

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: P598788

Luminaire Tested: **IFLD-L-SA8C-760-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598788
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8C-760-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (128) 5700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

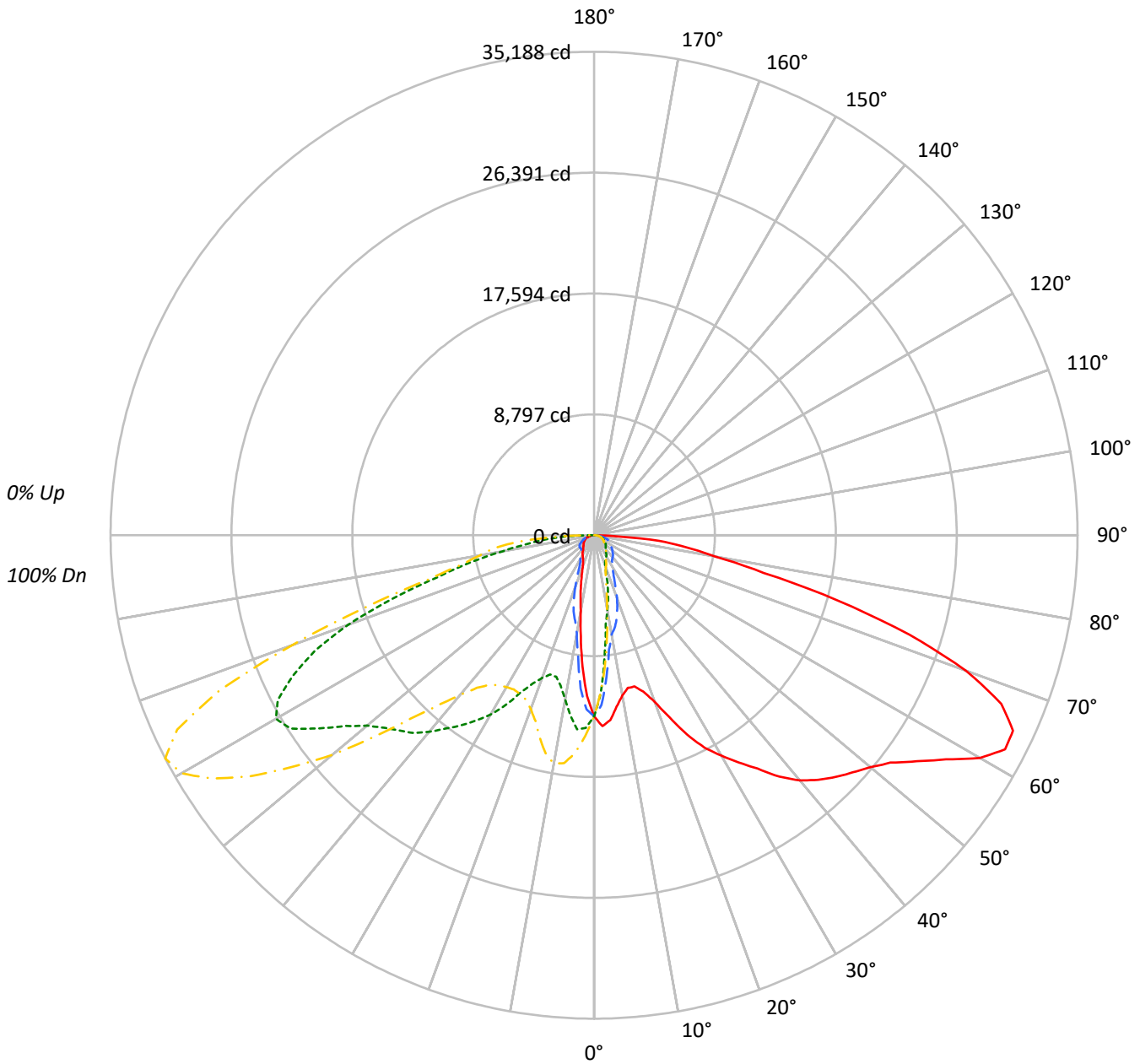
Lumens per Lamp: N/A
 Luminaire Lumens: 44080.5 lumens
 Efficiency: N/A
 Efficacy: 104.9 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	70868	70868	70868	70868
5°	72932	47425	51810	76618
10°	64704	30135	30437	66216
15°	63503	21373	20243	59393
20°	73831	13520	13625	63269
25°	94950	11609	11280	74799
30°	115068	11002	10315	93636
35°	136192	9694	9330	110990
40°	163644	9199	8552	131122
45°	189355	9124	8282	152860
50°	219884	9265	8339	180508
55°	269085	9517	8480	229977
60°	348979	9528	8933	287640
65°	428378	9629	9159	307897
70°	453295	10157	9577	299778
75°	381573	10738	9588	244668
80°	277218	12574	9716	211487
85°	293818	18223	7972	219790

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.1	2.3
10°-20°	2132.8	4.8
20°-30°	3073.5	7.0
30°-40°	4424.7	10.0
40°-50°	6284.9	14.3
50°-60°	9035.9	20.5
60°-70°	10439.5	23.7
70°-80°	5911.0	13.4
80°-90°	1759.1	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°	6225.4	14.1
0°-40°	10650.0	24.2
0°-60°	25970.9	58.9
0°-90°	44080.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44080.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13168	13168	13168	13168	13168	
5°	13500	8778	9590	14182	13500	1225
15°	11397	3836	3633	10660	11397	3351
25°	15989	1955	1900	12596	15989	7421
35°	20729	1475	1420	16893	20729	13156
45°	24878	1199	1088	20084	24878	19264
55°	28678	1014	904	24510	28678	25972
65°	33638	756	719	24178	33638	32257
75°	18350	516	461	11766	18350	19470
85°	4758	295	129	3559	4758	4739
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°	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7
2.5°	13905.3	13886.9	13776.3	13425.9	13057.0	12706.6	12374.7	12024.3	11839.8	11618.5	11526.3
5°	13499.6	13462.7	13149.2	12374.7	11692.3	10954.6	10327.6	9829.6	9423.9	9018.2	8870.7
7.5°	12577.5	12522.2	12153.3	11083.7	10087.8	9128.8	8372.7	7727.2	7192.4	6952.7	6676.0
10°	11839.8	11747.6	11268.1	10087.8	8796.9	7837.9	7340.0	6897.3	6436.3	6049.0	5643.3
12.5°	11378.8	11268.1	10770.2	9387.0	8133.0	7413.7	6897.3	6399.4	5827.7	5348.2	4905.6
15°	11397.2	11268.1	10659.5	9202.6	7967.0	7044.9	6325.6	5643.3	4979.4	4444.5	3946.6
17.5°	11932.0	11766.1	11120.6	9460.8	7837.9	6565.4	5606.4	4721.2	3965.1	3393.3	2987.6
20°	12891.0	12780.4	12042.7	9848.1	7708.8	6049.0	4868.7	3799.1	3006.1	2563.5	2397.5
22.5°	14329.5	14200.4	13407.4	10438.2	7671.9	5588.0	4075.7	2987.6	2415.9	2231.5	2139.3
25°	15989.3	15749.6	15011.9	11434.1	7745.7	5163.8	3430.2	2471.2	2157.7	2028.6	1973.3
27.5°	17427.8	17280.3	16450.4	12374.7	7782.6	4831.8	2987.6	2249.9	2010.2	1899.5	1862.7
30°	18515.9	18460.5	17649.1	13407.4	7690.4	4426.1	2711.0	2157.7	2010.2	1899.5	1788.9
32.5°	19604.0	19622.4	18755.6	14200.4	7561.3	4075.7	2452.8	1918.0	1770.4	1696.7	1715.1
35°	20728.9	20821.1	20083.5	14975.0	7284.6	3946.6	2268.4	1788.9	1659.8	1549.1	1493.8
37.5°	22149.0	22388.7	21669.5	15841.8	7008.0	3836.0	2176.2	1696.7	1567.6	1475.4	1401.6
40°	23292.4	23735.0	23310.8	16653.2	6823.6	3706.9	2102.4	1604.5	1512.3	1401.6	1346.3
42.5°	24140.7	24657.1	24509.6	17280.3	6823.6	3577.8	2028.6	1549.1	1475.4	1346.3	1272.5
45°	24878.4	25413.2	25394.8	17925.7	6971.1	3504.0	1936.4	1549.1	1438.5	1309.4	1235.6
47.5°	25542.3	26077.1	26261.6	18737.2	7210.9	3467.1	1825.8	1512.3	1438.5	1290.9	1180.3
50°	26261.6	26851.7	27405.0	20028.1	7505.9	3374.9	1752.0	1456.9	1456.9	1272.5	1143.4
52.5°	27183.7	27847.6	28861.9	21632.6	7801.0	3208.9	1641.3	1420.0	1456.9	1254.1	1106.5
55°	28677.5	29230.7	30558.6	23550.6	8169.9	3006.1	1549.1	1327.8	1383.2	1198.7	1051.2
57.5°	30355.7	30835.2	31941.7	25025.9	8280.5	2747.9	1420.0	1235.6	1327.8	1143.4	977.4
60°	32421.2	32661.0	32661.0	25450.1	7911.7	2508.1	1327.8	1161.9	1198.7	1088.1	922.1
62.5°	33730.6	33730.6	32661.0	24675.5	7210.9	2305.3	1254.1	1088.1	1051.2	1014.3	866.8
65°	33638.4	33490.9	31904.8	22425.6	6399.4	2176.2	1180.3	995.9	940.5	922.1	811.5
67.5°	32089.3	31831.1	29673.3	19253.6	5551.1	2120.8	1106.5	903.7	866.8	829.9	737.7
70°	28806.6	28142.7	25487.0	15491.4	4721.2	2084.0	1088.1	829.9	793.0	756.1	682.4
72.5°	24048.5	23200.2	19899.0	11913.6	3965.1	1954.9	1032.8	737.7	719.2	682.4	608.6
75°	18349.9	16782.3	13886.9	9110.4	3079.8	1696.7	885.2	645.5	645.5	627.0	553.3
77.5°	12651.3	11839.8	9682.1	6731.4	2249.9	1309.4	719.2	571.7	571.7	590.1	516.4
80°	8944.4	8188.3	6897.3	4831.8	1420.0	885.2	553.3	479.5	534.8	571.7	479.5
82.5°	6842.0	6288.8	5126.9	3522.4	829.9	608.6	424.2	387.3	461.1	497.9	405.7
85°	4758.1	4094.1	2600.3	2360.6	479.5	368.8	313.5	313.5	405.7	497.9	368.8
87.5°	1346.3	571.7	166.0	700.8	202.9	147.5	110.7	73.8	110.7	110.7	73.8
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°	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7
2.5°	11434.1	11323.5	11323.5	11286.6	11305.0	11323.5	11305.0	11434.1	11489.4	11563.2	11710.7
5°	8778.4	8926.0	8815.3	8926.0	9073.5	9294.8	9350.1	9516.1	9534.6	9663.7	9589.9
7.5°	6510.1	6491.6	6399.4	6528.5	6934.2	7247.7	7395.3	7487.5	7505.9	7505.9	7413.7
10°	5514.2	5348.2	5182.2	5090.0	5126.9	5458.9	5569.5	5624.8	5588.0	5643.3	5569.5
12.5°	4721.2	4573.6	4333.9	4167.9	4057.3	4149.5	4260.1	4315.5	4352.3	4444.5	4518.3
15°	3836.0	3688.4	3540.9	3448.7	3356.5	3282.7	3374.9	3430.2	3522.4	3596.2	3633.1
17.5°	2913.9	2840.1	2766.3	2821.6	2821.6	2784.8	2821.6	2840.1	2877.0	2932.3	2913.9
20°	2360.6	2342.1	2323.7	2415.9	2489.7	2489.7	2526.6	2471.2	2452.8	2397.5	2379.0
22.5°	2102.4	2102.4	2120.8	2194.6	2268.4	2305.3	2305.3	2213.1	2120.8	2084.0	2102.4
25°	1954.9	1954.9	2010.2	2028.6	2065.5	2065.5	2084.0	1991.7	1936.4	1881.1	1899.5
27.5°	1844.2	1844.2	1862.7	1862.7	1881.1	1881.1	1899.5	1862.7	1788.9	1770.4	1770.4
30°	1770.4	1770.4	1752.0	1752.0	1752.0	1752.0	1770.4	1715.1	1678.2	1659.8	1659.8
32.5°	1696.7	1678.2	1659.8	1659.8	1641.3	1641.3	1659.8	1604.5	1586.0	1586.0	1586.0
35°	1475.4	1456.9	1475.4	1512.3	1512.3	1530.7	1530.7	1512.3	1475.4	1438.5	1420.0
37.5°	1383.2	1364.7	1364.7	1364.7	1401.6	1420.0	1438.5	1401.6	1346.3	1290.9	1290.9
40°	1309.4	1309.4	1290.9	1290.9	1290.9	1327.8	1364.7	1309.4	1235.6	1217.2	1217.2
42.5°	1254.1	1235.6	1217.2	1198.7	1180.3	1235.6	1272.5	1198.7	1161.9	1161.9	1161.9
45°	1198.7	1180.3	1161.9	1143.4	1125.0	1143.4	1180.3	1106.5	1088.1	1088.1	1088.1
47.5°	1143.4	1125.0	1088.1	1069.6	1051.2	1051.2	1088.1	1032.8	1014.3	1032.8	1032.8
50°	1106.5	1069.6	1032.8	1014.3	995.9	995.9	995.9	977.4	977.4	977.4	995.9
52.5°	1069.6	1032.8	977.4	959.0	940.5	940.5	940.5	940.5	922.1	940.5	959.0
55°	1014.3	977.4	940.5	922.1	903.7	885.2	903.7	885.2	885.2	903.7	903.7
57.5°	940.5	903.7	866.8	866.8	848.3	848.3	866.8	848.3	848.3	866.8	866.8
60°	885.2	848.3	811.5	811.5	793.0	811.5	829.9	811.5	811.5	811.5	829.9
62.5°	811.5	793.0	756.1	756.1	756.1	756.1	774.6	756.1	774.6	774.6	774.6
65°	756.1	719.2	700.8	700.8	700.8	700.8	737.7	700.8	719.2	719.2	719.2
67.5°	700.8	663.9	645.5	645.5	645.5	645.5	682.4	645.5	663.9	682.4	663.9
70°	645.5	608.6	590.1	590.1	590.1	590.1	608.6	590.1	590.1	608.6	608.6
72.5°	571.7	553.3	534.8	534.8	516.4	534.8	553.3	534.8	534.8	534.8	534.8
75°	516.4	497.9	497.9	479.5	479.5	479.5	497.9	461.1	461.1	461.1	461.1
77.5°	479.5	442.6	442.6	442.6	424.2	442.6	424.2	387.3	387.3	387.3	387.3
80°	405.7	368.8	387.3	387.3	368.8	368.8	350.4	313.5	313.5	313.5	313.5
82.5°	332.0	295.1	313.5	313.5	313.5	313.5	276.6	258.2	239.7	221.3	221.3
85°	295.1	239.7	276.6	276.6	258.2	258.2	184.4	184.4	147.5	147.5	129.1
87.5°	55.3	36.9	73.8	92.2	92.2	110.7	73.8	92.2	55.3	36.9	36.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7
2.5°	11692.3	11895.2	12171.8	12374.7	12688.2	12927.9	13296.8	13610.3	13905.3	14034.4	14163.5
5°	9811.2	9940.3	10364.5	10696.4	11194.4	11729.2	12393.1	13112.3	13850.0	14182.0	14569.3
7.5°	7340.0	7579.7	7819.5	8298.9	8907.5	9774.3	10622.7	11692.3	12725.1	13223.0	13886.9
10°	5698.6	5883.0	6159.7	6657.6	7229.3	7948.5	8962.9	10235.4	11471.0	12116.5	12798.8
12.5°	4573.6	4831.8	5200.7	5717.1	6381.0	7118.7	7856.3	9036.6	10475.1	11212.8	11987.4
15°	3706.9	3909.7	4315.5	4960.9	5735.5	6491.6	7266.2	8243.6	9811.2	10659.5	11581.6
17.5°	2950.7	3098.3	3467.1	4112.6	4887.2	5735.5	6620.7	7856.3	9589.9	10622.7	11710.7
20°	2397.5	2508.1	2747.9	3227.4	3965.1	4887.2	5993.7	7487.5	9719.0	11046.8	12374.7
22.5°	2102.4	2139.3	2249.9	2508.1	3116.7	4094.1	5422.0	7174.0	9958.7	11673.9	13462.7
25°	1899.5	1936.4	1973.3	2139.3	2489.7	3411.8	4924.0	6989.6	10475.1	12596.0	14716.8
27.5°	1770.4	1807.3	1825.8	1899.5	2139.3	2913.9	4499.9	6878.9	11175.9	13942.2	16265.9
30°	1659.8	1659.8	1715.1	1825.8	1991.7	2563.5	4131.0	6620.7	11913.6	15067.2	17483.1
32.5°	1567.6	1586.0	1659.8	1715.1	1825.8	2268.4	3762.2	6288.8	12577.5	15989.3	18681.9
35°	1401.6	1401.6	1420.0	1512.3	1659.8	2028.6	3430.2	5956.8	12946.4	16893.0	19751.5
37.5°	1290.9	1309.4	1346.3	1420.0	1549.1	1862.7	3153.6	5588.0	13333.6	17741.3	21005.6
40°	1217.2	1235.6	1272.5	1346.3	1475.4	1715.1	2913.9	5292.9	13739.4	18663.4	22351.8
42.5°	1161.9	1180.3	1217.2	1290.9	1401.6	1678.2	2655.7	5053.1	13979.1	19511.7	23624.3
45°	1106.5	1125.0	1180.3	1254.1	1346.3	1641.3	2508.1	4887.2	14071.3	20083.5	24638.7
47.5°	1051.2	1069.6	1125.0	1235.6	1346.3	1586.0	2452.8	4794.9	14145.1	20728.9	25450.1
50°	995.9	1032.8	1106.5	1217.2	1364.7	1512.3	2415.9	4776.5	14569.3	21558.8	26224.7
52.5°	959.0	1014.3	1088.1	1217.2	1346.3	1401.6	2397.5	4831.8	15417.6	22794.4	27331.2
55°	922.1	977.4	1051.2	1217.2	1290.9	1309.4	2305.3	4924.0	16708.5	24509.6	28898.8
57.5°	885.2	922.1	1014.3	1180.3	1217.2	1235.6	2120.8	5053.1	17999.5	26187.8	30503.2
60°	829.9	866.8	959.0	1180.3	1106.5	1161.9	1881.1	5090.0	18921.6	26722.6	30650.8
62.5°	774.6	811.5	903.7	1217.2	1014.3	1088.1	1678.2	4960.9	19106.0	25948.0	29820.9
65°	719.2	756.1	829.9	1014.3	940.5	1014.3	1549.1	4610.5	18497.4	24177.6	28308.6
67.5°	663.9	700.8	756.1	829.9	848.3	922.1	1493.8	4057.3	16966.7	21983.0	26243.1
70°	590.1	627.0	682.4	737.7	756.1	866.8	1401.6	3522.4	14495.5	19050.7	23716.5
72.5°	534.8	553.3	608.6	645.5	682.4	793.0	1346.3	3079.8	11083.7	15417.6	19345.8
75°	461.1	461.1	516.4	553.3	590.1	700.8	1235.6	2563.5	7819.5	11766.1	14218.9
77.5°	387.3	387.3	424.2	461.1	497.9	608.6	1051.2	2084.0	5422.0	9331.7	10309.1
80°	295.1	295.1	332.0	368.8	405.7	516.4	848.3	1530.7	3356.5	6823.6	7505.9
82.5°	202.9	202.9	258.2	276.6	295.1	405.7	645.5	1051.2	1973.3	4924.0	5366.7
85°	110.7	110.7	147.5	166.0	202.9	295.1	479.5	737.7	1180.3	3559.3	3577.8
87.5°	18.4	18.4	55.3	55.3	92.2	147.5	276.6	405.7	663.9	1973.3	1254.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7	13167.7
2.5°	14403.3	14606.1	14624.6	14624.6	14532.4	14550.8	14292.6	14016.0	13923.8	13905.3
5°	15159.4	15694.2	15841.8	15915.5	15675.8	15306.9	14643.0	13923.8	13554.9	13499.6
7.5°	15011.9	16081.5	16653.2	16727.0	16247.5	15380.7	14218.9	13112.3	12688.2	12577.5
10°	14145.1	15583.6	16616.3	16874.5	16358.1	15251.6	13739.4	12448.4	11932.0	11839.8
12.5°	13536.5	14919.7	15934.0	16284.4	16044.6	15085.6	13499.6	12024.3	11507.9	11378.8
15°	13204.5	14477.1	15141.0	15251.6	15233.2	14827.5	13499.6	12116.5	11544.8	11397.2
17.5°	13481.2	14348.0	14440.2	14182.0	14329.5	14532.4	13794.7	12614.4	12061.1	11932.0
20°	14034.4	14292.6	13850.0	13462.7	13536.5	14182.0	14255.7	13554.9	13112.3	12891.0
22.5°	15196.3	14495.5	13481.2	12946.4	13001.7	13905.3	14864.3	14827.5	14440.2	14329.5
25°	16376.6	15067.2	13370.5	12743.5	12817.3	13850.0	15583.6	16247.5	16044.6	15989.3
27.5°	17686.0	16026.2	13444.3	12651.3	12743.5	13923.8	16081.5	17446.2	17483.1	17427.8
30°	18571.2	16487.2	13665.6	12761.9	12891.0	14108.2	16192.2	18165.5	18497.4	18515.9
32.5°	19308.9	16948.3	14126.7	12946.4	13167.7	14440.2	16487.2	18847.8	19585.5	19604.0
35°	19899.0	17464.7	14698.4	13278.3	13610.3	14993.4	16874.5	19493.3	20599.8	20728.9
37.5°	20655.2	18036.4	15362.3	13997.6	14366.4	15786.4	17556.9	20249.4	21798.6	22149.0
40°	21466.6	18608.1	16321.3	15159.4	15694.2	16966.7	18331.5	21097.8	22812.9	23292.4
42.5°	22370.3	19216.7	17409.3	16727.0	17538.4	18460.5	19216.7	21872.3	23587.5	24140.7
45°	23255.5	19954.4	18995.4	18866.3	19769.9	20231.0	20083.5	22425.6	24325.1	24878.4
47.5°	23882.5	21024.0	20913.3	21687.9	22536.3	22296.5	21097.8	22831.3	24933.7	25542.3
50°	24454.2	22351.8	23329.3	24841.5	25357.9	24546.4	22185.9	23384.6	25579.2	26261.6
52.5°	25302.6	23771.9	25818.9	27700.0	28198.0	26907.0	23366.1	24288.3	26575.1	27183.7
55°	27036.1	25376.3	28419.3	30577.0	30669.2	29064.8	24952.2	25818.9	27976.7	28677.5
57.5°	28972.5	27349.6	30484.8	32956.0	32919.2	31222.5	26741.1	27884.5	29876.2	30355.7
60°	30724.5	29341.4	32734.7	34652.7	34560.5	32790.1	28825.0	30226.6	32052.4	32421.2
62.5°	31757.3	31148.7	33730.6	35187.5	34837.1	33306.4	30595.5	32310.6	33601.5	33730.6
65°	31591.3	32181.5	32568.8	33472.4	32974.5	31868.0	31462.2	33638.4	33767.5	33638.4
67.5°	30337.3	31591.3	29378.3	29470.5	29212.3	28271.7	30116.0	33288.0	32402.8	32089.3
70°	28437.7	28529.9	24564.9	23403.0	23808.8	22517.8	25837.4	30558.6	29193.9	28806.6
72.5°	25284.1	24140.7	18571.2	17390.9	17999.5	17077.4	20728.9	26630.4	25302.6	24048.5
75°	21208.4	19124.5	14145.1	12466.9	12780.4	12743.5	16063.1	22001.4	19604.0	18349.9
77.5°	16431.9	14901.2	10438.2	9792.8	9460.8	9534.6	11212.8	16358.1	14218.9	12651.3
80°	12005.8	10419.8	8077.6	8446.5	8262.1	7819.5	7856.3	10954.6	9885.0	8944.4
82.5°	8298.9	7413.7	6546.9	7395.3	6952.7	6270.3	6122.8	7893.2	7413.7	6842.0
85°	5569.5	6104.3	5200.7	5661.7	4905.6	4518.3	5753.9	6602.3	5329.8	4758.1
87.5°	3633.1	5588.0	3743.7	2840.1	1622.9	2176.2	3522.4	4333.9	2489.7	1346.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)