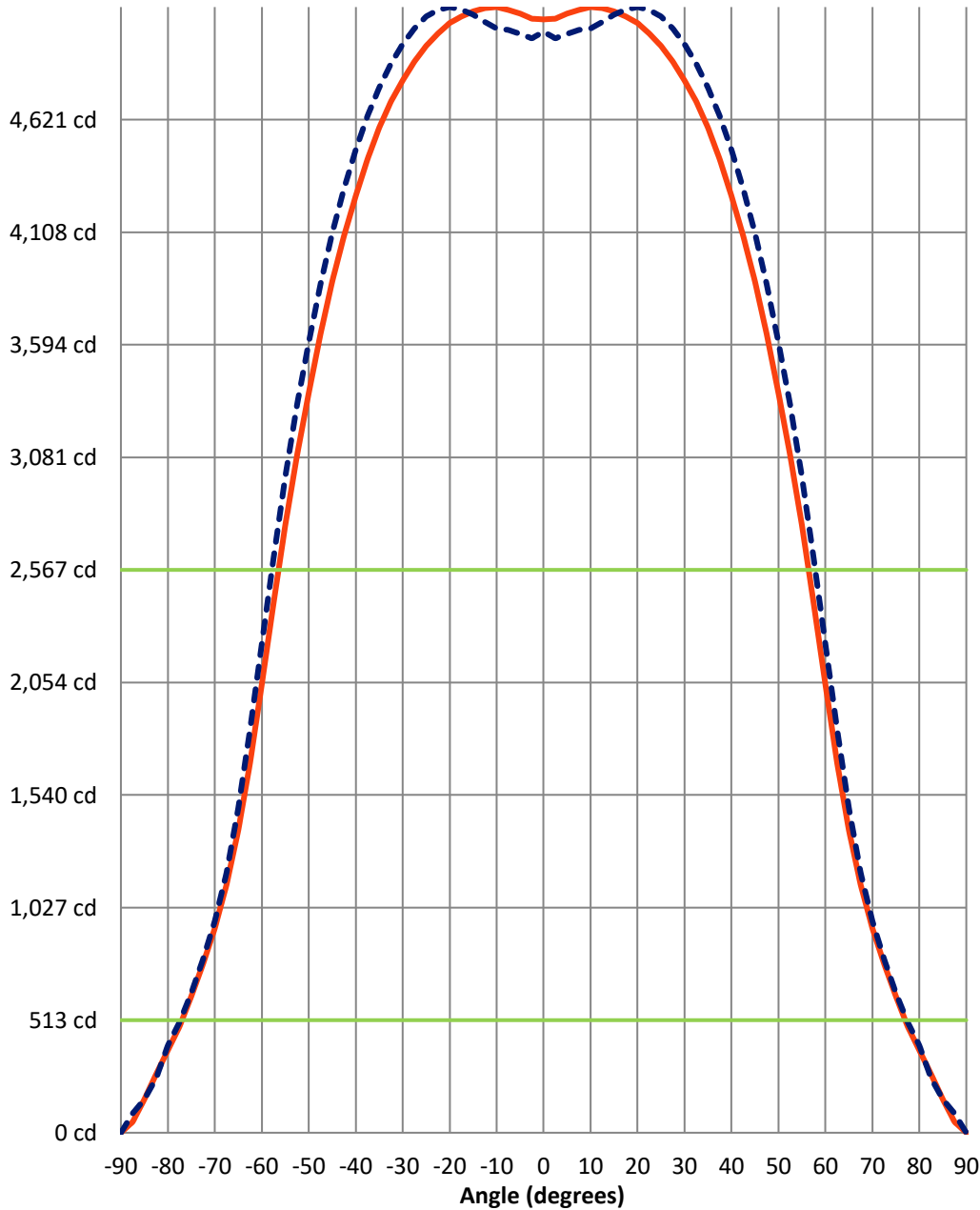
### Luminous Intensity Polar Plot



— 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: 9666.1  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 11588  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4164.6  
 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°	41.4	44.8	46.4	48.1	49.7	51.4	53.0	51.4	49.7	49.7	48.1
85°	111.0	114.4	116.0	127.6	139.2	145.9	154.1	152.5	152.5	150.8	149.2
82.5°	222.1	232.0	240.3	251.9	258.6	268.5	275.1	270.2	266.8	260.2	255.2
80°	394.5	397.8	399.4	401.1	392.8	391.2	387.8	382.9	376.2	367.9	359.7
77.5°	502.2	505.5	508.8	505.5	503.9	502.2	497.2	492.3	485.6	479.0	469.1
75°	664.6	664.6	664.6	659.7	656.3	651.4	643.1	634.8	623.2	609.9	595.0
72.5°	837.0	835.3	833.7	823.7	815.5	805.5	793.9	784.0	770.7	755.8	735.9
70°	1017.7	1021.0	1022.6	1009.4	999.4	986.2	971.3	953.0	933.1	911.6	883.4
67.5°	1266.3	1263.0	1259.6	1241.4	1228.2	1209.9	1188.4	1161.9	1132.0	1098.9	1059.1
65°	1574.6	1579.5	1569.6	1551.4	1526.5	1496.7	1463.5	1425.4	1380.6	1330.9	1274.6
62.5°	1947.5	1955.8	1944.2	1921.0	1889.5	1849.7	1803.3	1748.6	1687.3	1617.6	1548.0
60°	2371.8	2370.1	2348.6	2317.1	2275.6	2225.9	2174.5	2114.9	2045.3	1964.1	1879.5
57.5°	2761.3	2758.0	2731.4	2699.9	2658.5	2605.5	2550.8	2487.8	2414.9	2328.7	2230.9
55°	3111.0	3107.7	3081.2	3048.0	3004.9	2951.9	2902.2	2842.5	2771.2	2680.1	2575.6
52.5°	3420.9	3422.6	3399.4	3362.9	3316.5	3265.1	3217.1	3157.4	3089.4	2998.3	2897.2
50°	3706.0	3704.4	3679.5	3646.3	3603.2	3553.5	3505.5	3445.8	3374.5	3286.7	3188.9
47.5°	3971.2	3967.9	3939.7	3903.2	3858.5	3815.4	3770.6	3717.6	3643.0	3555.2	3457.4
45°	4193.3	4186.7	4158.5	4123.7	4080.6	4042.5	4002.7	3962.9	3883.4	3802.1	3709.3
42.5°	4383.9	4382.2	4354.1	4319.3	4276.2	4243.0	4206.6	4156.8	4090.5	4015.9	3924.8
40°	4566.2	4553.0	4524.8	4491.6	4451.9	4423.7	4387.2	4337.5	4272.8	4199.9	4112.1
37.5°	4702.1	4703.8	4673.9	4637.5	4602.7	4576.2	4543.0	4496.6	4440.2	4369.0	4281.1
35°	4831.4	4823.1	4798.3	4766.8	4735.3	4705.4	4670.6	4630.9	4584.4	4518.1	4435.3
32.5°	4915.9	4927.5	4897.7	4864.6	4846.3	4823.1	4786.7	4745.2	4703.8	4637.5	4562.9
30°	5008.7	4998.8	4975.6	4947.4	4934.2	4919.2	4887.8	4848.0	4799.9	4740.2	4670.6
27.5°	5073.4	5068.4	5040.2	5013.7	5007.1	4993.8	4969.0	4934.2	4886.1	4828.1	4763.4
25°	5101.6	5104.9	5078.4	5063.4	5063.4	5055.2	5035.3	5005.4	4957.4	4904.3	4841.3
22.5°	5114.8	5111.5	5093.3	5090.0	5098.2	5091.6	5083.3	5056.8	5013.7	4970.6	4917.6
20°	5123.1	5099.9	5083.3	5096.6	5106.5	5104.9	5098.2	5081.7	5061.8	5025.3	4978.9
17.5°	5104.9	5090.0	5070.1	5090.0	5111.5	5113.2	5106.5	5096.6	5091.6	5068.4	5027.0
15°	5060.1	5048.5	5051.8	5071.7	5096.6	5104.9	5109.8	5121.5	5114.8	5096.6	5060.1
12.5°	5030.3	5015.4	5030.3	5050.2	5063.4	5068.4	5108.2	5129.7	5129.7	5113.2	5090.0
10°	5022.0	4992.2	5012.1	5030.3	5036.9	5066.8	5099.9	5123.1	5134.7	5121.5	5091.6
7.5°	5005.4	4985.5	4993.8	5002.1	5040.2	5061.8	5080.0	5104.9	5121.5	5119.8	5093.3
5°	4997.1	4972.3	4975.6	5010.4	5036.9	5051.8	5058.5	5080.0	5104.9	5109.8	5090.0
2.5°	4975.6	4964.0	4988.9	4992.2	5012.1	5023.7	5030.3	5050.2	5081.7	5093.3	5085.0
0°	4964.0	4947.4	4930.8	4944.1	4977.3	5002.1	5012.1	5041.9	5078.4	5090.0	5071.7



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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°	46.4	44.8	43.1	41.4	43.1	43.1	43.1	41.4	43.1	41.4	41.4
85°	144.2	137.6	132.6	126.0	119.3	114.4	107.7	101.1	99.4	97.8	94.5
82.5°	248.6	240.3	232.0	222.1	212.2	200.5	188.9	175.7	172.4	169.1	164.1
80°	349.7	338.1	326.5	314.9	305.0	293.4	280.1	265.2	255.2	247.0	237.0
77.5°	455.8	439.2	422.6	402.8	391.2	379.6	366.3	351.4	336.5	323.2	308.3
75°	576.8	558.6	542.0	522.1	500.5	479.0	457.5	437.6	416.0	396.1	376.2
72.5°	711.0	684.5	658.0	633.1	606.6	580.1	551.9	525.4	498.9	472.4	444.2
70°	851.9	818.8	785.6	752.5	717.7	682.9	649.7	616.6	583.4	548.6	517.1
67.5°	1017.7	979.5	936.4	890.0	838.7	793.9	750.8	711.0	671.3	631.5	591.7
65°	1224.8	1171.8	1113.8	1050.8	991.1	931.5	868.5	808.8	762.4	716.0	671.3
62.5°	1480.1	1405.5	1324.3	1243.1	1170.1	1092.2	1019.3	941.4	868.5	802.2	747.5
60°	1785.0	1683.9	1584.5	1480.1	1379.0	1272.9	1180.1	1084.0	992.8	911.6	832.0
57.5°	2121.5	2003.8	1884.5	1756.9	1619.3	1495.0	1369.0	1243.1	1135.3	1027.6	938.1
55°	2462.9	2338.6	2204.4	2060.2	1909.4	1750.2	1579.5	1438.6	1291.1	1165.2	1049.2
52.5°	2787.8	2658.5	2519.3	2386.7	2206.0	2023.7	1836.4	1650.8	1478.4	1317.7	1176.8
50°	3077.8	2951.9	2817.6	2663.5	2496.1	2302.2	2093.3	1884.5	1680.6	1491.7	1316.0
47.5°	3343.0	3220.4	3086.1	2932.0	2779.5	2564.0	2353.5	2123.2	1896.1	1679.0	1473.5
45°	3591.6	3467.3	3328.1	3180.6	3004.9	2812.7	2595.5	2363.5	2119.8	1876.2	1639.2
42.5°	3817.1	3692.7	3551.9	3399.4	3225.4	3034.8	2824.3	2590.6	2345.3	2080.1	1819.9
40°	4014.3	3893.3	3757.4	3598.3	3435.8	3235.3	3028.1	2806.0	2552.4	2285.6	1998.9
37.5°	4186.7	4074.0	3939.7	3782.2	3609.9	3430.9	3217.1	2995.0	2766.2	2476.2	2182.8
35°	4339.1	4234.7	4097.2	3948.0	3778.9	3590.0	3389.4	3172.3	2925.4	2653.5	2368.5
32.5°	4471.7	4365.7	4239.7	4090.5	3926.4	3749.1	3543.6	3324.8	3091.1	2814.3	2504.4
30°	4584.4	4481.7	4362.3	4221.5	4064.0	3888.3	3687.8	3467.3	3228.7	2953.5	2646.9
27.5°	4682.2	4584.4	4468.4	4337.5	4186.7	4017.6	3815.4	3593.3	3349.7	3084.5	2777.8
25°	4766.8	4672.3	4564.6	4440.2	4291.1	4125.3	3934.7	3702.7	3459.1	3192.2	2888.9
22.5°	4843.0	4751.8	4644.1	4523.1	4387.2	4221.5	4029.2	3798.8	3551.9	3288.3	2990.0
20°	4911.0	4826.4	4720.4	4596.0	4460.1	4292.7	4102.1	3883.4	3634.7	3376.2	3081.2
17.5°	4965.7	4891.1	4785.0	4654.1	4518.1	4355.7	4170.1	3969.5	3706.0	3450.8	3157.4
15°	5003.8	4930.8	4834.7	4702.1	4569.5	4408.8	4223.1	4015.9	3770.6	3510.4	3220.4
12.5°	5030.3	4952.4	4862.9	4740.2	4607.6	4448.5	4267.9	4064.0	3825.3	3563.5	3275.1
10°	5036.9	4965.7	4876.2	4766.8	4637.5	4483.3	4306.0	4103.8	3870.1	3604.9	3319.8
7.5°	5040.2	4972.3	4891.1	4786.7	4659.0	4509.9	4334.2	4135.3	3903.2	3639.7	3353.0
5°	5038.6	4973.9	4901.0	4799.9	4672.3	4524.8	4352.4	4156.8	3926.4	3662.9	3377.8
2.5°	5033.6	4975.6	4907.6	4809.9	4687.2	4541.4	4370.6	4181.7	3951.3	3682.8	3397.7
0°	5046.9	4997.1	4911.0	4806.5	4690.5	4541.4	4369.0	4185.0	3954.6	3681.1	3396.1





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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°	41.4	39.8	39.8	38.1	36.5	34.8	31.5	29.8	26.5	21.5	16.6
85°	89.5	84.5	79.6	76.2	72.9	69.6	64.6	59.7	53.0	43.1	33.1
82.5°	157.5	147.5	137.6	126.0	116.0	106.1	97.8	89.5	79.6	64.6	49.7
80°	225.4	210.5	195.6	179.0	164.1	147.5	132.6	119.3	106.1	86.2	66.3
77.5°	293.4	273.5	251.9	232.0	210.5	188.9	167.4	149.2	129.3	106.1	82.9
75°	356.3	333.1	313.3	285.1	258.6	230.4	202.2	177.3	152.5	124.3	99.4
72.5°	419.3	389.5	361.3	334.8	305.0	270.2	238.7	207.2	175.7	142.5	112.7
70°	482.3	445.8	411.0	379.6	346.4	311.6	273.5	237.0	198.9	159.1	124.3
67.5°	547.0	505.5	465.7	426.0	387.8	348.1	308.3	266.8	222.1	175.7	137.6
65°	618.2	566.8	518.8	474.0	429.3	386.2	341.4	296.7	247.0	193.9	149.2
62.5°	689.5	633.1	576.8	520.4	470.7	422.6	374.6	324.9	270.2	213.8	160.8
60°	765.7	701.1	636.5	573.5	512.1	459.1	406.1	353.0	295.0	232.0	172.4
57.5°	850.3	772.4	699.4	628.2	558.6	495.6	437.6	381.2	316.6	250.3	185.6
55°	946.4	850.3	764.1	684.5	608.3	532.0	469.1	411.0	341.4	268.5	200.5
52.5°	1047.5	936.4	832.0	742.5	661.3	575.1	498.9	434.2	366.3	286.7	213.8
50°	1165.2	1024.3	908.3	798.9	707.7	618.2	530.4	460.8	391.2	308.3	227.1
47.5°	1286.2	1130.4	984.5	865.2	757.4	659.7	566.8	484.0	414.4	328.2	240.3
45°	1427.0	1231.5	1070.7	929.8	805.5	702.7	603.3	508.8	434.2	348.1	253.6
42.5°	1563.0	1350.8	1160.2	1001.1	860.2	744.2	636.5	535.3	454.1	367.9	265.2
40°	1723.7	1470.1	1246.4	1069.0	914.9	784.0	669.6	563.5	472.4	386.2	276.8
37.5°	1877.9	1591.1	1350.8	1143.6	967.9	823.7	702.7	590.0	488.9	404.4	291.7
35°	2030.3	1725.4	1450.2	1213.2	1022.6	868.5	735.9	614.9	505.5	419.3	305.0
32.5°	2176.2	1851.3	1551.4	1291.1	1082.3	909.9	765.7	638.1	522.1	432.6	318.2
30°	2312.1	1970.7	1650.8	1370.7	1137.0	948.0	793.9	661.3	542.0	444.2	331.5
27.5°	2436.4	2086.7	1750.2	1445.3	1188.4	982.9	823.7	682.9	558.6	455.8	343.1
25°	2549.1	2191.1	1841.4	1513.2	1234.8	1021.0	851.9	704.4	573.5	465.7	353.0
22.5°	2655.2	2287.3	1924.3	1581.2	1291.1	1059.1	878.4	724.3	588.4	475.7	363.0
20°	2748.0	2375.1	2003.8	1649.1	1340.9	1093.9	901.6	742.5	601.6	482.3	372.9
17.5°	2822.6	2453.0	2075.1	1708.8	1384.0	1123.7	921.5	759.1	613.2	490.6	379.6
15°	2888.9	2519.3	2134.8	1760.2	1422.1	1148.6	939.8	772.4	623.2	495.6	387.8
12.5°	2945.2	2575.6	2186.1	1804.9	1455.2	1170.1	954.7	782.3	631.5	500.5	392.8
10°	2991.7	2620.4	2229.2	1839.7	1481.7	1186.7	966.3	792.3	638.1	505.5	397.8
7.5°	3026.5	2653.5	2260.7	1869.6	1503.3	1198.3	976.2	798.9	644.7	508.8	406.1
5°	3053.0	2681.7	2285.6	1889.5	1519.9	1214.9	987.8	807.2	651.4	512.1	406.1
2.5°	3072.9	2704.9	2305.5	1906.0	1533.1	1211.6	987.8	805.5	651.4	512.1	404.4
0°	3069.6	2706.6	2303.8	1906.0	1533.1	1208.3	987.8	803.9	651.4	512.1	404.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.6	8.3	3.3	0.0
85°	24.9	16.6	8.3	0.0
82.5°	36.5	23.2	11.6	0.0
80°	48.1	31.5	14.9	0.0
77.5°	61.3	39.8	19.9	0.0
75°	72.9	46.4	23.2	0.0
72.5°	84.5	54.7	26.5	0.0
70°	94.5	61.3	29.8	0.0
67.5°	104.4	69.6	34.8	0.0
65°	112.7	76.2	38.1	0.0
62.5°	119.3	84.5	41.4	0.0
60°	127.6	91.2	44.8	0.0
57.5°	134.3	96.1	48.1	0.0
55°	140.9	99.4	51.4	0.0
52.5°	147.5	104.4	54.7	0.0
50°	154.1	109.4	58.0	0.0
47.5°	160.8	112.7	59.7	0.0
45°	170.7	117.7	63.0	0.0
42.5°	179.0	121.0	66.3	0.0
40°	187.3	124.3	68.0	0.0
37.5°	195.6	127.6	71.3	0.0
35°	203.9	130.9	72.9	0.0
32.5°	210.5	134.3	74.6	0.0
30°	217.1	137.6	76.2	0.0
27.5°	223.8	139.2	77.9	0.0
25°	228.7	142.5	79.6	0.0
22.5°	233.7	144.2	81.2	0.0
20°	237.0	145.9	82.9	0.0
17.5°	242.0	147.5	84.5	0.0
15°	243.6	149.2	87.8	0.0
12.5°	247.0	150.8	87.8	0.0
10°	248.6	152.5	87.8	0.0
7.5°	251.9	152.5	87.8	0.0
5°	250.3	152.5	87.8	0.0
2.5°	250.3	152.5	87.8	0.0
0°	248.6	152.5	87.8	0.0

(END OF REPORT)