

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: P598669

Luminaire Tested: **IFLD-L-SA7E-730-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598669
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-730-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 3000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

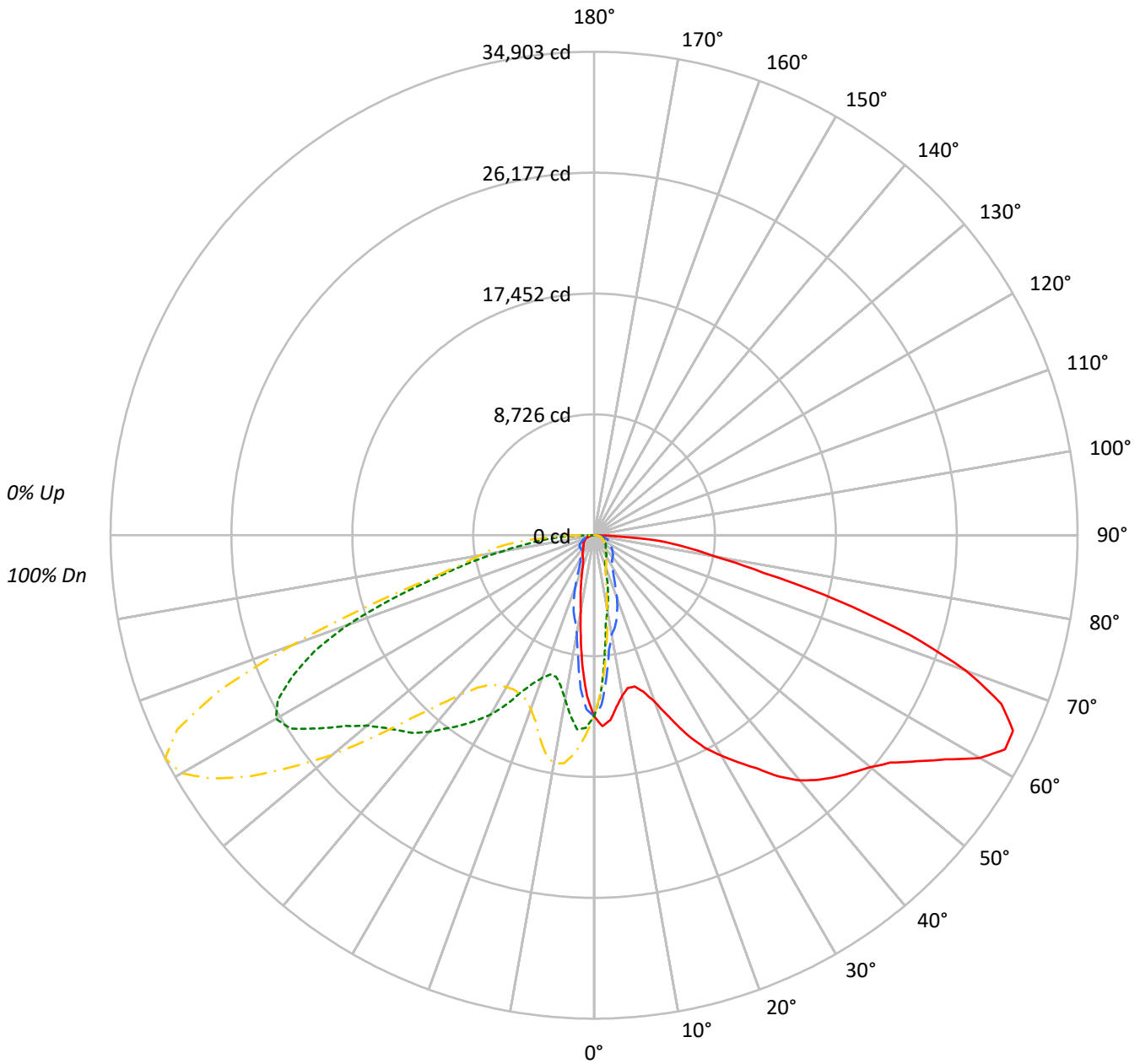
Lumens per Lamp: N/A
 Luminaire Lumens: 43723.7 lumens
 Efficiency: N/A
 Efficacy: 82.1 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 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	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°	70294	70294	70294	70294
5°	72341	47042	51390	75998
10°	64181	29891	30191	65680
15°	62989	21200	20079	58912
20°	73234	13411	13515	62757
25°	94181	11514	11189	74194
30°	114136	10913	10232	92878
35°	135090	9615	9254	110091
40°	162319	9125	8482	130061
45°	187823	9050	8215	151623
50°	218104	9190	8271	179047
55°	266907	9440	8410	228116
60°	346155	9452	8861	285312
65°	424910	9551	9085	305405
70°	449625	10074	9500	297351
75°	378485	10651	9509	242686
80°	274974	12472	9639	209773
85°	291434	18075	7904	218012

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.8	2.3
10°-20°	2115.5	4.8
20°-30°	3048.7	7.0
30°-40°	4388.8	10.0
40°-50°	6234.0	14.3
50°-60°	8962.8	20.5
60°-70°	10355.0	23.7
70°-80°	5863.2	13.4
80°-90°	1744.9	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°	6175.0	14.1
0°-40°	10563.8	24.2
0°-60°	25760.7	58.9
0°-90°	43723.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43723.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13061	13061	13061	13061	13061	
5°	13390	8707	9512	14067	13390	1215
15°	11305	3805	3604	10573	11305	3324
25°	15860	1939	1884	12494	15860	7361
35°	20561	1463	1408	16756	20561	13049
45°	24677	1189	1079	19921	24677	19108
55°	28445	1006	896	24311	28445	25762
65°	33366	750	713	23982	33366	31996
75°	18201	512	457	11671	18201	19313
85°	4720	293	128	3530	4720	4700
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°	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1
2.5°	13792.8	13774.5	13664.7	13317.2	12951.3	12603.8	12274.5	11926.9	11744.0	11524.5	11433.0
5°	13390.3	13353.8	13042.8	12274.5	11597.6	10865.9	10244.0	9750.1	9347.6	8945.2	8798.8
7.5°	12475.7	12420.8	12055.0	10994.0	10006.2	9054.9	8304.9	7664.7	7134.2	6896.4	6622.0
10°	11744.0	11652.5	11176.9	10006.2	8725.7	7774.4	7280.5	6841.5	6384.2	6000.0	5597.6
12.5°	11286.7	11176.9	10683.0	9311.0	8067.1	7353.7	6841.5	6347.6	5780.5	5304.9	4865.9
15°	11305.0	11176.9	10573.3	9128.1	7902.5	6987.9	6274.4	5597.6	4939.1	4408.6	3914.7
17.5°	11835.5	11670.8	11030.6	9384.2	7774.4	6512.2	5561.0	4683.0	3933.0	3365.9	2963.4
20°	12786.7	12676.9	11945.2	9768.4	7646.4	6000.0	4829.3	3768.3	2981.7	2542.7	2378.1
22.5°	14213.5	14085.5	13298.9	10353.7	7609.8	5542.7	4042.7	2963.4	2396.4	2213.4	2122.0
25°	15859.9	15622.1	14890.4	11341.5	7683.0	5122.0	3402.5	2451.2	2140.3	2012.2	1957.3
27.5°	17286.7	17140.4	16317.2	12274.5	7719.6	4792.7	2963.4	2231.7	1993.9	1884.2	1847.6
30°	18366.0	18311.1	17506.2	13298.9	7628.1	4390.3	2689.0	2140.3	1993.9	1884.2	1774.4
32.5°	19445.3	19463.6	18603.8	14085.5	7500.1	4042.7	2432.9	1902.5	1756.1	1682.9	1701.2
35°	20561.1	20652.6	19920.9	14853.8	7225.7	3914.7	2250.0	1774.4	1646.4	1536.6	1481.7
37.5°	21969.7	22207.5	21494.1	15713.5	6951.3	3804.9	2158.6	1682.9	1554.9	1463.4	1390.3
40°	23103.8	23542.9	23122.1	16518.4	6768.3	3676.9	2085.4	1591.5	1500.0	1390.3	1335.4
42.5°	23945.3	24457.5	24311.2	17140.4	6768.3	3548.8	2012.2	1536.6	1463.4	1335.4	1262.2
45°	24677.0	25207.5	25189.2	17780.6	6914.7	3475.6	1920.7	1536.6	1426.8	1298.8	1225.6
47.5°	25335.6	25866.0	26049.0	18585.5	7152.5	3439.1	1811.0	1500.0	1426.8	1280.5	1170.7
50°	26049.0	26634.3	27183.1	19866.0	7445.2	3347.6	1737.8	1445.1	1445.1	1262.2	1134.2
52.5°	26963.6	27622.2	28628.3	21457.5	7737.9	3183.0	1628.1	1408.5	1445.1	1243.9	1097.6
55°	28445.3	28994.1	30311.2	23359.9	8103.7	2981.7	1536.6	1317.1	1372.0	1189.0	1042.7
57.5°	30110.0	30585.6	31683.2	24823.4	8213.5	2725.6	1408.5	1225.6	1317.1	1134.2	969.5
60°	32158.8	32396.6	32396.6	25244.1	7847.6	2487.8	1317.1	1152.4	1189.0	1079.3	914.6
62.5°	33457.6	33457.6	32396.6	24475.8	7152.5	2286.6	1243.9	1079.3	1042.7	1006.1	859.8
65°	33366.1	33219.8	31646.6	22244.1	6347.6	2158.6	1170.7	987.8	932.9	914.6	804.9
67.5°	31829.5	31573.4	29433.1	19097.7	5506.1	2103.7	1097.6	896.3	859.8	823.2	731.7
70°	28573.4	27914.8	25280.7	15366.0	4683.0	2067.1	1079.3	823.2	786.6	750.0	676.8
72.5°	23853.8	23012.4	19738.0	11817.2	3933.0	1939.0	1024.4	731.7	713.4	676.8	603.7
75°	18201.4	16646.5	13774.5	9036.7	3054.9	1682.9	878.1	640.2	640.2	622.0	548.8
77.5°	12548.9	11744.0	9603.7	6676.9	2231.7	1298.8	713.4	567.1	567.1	585.4	512.2
80°	8872.0	8122.0	6841.5	4792.7	1408.5	878.1	548.8	475.6	530.5	567.1	475.6
82.5°	6786.6	6237.9	5085.4	3493.9	823.2	603.7	420.7	384.1	457.3	493.9	402.4
85°	4719.5	4061.0	2579.3	2341.5	475.6	365.9	311.0	311.0	402.4	493.9	365.9
87.5°	1335.4	567.1	164.6	695.1	201.2	146.3	109.8	73.2	109.8	109.8	73.2
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°	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1
2.5°	11341.5	11231.8	11231.8	11195.2	11213.5	11231.8	11213.5	11341.5	11396.4	11469.6	11615.9
5°	8707.4	8853.7	8744.0	8853.7	9000.1	9219.6	9274.5	9439.1	9457.4	9585.4	9512.3
7.5°	6457.4	6439.1	6347.6	6475.7	6878.1	7189.1	7335.4	7426.9	7445.2	7445.2	7353.7
10°	5469.6	5304.9	5140.3	5048.8	5085.4	5414.7	5524.4	5579.3	5542.7	5597.6	5524.4
12.5°	4683.0	4536.6	4298.8	4134.2	4024.4	4115.9	4225.6	4280.5	4317.1	4408.6	4481.7
15°	3804.9	3658.6	3512.2	3420.8	3329.3	3256.1	3347.6	3402.5	3493.9	3567.1	3603.7
17.5°	2890.3	2817.1	2743.9	2798.8	2798.8	2762.2	2798.8	2817.1	2853.7	2908.6	2890.3
20°	2341.5	2323.2	2304.9	2396.4	2469.5	2469.5	2506.1	2451.2	2432.9	2378.1	2359.8
22.5°	2085.4	2085.4	2103.7	2176.8	2250.0	2286.6	2286.6	2195.1	2103.7	2067.1	2085.4
25°	1939.0	1939.0	1993.9	2012.2	2048.8	2048.8	2067.1	1975.6	1920.7	1865.9	1884.2
27.5°	1829.3	1829.3	1847.6	1847.6	1865.9	1865.9	1884.2	1847.6	1774.4	1756.1	1756.1
30°	1756.1	1756.1	1737.8	1737.8	1737.8	1737.8	1756.1	1701.2	1664.6	1646.4	1646.4
32.5°	1682.9	1664.6	1646.4	1646.4	1628.1	1628.1	1646.4	1591.5	1573.2	1573.2	1573.2
35°	1463.4	1445.1	1463.4	1500.0	1500.0	1518.3	1518.3	1500.0	1463.4	1426.8	1408.5
37.5°	1372.0	1353.7	1353.7	1353.7	1390.3	1408.5	1426.8	1390.3	1335.4	1280.5	1280.5
40°	1298.8	1298.8	1280.5	1280.5	1280.5	1317.1	1353.7	1298.8	1225.6	1207.3	1207.3
42.5°	1243.9	1225.6	1207.3	1189.0	1170.7	1225.6	1262.2	1189.0	1152.4	1152.4	1152.4
45°	1189.0	1170.7	1152.4	1134.2	1115.9	1134.2	1170.7	1097.6	1079.3	1079.3	1079.3
47.5°	1134.2	1115.9	1079.3	1061.0	1042.7	1042.7	1079.3	1024.4	1006.1	1024.4	1024.4
50°	1097.6	1061.0	1024.4	1006.1	987.8	987.8	987.8	969.5	969.5	969.5	987.8
52.5°	1061.0	1024.4	969.5	951.2	932.9	932.9	932.9	932.9	914.6	932.9	951.2
55°	1006.1	969.5	932.9	914.6	896.3	878.1	896.3	878.1	878.1	896.3	896.3
57.5°	932.9	896.3	859.8	859.8	841.5	841.5	859.8	841.5	841.5	859.8	859.8
60°	878.1	841.5	804.9	804.9	786.6	804.9	823.2	804.9	804.9	804.9	823.2
62.5°	804.9	786.6	750.0	750.0	750.0	750.0	768.3	750.0	768.3	768.3	768.3
65°	750.0	713.4	695.1	695.1	695.1	695.1	731.7	695.1	713.4	713.4	713.4
67.5°	695.1	658.5	640.2	640.2	640.2	640.2	676.8	640.2	658.5	676.8	658.5
70°	640.2	603.7	585.4	585.4	585.4	585.4	603.7	585.4	585.4	603.7	603.7
72.5°	567.1	548.8	530.5	530.5	512.2	530.5	548.8	530.5	530.5	530.5	530.5
75°	512.2	493.9	493.9	475.6	475.6	475.6	493.9	457.3	457.3	457.3	457.3
77.5°	475.6	439.0	439.0	439.0	420.7	439.0	420.7	384.1	384.1	384.1	384.1
80°	402.4	365.9	384.1	384.1	365.9	365.9	347.6	311.0	311.0	311.0	311.0
82.5°	329.3	292.7	311.0	311.0	311.0	311.0	274.4	256.1	237.8	219.5	219.5
85°	292.7	237.8	274.4	274.4	256.1	256.1	182.9	182.9	146.3	146.3	128.0
87.5°	54.9	36.6	73.2	91.5	91.5	109.8	73.2	91.5	54.9	36.6	36.6
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°	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1
2.5°	11597.6	11798.9	12073.3	12274.5	12585.5	12823.3	13189.1	13500.1	13792.8	13920.8	14048.9
5°	9731.8	9859.8	10280.6	10609.8	11103.7	11634.2	12292.8	13006.2	13737.9	14067.2	14451.3
7.5°	7280.5	7518.3	7756.2	8231.8	8835.4	9695.2	10536.7	11597.6	12622.0	13116.0	13774.5
10°	5652.5	5835.4	6109.8	6603.7	7170.8	7884.2	8890.3	10152.5	11378.1	12018.4	12695.2
12.5°	4536.6	4792.7	5158.6	5670.8	6329.3	7061.0	7792.7	8963.5	10390.3	11122.0	11890.3
15°	3676.9	3878.1	4280.5	4920.8	5689.1	6439.1	7207.4	8176.9	9731.8	10573.3	11487.9
17.5°	2926.9	3073.2	3439.1	4079.3	4847.6	5689.1	6567.1	7792.7	9512.3	10536.7	11615.9
20°	2378.1	2487.8	2725.6	3201.2	3933.0	4847.6	5945.2	7426.9	9640.3	10957.4	12274.5
22.5°	2085.4	2122.0	2231.7	2487.8	3091.5	4061.0	5378.1	7115.9	9878.1	11579.4	13353.8
25°	1884.2	1920.7	1957.3	2122.0	2469.5	3384.2	4884.2	6933.0	10390.3	12494.0	14597.7
27.5°	1756.1	1792.7	1811.0	1884.2	2122.0	2890.3	4463.4	6823.2	11085.4	13829.4	16134.3
30°	1646.4	1646.4	1701.2	1811.0	1975.6	2542.7	4097.6	6567.1	11817.2	14945.2	17341.6
32.5°	1554.9	1573.2	1646.4	1701.2	1811.0	2250.0	3731.7	6237.9	12475.7	15859.9	18530.6
35°	1390.3	1390.3	1408.5	1500.0	1646.4	2012.2	3402.5	5908.6	12841.6	16756.2	19591.6
37.5°	1280.5	1298.8	1335.4	1408.5	1536.6	1847.6	3128.1	5542.7	13225.7	17597.7	20835.5
40°	1207.3	1225.6	1262.2	1335.4	1463.4	1701.2	2890.3	5250.0	13628.2	18512.3	22170.9
42.5°	1152.4	1170.7	1207.3	1280.5	1390.3	1664.6	2634.2	5012.2	13866.0	19353.8	23433.1
45°	1097.6	1115.9	1170.7	1243.9	1335.4	1628.1	2487.8	4847.6	13957.4	19920.9	24439.2
47.5°	1042.7	1061.0	1115.9	1225.6	1335.4	1573.2	2432.9	4756.1	14030.6	20561.1	25244.1
50°	987.8	1024.4	1097.6	1207.3	1353.7	1500.0	2396.4	4737.8	14451.3	21384.3	26012.4
52.5°	951.2	1006.1	1079.3	1207.3	1335.4	1390.3	2378.1	4792.7	15292.8	22609.9	27110.0
55°	914.6	969.5	1042.7	1207.3	1280.5	1298.8	2286.6	4884.2	16573.3	24311.2	28664.9
57.5°	878.1	914.6	1006.1	1170.7	1207.3	1225.6	2103.7	5012.2	17853.8	25975.8	30256.3
60°	823.2	859.8	951.2	1170.7	1097.6	1152.4	1865.9	5048.8	18768.4	26506.3	30402.7
62.5°	768.3	804.9	896.3	1207.3	1006.1	1079.3	1664.6	4920.8	18951.4	25738.0	29579.5
65°	713.4	750.0	823.2	1006.1	932.9	1006.1	1536.6	4573.2	18347.7	23981.9	28079.5
67.5°	658.5	695.1	750.0	823.2	841.5	914.6	1481.7	4024.4	16829.4	21805.0	26030.7
70°	585.4	622.0	676.8	731.7	750.0	859.8	1390.3	3493.9	14378.2	18896.5	23524.6
72.5°	530.5	548.8	603.7	640.2	676.8	786.6	1335.4	3054.9	10994.0	15292.8	19189.2
75°	457.3	457.3	512.2	548.8	585.4	695.1	1225.6	2542.7	7756.2	11670.8	14103.8
77.5°	384.1	384.1	420.7	457.3	493.9	603.7	1042.7	2067.1	5378.1	9256.2	10225.7
80°	292.7	292.7	329.3	365.9	402.4	512.2	841.5	1518.3	3329.3	6768.3	7445.2
82.5°	201.2	201.2	256.1	274.4	292.7	402.4	640.2	1042.7	1957.3	4884.2	5323.2
85°	109.8	109.8	146.3	164.6	201.2	292.7	475.6	731.7	1170.7	3530.5	3548.8
87.5°	18.3	18.3	54.9	54.9	91.5	146.3	274.4	402.4	658.5	1957.3	1243.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1	13061.1
2.5°	14286.7	14487.9	14506.2	14506.2	14414.7	14433.0	14176.9	13902.5	13811.1	13792.8
5°	15036.7	15567.2	15713.5	15786.7	15548.9	15183.0	14524.5	13811.1	13445.2	13390.3
7.5°	14890.4	15951.3	16518.4	16591.6	16116.0	15256.2	14103.8	13006.2	12585.5	12475.7
10°	14030.6	15457.4	16481.8	16737.9	16225.7	15128.2	13628.2	12347.7	11835.5	11744.0
12.5°	13426.9	14798.9	15805.0	16152.6	15914.8	14963.5	13390.3	11926.9	11414.7	11286.7
15°	13097.7	14359.9	15018.4	15128.2	15109.9	14707.4	13390.3	12018.4	11451.3	11305.0
17.5°	13372.1	14231.8	14323.3	14067.2	14213.5	14414.7	13683.0	12512.3	11963.5	11835.5
20°	13920.8	14176.9	13737.9	13353.8	13426.9	14067.2	14140.4	13445.2	13006.2	12786.7
22.5°	15073.3	14378.2	13372.1	12841.6	12896.4	13792.8	14744.0	14707.4	14323.3	14213.5
25°	16244.0	14945.2	13262.3	12640.3	12713.5	13737.9	15457.4	16116.0	15914.8	15859.9
27.5°	17542.8	15896.5	13335.5	12548.9	12640.3	13811.1	15951.3	17305.0	17341.6	17286.7
30°	18420.9	16353.8	13555.0	12658.6	12786.7	13994.0	16061.1	18018.4	18347.7	18366.0
32.5°	19152.6	16811.1	14012.3	12841.6	13061.1	14323.3	16353.8	18695.3	19427.0	19445.3
35°	19738.0	17323.3	14579.4	13170.8	13500.1	14872.1	16737.9	19335.5	20433.1	20561.1
37.5°	20488.0	17890.4	15237.9	13884.3	14250.1	15658.7	17414.8	20085.5	21622.1	21969.7
40°	21292.8	18457.5	16189.1	15036.7	15567.2	16829.4	18183.1	20927.0	22628.2	23103.8
42.5°	22189.2	19061.1	17268.4	16591.6	17396.5	18311.1	19061.1	21695.3	23396.5	23945.3
45°	23067.2	19792.8	18841.6	18713.6	19609.9	20067.2	19920.9	22244.1	24128.2	24677.0
47.5°	23689.2	20853.8	20744.1	21512.4	22353.8	22116.0	20927.0	22646.5	24731.9	25335.6
50°	24256.3	22170.9	23140.4	24640.4	25152.6	24347.7	22006.3	23195.3	25372.1	26049.0
52.5°	25097.8	23579.4	25609.9	27475.8	27969.7	26689.2	23177.0	24091.6	26360.0	26963.6
55°	26817.3	25170.9	28189.2	30329.5	30421.0	28829.5	24750.2	25609.9	27750.2	28445.3
57.5°	28738.0	27128.3	30238.0	32689.3	32652.7	30969.7	26524.6	27658.7	29634.4	30110.0
60°	30475.8	29103.9	32469.8	34372.2	34280.7	32524.6	28591.7	29981.9	31792.9	32158.8
62.5°	31500.2	30896.6	33457.6	34902.7	34555.1	33036.8	30347.8	32049.0	33329.5	33457.6
65°	31335.6	31921.0	32305.1	33201.5	32707.6	31610.0	31207.6	33366.1	33494.2	33366.1
67.5°	30091.7	31335.6	29140.5	29231.9	28975.8	28042.9	29872.2	33018.5	32140.5	31829.5
70°	28207.5	28299.0	24366.0	23213.6	23616.0	22335.5	25628.2	30311.2	28957.5	28573.4
72.5°	25079.5	23945.3	18420.9	17250.1	17853.8	16939.2	20561.1	26414.8	25097.8	23853.8
75°	21036.7	18969.7	14030.6	12365.9	12676.9	12640.3	15933.0	21823.3	19445.3	18201.4
77.5°	16298.9	14780.6	10353.7	9713.5	9384.2	9457.4	11122.0	16225.7	14103.8	12548.9
80°	11908.6	10335.4	8012.3	8378.1	8195.2	7756.2	7792.7	10865.9	9805.0	8872.0
82.5°	8231.8	7353.7	6494.0	7335.4	6896.4	6219.6	6073.2	7829.3	7353.7	6786.6
85°	5524.4	6054.9	5158.6	5615.9	4865.9	4481.7	5707.4	6548.8	5286.6	4719.5
87.5°	3603.7	5542.7	3713.4	2817.1	1609.8	2158.6	3493.9	4298.8	2469.5	1335.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)