

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: P598701

Luminaire Tested: **IFLD-L-SA8C-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598701
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8C-735-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (128) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

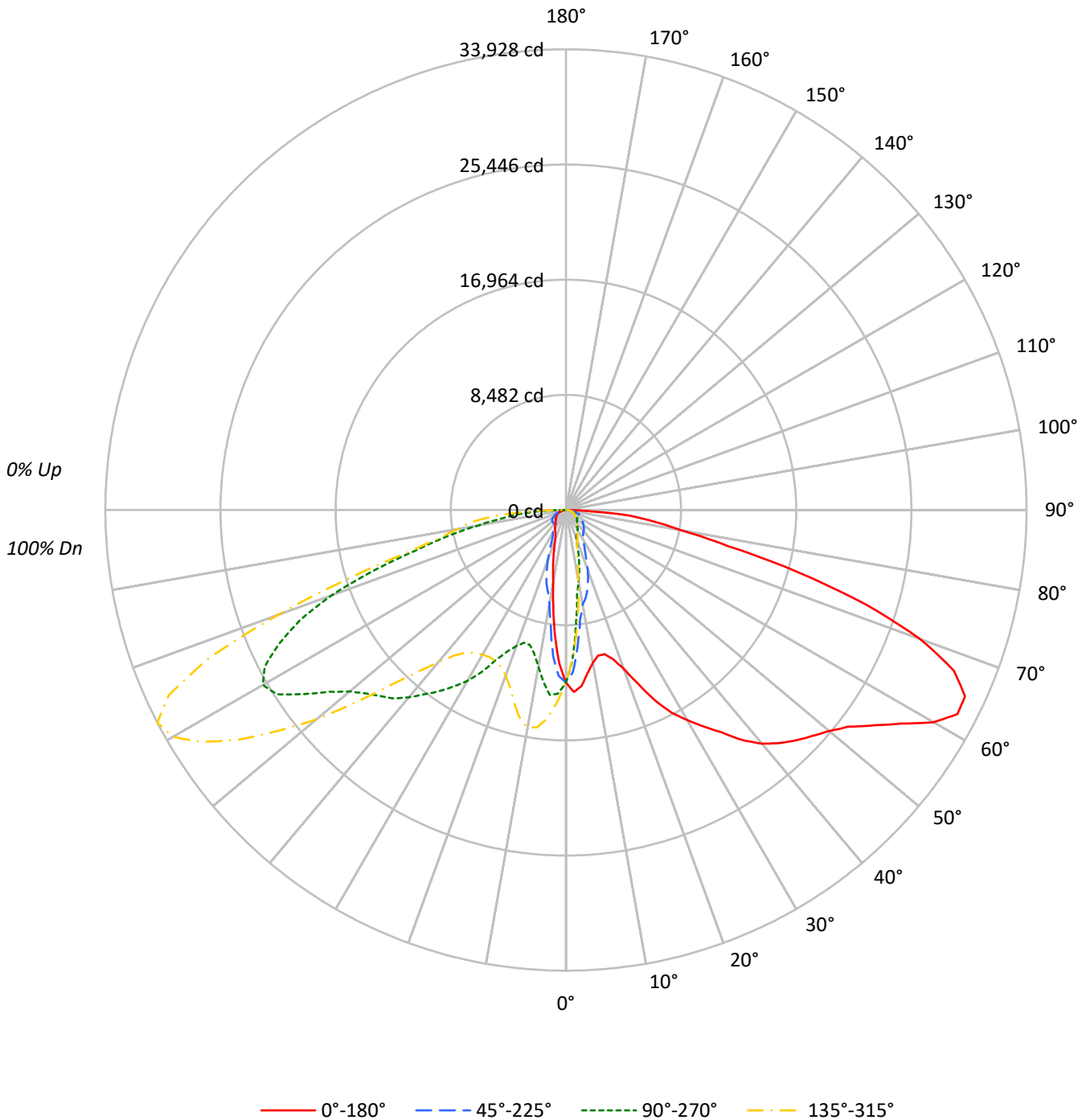
Lumens per Lamp: N/A
 Luminaire Lumens: 42503.3 lumens
 Efficiency: N/A
 Efficacy: 101.1 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 420.3
 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77			77	
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59			59	
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46			46	
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36			36	
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30			30	
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25			25	
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21			21	
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18			18	
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16			16	
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14			14	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68332	68332	68332	68332
5°	70322	45729	49956	73877
10°	62389	29057	29348	63847
15°	61231	20608	19519	57268
20°	71190	13036	13138	61006
25°	91552	11193	10877	72123
30°	110951	10609	9946	90286
35°	131319	9347	8996	107018
40°	157789	8870	8245	126431
45°	182580	8797	7986	147391
50°	212016	8933	8040	174050
55°	259457	9177	8176	221748
60°	336493	9187	8613	277348
65°	413051	9285	8832	296880
70°	437074	9794	9234	289051
75°	367920	10353	9245	235913
80°	267300	12125	9369	203918
85°	283301	17568	7688	211930

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.6	2.3
10°-20°	2056.4	4.8
20°-30°	2963.6	7.0
30°-40°	4266.3	10.0
40°-50°	6060.0	14.3
50°-60°	8712.6	20.5
60°-70°	10065.9	23.7
70°-80°	5699.5	13.4
80°-90°	1696.2	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°	6002.6	14.1
0°-40°	10269.0	24.2
0°-60°	25041.6	58.9
0°-90°	42503.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42503.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12696	12696	12696	12696	12696	
5°	13017	8464	9247	13674	13017	1181
15°	10989	3699	3503	10278	10989	3231
25°	15417	1885	1832	12145	15417	7156
35°	19987	1423	1369	16288	19987	12685
45°	23988	1156	1049	19365	23988	18574
55°	27651	978	871	23633	27651	25043
65°	32435	729	694	23312	32435	31103
75°	17693	498	445	11345	17693	18773
85°	4588	284	124	3432	4588	4569
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°	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5
2.5°	13407.8	13390.0	13283.3	12945.5	12589.8	12252.0	11931.9	11594.0	11416.2	11202.8	11113.9
5°	13016.6	12981.0	12678.7	11931.9	11273.9	10562.6	9958.1	9477.9	9086.7	8695.5	8553.3
7.5°	12127.5	12074.1	11718.5	10687.1	9726.9	8802.2	8073.1	7450.8	6935.1	6703.9	6437.2
10°	11416.2	11327.3	10864.9	9726.9	8482.1	7557.4	7077.3	6650.6	6206.0	5832.6	5441.4
12.5°	10971.6	10864.9	10384.8	9051.2	7842.0	7148.5	6650.6	6170.4	5619.2	5156.8	4730.1
15°	10989.4	10864.9	10278.1	8873.3	7681.9	6792.8	6099.3	5441.4	4801.2	4285.5	3805.4
17.5°	11505.1	11345.1	10722.7	9122.3	7557.4	6330.5	5405.8	4552.3	3823.2	3271.9	2880.7
20°	12429.8	12323.1	11611.8	9495.7	7433.0	5832.6	4694.5	3663.1	2898.5	2471.7	2311.7
22.5°	13816.8	13692.3	12927.7	10064.7	7397.4	5388.0	3929.9	2880.7	2329.5	2151.7	2062.7
25°	15417.2	15186.0	14474.7	11025.0	7468.5	4979.0	3307.5	2382.8	2080.5	1956.0	1902.7
27.5°	16804.2	16662.0	15861.8	11931.9	7504.1	4658.9	2880.7	2169.4	1938.3	1831.6	1796.0
30°	17853.4	17800.0	17017.6	12927.7	7415.2	4267.7	2614.0	2080.5	1938.3	1831.6	1724.9
32.5°	18902.5	18920.3	18084.5	13692.3	7290.7	3929.9	2365.0	1849.4	1707.1	1636.0	1653.7
35°	19987.2	20076.1	19364.9	14439.2	7024.0	3805.4	2187.2	1724.9	1600.4	1493.7	1440.4
37.5°	21356.5	21587.6	20894.1	15274.9	6757.2	3698.7	2098.3	1636.0	1511.5	1422.6	1351.4
40°	22459.0	22885.7	22476.7	16057.4	6579.4	3574.2	2027.2	1547.1	1458.1	1351.4	1298.1
42.5°	23276.9	23774.8	23632.6	16662.0	6579.4	3449.8	1956.0	1493.7	1422.6	1298.1	1227.0
45°	23988.2	24503.9	24486.1	17284.3	6721.7	3378.6	1867.1	1493.7	1387.0	1262.5	1191.4
47.5°	24628.4	25144.1	25321.9	18066.7	6952.9	3343.1	1760.4	1458.1	1387.0	1244.8	1138.1
50°	25321.9	25890.9	26424.4	19311.5	7237.4	3254.1	1689.3	1404.8	1404.8	1227.0	1102.5
52.5°	26211.0	26851.2	27829.2	20858.6	7521.9	3094.1	1582.6	1369.2	1404.8	1209.2	1066.9
55°	27651.4	28184.8	29465.2	22707.9	7877.5	2898.5	1493.7	1280.3	1333.7	1155.8	1013.6
57.5°	29269.6	29731.9	30798.8	24130.5	7984.2	2649.6	1369.2	1191.4	1280.3	1102.5	942.5
60°	31261.2	31492.3	31492.3	24539.5	7628.6	2418.4	1280.3	1120.3	1155.8	1049.2	889.1
62.5°	32523.7	32523.7	31492.3	23792.6	6952.9	2222.8	1209.2	1049.2	1013.6	978.0	835.8
65°	32434.8	32292.5	30763.3	21623.2	6170.4	2098.3	1138.1	960.2	906.9	889.1	782.4
67.5°	30941.1	30692.1	28611.6	18564.7	5352.5	2045.0	1066.9	871.3	835.8	800.2	711.3
70°	27775.8	27135.7	24575.0	14937.1	4552.3	2009.4	1049.2	800.2	764.6	729.1	657.9
72.5°	23188.0	22370.1	19187.0	11487.3	3823.2	1884.9	995.8	711.3	693.5	657.9	586.8
75°	17693.3	16181.8	13390.0	8784.4	2969.6	1636.0	853.5	622.4	622.4	604.6	533.5
77.5°	12198.6	11416.2	9335.7	6490.5	2169.4	1262.5	693.5	551.2	551.2	569.0	497.9
80°	8624.4	7895.3	6650.6	4658.9	1369.2	853.5	533.5	462.3	515.7	551.2	462.3
82.5°	6597.2	6063.7	4943.5	3396.4	800.2	586.8	409.0	373.4	444.6	480.1	391.2
85°	4587.8	3947.7	2507.3	2276.1	462.3	355.6	302.3	302.3	391.2	480.1	355.6
87.5°	1298.1	551.2	160.0	675.7	195.6	142.3	106.7	71.1	106.7	106.7	71.1
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°	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5
2.5°	11025.0	10918.3	10918.3	10882.7	10900.5	10918.3	10900.5	11025.0	11078.3	11149.5	11291.7
5°	8464.3	8606.6	8499.9	8606.6	8748.9	8962.2	9015.6	9175.6	9193.4	9317.9	9246.8
7.5°	6277.1	6259.3	6170.4	6294.9	6686.1	6988.4	7130.7	7219.6	7237.4	7237.4	7148.5
10°	5316.9	5156.8	4996.8	4907.9	4943.5	5263.5	5370.2	5423.6	5388.0	5441.4	5370.2
12.5°	4552.3	4410.0	4178.8	4018.8	3912.1	4001.0	4107.7	4161.0	4196.6	4285.5	4356.6
15°	3698.7	3556.4	3414.2	3325.3	3236.4	3165.2	3254.1	3307.5	3396.4	3467.5	3503.1
17.5°	2809.6	2738.5	2667.3	2720.7	2720.7	2685.1	2720.7	2738.5	2774.0	2827.4	2809.6
20°	2276.1	2258.3	2240.6	2329.5	2400.6	2400.6	2436.2	2382.8	2365.0	2311.7	2293.9
22.5°	2027.2	2027.2	2045.0	2116.1	2187.2	2222.8	2222.8	2133.9	2045.0	2009.4	2027.2
25°	1884.9	1884.9	1938.3	1956.0	1991.6	1991.6	2009.4	1920.5	1867.1	1813.8	1831.6
27.5°	1778.2	1778.2	1796.0	1796.0	1813.8	1813.8	1831.6	1796.0	1724.9	1707.1	1707.1
30°	1707.1	1707.1	1689.3	1689.3	1689.3	1689.3	1707.1	1653.7	1618.2	1600.4	1600.4
32.5°	1636.0	1618.2	1600.4	1600.4	1582.6	1582.6	1600.4	1547.1	1529.3	1529.3	1529.3
35°	1422.6	1404.8	1422.6	1458.1	1458.1	1475.9	1475.9	1458.1	1422.6	1387.0	1369.2
37.5°	1333.7	1315.9	1315.9	1315.9	1351.4	1369.2	1387.0	1351.4	1298.1	1244.8	1244.8
40°	1262.5	1262.5	1244.8	1244.8	1244.8	1280.3	1315.9	1262.5	1191.4	1173.6	1173.6
42.5°	1209.2	1191.4	1173.6	1155.8	1138.1	1191.4	1227.0	1155.8	1120.3	1120.3	1120.3
45°	1155.8	1138.1	1120.3	1102.5	1084.7	1102.5	1138.1	1066.9	1049.2	1049.2	1049.2
47.5°	1102.5	1084.7	1049.2	1031.4	1013.6	1013.6	1049.2	995.8	978.0	995.8	995.8
50°	1066.9	1031.4	995.8	978.0	960.2	960.2	960.2	942.5	942.5	942.5	960.2
52.5°	1031.4	995.8	942.5	924.7	906.9	906.9	906.9	906.9	889.1	906.9	924.7
55°	978.0	942.5	906.9	889.1	871.3	853.5	871.3	853.5	853.5	871.3	871.3
57.5°	906.9	871.3	835.8	835.8	818.0	818.0	835.8	818.0	818.0	835.8	835.8
60°	853.5	818.0	782.4	782.4	764.6	782.4	800.2	782.4	782.4	782.4	800.2
62.5°	782.4	764.6	729.1	729.1	729.1	729.1	746.9	729.1	746.9	746.9	746.9
65°	729.1	693.5	675.7	675.7	675.7	675.7	711.3	675.7	693.5	693.5	693.5
67.5°	675.7	640.2	622.4	622.4	622.4	622.4	657.9	622.4	640.2	657.9	640.2
70°	622.4	586.8	569.0	569.0	569.0	569.0	586.8	569.0	569.0	586.8	586.8
72.5°	551.2	533.5	515.7	515.7	497.9	515.7	533.5	515.7	515.7	515.7	515.7
75°	497.9	480.1	480.1	462.3	462.3	462.3	480.1	444.6	444.6	444.6	444.6
77.5°	462.3	426.8	426.8	426.8	409.0	426.8	409.0	373.4	373.4	373.4	373.4
80°	391.2	355.6	373.4	373.4	355.6	355.6	337.9	302.3	302.3	302.3	302.3
82.5°	320.1	284.5	302.3	302.3	302.3	302.3	266.7	249.0	231.2	213.4	213.4
85°	284.5	231.2	266.7	266.7	249.0	249.0	177.8	177.8	142.3	142.3	124.5
87.5°	53.3	35.6	71.1	88.9	88.9	106.7	71.1	88.9	53.3	35.6	35.6
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°	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5
2.5°	11273.9	11469.5	11736.3	11931.9	12234.2	12465.3	12821.0	13123.3	13407.8	13532.3	13656.8
5°	9460.1	9584.6	9993.6	10313.7	10793.8	11309.5	11949.7	12643.2	13354.5	13674.5	14048.0
7.5°	7077.3	7308.5	7539.7	8002.0	8588.8	9424.6	10242.6	11273.9	12269.7	12749.9	13390.0
10°	5494.7	5672.5	5939.3	6419.4	6970.6	7664.1	8642.2	9869.1	11060.5	11682.9	12340.9
12.5°	4410.0	4658.9	5014.6	5512.5	6152.7	6863.9	7575.2	8713.3	10100.3	10811.6	11558.5
15°	3574.2	3769.8	4161.0	4783.4	5530.3	6259.3	7006.2	7948.7	9460.1	10278.1	11167.2
17.5°	2845.2	2987.4	3343.1	3965.4	4712.3	5530.3	6383.8	7575.2	9246.8	10242.6	11291.7
20°	2311.7	2418.4	2649.6	3111.9	3823.2	4712.3	5779.2	7219.6	9371.2	10651.6	11931.9
22.5°	2027.2	2062.7	2169.4	2418.4	3005.2	3947.7	5228.0	6917.3	9602.4	11256.2	12981.0
25°	1831.6	1867.1	1902.7	2062.7	2400.6	3289.7	4747.9	6739.5	10100.3	12145.3	14190.2
27.5°	1707.1	1742.7	1760.4	1831.6	2062.7	2809.6	4338.9	6632.8	10776.0	13443.4	15683.9
30°	1600.4	1600.4	1653.7	1760.4	1920.5	2471.7	3983.2	6383.8	11487.3	14528.1	16857.6
32.5°	1511.5	1529.3	1600.4	1653.7	1760.4	2187.2	3627.6	6063.7	12127.5	15417.2	18013.4
35°	1351.4	1351.4	1369.2	1458.1	1600.4	1956.0	3307.5	5743.7	12483.1	16288.5	19044.8
37.5°	1244.8	1262.5	1298.1	1369.2	1493.7	1796.0	3040.8	5388.0	12856.6	17106.5	20254.0
40°	1173.6	1191.4	1227.0	1298.1	1422.6	1653.7	2809.6	5103.5	13247.8	17995.6	21552.1
42.5°	1120.3	1138.1	1173.6	1244.8	1351.4	1618.2	2560.6	4872.3	13478.9	18813.6	22779.0
45°	1066.9	1084.7	1138.1	1209.2	1298.1	1582.6	2418.4	4712.3	13567.8	19364.9	23757.1
47.5°	1013.6	1031.4	1084.7	1191.4	1298.1	1529.3	2365.0	4623.4	13639.0	19987.2	24539.5
50°	960.2	995.8	1066.9	1173.6	1315.9	1458.1	2329.5	4605.6	14048.0	20787.4	25286.3
52.5°	924.7	978.0	1049.2	1173.6	1298.1	1351.4	2311.7	4658.9	14865.9	21978.8	26353.3
55°	889.1	942.5	1013.6	1173.6	1244.8	1262.5	2222.8	4747.9	16110.7	23632.6	27864.8
57.5°	853.5	889.1	978.0	1138.1	1173.6	1191.4	2045.0	4872.3	17355.5	25250.8	29411.8
60°	800.2	835.8	924.7	1138.1	1066.9	1120.3	1813.8	4907.9	18244.6	25766.5	29554.1
62.5°	746.9	782.4	871.3	1173.6	978.0	1049.2	1618.2	4783.4	18422.4	25019.6	28753.9
65°	693.5	729.1	800.2	978.0	906.9	978.0	1493.7	4445.6	17835.6	23312.5	27295.7
67.5°	640.2	675.7	729.1	800.2	818.0	889.1	1440.4	3912.1	16359.7	21196.4	25304.1
70°	569.0	604.6	657.9	711.3	729.1	835.8	1351.4	3396.4	13976.8	18369.0	22868.0
72.5°	515.7	533.5	586.8	622.4	657.9	764.6	1298.1	2969.6	10687.1	14865.9	18653.6
75°	444.6	444.6	497.9	533.5	569.0	675.7	1191.4	2471.7	7539.7	11345.1	13710.1
77.5°	373.4	373.4	409.0	444.6	480.1	586.8	1013.6	2009.4	5228.0	8997.8	9940.3
80°	284.5	284.5	320.1	355.6	391.2	497.9	818.0	1475.9	3236.4	6579.4	7237.4
82.5°	195.6	195.6	249.0	266.7	284.5	391.2	622.4	1013.6	1902.7	4747.9	5174.6
85°	106.7	106.7	142.3	160.0	195.6	284.5	462.3	711.3	1138.1	3432.0	3449.8
87.5°	17.8	17.8	53.3	53.3	88.9	142.3	266.7	391.2	640.2	1902.7	1209.2
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: P598701
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5	12696.5
2.5°	13887.9	14083.5	14101.3	14101.3	14012.4	14030.2	13781.2	13514.5	13425.6	13407.8
5°	14617.0	15132.7	15274.9	15346.1	15114.9	14759.3	14119.1	13425.6	13069.9	13016.6
7.5°	14474.7	15506.1	16057.4	16128.5	15666.1	14830.4	13710.1	12643.2	12234.2	12127.5
10°	13639.0	15026.0	16021.8	16270.7	15772.8	14705.9	13247.8	12003.0	11505.1	11416.2
12.5°	13052.2	14385.8	15363.9	15701.7	15470.5	14545.9	13016.6	11594.0	11096.1	10971.6
15°	12732.1	13959.1	14599.2	14705.9	14688.1	14296.9	13016.6	11682.9	11131.7	10989.4
17.5°	12998.8	13834.6	13923.5	13674.5	13816.8	14012.4	13301.1	12163.0	11629.6	11505.1
20°	13532.3	13781.2	13354.5	12981.0	13052.2	13674.5	13745.7	13069.9	12643.2	12429.8
22.5°	14652.6	13976.8	12998.8	12483.1	12536.5	13407.8	14332.5	14296.9	13923.5	13816.8
25°	15790.6	14528.1	12892.1	12287.5	12358.7	13354.5	15026.0	15666.1	15470.5	15417.2
27.5°	17053.2	15452.8	12963.2	12198.6	12287.5	13425.6	15506.1	16822.0	16857.6	16804.2
30°	17906.7	15897.3	13176.6	12305.3	12429.8	13603.4	15612.8	17515.5	17835.6	17853.4
32.5°	18618.0	16341.9	13621.2	12483.1	12696.5	13923.5	15897.3	18173.4	18884.7	18902.5
35°	19187.0	16839.8	14172.4	12803.2	13123.3	14457.0	16270.7	18795.8	19862.8	19987.2
37.5°	19916.1	17391.0	14812.6	13496.7	13852.4	15221.6	16928.7	19524.9	21018.6	21356.5
40°	20698.5	17942.3	15737.3	14617.0	15132.7	16359.7	17675.5	20342.9	21996.6	22459.0
42.5°	21569.8	18529.1	16786.4	16128.5	16910.9	17800.0	18529.1	21089.7	22743.5	23276.9
45°	22423.4	19240.4	18315.7	18191.2	19062.6	19507.1	19364.9	21623.2	23454.8	23988.2
47.5°	23028.0	20271.7	20165.1	20911.9	21729.9	21498.7	20342.9	22014.4	24041.6	24628.4
50°	23579.2	21552.1	22494.5	23952.7	24450.6	23668.2	21392.0	22547.9	24664.0	25321.9
52.5°	24397.2	22921.3	24895.1	26708.9	27189.0	25944.3	22530.1	23419.2	25624.2	26211.0
55°	26068.8	24468.4	27402.4	29482.9	29571.9	28024.8	24059.4	24895.1	26975.6	27651.4
57.5°	27935.9	26371.1	29394.0	31776.9	31741.3	30105.3	25784.2	26886.7	28807.2	29269.6
60°	29625.2	28291.5	31563.5	33412.8	33323.9	31616.8	27793.6	29145.1	30905.5	31261.2
62.5°	30621.0	30034.2	32523.7	33928.5	33590.6	32114.7	29500.7	31154.5	32399.2	32523.7
65°	30461.0	31030.0	31403.4	32274.8	31794.6	30727.7	30336.5	32434.8	32559.3	32434.8
67.5°	29251.8	30461.0	28327.1	28416.0	28167.1	27260.2	29038.4	32096.9	31243.4	30941.1
70°	27420.2	27509.1	23685.9	22565.7	22956.9	21712.1	24912.9	29465.2	28149.3	27775.8
72.5°	24379.4	23276.9	17906.7	16768.6	17355.5	16466.3	19987.2	25677.5	24397.2	23188.0
75°	20449.6	18440.2	13639.0	12020.8	12323.1	12287.5	15488.3	21214.2	18902.5	17693.3
77.5°	15844.0	14368.0	10064.7	9442.4	9122.3	9193.4	10811.6	15772.8	13710.1	12198.6
80°	11576.2	10047.0	7788.6	8144.3	7966.4	7539.7	7575.2	10562.6	9531.3	8624.4
82.5°	8002.0	7148.5	6312.7	7130.7	6703.9	6046.0	5903.7	7610.8	7148.5	6597.2
85°	5370.2	5885.9	5014.6	5459.1	4730.1	4356.6	5548.1	6366.0	5139.1	4587.8
87.5°	3503.1	5388.0	3609.8	2738.5	1564.8	2098.3	3396.4	4178.8	2400.6	1298.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)