

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: P598992

Luminaire Tested: **IFLD-L-SA8D-740-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598992
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8D-740-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (128) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

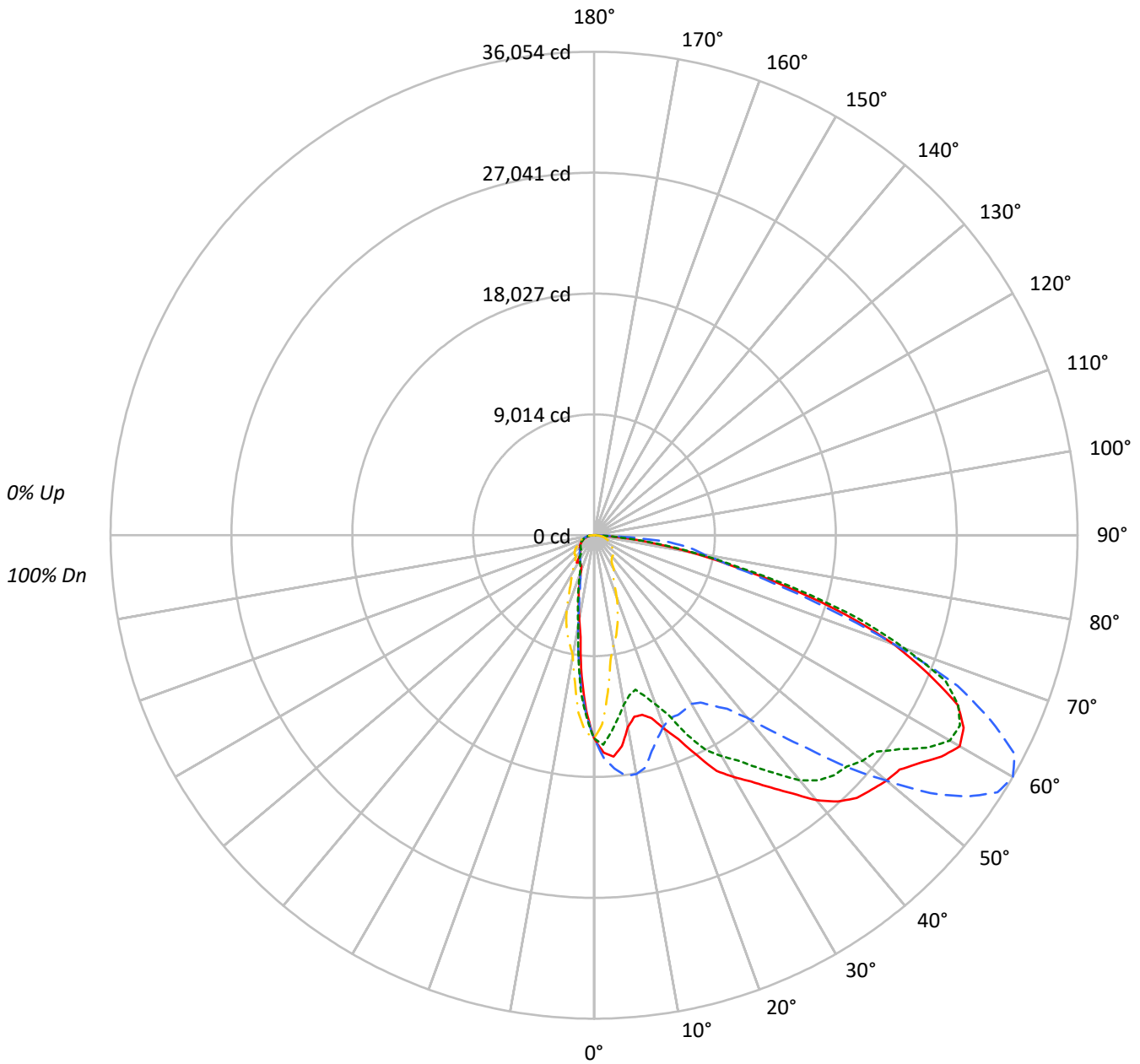
Lumens per Lamp: N/A
 Luminaire Lumens: 47419.2 lumens
 Efficiency: N/A
 Efficacy: 97.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 488.3
 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



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°

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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	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	80	80	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	62	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	50	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	40	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	34	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	29	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	25	25	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	22	22	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	19	19	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	81512	81512	81512	81512
5°	89551	79550	57049	62276
10°	79321	70009	34602	37131
15°	77238	66455	24496	25434
20°	88068	76864	16023	17710
25°	107302	97433	13991	14490
30°	129287	118175	14510	13464
35°	150782	138758	12024	11333
40°	181187	167590	11232	10640
45°	210858	192606	11367	10567
50°	238298	218924	11624	10920
55°	277908	260933	12040	11447
60°	338954	329671	12001	12001
65°	380926	381462	12322	12858
70°	374369	387609	12910	13240
75°	308814	329373	13560	14435
80°	222970	234053	14995	15645
85°	123403	132493	16889	20785

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1176.6	2.5
10°-20°	2484.2	5.2
20°-30°	3634.6	7.7
30°-40°	5121.0	10.8
40°-50°	7037.8	14.8
50°-60°	9591.7	20.2
60°-70°	10497.7	22.1
70°-80°	6060.7	12.8
80°-90°	1814.9	3.8
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°	7295.4	15.4
0°-40°	12416.4	26.2
0°-60°	29045.9	61.3
0°-90°	47419.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47419.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15145	15145	15145	15145	15145	
5°	16576	14725	10560	11527	16576	1505
15°	13862	11927	4396	4565	13862	4050
25°	18069	16408	2356	2440	18069	8461
35°	22950	21119	1830	1725	22950	14552
45°	27704	25306	1494	1388	27704	21292
55°	29618	27809	1283	1220	29618	26724
65°	29912	29954	968	1010	29912	28629
75°	14851	15840	652	694	14851	15953
85°	1998	2146	274	337	1998	2773
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°	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4
2.5°	16218.2	16155.1	16218.2	16449.6	16512.7	16617.9	16617.9	16470.6	16197.2	16071.0	15860.6
5°	16575.8	16470.6	16996.5	17480.3	17859.0	17816.9	17459.3	17164.8	16617.9	15797.5	15019.2
7.5°	15860.6	15965.8	16344.4	17606.5	18490.0	18658.3	18090.4	17501.4	16323.4	15187.5	14135.7
10°	14514.4	14661.6	15482.0	16786.2	18174.5	18448.0	18090.4	17375.2	15965.8	14556.4	13336.4
12.5°	13862.3	14198.8	14682.6	16260.3	17248.9	17901.0	17732.8	17270.0	15692.3	14030.5	12852.6
15°	13862.3	13946.4	14661.6	15986.8	16554.8	16575.8	16638.9	16723.1	15776.5	14261.9	12684.3
17.5°	14304.0	14535.4	15145.4	15965.8	16071.0	15818.5	15818.5	16176.1	15944.8	14914.0	13294.3
20°	15376.8	15292.7	16092.0	16428.6	15860.6	15229.6	15166.4	15776.5	16134.1	15608.2	14409.2
22.5°	16449.6	16828.2	17480.3	16723.1	15671.3	14829.9	14745.7	15503.0	16702.0	16807.2	15692.3
25°	18069.3	18448.0	18784.5	17859.0	15650.3	14724.7	14787.8	15376.8	17396.2	18511.1	17837.9
27.5°	19815.2	20046.6	20530.4	19100.0	16155.1	14598.5	14661.6	15545.1	18048.3	19625.9	19520.8
30°	20803.9	21056.3	20951.2	19331.4	16491.7	14682.6	14514.4	15776.5	17690.7	19625.9	20614.6
32.5°	21771.5	21624.3	21561.2	19710.1	16912.4	15208.5	14787.8	16260.3	17901.0	19941.5	22024.0
35°	22949.5	22739.2	22570.9	20446.3	17606.5	15713.4	15524.0	16891.3	18363.8	20593.6	23159.9
37.5°	24253.7	24253.7	23433.3	20993.2	18426.9	16533.7	16323.4	17795.9	19100.0	20993.2	24716.5
40°	25789.3	25852.4	24400.9	21729.5	19352.5	17837.9	17774.8	18973.8	19815.2	21582.2	26210.0
42.5°	26925.2	26967.2	25242.4	22002.9	20425.3	19647.0	19920.4	20867.0	20635.6	22108.1	26315.2
45°	27703.5	27493.1	25831.3	22781.2	21603.2	22360.5	22444.7	22718.1	21708.4	22423.6	26735.9
47.5°	28082.1	28040.0	26083.8	23685.7	24085.4	25116.1	25600.0	25221.3	22697.1	22087.1	26735.9
50°	28460.8	28103.2	26315.2	24926.8	26504.5	28587.0	28481.8	27787.6	24064.4	22507.8	26336.2
52.5°	28713.2	28397.6	26777.9	26041.7	28818.4	31174.3	31595.0	30311.9	25663.1	23286.1	26525.5
55°	29617.7	29365.3	28166.3	27556.2	31489.8	33908.9	33972.0	32184.0	27345.9	24569.2	27766.6
57.5°	30711.5	30858.8	30080.5	29701.8	33530.3	35907.2	35675.9	33572.3	28776.3	26125.8	29197.0
60°	31489.8	31721.2	31531.9	31574.0	34540.0	36580.4	36054.5	34434.8	29828.0	27303.8	30942.9
62.5°	31069.1	31531.9	32310.2	32141.9	34582.0	36096.6	35360.3	33298.9	29954.3	28839.4	32268.1
65°	29912.2	29954.3	31468.8	32394.4	32688.8	33593.4	32625.7	30921.9	28650.1	29786.0	32078.8
67.5°	26946.2	27282.8	28650.1	30459.1	29218.0	29428.4	29344.2	26883.1	26672.8	29133.9	30627.4
70°	23790.9	24022.3	25515.8	27640.4	24674.4	23685.7	23875.1	22045.0	22907.4	27114.5	27703.5
72.5°	19668.0	19815.2	21519.1	23391.2	19794.2	18027.2	18469.0	16975.5	18195.5	23727.8	23370.2
75°	14850.9	15124.4	16449.6	18658.3	14577.5	13441.6	13883.3	13273.3	14409.2	19541.8	18132.4
77.5°	10559.7	10349.4	11990.1	14598.5	10959.4	10286.3	10328.3	10433.5	11653.6	16470.6	13020.8
80°	7194.1	7257.2	8729.6	10707.0	8603.4	8498.3	8393.1	9234.5	9781.4	13041.9	9465.9
82.5°	4270.2	4270.2	5889.9	7614.8	6794.4	7656.8	7173.0	7930.3	7656.8	9592.1	6205.4
85°	1998.4	1998.4	3029.1	5490.2	5258.8	6310.6	5364.0	5995.1	5658.5	6689.2	2797.7
87.5°	336.6	294.5	610.0	2692.5	2166.6	2461.1	967.6	3197.4	3555.0	4669.8	694.2
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°	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4
2.5°	15629.2	15482.0	15187.5	14808.8	14493.3	14093.6	13967.4	13694.0	13315.3	13273.3	13105.0
5°	14724.7	14219.9	13588.8	12810.5	12284.6	11737.7	11274.9	11001.5	10685.9	10643.9	10559.7
7.5°	13736.0	13105.0	12053.2	11127.7	10223.2	9360.7	8940.0	8414.1	8056.5	7783.1	7656.8
10°	12810.5	12221.5	10917.3	9655.2	8855.9	8287.9	7783.1	7236.1	6794.4	6457.8	6331.6
12.5°	12200.5	11506.3	10096.9	8897.9	8308.9	7656.8	7088.9	6499.9	5932.0	5490.2	5258.8
15°	11927.0	11274.9	9844.5	8519.3	7656.8	6752.3	6100.2	5511.2	4817.1	4501.6	4396.4
17.5°	12579.1	11611.5	9760.4	8077.6	6857.5	5826.8	5027.4	4396.4	3891.5	3576.0	3449.8
20°	13420.5	12221.5	9907.6	7551.7	6100.2	4943.3	4059.8	3386.7	3050.1	2818.7	2797.7
22.5°	14493.3	13126.0	10139.0	7173.0	5258.8	3975.7	3176.3	2776.7	2545.3	2524.2	2482.2
25°	16407.5	14766.8	10517.6	6668.2	4585.7	3281.5	2713.6	2482.2	2377.0	2313.9	2356.0
27.5°	18048.3	15839.6	10791.1	6352.7	4312.2	3092.2	2629.4	2377.0	2271.8	2250.8	2271.8
30°	19015.9	16828.2	10707.0	5763.7	3765.3	2944.9	2797.7	2713.6	2503.2	2334.9	2334.9
32.5°	19899.4	17459.3	10685.9	5237.8	3218.4	2461.1	2334.9	2271.8	2398.0	2482.2	2419.1
35°	21119.4	18448.0	10622.8	4943.3	2987.0	2271.8	2061.5	1893.2	1809.0	1767.0	1830.1
37.5°	22423.6	19121.1	10454.5	4901.2	2860.8	2166.6	1998.4	1830.1	1745.9	1703.9	1682.8
40°	23854.0	19836.3	10265.2	4690.9	2797.7	2103.5	1935.2	1788.0	1682.8	1619.7	1598.7
42.5°	24779.6	20404.2	10075.9	4585.7	2671.5	2061.5	1872.1	1745.9	1640.8	1556.6	1556.6
45°	25305.5	21077.4	9886.6	4480.5	2524.2	2082.5	1872.1	1703.9	1577.6	1535.6	1493.5
47.5°	25536.8	21582.2	9823.5	4312.2	2398.0	1998.4	1830.1	1661.8	1535.6	1451.4	1430.4
50°	26146.9	22655.0	10054.9	4186.0	2250.8	1914.2	1935.2	1640.8	1514.5	1409.4	1388.3
52.5°	26504.5	23517.5	10559.7	3996.7	2145.6	1809.0	1893.2	1598.7	1451.4	1346.3	1346.3
55°	27808.7	24947.9	11106.6	3849.5	2019.4	1661.8	1745.9	1514.5	1346.3	1283.2	1283.2
57.5°	29470.4	26462.4	11569.4	3786.4	1935.2	1556.6	1556.6	1472.5	1283.2	1199.0	1178.0
60°	30627.4	27703.5	11842.9	3744.3	1851.1	1451.4	1388.3	1472.5	1220.0	1135.9	1114.9
62.5°	30753.6	26988.3	11569.4	3723.2	1830.1	1346.3	1262.1	1409.4	1156.9	1072.8	1030.7
65°	29954.3	25536.8	10812.1	3639.1	1809.0	1241.1	1178.0	1220.0	1072.8	1009.7	967.6
67.5°	28355.6	23180.9	9718.3	3597.0	1788.0	1156.9	1072.8	1051.8	988.7	925.6	883.5
70°	24632.3	20109.7	8435.2	3407.7	1745.9	1093.8	967.6	946.6	883.5	841.4	820.4
72.5°	20677.7	16449.6	6962.7	3155.3	1661.8	988.7	883.5	841.4	820.4	757.3	736.2
75°	15839.6	12663.2	5574.4	2797.7	1451.4	883.5	778.3	736.2	715.2	673.1	652.1
77.5°	11127.7	9423.8	4122.9	2271.8	1220.0	799.3	694.2	652.1	631.1	568.0	568.0
80°	7551.7	6605.1	2797.7	1577.6	946.6	652.1	610.0	568.0	525.9	483.8	483.8
82.5°	4690.9	4627.8	2019.4	1030.7	694.2	525.9	483.8	483.8	420.7	378.6	378.6
85°	2145.6	2839.8	1409.4	715.2	525.9	399.7	399.7	378.6	336.6	273.5	273.5
87.5°	673.1	946.6	736.2	315.5	294.5	231.4	231.4	210.4	210.4	168.3	168.3
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°	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4
2.5°	13273.3	13252.2	13252.2	13168.1	13378.4	13378.4	13504.7	13399.5	13462.6	13483.6	13651.9
5°	10538.7	10707.0	10833.2	11085.6	11232.8	11296.0	11296.0	11464.2	11401.1	11527.3	11779.8
7.5°	7720.0	7930.3	8308.9	8624.5	8876.9	8961.0	8940.0	8982.1	9045.2	8897.9	8940.0
10°	6247.5	6100.2	6226.4	6520.9	6752.3	7025.8	6815.4	6794.4	6857.5	6794.4	6920.6
12.5°	5216.8	5048.5	4943.3	4943.3	5111.6	5237.8	5174.7	5279.9	5511.2	5574.4	5721.6
15°	4228.1	4080.8	3996.7	3891.5	4059.8	4101.9	4165.0	4312.2	4480.5	4564.7	4732.9
17.5°	3386.7	3386.7	3386.7	3302.5	3365.6	3428.8	3449.8	3639.1	3660.1	3744.3	3807.4
20°	2776.7	2839.8	2944.9	2987.0	3050.1	3050.1	3008.0	3113.2	3029.1	3092.2	3134.3
22.5°	2503.2	2587.3	2629.4	2650.4	2734.6	2755.6	2650.4	2671.5	2692.5	2629.4	2650.4
25°	2356.0	2398.0	2356.0	2377.0	2398.0	2356.0	2377.0	2419.1	2398.0	2440.1	2419.1
27.5°	2292.8	2250.8	2229.7	2208.7	2208.7	2166.6	2187.7	2187.7	2229.7	2250.8	2250.8
30°	2292.8	2229.7	2145.6	2082.5	2082.5	2019.4	2061.5	2103.5	2124.6	2166.6	2166.6
32.5°	2356.0	2229.7	2082.5	2019.4	1956.3	1914.2	1956.3	2019.4	2103.5	2124.6	2145.6
35°	1872.1	1935.2	1914.2	1830.1	1809.0	1809.0	1788.0	1788.0	1724.9	1724.9	1703.9
37.5°	1682.8	1661.8	1703.9	1724.9	1745.9	1682.8	1682.8	1598.7	1577.6	1598.7	1598.7
40°	1577.6	1577.6	1577.6	1640.8	1661.8	1619.7	1556.6	1514.5	1514.5	1514.5	1535.6
42.5°	1535.6	1493.5	1472.5	1514.5	1577.6	1535.6	1472.5	1451.4	1451.4	1472.5	1472.5
45°	1472.5	1451.4	1430.4	1409.4	1493.5	1430.4	1409.4	1388.3	1388.3	1388.3	1409.4
47.5°	1409.4	1388.3	1346.3	1346.3	1367.3	1346.3	1325.2	1325.2	1325.2	1367.3	1367.3
50°	1367.3	1346.3	1304.2	1304.2	1304.2	1304.2	1283.2	1283.2	1283.2	1304.2	1325.2
52.5°	1304.2	1283.2	1262.1	1241.1	1241.1	1241.1	1241.1	1241.1	1241.1	1262.1	1283.2
55°	1241.1	1220.0	1199.0	1199.0	1220.0	1220.0	1199.0	1220.0	1199.0	1220.0	1241.1
57.5°	1178.0	1156.9	1135.9	1156.9	1178.0	1156.9	1156.9	1156.9	1156.9	1156.9	1178.0
60°	1093.8	1093.8	1093.8	1093.8	1135.9	1135.9	1135.9	1135.9	1093.8	1114.9	1135.9
62.5°	1051.8	1030.7	1030.7	1051.8	1072.8	1072.8	1093.8	1072.8	1051.8	1072.8	1072.8
65°	967.6	967.6	967.6	988.7	988.7	1009.7	1009.7	1009.7	988.7	1009.7	1009.7
67.5°	904.5	904.5	904.5	904.5	946.6	946.6	946.6	946.6	925.6	925.6	946.6
70°	799.3	820.4	799.3	841.4	883.5	862.4	883.5	883.5	862.4	841.4	883.5
72.5°	736.2	736.2	736.2	736.2	799.3	799.3	799.3	820.4	799.3	778.3	799.3
75°	652.1	652.1	652.1	673.1	715.2	715.2	715.2	715.2	715.2	694.2	694.2
77.5°	568.0	589.0	568.0	589.0	631.1	610.0	631.1	652.1	631.1	610.0	610.0
80°	483.8	483.8	483.8	504.8	525.9	525.9	525.9	546.9	525.9	504.8	504.8
82.5°	378.6	378.6	399.7	399.7	420.7	420.7	420.7	441.7	420.7	399.7	399.7
85°	294.5	294.5	294.5	315.5	315.5	336.6	336.6	357.6	357.6	336.6	336.6
87.5°	189.3	168.3	189.3	189.3	210.4	210.4	189.3	168.3	189.3	168.3	147.2
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: P598992
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4	15145.4
2.5°	13820.2	14198.8	14472.3	14661.6	14935.1	15460.9	15671.3	16049.9	16155.1	16218.2
5°	11884.9	12284.6	12873.6	13294.3	13778.1	14766.8	15524.0	16092.0	16344.4	16575.8
7.5°	9318.6	9844.5	10454.5	11001.5	11800.8	13020.8	14009.5	15187.5	15629.2	15860.6
10°	7278.2	7762.0	8435.2	9108.3	10223.2	11253.9	12663.2	13736.0	14346.1	14514.4
12.5°	6142.3	6710.3	7509.6	8330.0	9024.1	10202.1	11632.5	13189.1	13757.1	13862.3
15°	5216.8	5995.1	6815.4	7656.8	8456.2	9486.9	11022.5	12915.7	13757.1	13862.3
17.5°	4312.2	5006.4	5974.0	6878.5	7804.1	9213.5	11127.7	13147.1	13988.5	14304.0
20°	3428.8	4101.9	4859.2	5995.1	7257.2	8750.7	11359.1	13925.4	15040.2	15376.8
22.5°	2839.8	3134.3	3870.5	4964.3	6457.8	8435.2	11590.4	15145.4	16323.4	16449.6
25°	2482.2	2692.5	3155.3	4186.0	5826.8	8224.8	12137.4	16554.8	18069.3	18069.3
27.5°	2313.9	2398.0	2713.6	3639.1	5385.0	8035.5	12684.3	18111.4	19520.8	19815.2
30°	2271.8	2482.2	2650.4	3239.4	4901.2	7509.6	13189.1	19331.4	20782.9	20803.9
32.5°	2229.7	2187.7	2313.9	2818.7	4312.2	6962.7	13609.8	20572.5	21708.4	21771.5
35°	1745.9	1830.1	2040.4	2482.2	3870.5	6563.0	13820.2	21245.6	22886.4	22949.5
37.5°	1640.8	1745.9	1914.2	2292.8	3576.0	6226.4	13883.3	22549.8	24127.5	24253.7
40°	1598.7	1682.8	1809.0	2124.6	3344.6	5805.7	14009.5	23896.1	25957.6	25789.3
42.5°	1514.5	1619.7	1745.9	2040.4	3155.3	5490.2	14030.5	24632.3	26925.2	26925.2
45°	1493.5	1556.6	1703.9	2040.4	2944.9	5216.8	13694.0	25368.6	28040.0	27703.5
47.5°	1409.4	1535.6	1661.8	1977.3	2692.5	4943.3	13294.3	25747.2	28187.3	28082.1
50°	1388.3	1514.5	1724.9	1872.1	2545.3	4817.1	13210.2	26693.8	28481.8	28460.8
52.5°	1346.3	1472.5	1788.0	1788.0	2356.0	4648.8	13609.8	27114.5	28544.9	28713.2
55°	1283.2	1472.5	1661.8	1640.8	2187.7	4438.4	14051.6	28208.3	29659.8	29617.7
57.5°	1241.1	1430.4	1577.6	1493.5	1998.4	4291.2	14703.7	29260.1	31006.0	30711.5
60°	1178.0	1430.4	1409.4	1388.3	1851.1	4165.0	15250.6	29470.4	31300.5	31489.8
62.5°	1135.9	1493.5	1241.1	1283.2	1724.9	4101.9	15019.2	27892.8	30900.8	31069.1
65°	1093.8	1283.2	1135.9	1178.0	1682.8	3975.7	14114.7	25999.6	29176.0	29912.2
67.5°	1009.7	1051.8	1051.8	1093.8	1640.8	3681.2	12263.6	22591.9	26546.5	26946.2
70°	925.6	946.6	946.6	1009.7	1598.7	3344.6	10118.0	19541.8	23033.6	23790.9
72.5°	841.4	841.4	841.4	925.6	1472.5	3071.2	8330.0	15019.2	19142.1	19668.0
75°	736.2	736.2	736.2	820.4	1325.2	2797.7	6563.0	11169.7	14093.6	14850.9
77.5°	652.1	652.1	631.1	736.2	1156.9	2271.8	4732.9	7888.2	9928.7	10559.7
80°	546.9	525.9	525.9	589.0	904.5	1640.8	3050.1	5574.4	6920.6	7194.1
82.5°	441.7	420.7	399.7	441.7	652.1	1030.7	1893.2	3891.5	4438.4	4270.2
85°	420.7	441.7	357.6	336.6	462.8	673.1	1199.0	2398.0	1998.4	1998.4
87.5°	168.3	147.2	147.2	126.2	231.4	252.4	525.9	441.7	336.6	336.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)