

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P598638

Luminaire Tested: **IFLD-L-SA7C-727-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598638
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7C-727-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 2700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

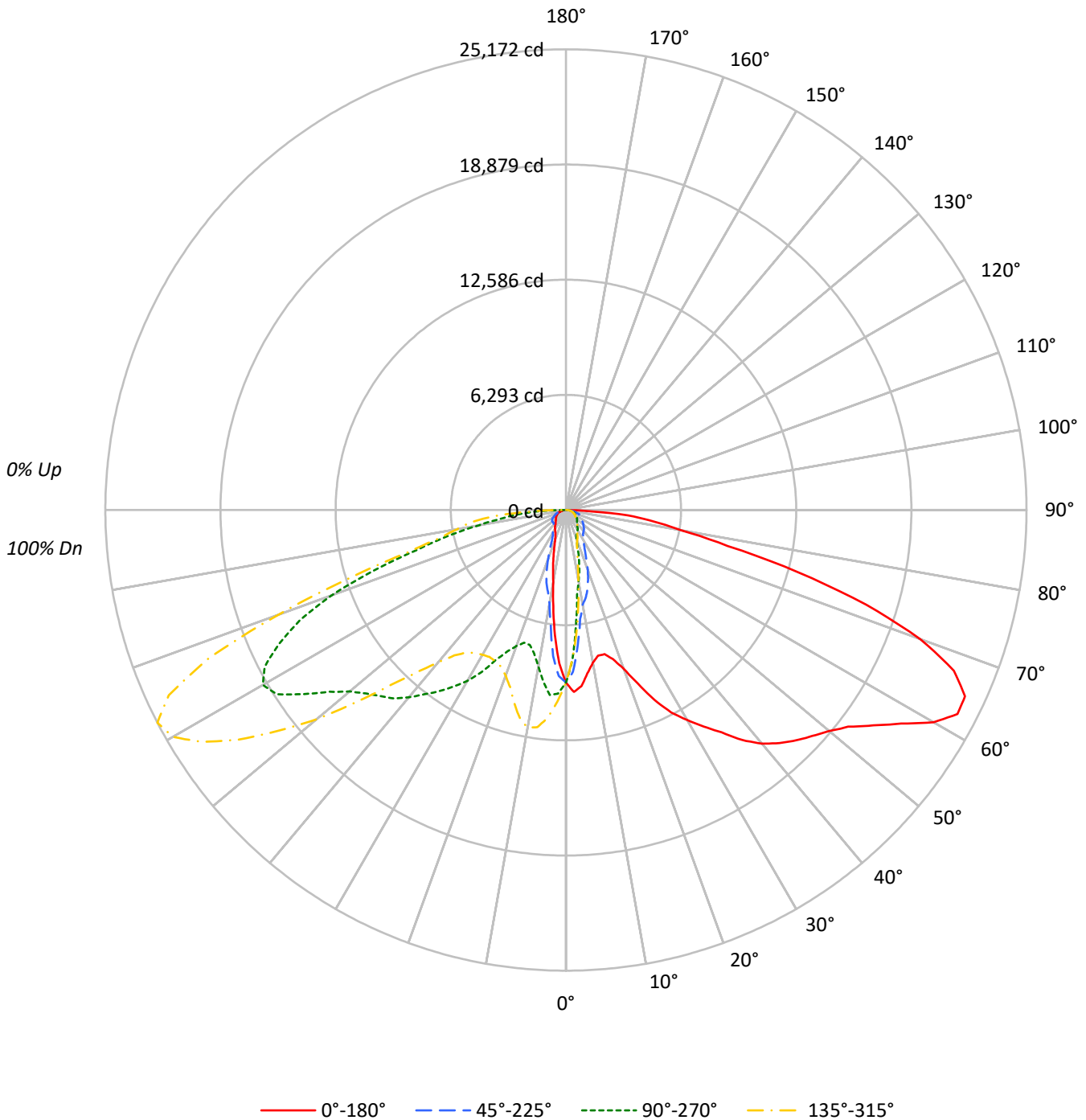
Lumens per Lamp: N/A
 Luminaire Lumens: 31534.3 lumens
 Efficiency: N/A
 Efficacy: 85.5 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 369
 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

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100		
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	79	77	77	77	77	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59	59	59	59	59	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46	46	46	46	46	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36	36	36	36	36	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30	30	30	30	30	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25	25	25	25	25	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21	21	21	21	21	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18	18	18	18	18	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16	16	16	16	16	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14	14	14	14	14	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	50698	50698	50698	50698
5°	52174	33927	37063	54811
10°	46288	21558	21774	47370
15°	45429	15290	14481	42488
20°	52818	9672	9747	45262
25°	67925	8305	8070	53510
30°	82317	7871	7379	66985
35°	97429	6934	6675	79400
40°	117068	6581	6117	93802
45°	135461	6527	5925	109353
50°	157300	6628	5965	129132
55°	192497	6808	6066	164521
60°	249652	6817	6391	205772
65°	306453	6888	6552	220262
70°	324277	7267	6851	214455
75°	272969	7681	6858	175030
80°	198315	8994	6952	151291
85°	210188	13036	5706	157237

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.0	2.3
10°-20°	1525.7	4.8
20°-30°	2198.7	7.0
30°-40°	3165.3	10.0
40°-50°	4496.1	14.3
50°-60°	6464.1	20.5
60°-70°	7468.2	23.7
70°-80°	4228.6	13.4
80°-90°	1258.5	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4453.5	14.1
0°-40°	7618.8	24.2
0°-60°	18579.0	58.9
0°-90°	31534.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31534.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9420	9420	9420	9420	9420	
5°	9657	6280	6860	10146	9657	876
15°	8153	2744	2599	7626	8153	2397
25°	11438	1398	1359	9011	11438	5309
35°	14829	1055	1016	12085	14829	9411
45°	17798	858	778	14367	17798	13781
55°	20515	726	646	17534	20515	18580
65°	24064	541	514	17296	24064	23076
75°	13127	369	330	8417	13127	13929
85°	3404	211	92	2546	3404	3390
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9
2.5°	9947.6	9934.4	9855.2	9604.6	9340.7	9090.0	8852.6	8601.9	8470.0	8311.6	8245.7
5°	9657.3	9630.9	9406.7	8852.6	8364.4	7836.7	7388.1	7031.9	6741.7	6451.4	6345.9
7.5°	8997.7	8958.1	8694.2	7929.0	7216.6	6530.6	5989.7	5527.9	5145.3	4973.8	4775.9
10°	8470.0	8404.0	8061.0	7216.6	6293.1	5607.1	5250.8	4934.2	4604.4	4327.3	4037.1
12.5°	8140.1	8061.0	7704.8	6715.3	5818.1	5303.6	4934.2	4578.0	4169.0	3826.0	3509.4
15°	8153.3	8061.0	7625.6	6583.3	5699.4	5039.8	4525.2	4037.1	3562.1	3179.5	2823.3
17.5°	8535.9	8417.2	7955.4	6768.1	5607.1	4696.7	4010.7	3377.4	2836.5	2427.5	2137.3
20°	9222.0	9142.8	8615.1	7045.1	5514.7	4327.3	3483.0	2717.8	2150.5	1833.8	1715.1
22.5°	10251.0	10158.7	9591.4	7467.3	5488.3	3997.5	2915.7	2137.3	1728.3	1596.4	1530.4
25°	11438.4	11266.9	10739.2	8179.7	5541.1	3694.1	2453.9	1767.9	1543.6	1451.2	1411.7
27.5°	12467.5	12361.9	11768.2	8852.6	5567.5	3456.6	2137.3	1609.6	1438.0	1358.9	1332.5
30°	13245.9	13206.3	12625.8	9591.4	5501.5	3166.3	1939.4	1543.6	1438.0	1358.9	1279.7
32.5°	14024.2	14037.4	13417.4	10158.7	5409.2	2915.7	1754.7	1372.1	1266.5	1213.8	1227.0
35°	14829.0	14895.0	14367.3	10712.8	5211.3	2823.3	1622.7	1279.7	1187.4	1108.2	1068.6
37.5°	15844.9	16016.4	15501.9	11332.9	5013.4	2744.2	1556.8	1213.8	1121.4	1055.4	1002.7
40°	16662.9	16979.5	16676.1	11913.4	4881.4	2651.8	1504.0	1147.8	1081.8	1002.7	963.1
42.5°	17269.7	17639.1	17533.6	12361.9	4881.4	2559.5	1451.2	1108.2	1055.4	963.1	910.3
45°	17797.5	18180.1	18166.9	12823.7	4987.0	2506.7	1385.3	1108.2	1029.1	936.7	883.9
47.5°	18272.4	18655.0	18786.9	13404.2	5158.5	2480.3	1306.1	1081.8	1029.1	923.5	844.4
50°	18786.9	19209.1	19604.9	14327.7	5369.6	2414.3	1253.3	1042.3	1042.3	910.3	818.0
52.5°	19446.6	19921.6	20647.2	15475.5	5580.7	2295.6	1174.2	1015.9	1042.3	897.1	791.6
55°	20515.2	20911.0	21860.9	16847.6	5844.5	2150.5	1108.2	949.9	989.5	857.6	752.0
57.5°	21715.8	22058.8	22850.4	17903.0	5923.7	1965.8	1015.9	883.9	949.9	818.0	699.2
60°	23193.4	23364.9	23364.9	18206.5	5659.8	1794.3	949.9	831.2	857.6	778.4	659.7
62.5°	24130.1	24130.1	23364.9	17652.3	5158.5	1649.1	897.1	778.4	752.0	725.6	620.1
65°	24064.2	23958.6	22824.0	16042.8	4578.0	1556.8	844.4	712.4	672.8	659.7	580.5
67.5°	22956.0	22771.3	21227.7	13773.6	3971.1	1517.2	791.6	646.5	620.1	593.7	527.7
70°	20607.6	20132.6	18232.8	11082.2	3377.4	1490.8	778.4	593.7	567.3	540.9	488.1
72.5°	17203.8	16596.9	14235.3	8522.7	2836.5	1398.5	738.8	527.7	514.5	488.1	435.4
75°	13127.1	12005.7	9934.4	6517.4	2203.2	1213.8	633.3	461.8	461.8	448.6	395.8
77.5°	9050.5	8470.0	6926.4	4815.5	1609.6	936.7	514.5	409.0	409.0	422.2	369.4
80°	6398.6	5857.7	4934.2	3456.6	1015.9	633.3	395.8	343.0	382.6	409.0	343.0
82.5°	4894.6	4498.8	3667.7	2519.9	593.7	435.4	303.4	277.1	329.8	356.2	290.2
85°	3403.8	2928.9	1860.2	1688.7	343.0	263.9	224.3	224.3	290.2	356.2	263.9
87.5°	963.1	409.0	118.7	501.3	145.1	105.5	79.2	52.8	79.2	79.2	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9
2.5°	8179.7	8100.6	8100.6	8074.2	8087.4	8100.6	8087.4	8179.7	8219.3	8272.1	8377.6
5°	6279.9	6385.5	6306.3	6385.5	6491.0	6649.3	6688.9	6807.6	6820.8	6913.2	6860.4
7.5°	4657.2	4644.0	4578.0	4670.4	4960.6	5184.9	5290.4	5356.4	5369.6	5369.6	5303.6
10°	3944.7	3826.0	3707.3	3641.3	3667.7	3905.2	3984.3	4023.9	3997.5	4037.1	3984.3
12.5°	3377.4	3271.9	3100.4	2981.6	2902.5	2968.4	3047.6	3087.2	3113.6	3179.5	3232.3
15°	2744.2	2638.6	2533.1	2467.1	2401.1	2348.4	2414.3	2453.9	2519.9	2572.7	2599.0
17.5°	2084.5	2031.7	1979.0	2018.5	2018.5	1992.2	2018.5	2031.7	2058.1	2097.7	2084.5
20°	1688.7	1675.5	1662.3	1728.3	1781.1	1781.1	1807.5	1767.9	1754.7	1715.1	1701.9
22.5°	1504.0	1504.0	1517.2	1570.0	1622.7	1649.1	1649.1	1583.2	1517.2	1490.8	1504.0
25°	1398.5	1398.5	1438.0	1451.2	1477.6	1477.6	1490.8	1424.9	1385.3	1345.7	1358.9
27.5°	1319.3	1319.3	1332.5	1332.5	1345.7	1345.7	1358.9	1332.5	1279.7	1266.5	1266.5
30°	1266.5	1266.5	1253.3	1253.3	1253.3	1253.3	1266.5	1227.0	1200.6	1187.4	1187.4
32.5°	1213.8	1200.6	1187.4	1187.4	1174.2	1174.2	1187.4	1147.8	1134.6	1134.6	1134.6
35°	1055.4	1042.3	1055.4	1081.8	1081.8	1095.0	1095.0	1081.8	1055.4	1029.1	1015.9
37.5°	989.5	976.3	976.3	976.3	1002.7	1015.9	1029.1	1002.7	963.1	923.5	923.5
40°	936.7	936.7	923.5	923.5	923.5	949.9	976.3	936.7	883.9	870.7	870.7
42.5°	897.1	883.9	870.7	857.6	844.4	883.9	910.3	857.6	831.2	831.2	831.2
45°	857.6	844.4	831.2	818.0	804.8	818.0	844.4	791.6	778.4	778.4	778.4
47.5°	818.0	804.8	778.4	765.2	752.0	752.0	778.4	738.8	725.6	738.8	738.8
50°	791.6	765.2	738.8	725.6	712.4	712.4	712.4	699.2	699.2	699.2	712.4
52.5°	765.2	738.8	699.2	686.0	672.8	672.8	672.8	672.8	659.7	672.8	686.0
55°	725.6	699.2	672.8	659.7	646.5	633.3	646.5	633.3	633.3	646.5	646.5
57.5°	672.8	646.5	620.1	620.1	606.9	606.9	620.1	606.9	606.9	620.1	620.1
60°	633.3	606.9	580.5	580.5	567.3	580.5	593.7	580.5	580.5	580.5	593.7
62.5°	580.5	567.3	540.9	540.9	540.9	540.9	554.1	540.9	554.1	554.1	554.1
65°	540.9	514.5	501.3	501.3	501.3	501.3	527.7	501.3	514.5	514.5	514.5
67.5°	501.3	475.0	461.8	461.8	461.8	461.8	488.1	461.8	475.0	488.1	475.0
70°	461.8	435.4	422.2	422.2	422.2	422.2	435.4	422.2	422.2	435.4	435.4
72.5°	409.0	395.8	382.6	382.6	369.4	382.6	395.8	382.6	382.6	382.6	382.6
75°	369.4	356.2	356.2	343.0	343.0	343.0	356.2	329.8	329.8	329.8	329.8
77.5°	343.0	316.6	316.6	316.6	303.4	316.6	303.4	277.1	277.1	277.1	277.1
80°	290.2	263.9	277.1	277.1	263.9	263.9	250.7	224.3	224.3	224.3	224.3
82.5°	237.5	211.1	224.3	224.3	224.3	224.3	197.9	184.7	171.5	158.3	158.3
85°	211.1	171.5	197.9	197.9	184.7	184.7	131.9	131.9	105.5	105.5	92.4
87.5°	39.6	26.4	52.8	66.0	66.0	79.2	52.8	66.0	39.6	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9
2.5°	8364.4	8509.5	8707.4	8852.6	9076.8	9248.4	9512.2	9736.5	9947.6	10039.9	10132.3
5°	7018.7	7111.1	7414.5	7652.0	8008.2	8390.8	8865.8	9380.3	9908.0	10145.5	10422.5
7.5°	5250.8	5422.4	5593.9	5936.9	6372.3	6992.3	7599.2	8364.4	9103.2	9459.4	9934.4
10°	4076.7	4208.6	4406.5	4762.7	5171.7	5686.2	6411.8	7322.2	8206.1	8667.9	9156.0
12.5°	3271.9	3456.6	3720.4	4089.9	4564.8	5092.5	5620.3	6464.6	7493.7	8021.4	8575.5
15°	2651.8	2796.9	3087.2	3548.9	4103.0	4644.0	5198.1	5897.3	7018.7	7625.6	8285.3
17.5°	2110.9	2216.4	2480.3	2942.1	3496.2	4103.0	4736.3	5620.3	6860.4	7599.2	8377.6
20°	1715.1	1794.3	1965.8	2308.8	2836.5	3496.2	4287.8	5356.4	6952.8	7902.7	8852.6
22.5°	1504.0	1530.4	1609.6	1794.3	2229.6	2928.9	3878.8	5132.1	7124.3	8351.2	9630.9
25°	1358.9	1385.3	1411.7	1530.4	1781.1	2440.7	3522.6	5000.2	7493.7	9010.9	10528.1
27.5°	1266.5	1292.9	1306.1	1358.9	1530.4	2084.5	3219.1	4921.0	7995.0	9974.0	11636.3
30°	1187.4	1187.4	1227.0	1306.1	1424.9	1833.8	2955.3	4736.3	8522.7	10778.7	12507.0
32.5°	1121.4	1134.6	1187.4	1227.0	1306.1	1622.7	2691.4	4498.8	8997.7	11438.4	13364.6
35°	1002.7	1002.7	1015.9	1081.8	1187.4	1451.2	2453.9	4261.4	9261.5	12084.9	14129.8
37.5°	923.5	936.7	963.1	1015.9	1108.2	1332.5	2256.0	3997.5	9538.6	12691.7	15026.9
40°	870.7	883.9	910.3	963.1	1055.4	1227.0	2084.5	3786.4	9828.8	13351.4	15990.0
42.5°	831.2	844.4	870.7	923.5	1002.7	1200.6	1899.8	3614.9	10000.4	13958.3	16900.3
45°	791.6	804.8	844.4	897.1	963.1	1174.2	1794.3	3496.2	10066.3	14367.3	17626.0
47.5°	752.0	765.2	804.8	883.9	963.1	1134.6	1754.7	3430.2	10119.1	14829.0	18206.5
50°	712.4	738.8	791.6	870.7	976.3	1081.8	1728.3	3417.0	10422.5	15422.7	18760.6
52.5°	686.0	725.6	778.4	870.7	963.1	1002.7	1715.1	3456.6	11029.4	16306.6	19552.1
55°	659.7	699.2	752.0	870.7	923.5	936.7	1649.1	3522.6	11952.9	17533.6	20673.6
57.5°	633.3	659.7	725.6	844.4	870.7	883.9	1517.2	3614.9	12876.4	18734.2	21821.4
60°	593.7	620.1	686.0	844.4	791.6	831.2	1345.7	3641.3	13536.1	19116.8	21926.9
62.5°	554.1	580.5	646.5	870.7	725.6	778.4	1200.6	3548.9	13668.0	18562.7	21333.2
65°	514.5	540.9	593.7	725.6	672.8	725.6	1108.2	3298.3	13232.7	17296.1	20251.4
67.5°	475.0	501.3	540.9	593.7	606.9	659.7	1068.6	2902.5	12137.6	15726.2	18773.8
70°	422.2	448.6	488.1	527.7	540.9	620.1	1002.7	2519.9	10369.8	13628.5	16966.3
72.5°	382.6	395.8	435.4	461.8	488.1	567.3	963.1	2203.2	7929.0	11029.4	13839.5
75°	329.8	329.8	369.4	395.8	422.2	501.3	883.9	1833.8	5593.9	8417.2	10171.9
77.5°	277.1	277.1	303.4	329.8	356.2	435.4	752.0	1490.8	3878.8	6675.7	7374.9
80°	211.1	211.1	237.5	263.9	290.2	369.4	606.9	1095.0	2401.1	4881.4	5369.6
82.5°	145.1	145.1	184.7	197.9	211.1	290.2	461.8	752.0	1411.7	3522.6	3839.2
85°	79.2	79.2	105.5	118.7	145.1	211.1	343.0	527.7	844.4	2546.3	2559.5
87.5°	13.2	13.2	39.6	39.6	66.0	105.5	197.9	290.2	475.0	1411.7	897.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598638
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9	9419.9
2.5°	10303.8	10448.9	10462.1	10462.1	10396.1	10409.3	10224.6	10026.7	9960.8	9947.6
5°	10844.7	11227.3	11332.9	11385.6	11214.1	10950.3	10475.3	9960.8	9696.9	9657.3
7.5°	10739.2	11504.4	11913.4	11966.1	11623.1	11003.0	10171.9	9380.3	9076.8	8997.7
10°	10119.1	11148.2	11887.0	12071.7	11702.3	10910.7	9828.8	8905.3	8535.9	8470.0
12.5°	9683.7	10673.2	11398.8	11649.5	11478.0	10791.9	9657.3	8601.9	8232.5	8140.1
15°	9446.2	10356.6	10831.5	10910.7	10897.5	10607.2	9657.3	8667.9	8258.9	8153.3
17.5°	9644.1	10264.2	10330.2	10145.5	10251.0	10396.1	9868.4	9024.1	8628.3	8535.9
20°	10039.9	10224.6	9908.0	9630.9	9683.7	10145.5	10198.3	9696.9	9380.3	9222.0
22.5°	10871.1	10369.8	9644.1	9261.5	9301.1	9947.6	10633.6	10607.2	10330.2	10251.0
25°	11715.5	10778.7	9565.0	9116.4	9169.2	9908.0	11148.2	11623.1	11478.0	11438.4
27.5°	12652.2	11464.8	9617.8	9050.5	9116.4	9960.8	11504.4	12480.7	12507.0	12467.5
30°	13285.4	11794.6	9776.1	9129.6	9222.0	10092.7	11583.5	12995.2	13232.7	13245.9
32.5°	13813.2	12124.4	10105.9	9261.5	9419.9	10330.2	11794.6	13483.3	14011.1	14024.2
35°	14235.3	12493.8	10514.9	9499.0	9736.5	10726.0	12071.7	13945.1	14736.7	14829.0
37.5°	14776.3	12902.8	10989.8	10013.5	10277.4	11293.3	12559.8	14486.0	15594.2	15844.9
40°	15356.7	13311.8	11675.9	10844.7	11227.3	12137.6	13113.9	15092.9	16319.8	16662.9
42.5°	16003.2	13747.2	12454.3	11966.1	12546.6	13206.3	13747.2	15647.0	16874.0	17269.7
45°	16636.5	14274.9	13588.9	13496.5	14143.0	14472.8	14367.3	16042.8	17401.7	17797.5
47.5°	17085.0	15040.1	14961.0	15515.1	16121.9	15950.4	15092.9	16333.0	17837.0	18272.4
50°	17494.0	15990.0	16689.2	17771.1	18140.5	17560.0	15871.3	16728.8	18298.8	18786.9
52.5°	18100.9	17005.9	18470.3	19816.0	20172.2	19248.7	16715.6	17375.3	19011.2	19446.6
55°	19341.1	18153.7	20330.5	21874.1	21940.1	20792.3	17850.2	18470.3	20013.9	20515.2
57.5°	20726.3	19565.3	21808.2	23576.0	23549.7	22335.9	19130.0	19947.9	21372.8	21715.8
60°	21979.7	20990.2	23417.7	24789.8	24723.8	23457.3	20620.8	21623.5	22929.6	23193.4
62.5°	22718.5	22283.1	24130.1	25172.4	24921.7	23826.7	21887.3	23114.3	24037.8	24130.1
65°	22599.7	23021.9	23299.0	23945.4	23589.2	22797.6	22507.4	24064.2	24156.5	24064.2
67.5°	21702.6	22599.7	21016.6	21082.5	20897.8	20225.0	21544.3	23813.5	23180.2	22956.0
70°	20343.7	20409.7	17573.2	16742.0	17032.3	16108.8	18483.5	21860.9	20884.6	20607.6
72.5°	18087.7	17269.7	13285.4	12441.1	12876.4	12216.8	14829.0	19050.8	18100.9	17203.8
75°	15172.0	13681.2	10119.1	8918.5	9142.8	9116.4	11491.2	15739.3	14024.2	13127.1
77.5°	11755.0	10660.0	7467.3	7005.5	6768.1	6820.8	8021.4	11702.3	10171.9	9050.5
80°	8588.7	7454.1	5778.6	6042.4	5910.5	5593.9	5620.3	7836.7	7071.5	6398.6
82.5°	5936.9	5303.6	4683.5	5290.4	4973.8	4485.6	4380.1	5646.6	5303.6	4894.6
85°	3984.3	4366.9	3720.4	4050.3	3509.4	3232.3	4116.2	4723.1	3812.8	3403.8
87.5°	2599.0	3997.5	2678.2	2031.7	1161.0	1556.8	2519.9	3100.4	1781.1	963.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)