

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: P628185

Luminaire Tested: **IFLD-S-SA3B-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628185
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

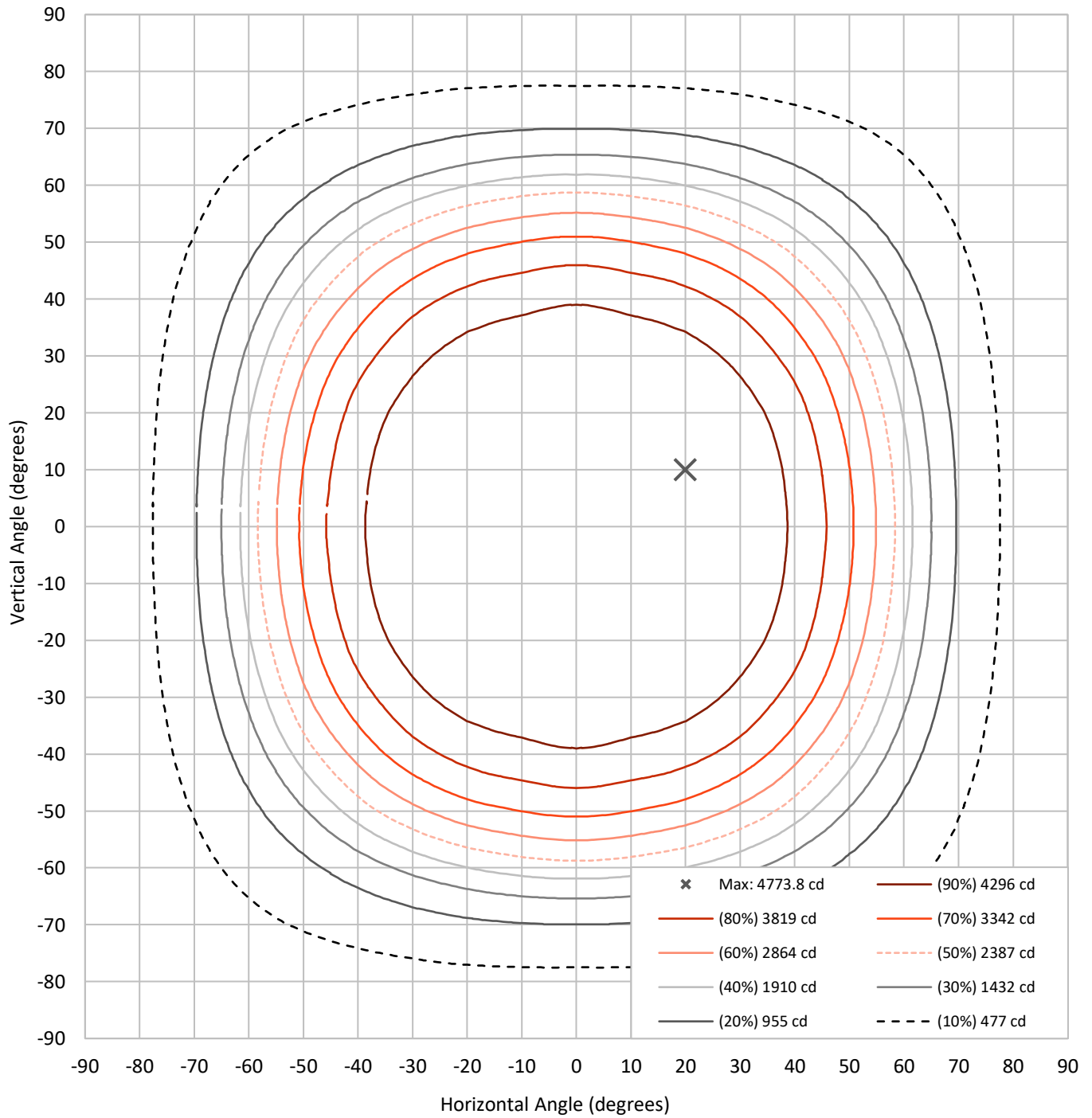
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14645.5 lumens	Max Intensity:	4773.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	119.7 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:	8986.8 lumens	Field Lumens:	10773.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	122.4		
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		



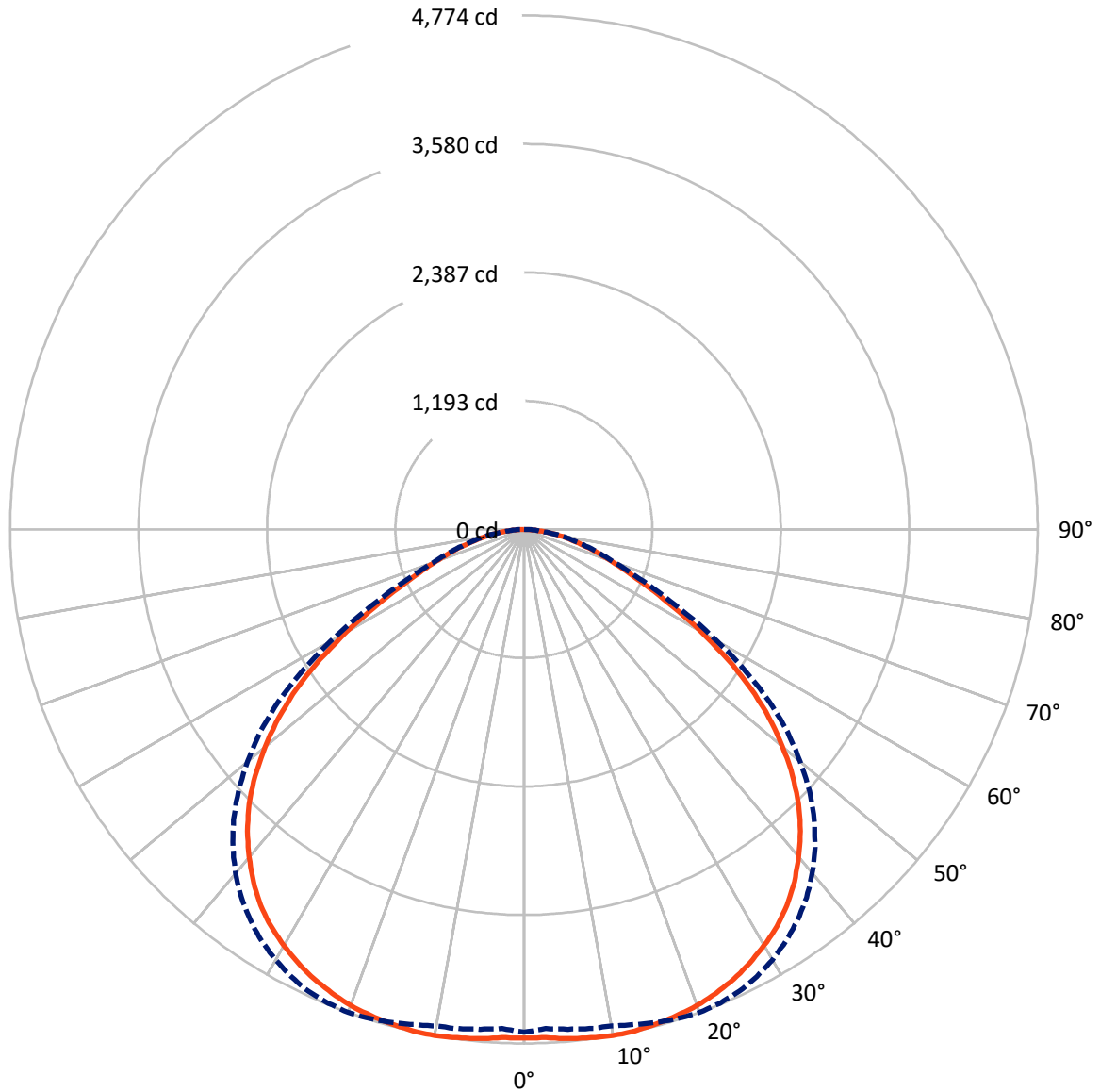
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Iso-Candela Plot



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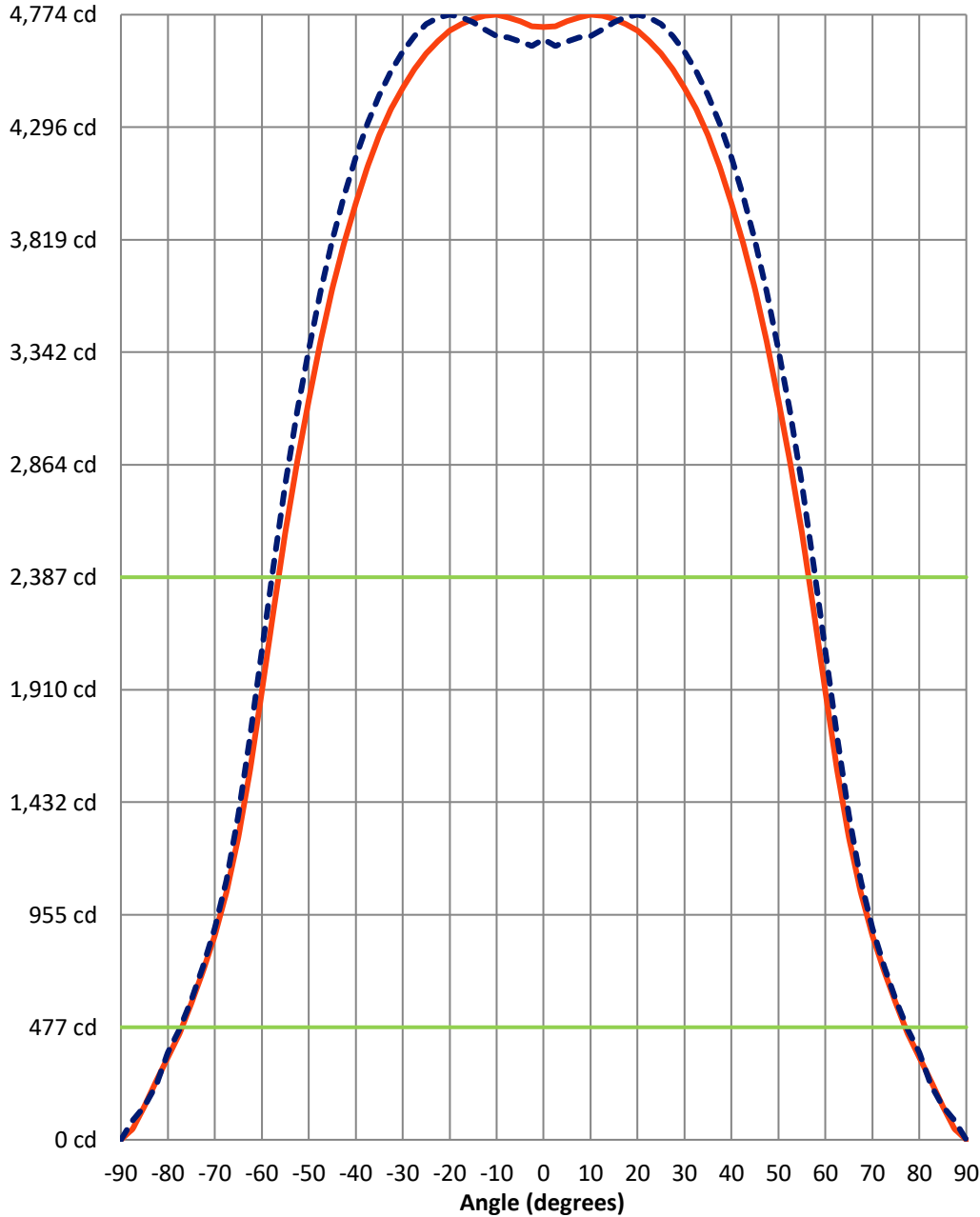
Luminous Intensity Polar Plot



— 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: 8986.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10773.6
 Efficiency: 73.6%

Spill:
 Lumens: 3871.9
 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°	38.5	41.6	43.1	44.7	46.2	47.8	49.3	47.8	46.2	46.2	44.7
85°	103.2	106.3	107.9	118.7	129.4	135.6	143.3	141.8	141.8	140.2	138.7
82.5°	206.5	215.7	223.4	234.2	240.4	249.6	255.8	251.2	248.1	241.9	237.3
80°	366.7	369.8	371.4	372.9	365.2	363.7	360.6	356.0	349.8	342.1	334.4
77.5°	466.9	470.0	473.1	470.0	468.4	466.9	462.3	457.7	451.5	445.3	436.1
75°	617.9	617.9	617.9	613.3	610.2	605.6	597.9	590.2	579.4	567.1	553.2
72.5°	778.2	776.6	775.1	765.8	758.1	748.9	738.1	728.9	716.5	702.7	684.2
70°	946.1	949.2	950.8	938.4	929.2	916.9	903.0	886.0	867.6	847.5	821.3
67.5°	1177.3	1174.2	1171.1	1154.2	1141.8	1124.9	1104.9	1080.2	1052.5	1021.6	984.7
65°	1463.9	1468.5	1459.3	1442.3	1419.2	1391.5	1360.7	1325.2	1283.6	1237.4	1185.0
62.5°	1810.6	1818.3	1807.5	1786.0	1756.7	1719.7	1676.5	1625.7	1568.7	1504.0	1439.2
60°	2205.1	2203.5	2183.5	2154.2	2115.7	2069.5	2021.7	1966.2	1901.5	1826.0	1747.4
57.5°	2567.2	2564.1	2539.5	2510.2	2471.7	2422.4	2371.5	2313.0	2245.2	2165.0	2074.1
55°	2892.3	2889.3	2864.6	2833.8	2793.7	2744.4	2698.2	2642.7	2576.5	2491.7	2394.6
52.5°	3180.5	3182.0	3160.5	3126.6	3083.4	3035.7	2991.0	2935.5	2872.3	2787.6	2693.6
50°	3445.5	3444.0	3420.9	3390.1	3350.0	3303.8	3259.1	3203.6	3137.4	3055.7	2964.8
47.5°	3692.1	3689.0	3662.8	3628.9	3587.3	3547.2	3505.6	3456.3	3387.0	3305.3	3214.4
45°	3898.6	3892.4	3866.2	3833.9	3793.8	3758.4	3721.4	3684.4	3610.4	3534.9	3448.6
42.5°	4075.8	4074.2	4048.1	4015.7	3975.6	3944.8	3910.9	3864.7	3803.0	3733.7	3648.9
40°	4245.3	4233.0	4206.8	4176.0	4139.0	4112.8	4078.9	4032.6	3972.5	3904.7	3823.1
37.5°	4371.7	4373.2	4345.5	4311.6	4279.2	4254.5	4223.7	4180.6	4128.2	4061.9	3980.3
35°	4491.8	4484.1	4461.0	4431.7	4402.5	4374.7	4342.4	4305.4	4262.2	4200.6	4123.6
32.5°	4570.4	4581.2	4553.5	4522.7	4505.7	4484.1	4450.2	4411.7	4373.2	4311.6	4242.2
30°	4656.7	4647.5	4625.9	4599.7	4587.4	4573.5	4544.2	4507.3	4462.6	4407.1	4342.4
27.5°	4716.8	4712.2	4686.0	4661.3	4655.2	4642.9	4619.7	4587.4	4542.7	4488.8	4428.7
25°	4743.0	4746.1	4721.4	4707.6	4707.6	4699.9	4681.4	4653.6	4609.0	4559.6	4501.1
22.5°	4755.3	4752.3	4735.3	4732.2	4739.9	4733.8	4726.1	4701.4	4661.3	4621.3	4572.0
20°	4763.1	4741.5	4726.1	4738.4	4747.6	4746.1	4739.9	4724.5	4706.0	4672.1	4629.0
17.5°	4746.1	4732.2	4713.7	4732.2	4752.3	4753.8	4747.6	4738.4	4733.8	4712.2	4673.7
15°	4704.5	4693.7	4696.8	4715.3	4738.4	4746.1	4750.7	4761.5	4755.3	4738.4	4704.5
12.5°	4676.8	4662.9	4676.8	4695.2	4707.6	4712.2	4749.2	4769.2	4769.2	4753.8	4732.2
10°	4669.1	4641.3	4659.8	4676.8	4682.9	4710.7	4741.5	4763.1	4773.8	4761.5	4733.8
7.5°	4653.6	4635.2	4642.9	4650.6	4686.0	4706.0	4723.0	4746.1	4761.5	4760.0	4735.3
5°	4645.9	4622.8	4625.9	4658.3	4682.9	4696.8	4703.0	4723.0	4746.1	4750.7	4732.2
2.5°	4625.9	4615.1	4638.2	4641.3	4659.8	4670.6	4676.8	4695.2	4724.5	4735.3	4727.6
0°	4615.1	4599.7	4584.3	4596.6	4627.4	4650.6	4659.8	4687.5	4721.4	4732.2	4715.3



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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°	43.1	41.6	40.1	38.5	40.1	40.1	40.1	38.5	40.1	38.5	38.5
85°	134.1	127.9	123.3	117.1	110.9	106.3	100.2	94.0	92.5	90.9	87.8
82.5°	231.1	223.4	215.7	206.5	197.2	186.5	175.7	163.3	160.3	157.2	152.6
80°	325.1	314.4	303.6	292.8	283.5	272.7	260.4	246.6	237.3	229.6	220.4
77.5°	423.8	408.3	392.9	374.4	363.7	352.9	340.5	326.7	312.8	300.5	286.6
75°	536.2	519.3	503.9	485.4	465.4	445.3	425.3	406.8	386.8	368.3	349.8
72.5°	661.1	636.4	611.8	588.6	564.0	539.3	513.1	488.5	463.8	439.2	413.0
70°	792.0	761.2	730.4	699.6	667.2	634.9	604.0	573.2	542.4	510.1	480.8
67.5°	946.1	910.7	870.6	827.5	779.7	738.1	698.0	661.1	624.1	587.1	550.1
65°	1138.8	1089.4	1035.5	977.0	921.5	866.0	807.5	752.0	708.8	665.7	624.1
62.5°	1376.1	1306.7	1231.2	1155.7	1087.9	1015.5	947.7	875.3	807.5	745.8	695.0
60°	1659.6	1565.6	1473.1	1376.1	1282.1	1183.4	1097.2	1007.8	923.0	847.5	773.6
57.5°	1972.4	1863.0	1752.1	1633.4	1505.5	1389.9	1272.8	1155.7	1055.5	955.4	872.2
55°	2289.8	2174.3	2049.5	1915.4	1775.2	1627.2	1468.5	1337.5	1200.4	1083.3	975.4
52.5°	2591.9	2471.7	2342.2	2219.0	2051.0	1881.5	1707.4	1534.8	1374.5	1225.0	1094.1
50°	2861.5	2744.4	2619.6	2476.3	2320.7	2140.4	1946.2	1752.1	1562.5	1386.8	1223.5
47.5°	3108.1	2994.0	2869.2	2725.9	2584.2	2383.8	2188.1	1973.9	1762.8	1561.0	1369.9
45°	3339.2	3223.6	3094.2	2957.1	2793.7	2615.0	2413.1	2197.4	1970.9	1744.3	1524.0
42.5°	3548.8	3433.2	3302.2	3160.5	2998.7	2821.5	2625.8	2408.5	2180.4	1933.9	1692.0
40°	3732.2	3619.7	3493.3	3345.4	3194.4	3007.9	2815.3	2608.8	2373.1	2125.0	1858.4
37.5°	3892.4	3787.6	3662.8	3516.4	3356.2	3189.7	2991.0	2784.5	2571.8	2302.2	2029.4
35°	4034.2	3937.1	3809.2	3670.5	3513.3	3337.7	3151.2	2949.4	2719.8	2467.0	2202.0
32.5°	4157.5	4058.8	3941.7	3803.0	3650.5	3485.6	3294.5	3091.1	2873.9	2616.5	2328.4
30°	4262.2	4166.7	4055.8	3924.8	3778.4	3615.0	3428.6	3223.6	3001.8	2746.0	2460.9
27.5°	4353.2	4262.2	4154.4	4032.6	3892.4	3735.2	3547.2	3340.8	3114.2	2867.7	2582.6
25°	4431.7	4343.9	4243.8	4128.2	3989.5	3835.4	3658.2	3442.5	3215.9	2967.9	2685.9
22.5°	4502.6	4417.9	4317.7	4205.2	4078.9	3924.8	3746.0	3531.8	3302.2	3057.2	2779.9
20°	4565.8	4487.2	4388.6	4273.0	4146.7	3991.0	3813.8	3610.4	3379.3	3138.9	2864.6
17.5°	4616.7	4547.3	4448.7	4327.0	4200.6	4049.6	3877.0	3690.6	3445.5	3208.2	2935.5
15°	4652.1	4584.3	4494.9	4371.7	4248.4	4098.9	3926.3	3733.7	3505.6	3263.7	2994.0
12.5°	4676.8	4604.3	4521.1	4407.1	4283.8	4135.9	3967.9	3778.4	3556.5	3313.0	3044.9
10°	4682.9	4616.7	4533.5	4431.7	4311.6	4168.2	4003.4	3815.4	3598.1	3351.5	3086.5
7.5°	4686.0	4622.8	4547.3	4450.2	4331.6	4192.9	4029.6	3844.6	3628.9	3383.9	3117.3
5°	4684.5	4624.4	4556.6	4462.6	4343.9	4206.8	4046.5	3864.7	3650.5	3405.5	3140.4
2.5°	4679.8	4625.9	4562.7	4471.8	4357.8	4222.2	4063.5	3887.8	3673.6	3424.0	3158.9
0°	4692.2	4645.9	4565.8	4468.7	4360.9	4222.2	4061.9	3890.9	3676.7	3422.4	3157.4



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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°	38.5	37.0	37.0	35.4	33.9	32.4	29.3	27.7	24.7	20.0	15.4
85°	83.2	78.6	74.0	70.9	67.8	64.7	60.1	55.5	49.3	40.1	30.8
82.5°	146.4	137.1	127.9	117.1	107.9	98.6	90.9	83.2	74.0	60.1	46.2
80°	209.6	195.7	181.8	166.4	152.6	137.1	123.3	110.9	98.6	80.1	61.6
77.5°	272.7	254.3	234.2	215.7	195.7	175.7	155.6	138.7	120.2	98.6	77.0
75°	331.3	309.7	291.2	265.0	240.4	214.2	188.0	164.9	141.8	115.6	92.5
72.5°	389.9	362.1	335.9	311.3	283.5	251.2	221.9	192.6	163.3	132.5	104.8
70°	448.4	414.5	382.2	352.9	322.1	289.7	254.3	220.4	184.9	147.9	115.6
67.5°	508.5	470.0	433.0	396.0	360.6	323.6	286.6	248.1	206.5	163.3	127.9
65°	574.8	527.0	482.3	440.7	399.1	359.0	317.4	275.8	229.6	180.3	138.7
62.5°	641.0	588.6	536.2	483.9	437.6	392.9	348.3	302.0	251.2	198.8	149.5
60°	711.9	651.8	591.7	533.2	476.2	426.8	377.5	328.2	274.3	215.7	160.3
57.5°	790.5	718.1	650.3	584.0	519.3	460.7	406.8	354.4	294.3	232.7	172.6
55°	879.9	790.5	710.4	636.4	565.5	494.6	436.1	382.2	317.4	249.6	186.5
52.5°	973.9	870.6	773.6	690.3	614.8	534.7	463.8	403.7	340.5	266.6	198.8
50°	1083.3	952.3	844.4	742.7	658.0	574.8	493.1	428.4	363.7	286.6	211.1
47.5°	1195.8	1050.9	915.3	804.4	704.2	613.3	527.0	450.0	385.2	305.1	223.4
45°	1326.8	1144.9	995.4	864.5	748.9	653.4	560.9	473.1	403.7	323.6	235.8
42.5°	1453.1	1255.9	1078.7	930.7	799.7	691.9	591.7	497.7	422.2	342.1	246.6
40°	1602.6	1366.8	1158.8	993.9	850.6	728.9	622.5	523.9	439.2	359.0	257.3
37.5°	1745.9	1479.3	1255.9	1063.2	899.9	765.8	653.4	548.6	454.6	376.0	271.2
35°	1887.7	1604.1	1348.3	1128.0	950.8	807.5	684.2	571.7	470.0	389.9	283.5
32.5°	2023.3	1721.2	1442.3	1200.4	1006.2	846.0	711.9	593.3	485.4	402.2	295.9
30°	2149.6	1832.2	1534.8	1274.4	1057.1	881.4	738.1	614.8	503.9	413.0	308.2
27.5°	2265.2	1940.0	1627.2	1343.7	1104.9	913.8	765.8	634.9	519.3	423.8	319.0
25°	2370.0	2037.1	1712.0	1406.9	1148.0	949.2	792.0	654.9	533.2	433.0	328.2
22.5°	2468.6	2126.5	1789.0	1470.1	1200.4	984.7	816.7	673.4	547.0	442.3	337.5
20°	2554.9	2208.2	1863.0	1533.2	1246.6	1017.0	838.3	690.3	559.4	448.4	346.7
17.5°	2624.2	2280.6	1929.3	1588.7	1286.7	1044.8	856.8	705.8	570.1	456.1	352.9
15°	2685.9	2342.2	1984.7	1636.5	1322.1	1067.9	873.7	718.1	579.4	460.7	360.6
12.5°	2738.3	2394.6	2032.5	1678.1	1352.9	1087.9	887.6	727.3	587.1	465.4	365.2
10°	2781.4	2436.2	2072.6	1710.4	1377.6	1103.3	898.4	736.6	593.3	470.0	369.8
7.5°	2813.8	2467.0	2101.8	1738.2	1397.6	1114.1	907.6	742.7	599.4	473.1	377.5
5°	2838.4	2493.2	2125.0	1756.7	1413.0	1129.5	918.4	750.4	605.6	476.2	377.5
2.5°	2856.9	2514.8	2143.4	1772.1	1425.4	1126.4	918.4	748.9	605.6	476.2	376.0
0°	2853.8	2516.4	2141.9	1772.1	1425.4	1123.3	918.4	747.4	605.6	476.2	376.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.8	7.7	3.1	0.0
85°	23.1	15.4	7.7	0.0
82.5°	33.9	21.6	10.8	0.0
80°	44.7	29.3	13.9	0.0
77.5°	57.0	37.0	18.5	0.0
75°	67.8	43.1	21.6	0.0
72.5°	78.6	50.9	24.7	0.0
70°	87.8	57.0	27.7	0.0
67.5°	97.1	64.7	32.4	0.0
65°	104.8	70.9	35.4	0.0
62.5°	110.9	78.6	38.5	0.0
60°	118.7	84.8	41.6	0.0
57.5°	124.8	89.4	44.7	0.0
55°	131.0	92.5	47.8	0.0
52.5°	137.1	97.1	50.9	0.0
50°	143.3	101.7	53.9	0.0
47.5°	149.5	104.8	55.5	0.0
45°	158.7	109.4	58.6	0.0
42.5°	166.4	112.5	61.6	0.0
40°	174.1	115.6	63.2	0.0
37.5°	181.8	118.7	66.3	0.0
35°	189.5	121.7	67.8	0.0
32.5°	195.7	124.8	69.3	0.0
30°	201.9	127.9	70.9	0.0
27.5°	208.0	129.4	72.4	0.0
25°	212.6	132.5	74.0	0.0
22.5°	217.3	134.1	75.5	0.0
20°	220.4	135.6	77.0	0.0
17.5°	225.0	137.1	78.6	0.0
15°	226.5	138.7	81.7	0.0
12.5°	229.6	140.2	81.7	0.0
10°	231.1	141.8	81.7	0.0
7.5°	234.2	141.8	81.7	0.0
5°	232.7	141.8	81.7	0.0
2.5°	232.7	141.8	81.7	0.0
0°	231.1	141.8	81.7	0.0

(END OF REPORT)