

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: P598716

Luminaire Tested: **IFLD-S-SA6D-740-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598716
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6D-740-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (96) 4000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

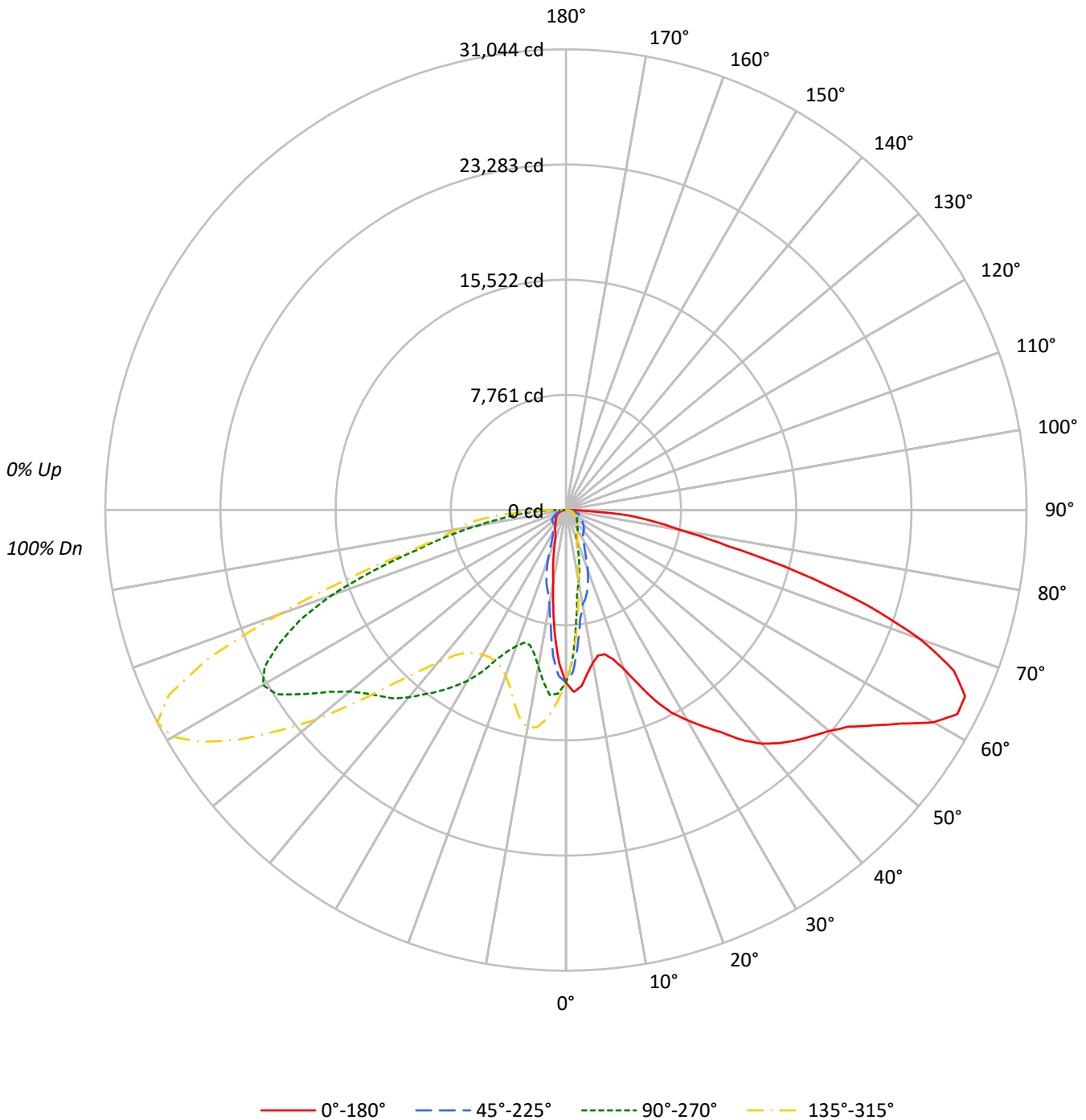
Lumens per Lamp: N/A
 Luminaire Lumens: 38890.0 lumens
 Efficiency: N/A
 Efficacy: 105.6 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 368.2
 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	102	102	102	102	100		
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	79	79	79	79	79	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	61	61	61	61	61	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	48	48	48	48	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	39	39	39	39	39	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	32	32	32	32	32	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	27	27	27	27	27	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	23	23	23	23	23	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	20	20	20	20	20	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	18	18	18	18	18	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	16	16	16	16	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	83364	83364	83364	83364
5°	85792	55789	60945	90128
10°	76114	35449	35804	77892
15°	74701	25142	23812	69866
20°	86850	15904	16028	74425
25°	111692	13656	13269	87989
30°	135358	12943	12133	110147
35°	160208	11402	10975	130560
40°	192500	10821	10060	154244
45°	222744	10733	9742	179814
50°	258656	10898	9809	212339
55°	316534	11196	9975	270529
60°	410516	11209	10508	338360
65°	503914	11327	10775	362189
70°	533225	11949	11265	352639
75°	448857	12632	11279	287810
80°	326101	14794	11430	248778
85°	345625	21432	9378	258547

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.1	2.3
10°-20°	1881.6	4.8
20°-30°	2711.6	7.0
30°-40°	3903.6	10.0
40°-50°	5544.9	14.3
50°-60°	7971.9	20.5
60°-70°	9210.2	23.7
70°-80°	5215.0	13.4
80°-90°	1552.0	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°	5492.3	14.1
0°-40°	9396.0	24.2
0°-60°	22912.8	58.9
0°-90°	38890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38890.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11617	11617	11617	11617	11617	
5°	11910	7745	8461	12512	11910	1081
15°	10055	3384	3205	9404	10055	2957
25°	14106	1725	1676	11113	14106	6548
35°	18288	1302	1253	14904	18288	11607
45°	21949	1058	960	17719	21949	16995
55°	25301	895	797	21624	25301	22914
65°	29677	667	635	21331	29677	28458
75°	16189	456	407	10381	16189	17178
85°	4198	260	114	3140	4198	4181
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°	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2
2.5°	12268.0	12251.7	12154.1	11844.9	11519.5	11210.4	10917.5	10608.4	10445.7	10250.4	10169.1
5°	11910.0	11877.5	11600.9	10917.5	10315.5	9664.7	9111.5	8672.2	8314.2	7956.3	7826.1
7.5°	11096.5	11047.7	10722.3	9778.6	8900.0	8053.9	7386.8	6817.4	6345.5	6134.0	5889.9
10°	10445.7	10364.3	9941.3	8900.0	7761.0	6915.0	6475.7	6085.2	5678.4	5336.7	4978.8
12.5°	10038.9	9941.3	9502.0	8281.7	7175.3	6540.8	6085.2	5645.9	5141.5	4718.5	4328.0
15°	10055.2	9941.3	9404.4	8119.0	7028.9	6215.3	5580.8	4978.8	4393.0	3921.2	3481.9
17.5°	10527.0	10380.6	9811.1	8346.8	6915.0	5792.3	4946.2	4165.3	3498.2	2993.8	2635.8
20°	11373.1	11275.5	10624.7	8688.5	6801.1	5336.7	4295.4	3351.7	2652.1	2261.6	2115.2
22.5°	12642.2	12528.3	11828.7	9209.1	6768.5	4930.0	3595.8	2635.8	2131.4	1968.7	1887.4
25°	14106.5	13895.0	13244.2	10087.7	6833.6	4555.7	3026.3	2180.3	1903.7	1789.8	1740.9
27.5°	15375.7	15245.5	14513.3	10917.5	6866.2	4262.9	2635.8	1985.0	1773.5	1675.9	1643.3
30°	16335.6	16286.8	15570.9	11828.7	6784.8	3904.9	2391.8	1903.7	1773.5	1675.9	1578.2
32.5°	17295.6	17311.8	16547.1	12528.3	6670.9	3595.8	2164.0	1692.1	1562.0	1496.9	1513.2
35°	18288.1	18369.4	17718.6	13211.7	6426.9	3481.9	2001.3	1578.2	1464.3	1366.7	1317.9
37.5°	19540.9	19752.4	19117.9	13976.4	6182.8	3384.3	1919.9	1496.9	1383.0	1301.6	1236.6
40°	20549.7	20940.2	20566.0	14692.3	6020.1	3270.4	1854.8	1415.5	1334.2	1236.6	1187.7
42.5°	21298.1	21753.7	21623.5	15245.5	6020.1	3156.5	1789.8	1366.7	1301.6	1187.7	1122.7
45°	21948.9	22420.8	22404.5	15815.0	6150.3	3091.4	1708.4	1366.7	1269.1	1155.2	1090.1
47.5°	22534.7	23006.5	23169.2	16530.9	6361.8	3058.9	1610.8	1334.2	1269.1	1138.9	1041.3
50°	23169.2	23689.9	24178.0	17669.8	6622.1	2977.5	1545.7	1285.4	1285.4	1122.7	1008.8
52.5°	23982.8	24568.5	25463.4	19085.3	6882.4	2831.1	1448.1	1252.8	1285.4	1106.4	976.2
55°	25300.7	25788.8	26960.3	20777.5	7207.8	2652.1	1366.7	1171.5	1220.3	1057.6	927.4
57.5°	26781.3	27204.3	28180.6	22079.1	7305.5	2424.3	1252.8	1090.1	1171.5	1008.8	862.3
60°	28603.6	28815.1	28815.1	22453.3	6980.1	2212.8	1171.5	1025.0	1057.6	960.0	813.5
62.5°	29758.8	29758.8	28815.1	21770.0	6361.8	2033.8	1106.4	960.0	927.4	894.9	764.7
65°	29677.4	29547.3	28148.0	19785.0	5645.9	1919.9	1041.3	878.6	829.8	813.5	715.9
67.5°	28310.7	28082.9	26179.3	16986.4	4897.4	1871.1	976.2	797.3	764.7	732.2	650.8
70°	25414.6	24828.8	22485.9	13667.2	4165.3	1838.6	960.0	732.2	699.6	667.1	602.0
72.5°	21216.8	20468.3	17555.9	10510.8	3498.2	1724.7	911.1	650.8	634.6	602.0	536.9
75°	16189.2	14806.2	12251.7	8037.6	2717.2	1496.9	781.0	569.5	569.5	553.2	488.1
77.5°	11161.6	10445.7	8542.0	5938.7	1985.0	1155.2	634.6	504.4	504.4	520.7	455.6
80°	7891.2	7224.1	6085.2	4262.9	1252.8	781.0	488.1	423.0	471.8	504.4	423.0
82.5°	6036.4	5548.3	4523.2	3107.7	732.2	536.9	374.2	341.7	406.8	439.3	358.0
85°	4197.8	3612.1	2294.1	2082.6	423.0	325.4	276.6	276.6	358.0	439.3	325.4
87.5°	1187.7	504.4	146.4	618.3	179.0	130.2	97.6	65.1	97.6	97.6	65.1
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°	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2
2.5°	10087.7	9990.1	9990.1	9957.6	9973.8	9990.1	9973.8	10087.7	10136.5	10201.6	10331.8
5°	7744.8	7874.9	7777.3	7874.9	8005.1	8200.3	8249.2	8395.6	8411.9	8525.8	8460.7
7.5°	5743.5	5727.2	5645.9	5759.8	6117.7	6394.3	6524.5	6605.8	6622.1	6622.1	6540.8
10°	4864.9	4718.5	4572.0	4490.7	4523.2	4816.1	4913.7	4962.5	4930.0	4978.8	4913.7
12.5°	4165.3	4035.1	3823.6	3677.1	3579.5	3660.9	3758.5	3807.3	3839.8	3921.2	3986.3
15°	3384.3	3254.1	3123.9	3042.6	2961.2	2896.2	2977.5	3026.3	3107.7	3172.8	3205.3
17.5°	2570.7	2505.7	2440.6	2489.4	2489.4	2456.9	2489.4	2505.7	2538.2	2587.0	2570.7
20°	2082.6	2066.4	2050.1	2131.4	2196.5	2196.5	2229.1	2180.3	2164.0	2115.2	2098.9
22.5°	1854.8	1854.8	1871.1	1936.2	2001.3	2033.8	2033.8	1952.5	1871.1	1838.6	1854.8
25°	1724.7	1724.7	1773.5	1789.8	1822.3	1822.3	1838.6	1757.2	1708.4	1659.6	1675.9
27.5°	1627.1	1627.1	1643.3	1643.3	1659.6	1659.6	1675.9	1643.3	1578.2	1562.0	1562.0
30°	1562.0	1562.0	1545.7	1545.7	1545.7	1545.7	1562.0	1513.2	1480.6	1464.3	1464.3
32.5°	1496.9	1480.6	1464.3	1464.3	1448.1	1448.1	1464.3	1415.5	1399.3	1399.3	1399.3
35°	1301.6	1285.4	1301.6	1334.2	1334.2	1350.5	1350.5	1334.2	1301.6	1269.1	1252.8
37.5°	1220.3	1204.0	1204.0	1204.0	1236.6	1252.8	1269.1	1236.6	1187.7	1138.9	1138.9
40°	1155.2	1155.2	1138.9	1138.9	1138.9	1171.5	1204.0	1155.2	1090.1	1073.9	1073.9
42.5°	1106.4	1090.1	1073.9	1057.6	1041.3	1090.1	1122.7	1057.6	1025.0	1025.0	1025.0
45°	1057.6	1041.3	1025.0	1008.8	992.5	1008.8	1041.3	976.2	960.0	960.0	960.0
47.5°	1008.8	992.5	960.0	943.7	927.4	927.4	960.0	911.1	894.9	911.1	911.1
50°	976.2	943.7	911.1	894.9	878.6	878.6	878.6	862.3	862.3	862.3	878.6
52.5°	943.7	911.1	862.3	846.1	829.8	829.8	829.8	829.8	813.5	829.8	846.1
55°	894.9	862.3	829.8	813.5	797.3	781.0	797.3	781.0	781.0	797.3	797.3
57.5°	829.8	797.3	764.7	764.7	748.4	748.4	764.7	748.4	748.4	764.7	764.7
60°	781.0	748.4	715.9	715.9	699.6	715.9	732.2	715.9	715.9	715.9	732.2
62.5°	715.9	699.6	667.1	667.1	667.1	667.1	683.4	667.1	683.4	683.4	683.4
65°	667.1	634.6	618.3	618.3	618.3	618.3	650.8	618.3	634.6	634.6	634.6
67.5°	618.3	585.7	569.5	569.5	569.5	569.5	602.0	569.5	585.7	602.0	585.7
70°	569.5	536.9	520.7	520.7	520.7	520.7	536.9	520.7	520.7	536.9	536.9
72.5°	504.4	488.1	471.8	471.8	455.6	471.8	488.1	471.8	471.8	471.8	471.8
75°	455.6	439.3	439.3	423.0	423.0	423.0	439.3	406.8	406.8	406.8	406.8
77.5°	423.0	390.5	390.5	390.5	374.2	390.5	374.2	341.7	341.7	341.7	341.7
80°	358.0	325.4	341.7	341.7	325.4	325.4	309.1	276.6	276.6	276.6	276.6
82.5°	292.9	260.3	276.6	276.6	276.6	276.6	244.1	227.8	211.5	195.2	195.2
85°	260.3	211.5	244.1	244.1	227.8	227.8	162.7	162.7	130.2	130.2	113.9
87.5°	48.8	32.5	65.1	81.4	81.4	97.6	65.1	81.4	48.8	32.5	32.5
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°	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2
2.5°	10315.5	10494.5	10738.6	10917.5	11194.1	11405.6	11731.1	12007.7	12268.0	12381.9	12495.8
5°	8655.9	8769.8	9144.0	9436.9	9876.2	10348.1	10933.8	11568.3	12219.2	12512.0	12853.7
7.5°	6475.7	6687.2	6898.7	7321.7	7858.7	8623.4	9371.8	10315.5	11226.7	11666.0	12251.7
10°	5027.6	5190.3	5434.4	5873.7	6378.0	7012.6	7907.5	9030.1	10120.3	10689.7	11291.7
12.5°	4035.1	4262.9	4588.3	5043.9	5629.6	6280.4	6931.2	7972.6	9241.7	9892.5	10575.8
15°	3270.4	3449.4	3807.3	4376.8	5060.1	5727.2	6410.6	7272.9	8655.9	9404.4	10217.9
17.5°	2603.3	2733.4	3058.9	3628.3	4311.7	5060.1	5841.1	6931.2	8460.7	9371.8	10331.8
20°	2115.2	2212.8	2424.3	2847.3	3498.2	4311.7	5287.9	6605.8	8574.6	9746.0	10917.5
22.5°	1854.8	1887.4	1985.0	2212.8	2749.7	3612.1	4783.5	6329.2	8786.1	10299.2	11877.5
25°	1675.9	1708.4	1740.9	1887.4	2196.5	3010.0	4344.2	6166.5	9241.7	11112.8	12983.9
27.5°	1562.0	1594.5	1610.8	1675.9	1887.4	2570.7	3970.0	6068.9	9859.9	12300.5	14350.6
30°	1464.3	1464.3	1513.2	1610.8	1757.2	2261.6	3644.6	5841.1	10510.8	13293.0	15424.5
32.5°	1383.0	1399.3	1464.3	1513.2	1610.8	2001.3	3319.2	5548.3	11096.5	14106.5	16482.0
35°	1236.6	1236.6	1252.8	1334.2	1464.3	1789.8	3026.3	5255.4	11421.9	14903.8	17425.7
37.5°	1138.9	1155.2	1187.7	1252.8	1366.7	1643.3	2782.3	4930.0	11763.6	15652.3	18532.1
40°	1073.9	1090.1	1122.7	1187.7	1301.6	1513.2	2570.7	4669.6	12121.5	16465.8	19719.9
42.5°	1025.0	1041.3	1073.9	1138.9	1236.6	1480.6	2343.0	4458.1	12333.1	17214.2	20842.5
45°	976.2	992.5	1041.3	1106.4	1187.7	1448.1	2212.8	4311.7	12414.4	17718.6	21737.4
47.5°	927.4	943.7	992.5	1090.1	1187.7	1399.3	2164.0	4230.3	12479.5	18288.1	22453.3
50°	878.6	911.1	976.2	1073.9	1204.0	1334.2	2131.4	4214.1	12853.7	19020.3	23136.7
52.5°	846.1	894.9	960.0	1073.9	1187.7	1236.6	2115.2	4262.9	13602.2	20110.4	24112.9
55°	813.5	862.3	927.4	1073.9	1138.9	1155.2	2033.8	4344.2	14741.1	21623.5	25495.9
57.5°	781.0	813.5	894.9	1041.3	1073.9	1090.1	1871.1	4458.1	15880.0	23104.2	26911.5
60°	732.2	764.7	846.1	1041.3	976.2	1025.0	1659.6	4490.7	16693.6	23576.0	27041.6
62.5°	683.4	715.9	797.3	1073.9	894.9	960.0	1480.6	4376.8	16856.3	22892.6	26309.4
65°	634.6	667.1	732.2	894.9	829.8	894.9	1366.7	4067.6	16319.3	21330.7	24975.3
67.5°	585.7	618.3	667.1	732.2	748.4	813.5	1317.9	3579.5	14968.9	19394.5	23153.0
70°	520.7	553.2	602.0	650.8	667.1	764.7	1236.6	3107.7	12788.6	16807.5	20923.9
72.5°	471.8	488.1	536.9	569.5	602.0	699.6	1187.7	2717.2	9778.6	13602.2	17067.8
75°	406.8	406.8	455.6	488.1	520.7	618.3	1090.1	2261.6	6898.7	10380.6	12544.6
77.5°	341.7	341.7	374.2	406.8	439.3	536.9	927.4	1838.6	4783.5	8232.9	9095.2
80°	260.3	260.3	292.9	325.4	358.0	455.6	748.4	1350.5	2961.2	6020.1	6622.1
82.5°	179.0	179.0	227.8	244.1	260.3	358.0	569.5	927.4	1740.9	4344.2	4734.7
85°	97.6	97.6	130.2	146.4	179.0	260.3	423.0	650.8	1041.3	3140.2	3156.5
87.5°	16.3	16.3	48.8	48.8	81.4	130.2	244.1	358.0	585.7	1740.9	1106.4
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: P598716
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2	11617.2
2.5°	12707.3	12886.3	12902.5	12902.5	12821.2	12837.4	12609.7	12365.6	12284.3	12268.0
5°	13374.4	13846.2	13976.4	14041.5	13830.0	13504.5	12918.8	12284.3	11958.8	11910.0
7.5°	13244.2	14187.9	14692.3	14757.4	14334.3	13569.6	12544.6	11568.3	11194.1	11096.5
10°	12479.5	13748.6	14659.7	14887.5	14432.0	13455.7	12121.5	10982.6	10527.0	10445.7
12.5°	11942.6	13162.9	14057.7	14366.9	14155.4	13309.3	11910.0	10608.4	10152.8	10038.9
15°	11649.7	12772.4	13358.1	13455.7	13439.5	13081.5	11910.0	10689.7	10185.4	10055.2
17.5°	11893.8	12658.5	12739.8	12512.0	12642.2	12821.2	12170.4	11129.0	10640.9	10527.0
20°	12381.9	12609.7	12219.2	11877.5	11942.6	12512.0	12577.1	11958.8	11568.3	11373.1
22.5°	13406.9	12788.6	11893.8	11421.9	11470.7	12268.0	13114.0	13081.5	12739.8	12642.2
25°	14448.2	13293.0	11796.1	11242.9	11308.0	12219.2	13748.6	14334.3	14155.4	14106.5
27.5°	15603.4	14139.1	11861.2	11161.6	11242.9	12284.3	14187.9	15391.9	15424.5	15375.7
30°	16384.4	14545.9	12056.5	11259.2	11373.1	12447.0	14285.5	16026.5	16319.3	16335.6
32.5°	17035.2	14952.6	12463.2	11421.9	11617.2	12739.8	14545.9	16628.5	17279.3	17295.6
35°	17555.9	15408.2	12967.6	11714.8	12007.7	13227.9	14887.5	17198.0	18174.2	18288.1
37.5°	18223.0	15912.6	13553.4	12349.3	12674.7	13927.6	15489.5	17865.0	19231.8	19540.9
40°	18938.9	16417.0	14399.4	13374.4	13846.2	14968.9	16172.9	18613.5	20126.6	20549.7
42.5°	19736.2	16953.9	15359.4	14757.4	15473.3	16286.8	16953.9	19296.8	20810.0	21298.1
45°	20517.1	17604.7	16758.6	16644.8	17442.0	17848.8	17718.6	19785.0	21460.8	21948.9
47.5°	21070.3	18548.4	18450.8	19134.1	19882.6	19671.1	18613.5	20142.9	21997.8	22534.7
50°	21574.7	19719.9	20582.2	21916.4	22372.0	21656.1	19573.4	20631.0	22567.2	23169.2
52.5°	22323.2	20972.7	22778.7	24438.3	24877.6	23738.7	20614.8	21428.3	23445.8	23982.8
55°	23852.6	22388.3	25072.9	26976.5	27057.9	25642.4	22014.0	22778.7	24682.4	25300.7
57.5°	25561.0	24129.2	26895.2	29075.4	29042.9	27546.0	23592.3	24601.0	26358.3	26781.3
60°	27106.7	25886.4	28880.2	30572.3	30491.0	28929.0	25430.8	26667.4	28278.2	28603.6
62.5°	28017.9	27480.9	29758.8	31044.2	30735.0	29384.6	26992.8	28506.0	29644.9	29758.8
65°	27871.4	28392.1	28733.8	29531.0	29091.7	28115.5	27757.5	29677.4	29791.3	29677.4
67.5°	26765.0	27871.4	25919.0	26000.3	25772.5	24942.7	26569.8	29368.3	28587.3	28310.7
70°	25089.2	25170.5	21672.3	20647.3	21005.3	19866.3	22795.0	26960.3	25756.2	25414.6
72.5°	22306.9	21298.1	16384.4	15343.1	15880.0	15066.5	18288.1	23494.6	22323.2	21216.8
75°	18711.1	16872.5	12479.5	10998.9	11275.5	11242.9	14171.6	19410.7	17295.6	16189.2
77.5°	14497.0	13146.6	9209.1	8639.7	8346.8	8411.9	9892.5	14432.0	12544.6	11161.6
80°	10592.1	9192.8	7126.5	7451.9	7289.2	6898.7	6931.2	9664.7	8721.0	7891.2
82.5°	7321.7	6540.8	5776.0	6524.5	6134.0	5532.0	5401.8	6963.8	6540.8	6036.4
85°	4913.7	5385.5	4588.3	4995.1	4328.0	3986.3	5076.4	5824.8	4702.2	4197.8
87.5°	3205.3	4930.0	3302.9	2505.7	1431.8	1919.9	3107.7	3823.6	2196.5	1187.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)