

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: P599046

Luminaire Tested: **IFLD-L-SA7E-760-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599046
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-760-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 5700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

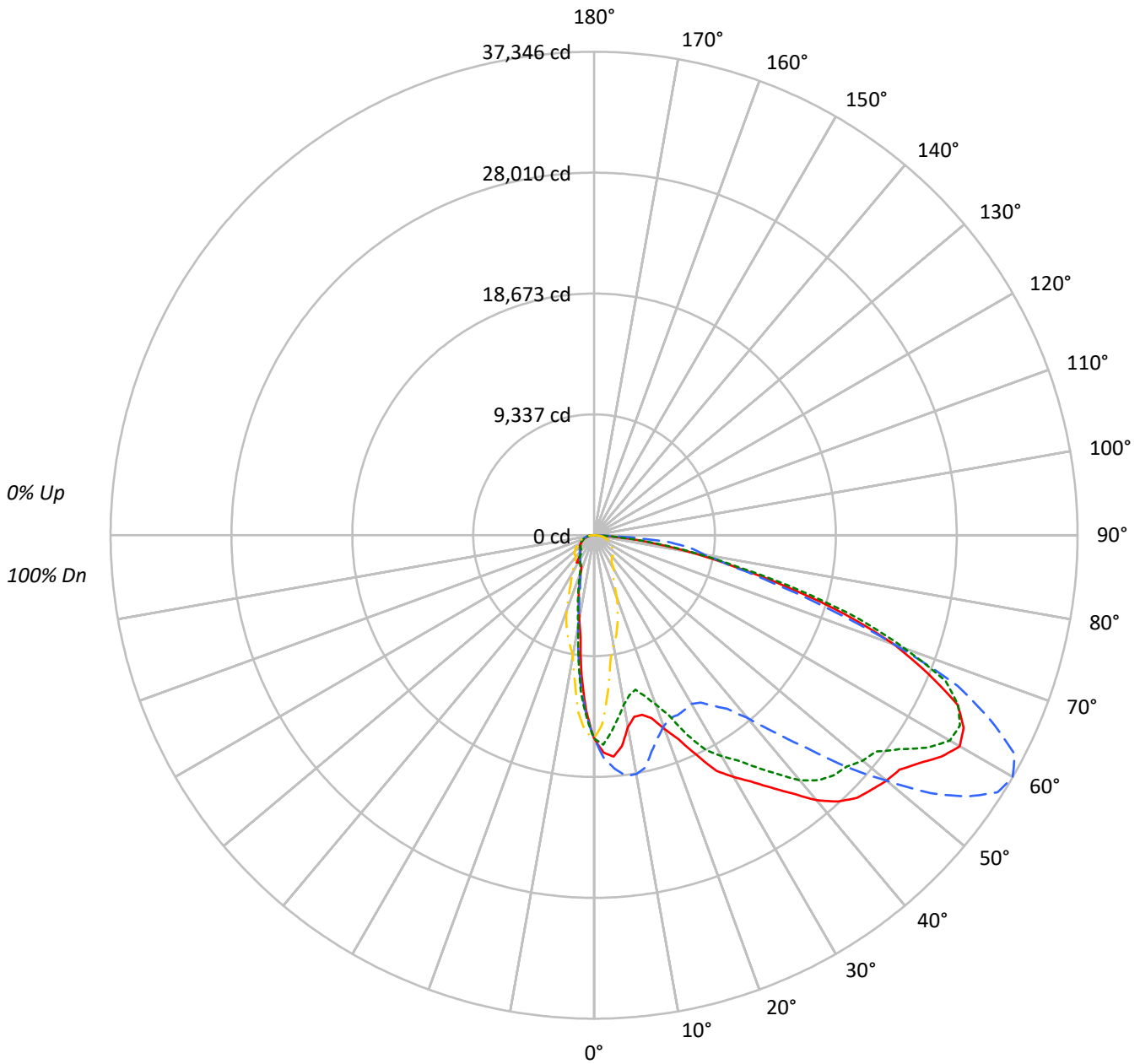
Lumens per Lamp: N/A
 Luminaire Lumens: 49117.4 lumens
 Efficiency: N/A
 Efficacy: 92.2 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 532.7
 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	100			100	
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77			77	
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60			60	
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47			47	
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38			38	
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31			31	
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26			26	
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22			22	
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19			19	
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17			17	
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15			15	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	84431	84431	84431	84431
5°	92758	82400	59092	64507
10°	82162	72516	35842	38461
15°	80004	68835	25373	26344
20°	91223	79617	16597	18344
25°	111144	100923	14491	15009
30°	133917	122407	15030	13947
35°	156182	143727	12454	11739
40°	187675	173592	11634	11022
45°	218409	199503	11775	10946
50°	246831	226764	12041	11311
55°	287860	270278	12471	11857
60°	351093	341478	12430	12430
65°	394569	395123	12764	13319
70°	387777	401491	13372	13714
75°	319874	341168	14044	14951
80°	230954	242434	15531	16206
85°	127818	137236	17494	21526

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.8	2.5
10°-20°	2573.1	5.2
20°-30°	3764.8	7.7
30°-40°	5304.4	10.8
40°-50°	7289.8	14.8
50°-60°	9935.2	20.2
60°-70°	10873.6	22.1
70°-80°	6277.7	12.8
80°-90°	1879.9	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°	7556.7	15.4
0°-40°	12861.1	26.2
0°-60°	30086.1	61.3
0°-90°	49117.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49117.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15688	15688	15688	15688	15688	
5°	17170	15252	10938	11940	17170	1559
15°	14359	12354	4554	4728	14359	4195
25°	18716	16995	2440	2528	18716	8764
35°	23771	21876	1896	1787	23771	15073
45°	28696	26212	1547	1438	28696	22055
55°	30678	28805	1329	1264	30678	27681
65°	30984	31027	1002	1046	30984	29655
75°	15383	16407	675	719	15383	16524
85°	2070	2222	283	349	2070	2872
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°	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8
2.5°	16799.0	16733.7	16799.0	17038.7	17104.1	17213.0	17213.0	17060.5	16777.3	16646.5	16428.6
5°	17169.5	17060.5	17605.2	18106.4	18498.6	18455.0	18084.6	17779.5	17213.0	16363.3	15557.1
7.5°	16428.6	16537.6	16929.8	18237.1	19152.2	19326.5	18738.2	18128.2	16908.0	15731.4	14642.0
10°	15034.2	15186.7	16036.4	17387.3	18825.4	19108.6	18738.2	17997.4	16537.6	15077.7	13814.0
12.5°	14358.7	14707.3	15208.5	16842.6	17866.7	18542.1	18367.8	17888.5	16254.3	14533.0	13312.9
15°	14358.7	14445.9	15186.7	16559.4	17147.7	17169.5	17234.8	17322.0	16341.5	14772.7	13138.6
17.5°	14816.3	15056.0	15687.8	16537.6	16646.5	16385.1	16385.1	16755.5	16515.8	15448.1	13770.4
20°	15927.5	15840.3	16668.3	17016.9	16428.6	15775.0	15709.6	16341.5	16711.9	16167.2	14925.2
22.5°	17038.7	17430.9	18106.4	17322.0	16232.5	15361.0	15273.8	16058.2	17300.2	17409.1	16254.3
25°	18716.4	19108.6	19457.3	18498.6	16210.8	15252.1	15317.4	15927.5	18019.2	19174.0	18476.8
27.5°	20524.9	20764.6	21265.7	19784.1	16733.7	15121.3	15186.7	16101.8	18694.7	20328.8	20219.9
30°	21549.0	21810.4	21701.5	20023.8	17082.3	15208.5	15034.2	16341.5	18324.2	20328.8	21352.9
32.5°	22551.2	22398.7	22333.4	20416.0	17518.1	15753.2	15317.4	16842.6	18542.1	20655.6	22812.7
35°	23771.4	23553.5	23379.2	21178.6	18237.1	16276.1	16080.0	17496.3	19021.5	21331.1	23989.3
37.5°	25122.3	25122.3	24272.5	21745.1	19086.9	17125.9	16908.0	18433.2	19784.1	21745.1	25601.7
40°	26712.9	26778.2	25274.8	22507.7	20045.6	18476.8	18411.4	19653.4	20524.9	22355.1	27148.7
42.5°	27889.5	27933.0	26146.4	22790.9	21156.8	20350.6	20633.8	21614.3	21374.7	22899.9	27257.6
45°	28695.6	28477.8	26756.5	23597.1	22376.9	23161.3	23248.5	23531.7	22485.9	23226.7	27693.4
47.5°	29087.8	29044.3	27017.9	24534.0	24948.0	26015.6	26516.8	26124.6	23509.9	22878.1	27693.4
50°	29480.0	29109.6	27257.6	25819.5	27453.7	29610.8	29501.8	28782.8	24926.2	23313.8	27279.4
52.5°	29741.5	29414.7	27736.9	26974.3	29850.4	32290.8	32726.5	31397.4	26582.1	24120.0	27475.5
55°	30678.4	30416.9	29175.0	28543.1	32617.6	35123.3	35188.7	33336.6	28325.2	25449.1	28761.0
57.5°	31811.4	31963.9	31157.8	30765.6	34731.1	37193.2	36953.5	34774.7	29806.9	27061.5	30242.6
60°	32617.6	32857.3	32661.2	32704.8	35777.0	37890.5	37345.7	35668.0	30896.3	28281.7	32051.1
62.5°	32181.8	32661.2	33467.4	33293.0	35820.5	37389.3	36626.7	34491.4	31027.0	29872.2	33423.8
65°	30983.5	31027.0	32595.8	33554.5	33859.6	34796.5	33794.2	32029.3	29676.1	30852.7	33227.7
67.5°	27911.3	28259.9	29676.1	31550.0	30264.4	30482.3	30395.2	27845.9	27628.0	30177.3	31724.3
70°	24643.0	24882.6	26429.6	28630.3	25558.1	24534.0	24730.1	22834.5	23727.8	28085.6	28695.6
72.5°	20372.4	20524.9	22289.8	24229.0	20503.1	18672.9	19130.4	17583.4	18847.2	24577.6	24207.2
75°	15382.8	15666.0	17038.7	19326.5	15099.5	13922.9	14380.5	13748.6	14925.2	20241.7	18781.8
77.5°	10937.9	10720.0	12419.5	15121.3	11351.9	10654.6	10698.2	10807.2	12070.9	17060.5	13487.2
80°	7451.7	7517.1	9042.3	11090.4	8911.6	8802.6	8693.7	9565.2	10131.7	13509.0	9804.9
82.5°	4423.1	4423.1	6100.8	7887.5	7037.7	7931.1	7429.9	8214.3	7931.1	9935.6	6427.7
85°	2069.9	2069.9	3137.6	5686.8	5447.2	6536.6	5556.1	6209.8	5861.1	6928.8	2897.9
87.5°	348.6	305.0	631.9	2788.9	2244.2	2549.3	1002.3	3311.9	3682.3	4837.1	719.0
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°	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8
2.5°	16189.0	16036.4	15731.4	15339.2	15012.4	14598.4	14467.7	14184.4	13792.2	13748.6	13574.3
5°	15252.1	14729.1	14075.5	13269.3	12724.6	12158.1	11678.7	11395.5	11068.6	11025.1	10937.9
7.5°	14228.0	13574.3	12484.9	11526.2	10589.3	9695.9	9260.2	8715.5	8345.1	8061.8	7931.1
10°	13269.3	12659.2	11308.3	10001.0	9173.0	8584.7	8061.8	7495.3	7037.7	6689.1	6558.4
12.5°	12637.4	11918.4	10458.5	9216.6	8606.5	7931.1	7342.8	6732.7	6144.4	5686.8	5447.2
15°	12354.2	11678.7	10197.1	8824.4	7931.1	6994.2	6318.7	5708.6	4989.6	4662.8	4553.8
17.5°	13029.6	12027.3	10109.9	8366.8	7103.1	6035.5	5207.5	4553.8	4030.9	3704.1	3573.3
20°	13901.2	12659.2	10262.5	7822.1	6318.7	5120.3	4205.2	3508.0	3159.4	2919.7	2897.9
22.5°	15012.4	13596.1	10502.1	7429.9	5447.2	4118.1	3290.1	2876.1	2636.4	2614.6	2571.1
25°	16995.1	15295.6	10894.3	6907.0	4749.9	3399.0	2810.7	2571.1	2462.1	2396.8	2440.3
27.5°	18694.7	16406.8	11177.6	6580.2	4466.7	3202.9	2723.6	2462.1	2353.2	2331.4	2353.2
30°	19696.9	17430.9	11090.4	5970.1	3900.2	3050.4	2897.9	2810.7	2592.8	2418.5	2418.5
32.5°	20612.1	18084.6	11068.6	5425.4	3333.7	2549.3	2418.5	2353.2	2483.9	2571.1	2505.7
35°	21875.8	19108.6	11003.3	5120.3	3094.0	2353.2	2135.3	1961.0	1873.8	1830.2	1895.6
37.5°	23226.7	19805.9	10829.0	5076.8	2963.3	2244.2	2069.9	1895.6	1808.5	1764.9	1743.1
40°	24708.3	20546.7	10632.9	4858.9	2897.9	2178.9	2004.6	1852.0	1743.1	1677.7	1655.9
42.5°	25667.0	21135.0	10436.8	4749.9	2767.2	2135.3	1939.2	1808.5	1699.5	1612.4	1612.4
45°	26211.7	21832.2	10240.7	4641.0	2614.6	2157.1	1939.2	1764.9	1634.1	1590.6	1547.0
47.5°	26451.4	22355.1	10175.3	4466.7	2483.9	2069.9	1895.6	1721.3	1590.6	1503.4	1481.6
50°	27083.3	23466.4	10415.0	4335.9	2331.4	1982.8	2004.6	1699.5	1568.8	1459.8	1438.1
52.5°	27453.7	24359.7	10937.9	4139.8	2222.4	1873.8	1961.0	1655.9	1503.4	1394.5	1394.5
55°	28804.6	25841.3	11504.4	3987.3	2091.7	1721.3	1808.5	1568.8	1394.5	1329.1	1329.1
57.5°	30525.9	27410.1	11983.8	3922.0	2004.6	1612.4	1612.4	1525.2	1329.1	1242.0	1220.2
60°	31724.3	28695.6	12267.0	3878.4	1917.4	1503.4	1438.1	1525.2	1263.7	1176.6	1154.8
62.5°	31855.0	27954.8	11983.8	3856.6	1895.6	1394.5	1307.3	1459.8	1198.4	1111.2	1067.6
65°	31027.0	26451.4	11199.4	3769.4	1873.8	1285.5	1220.2	1263.7	1111.2	1045.9	1002.3
67.5°	29371.1	24011.1	10066.4	3725.9	1852.0	1198.4	1111.2	1089.4	1024.1	958.7	915.1
70°	25514.5	20829.9	8737.2	3529.8	1808.5	1133.0	1002.3	980.5	915.1	871.5	849.8
72.5°	21418.2	17038.7	7212.0	3268.3	1721.3	1024.1	915.1	871.5	849.8	784.4	762.6
75°	16406.8	13116.8	5774.0	2897.9	1503.4	915.1	806.2	762.6	740.8	697.2	675.4
77.5°	11526.2	9761.3	4270.6	2353.2	1263.7	828.0	719.0	675.4	653.7	588.3	588.3
80°	7822.1	6841.6	2897.9	1634.1	980.5	675.4	631.9	588.3	544.7	501.1	501.1
82.5°	4858.9	4793.5	2091.7	1067.6	719.0	544.7	501.1	501.1	435.8	392.2	392.2
85°	2222.4	2941.5	1459.8	740.8	544.7	414.0	414.0	392.2	348.6	283.3	283.3
87.5°	697.2	980.5	762.6	326.8	305.0	239.7	239.7	217.9	217.9	174.3	174.3
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°	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8
2.5°	13748.6	13726.8	13726.8	13639.7	13857.6	13857.6	13988.3	13879.4	13944.7	13966.5	14140.8
5°	10916.1	11090.4	11221.2	11482.6	11635.1	11700.5	11700.5	11874.8	11809.4	11940.2	12201.6
7.5°	7996.4	8214.3	8606.5	8933.3	9194.8	9282.0	9260.2	9303.8	9369.1	9216.6	9260.2
10°	6471.2	6318.7	6449.4	6754.5	6994.2	7277.4	7059.5	7037.7	7103.1	7037.7	7168.5
12.5°	5403.6	5229.3	5120.3	5120.3	5294.6	5425.4	5360.0	5468.9	5708.6	5774.0	5926.5
15°	4379.5	4227.0	4139.8	4030.9	4205.2	4248.8	4314.2	4466.7	4641.0	4728.1	4902.4
17.5°	3508.0	3508.0	3508.0	3420.8	3486.2	3551.5	3573.3	3769.4	3791.2	3878.4	3943.7
20°	2876.1	2941.5	3050.4	3094.0	3159.4	3159.4	3115.8	3224.7	3137.6	3202.9	3246.5
22.5°	2592.8	2680.0	2723.6	2745.4	2832.5	2854.3	2745.4	2767.2	2788.9	2723.6	2745.4
25°	2440.3	2483.9	2440.3	2462.1	2483.9	2440.3	2462.1	2505.7	2483.9	2527.5	2505.7
27.5°	2375.0	2331.4	2309.6	2287.8	2287.8	2244.2	2266.0	2266.0	2309.6	2331.4	2331.4
30°	2375.0	2309.6	2222.4	2157.1	2157.1	2091.7	2135.3	2178.9	2200.7	2244.2	2244.2
32.5°	2440.3	2309.6	2157.1	2091.7	2026.3	1982.8	2026.3	2091.7	2178.9	2200.7	2222.4
35°	1939.2	2004.6	1982.8	1895.6	1873.8	1873.8	1852.0	1852.0	1786.7	1786.7	1764.9
37.5°	1743.1	1721.3	1764.9	1786.7	1808.5	1743.1	1743.1	1655.9	1634.1	1655.9	1655.9
40°	1634.1	1634.1	1634.1	1699.5	1721.3	1677.7	1612.4	1568.8	1568.8	1568.8	1590.6
42.5°	1590.6	1547.0	1525.2	1568.8	1634.1	1590.6	1525.2	1503.4	1503.4	1525.2	1525.2
45°	1525.2	1503.4	1481.6	1459.8	1547.0	1481.6	1459.8	1438.1	1438.1	1438.1	1459.8
47.5°	1459.8	1438.1	1394.5	1394.5	1416.3	1394.5	1372.7	1372.7	1372.7	1416.3	1416.3
50°	1416.3	1394.5	1350.9	1350.9	1350.9	1350.9	1329.1	1329.1	1329.1	1350.9	1372.7
52.5°	1350.9	1329.1	1307.3	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1307.3	1329.1
55°	1285.5	1263.7	1242.0	1242.0	1263.7	1263.7	1242.0	1263.7	1242.0	1263.7	1285.5
57.5°	1220.2	1198.4	1176.6	1198.4	1220.2	1198.4	1198.4	1198.4	1198.4	1198.4	1220.2
60°	1133.0	1133.0	1133.0	1133.0	1176.6	1176.6	1176.6	1176.6	1133.0	1154.8	1176.6
62.5°	1089.4	1067.6	1067.6	1089.4	1111.2	1111.2	1133.0	1111.2	1089.4	1111.2	1111.2
65°	1002.3	1002.3	1002.3	1024.1	1024.1	1045.9	1045.9	1045.9	1024.1	1045.9	1045.9
67.5°	936.9	936.9	936.9	936.9	980.5	980.5	980.5	980.5	958.7	958.7	980.5
70°	828.0	849.8	828.0	871.5	915.1	893.3	915.1	915.1	893.3	871.5	915.1
72.5°	762.6	762.6	762.6	762.6	828.0	828.0	828.0	849.8	828.0	806.2	828.0
75°	675.4	675.4	675.4	697.2	740.8	740.8	740.8	740.8	740.8	719.0	719.0
77.5°	588.3	610.1	588.3	610.1	653.7	631.9	653.7	675.4	653.7	631.9	631.9
80°	501.1	501.1	501.1	522.9	544.7	544.7	544.7	566.5	544.7	522.9	522.9
82.5°	392.2	392.2	414.0	414.0	435.8	435.8	435.8	457.6	435.8	414.0	414.0
85°	305.0	305.0	305.0	326.8	326.8	348.6	348.6	370.4	370.4	348.6	348.6
87.5°	196.1	174.3	196.1	196.1	217.9	217.9	196.1	174.3	196.1	174.3	152.5
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: P599046
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8	15687.8
2.5°	14315.1	14707.3	14990.6	15186.7	15469.9	16014.7	16232.5	16624.7	16733.7	16799.0
5°	12310.6	12724.6	13334.7	13770.4	14271.6	15295.6	16080.0	16668.3	16929.8	17169.5
7.5°	9652.4	10197.1	10829.0	11395.5	12223.4	13487.2	14511.2	15731.4	16189.0	16428.6
10°	7538.9	8040.0	8737.2	9434.5	10589.3	11656.9	13116.8	14228.0	14859.9	15034.2
12.5°	6362.3	6950.6	7778.5	8628.3	9347.3	10567.5	12049.1	13661.5	14249.8	14358.7
15°	5403.6	6209.8	7059.5	7931.1	8759.0	9826.7	11417.2	13378.2	14249.8	14358.7
17.5°	4466.7	5185.7	6188.0	7124.9	8083.6	9543.4	11526.2	13617.9	14489.4	14816.3
20°	3551.5	4248.8	5033.2	6209.8	7517.1	9064.1	11765.9	14424.1	15578.9	15927.5
22.5°	2941.5	3246.5	4009.1	5142.1	6689.1	8737.2	12005.5	15687.8	16908.0	17038.7
25°	2571.1	2788.9	3268.3	4335.9	6035.5	8519.4	12572.0	17147.7	18716.4	18716.4
27.5°	2396.8	2483.9	2810.7	3769.4	5577.9	8323.3	13138.6	18760.0	20219.9	20524.9
30°	2353.2	2571.1	2745.4	3355.5	5076.8	7778.5	13661.5	20023.8	21527.2	21549.0
32.5°	2309.6	2266.0	2396.8	2919.7	4466.7	7212.0	14097.3	21309.3	22485.9	22551.2
35°	1808.5	1895.6	2113.5	2571.1	4009.1	6798.1	14315.1	22006.5	23706.0	23771.4
37.5°	1699.5	1808.5	1982.8	2375.0	3704.1	6449.4	14380.5	23357.4	24991.6	25122.3
40°	1655.9	1743.1	1873.8	2200.7	3464.4	6013.7	14511.2	24751.9	26887.2	26712.9
42.5°	1568.8	1677.7	1808.5	2113.5	3268.3	5686.8	14533.0	25514.5	27889.5	27889.5
45°	1547.0	1612.4	1764.9	2113.5	3050.4	5403.6	14184.4	26277.1	29044.3	28695.6
47.5°	1459.8	1590.6	1721.3	2048.1	2788.9	5120.3	13770.4	26669.3	29196.8	29087.8
50°	1438.1	1568.8	1786.7	1939.2	2636.4	4989.6	13683.3	27649.8	29501.8	29480.0
52.5°	1394.5	1525.2	1852.0	1852.0	2440.3	4815.3	14097.3	28085.6	29567.2	29741.5
55°	1329.1	1525.2	1721.3	1699.5	2266.0	4597.4	14554.8	29218.6	30722.0	30678.4
57.5°	1285.5	1481.6	1634.1	1547.0	2069.9	4444.9	15230.3	30308.0	32116.5	31811.4
60°	1220.2	1481.6	1459.8	1438.1	1917.4	4314.2	15796.8	30525.9	32421.5	32617.6
62.5°	1176.6	1547.0	1285.5	1329.1	1786.7	4248.8	15557.1	28891.7	32007.5	32181.8
65°	1133.0	1329.1	1176.6	1220.2	1743.1	4118.1	14620.2	26930.8	30220.8	30983.5
67.5°	1045.9	1089.4	1089.4	1133.0	1699.5	3813.0	12702.8	23401.0	27497.3	27911.3
70°	958.7	980.5	980.5	1045.9	1655.9	3464.4	10480.3	20241.7	23858.6	24643.0
72.5°	871.5	871.5	871.5	958.7	1525.2	3181.1	8628.3	15557.1	19827.7	20372.4
75°	762.6	762.6	762.6	849.8	1372.7	2897.9	6798.1	11569.8	14598.4	15382.8
77.5°	675.4	675.4	653.7	762.6	1198.4	2353.2	4902.4	8170.7	10284.2	10937.9
80°	566.5	544.7	544.7	610.1	936.9	1699.5	3159.4	5774.0	7168.5	7451.7
82.5°	457.6	435.8	414.0	457.6	675.4	1067.6	1961.0	4030.9	4597.4	4423.1
85°	435.8	457.6	370.4	348.6	479.4	697.2	1242.0	2483.9	2069.9	2069.9
87.5°	174.3	152.5	152.5	130.7	239.7	261.5	544.7	457.6	348.6	348.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)