

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: P598640

Luminaire Tested: **IFLD-L-SA7E-727-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598640
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-727-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 2700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

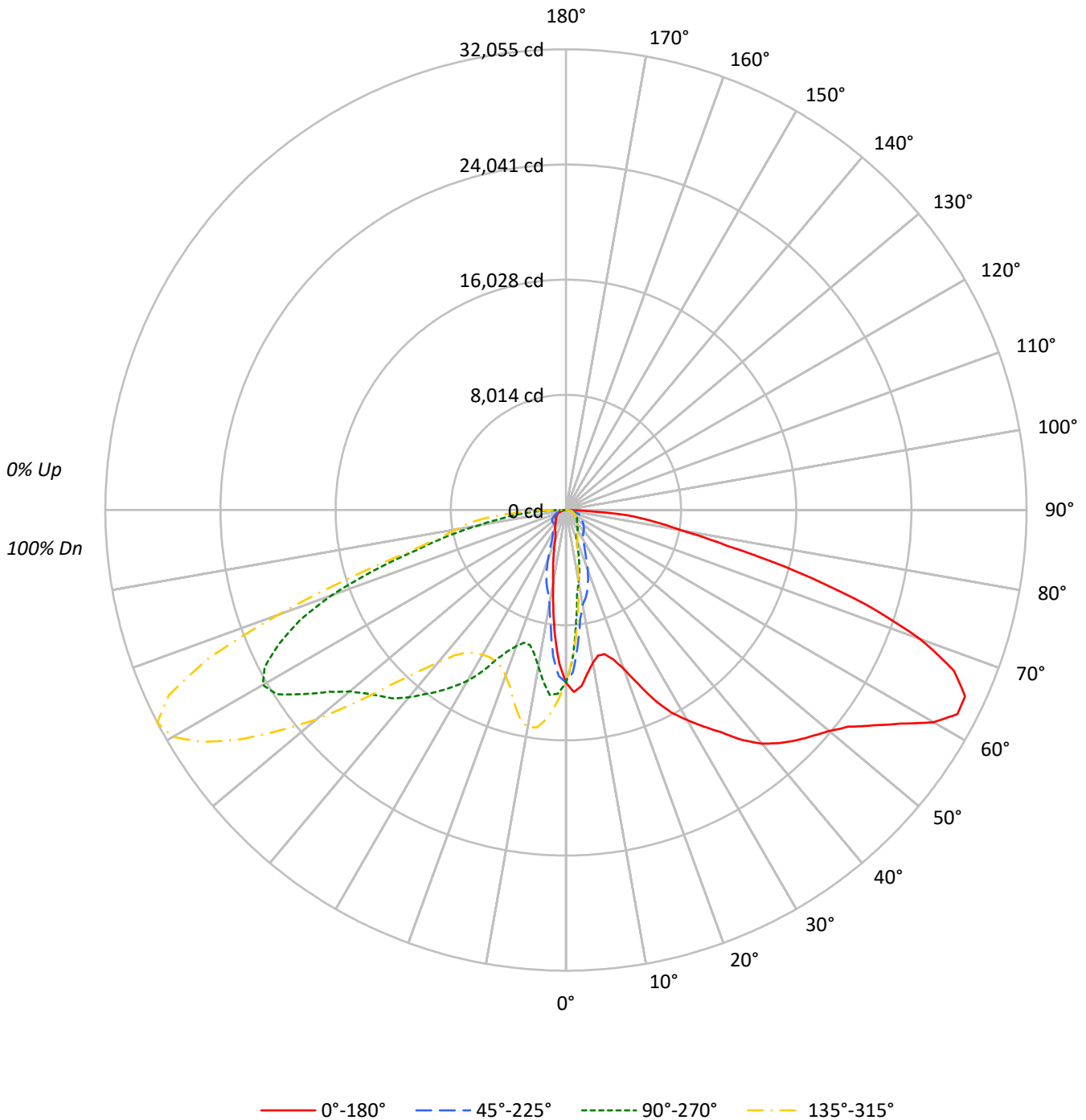
Lumens per Lamp: N/A
 Luminaire Lumens: 40156.1 lumens
 Efficiency: N/A
 Efficacy: 75.4 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	64559	64559	64559	64559
5°	66439	43203	47197	69797
10°	58944	27452	27728	60321
15°	57849	19470	18440	54105
20°	67259	12316	12412	57636
25°	86497	10575	10276	68140
30°	104823	10023	9396	85300
35°	124068	8830	8499	101108
40°	149075	8380	7790	119449
45°	172497	8311	7544	139251
50°	200308	8440	7596	164438
55°	245129	8670	7724	209502
60°	317910	8680	8138	262031
65°	390240	8772	8344	280485
70°	412939	9253	8724	273088
75°	347601	9782	8734	222884
80°	252538	11455	8852	192658
85°	267660	16599	7262	200222

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.3	2.3
10°-20°	1942.9	4.8
20°-30°	2799.9	7.0
30°-40°	4030.7	10.0
40°-50°	5725.4	14.3
50°-60°	8231.5	20.5
60°-70°	9510.0	23.7
70°-80°	5384.8	13.4
80°-90°	1602.5	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°	5671.1	14.1
0°-40°	9701.9	24.2
0°-60°	23658.7	58.9
0°-90°	40156.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40156.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11995	11995	11995	11995	11995	
5°	12298	7997	8736	12919	12298	1116
15°	10382	3494	3310	9710	10382	3053
25°	14566	1781	1730	11475	14566	6761
35°	18884	1344	1294	15389	18884	11984
45°	22664	1092	991	18295	22664	17549
55°	26124	924	823	22328	26124	23660
65°	30644	689	655	22025	30644	29385
75°	16716	470	420	10718	16716	17737
85°	4334	269	118	3242	4334	4317
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°	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4
2.5°	12667.4	12650.6	12549.8	12230.6	11894.6	11575.4	11273.0	10953.7	10785.7	10584.1	10500.1
5°	12297.8	12264.2	11978.6	11273.0	10651.3	9979.3	9408.1	8954.5	8584.9	8215.3	8080.9
7.5°	11457.8	11407.4	11071.3	10096.9	9189.7	8316.1	7627.3	7039.3	6552.1	6333.7	6081.7
10°	10785.7	10701.7	10264.9	9189.7	8013.7	7140.1	6686.5	6283.3	5863.3	5510.5	5140.9
12.5°	10365.7	10264.9	9811.3	8551.3	7408.9	6753.7	6283.3	5829.7	5308.9	4872.1	4468.9
15°	10382.5	10264.9	9710.5	8383.3	7257.7	6417.7	5762.5	5140.9	4536.1	4048.9	3595.2
17.5°	10869.7	10718.5	10130.5	8618.5	7140.1	5980.9	5107.3	4300.9	3612.0	3091.2	2721.6
20°	11743.4	11642.6	10970.5	8971.3	7022.5	5510.5	4435.3	3460.8	2738.4	2335.2	2184.0
22.5°	13053.8	12936.2	12213.8	9508.9	6988.9	5090.5	3712.9	2721.6	2200.8	2032.8	1948.8
25°	14565.8	14347.4	13675.4	10416.1	7056.1	4704.1	3124.8	2251.2	1965.6	1848.0	1797.6
27.5°	15876.2	15741.8	14985.8	11273.0	7089.7	4401.7	2721.6	2049.6	1831.2	1730.4	1696.8
30°	16867.4	16817.0	16077.8	12213.8	7005.7	4032.1	2469.6	1965.6	1831.2	1730.4	1629.6
32.5°	17858.6	17875.4	17085.8	12936.2	6888.1	3712.9	2234.4	1747.2	1612.8	1545.6	1562.4
35°	18883.5	18967.5	18295.4	13641.8	6636.1	3595.2	2066.4	1629.6	1512.0	1411.2	1360.8
37.5°	20177.1	20395.5	19740.3	14431.4	6384.1	3494.4	1982.4	1545.6	1428.0	1344.0	1276.8
40°	21218.7	21621.9	21235.5	15170.6	6216.1	3376.8	1915.2	1461.6	1377.6	1276.8	1226.4
42.5°	21991.5	22461.9	22327.5	15741.8	6216.1	3259.2	1848.0	1411.2	1344.0	1226.4	1159.2
45°	22663.5	23150.7	23133.9	16329.8	6350.5	3192.0	1764.0	1411.2	1310.4	1192.8	1125.6
47.5°	23268.3	23755.5	23923.5	17069.0	6568.9	3158.4	1663.2	1377.6	1310.4	1176.0	1075.2
50°	23923.5	24461.1	24965.1	18245.0	6837.7	3074.4	1596.0	1327.2	1327.2	1159.2	1041.6
52.5°	24763.5	25368.3	26292.4	19706.7	7106.5	2923.2	1495.2	1293.6	1327.2	1142.4	1008.0
55°	26124.4	26628.4	27838.0	21453.9	7442.5	2738.4	1411.2	1209.6	1260.0	1092.0	957.6
57.5°	27653.2	28090.0	29098.0	22797.9	7543.3	2503.2	1293.6	1125.6	1209.6	1041.6	890.4
60°	29534.8	29753.2	29753.2	23184.3	7207.3	2284.8	1209.6	1058.4	1092.0	991.2	840.0
62.5°	30727.6	30727.6	29753.2	22478.7	6568.9	2100.0	1142.4	991.2	957.6	924.0	789.6
65°	30643.6	30509.2	29064.4	20429.1	5829.7	1982.4	1075.2	907.2	856.8	840.0	739.2
67.5°	29232.4	28997.2	27031.6	17539.4	5056.9	1932.0	1008.0	823.2	789.6	756.0	672.0
70°	26242.0	25637.1	23217.9	14112.2	4300.9	1898.4	991.2	756.0	722.4	688.8	621.6
72.5°	21907.5	21134.7	18127.4	10852.9	3612.0	1780.8	940.8	672.0	655.2	621.6	554.4
75°	16716.2	15288.2	12650.6	8299.3	2805.6	1545.6	806.4	588.0	588.0	571.2	504.0
77.5°	11525.0	10785.7	8820.1	6132.1	2049.6	1192.8	655.2	520.8	520.8	537.6	470.4
80°	8148.1	7459.3	6283.3	4401.7	1293.6	806.4	504.0	436.8	487.2	520.8	436.8
82.5°	6232.9	5728.9	4670.5	3208.8	756.0	554.4	386.4	352.8	420.0	453.6	369.6
85°	4334.5	3729.7	2368.8	2150.4	436.8	336.0	285.6	285.6	369.6	453.6	336.0
87.5°	1226.4	520.8	151.2	638.4	184.8	134.4	100.8	67.2	100.8	100.8	67.2
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°	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4
2.5°	10416.1	10315.3	10315.3	10281.7	10298.5	10315.3	10298.5	10416.1	10466.5	10533.7	10668.1
5°	7996.9	8131.3	8030.5	8131.3	8265.7	8467.3	8517.7	8668.9	8685.7	8803.3	8736.1
7.5°	5930.5	5913.7	5829.7	5947.3	6316.9	6602.5	6736.9	6820.9	6837.7	6837.7	6753.7
10°	5023.3	4872.1	4720.9	4636.9	4670.5	4972.9	5073.7	5124.1	5090.5	5140.9	5073.7
12.5°	4300.9	4166.5	3948.1	3796.9	3696.0	3780.1	3880.9	3931.3	3964.9	4048.9	4116.1
15°	3494.4	3360.0	3225.6	3141.6	3057.6	2990.4	3074.4	3124.8	3208.8	3276.0	3309.6
17.5°	2654.4	2587.2	2520.0	2570.4	2570.4	2536.8	2570.4	2587.2	2620.8	2671.2	2654.4
20°	2150.4	2133.6	2116.8	2200.8	2268.0	2268.0	2301.6	2251.2	2234.4	2184.0	2167.2
22.5°	1915.2	1915.2	1932.0	1999.2	2066.4	2100.0	2100.0	2016.0	1932.0	1898.4	1915.2
25°	1780.8	1780.8	1831.2	1848.0	1881.6	1881.6	1898.4	1814.4	1764.0	1713.6	1730.4
27.5°	1680.0	1680.0	1696.8	1696.8	1713.6	1713.6	1730.4	1696.8	1629.6	1612.8	1612.8
30°	1612.8	1612.8	1596.0	1596.0	1596.0	1596.0	1612.8	1562.4	1528.8	1512.0	1512.0
32.5°	1545.6	1528.8	1512.0	1512.0	1495.2	1495.2	1512.0	1461.6	1444.8	1444.8	1444.8
35°	1344.0	1327.2	1344.0	1377.6	1377.6	1394.4	1394.4	1377.6	1344.0	1310.4	1293.6
37.5°	1260.0	1243.2	1243.2	1243.2	1276.8	1293.6	1310.4	1276.8	1226.4	1176.0	1176.0
40°	1192.8	1192.8	1176.0	1176.0	1176.0	1209.6	1243.2	1192.8	1125.6	1108.8	1108.8
42.5°	1142.4	1125.6	1108.8	1092.0	1075.2	1125.6	1159.2	1092.0	1058.4	1058.4	1058.4
45°	1092.0	1075.2	1058.4	1041.6	1024.8	1041.6	1075.2	1008.0	991.2	991.2	991.2
47.5°	1041.6	1024.8	991.2	974.4	957.6	957.6	991.2	940.8	924.0	940.8	940.8
50°	1008.0	974.4	940.8	924.0	907.2	907.2	907.2	890.4	890.4	890.4	907.2
52.5°	974.4	940.8	890.4	873.6	856.8	856.8	856.8	856.8	840.0	856.8	873.6
55°	924.0	890.4	856.8	840.0	823.2	806.4	823.2	806.4	806.4	823.2	823.2
57.5°	856.8	823.2	789.6	789.6	772.8	772.8	789.6	772.8	772.8	789.6	789.6
60°	806.4	772.8	739.2	739.2	722.4	739.2	756.0	739.2	739.2	739.2	756.0
62.5°	739.2	722.4	688.8	688.8	688.8	688.8	705.6	688.8	705.6	705.6	705.6
65°	688.8	655.2	638.4	638.4	638.4	638.4	672.0	638.4	655.2	655.2	655.2
67.5°	638.4	604.8	588.0	588.0	588.0	588.0	621.6	588.0	604.8	621.6	604.8
70°	588.0	554.4	537.6	537.6	537.6	537.6	554.4	537.6	537.6	554.4	554.4
72.5°	520.8	504.0	487.2	487.2	470.4	487.2	504.0	487.2	487.2	487.2	487.2
75°	470.4	453.6	453.6	436.8	436.8	436.8	453.6	420.0	420.0	420.0	420.0
77.5°	436.8	403.2	403.2	403.2	386.4	403.2	386.4	352.8	352.8	352.8	352.8
80°	369.6	336.0	352.8	352.8	336.0	336.0	319.2	285.6	285.6	285.6	285.6
82.5°	302.4	268.8	285.6	285.6	285.6	285.6	252.0	235.2	218.4	201.6	201.6
85°	268.8	218.4	252.0	252.0	235.2	235.2	168.0	168.0	134.4	134.4	117.6
87.5°	50.4	33.6	67.2	84.0	84.0	100.8	67.2	84.0	50.4	33.6	33.6
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°	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4
2.5°	10651.3	10836.1	11088.1	11273.0	11558.6	11777.0	12113.0	12398.6	12667.4	12785.0	12902.6
5°	8937.7	9055.3	9441.7	9744.1	10197.7	10684.9	11289.8	11945.0	12617.0	12919.4	13272.2
7.5°	6686.5	6904.9	7123.3	7560.1	8114.5	8904.1	9676.9	10651.3	11592.2	12045.8	12650.6
10°	5191.3	5359.3	5611.3	6064.9	6585.7	7240.9	8164.9	9324.1	10449.7	11037.7	11659.4
12.5°	4166.5	4401.7	4737.7	5208.1	5812.9	6484.9	7156.9	8232.1	9542.5	10214.5	10920.1
15°	3376.8	3561.6	3931.3	4519.3	5224.9	5913.7	6619.3	7509.7	8937.7	9710.5	10550.5
17.5°	2688.0	2822.4	3158.4	3746.5	4452.1	5224.9	6031.3	7156.9	8736.1	9676.9	10668.1
20°	2184.0	2284.8	2503.2	2940.0	3612.0	4452.1	5460.1	6820.9	8853.7	10063.3	11273.0
22.5°	1915.2	1948.8	2049.6	2284.8	2839.2	3729.7	4939.3	6535.3	9072.1	10634.5	12264.2
25°	1730.4	1764.0	1797.6	1948.8	2268.0	3108.0	4485.7	6367.3	9542.5	11474.6	13406.6
27.5°	1612.8	1646.4	1663.2	1730.4	1948.8	2654.4	4099.3	6266.5	10180.9	12701.0	14817.8
30°	1512.0	1512.0	1562.4	1663.2	1814.4	2335.2	3763.3	6031.3	10852.9	13725.8	15926.6
32.5°	1428.0	1444.8	1512.0	1562.4	1663.2	2066.4	3427.2	5728.9	11457.8	14565.8	17018.6
35°	1276.8	1276.8	1293.6	1377.6	1512.0	1848.0	3124.8	5426.5	11793.8	15389.0	17993.0
37.5°	1176.0	1192.8	1226.4	1293.6	1411.2	1696.8	2872.8	5090.5	12146.6	16161.8	19135.5
40°	1108.8	1125.6	1159.2	1226.4	1344.0	1562.4	2654.4	4821.7	12516.2	17001.8	20361.9
42.5°	1058.4	1075.2	1108.8	1176.0	1276.8	1528.8	2419.2	4603.3	12734.6	17774.6	21521.1
45°	1008.0	1024.8	1075.2	1142.4	1226.4	1495.2	2284.8	4452.1	12818.6	18295.4	22445.1
47.5°	957.6	974.4	1024.8	1125.6	1226.4	1444.8	2234.4	4368.1	12885.8	18883.5	23184.3
50°	907.2	940.8	1008.0	1108.8	1243.2	1377.6	2200.8	4351.3	13272.2	19639.5	23889.9
52.5°	873.6	924.0	991.2	1108.8	1226.4	1276.8	2184.0	4401.7	14045.0	20765.1	24897.9
55°	840.0	890.4	957.6	1108.8	1176.0	1192.8	2100.0	4485.7	15221.0	22327.5	26326.0
57.5°	806.4	840.0	924.0	1075.2	1108.8	1125.6	1932.0	4603.3	16397.0	23856.3	27787.6
60°	756.0	789.6	873.6	1075.2	1008.0	1058.4	1713.6	4636.9	17237.0	24343.5	27922.0
62.5°	705.6	739.2	823.2	1108.8	924.0	991.2	1528.8	4519.3	17405.0	23637.9	27166.0
65°	655.2	688.8	756.0	924.0	856.8	924.0	1411.2	4200.1	16850.6	22025.1	25788.3
67.5°	604.8	638.4	688.8	756.0	772.8	840.0	1360.8	3696.0	15456.2	20025.9	23906.7
70°	537.6	571.2	621.6	672.0	688.8	789.6	1276.8	3208.8	13205.0	17354.6	21605.1
72.5°	487.2	504.0	554.4	588.0	621.6	722.4	1226.4	2805.6	10096.9	14045.0	17623.4
75°	420.0	420.0	470.4	504.0	537.6	638.4	1125.6	2335.2	7123.3	10718.5	12953.0
77.5°	352.8	352.8	386.4	420.0	453.6	554.4	957.6	1898.4	4939.3	8500.9	9391.3
80°	268.8	268.8	302.4	336.0	369.6	470.4	772.8	1394.4	3057.6	6216.1	6837.7
82.5°	184.8	184.8	235.2	252.0	268.8	369.6	588.0	957.6	1797.6	4485.7	4888.9
85°	100.8	100.8	134.4	151.2	184.8	268.8	436.8	672.0	1075.2	3242.4	3259.2
87.5°	16.8	16.8	50.4	50.4	84.0	134.4	252.0	369.6	604.8	1797.6	1142.4
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°	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4	11995.4
2.5°	13121.0	13305.8	13322.6	13322.6	13238.6	13255.4	13020.2	12768.2	12684.2	12667.4
5°	13809.8	14297.0	14431.4	14498.6	14280.2	13944.2	13339.4	12684.2	12348.2	12297.8
7.5°	13675.4	14649.8	15170.6	15237.8	14801.0	14011.4	12953.0	11945.0	11558.6	11457.8
10°	12885.8	14196.2	15137.0	15372.2	14901.8	13893.8	12516.2	11340.2	10869.7	10785.7
12.5°	12331.4	13591.4	14515.4	14834.6	14616.2	13742.6	12297.8	10953.7	10483.3	10365.7
15°	12029.0	13188.2	13793.0	13893.8	13877.0	13507.4	12297.8	11037.7	10516.9	10382.5
17.5°	12281.0	13070.6	13154.6	12919.4	13053.8	13238.6	12566.6	11491.4	10987.3	10869.7
20°	12785.0	13020.2	12617.0	12264.2	12331.4	12919.4	12986.6	12348.2	11945.0	11743.4
22.5°	13843.4	13205.0	12281.0	11793.8	11844.2	12667.4	13541.0	13507.4	13154.6	13053.8
25°	14918.6	13725.8	12180.2	11609.0	11676.2	12617.0	14196.2	14801.0	14616.2	14565.8
27.5°	16111.4	14599.4	12247.4	11525.0	11609.0	12684.2	14649.8	15893.0	15926.6	15876.2
30°	16917.8	15019.4	12449.0	11625.8	11743.4	12852.2	14750.6	16548.2	16850.6	16867.4
32.5°	17589.8	15439.4	12869.0	11793.8	11995.4	13154.6	15019.4	17169.8	17841.8	17858.6
35°	18127.4	15909.8	13389.8	12096.2	12398.6	13658.6	15372.2	17757.8	18765.9	18883.5
37.5°	18816.3	16430.6	13994.6	12751.4	13087.4	14381.0	15993.8	18446.6	19857.9	20177.1
40°	19555.5	16951.4	14868.2	13809.8	14297.0	15456.2	16699.4	19219.5	20781.9	21218.7
42.5°	20378.7	17505.8	15859.4	15237.8	15977.0	16817.0	17505.8	19925.1	21487.5	21991.5
45°	21185.1	18177.8	17304.2	17186.6	18009.8	18429.8	18295.4	20429.1	22159.5	22663.5
47.5°	21756.3	19152.3	19051.5	19757.1	20529.9	20311.5	19219.5	20798.7	22713.9	23268.3
50°	22277.1	20361.9	21252.3	22629.9	23100.3	22361.1	20210.7	21302.7	23301.9	23923.5
52.5°	23049.9	21655.5	23520.3	25233.9	25687.5	24511.5	21285.9	22125.9	24209.1	24763.5
55°	24629.1	23117.1	25889.1	27854.8	27938.8	26477.2	22730.7	23520.3	25485.9	26124.4
57.5°	26393.2	24914.7	27770.8	30022.0	29988.4	28442.8	24360.3	25401.9	27216.4	27653.2
60°	27989.2	26729.2	29820.4	31567.6	31483.6	29870.8	26258.8	27535.6	29198.8	29534.8
62.5°	28930.0	28375.6	30727.6	32054.8	31735.6	30341.2	27871.6	29434.0	30610.0	30727.6
65°	28778.8	29316.4	29669.2	30492.4	30038.8	29030.8	28661.2	30643.6	30761.2	30643.6
67.5°	27636.4	28778.8	26762.8	26846.8	26611.6	25754.7	27434.8	30324.4	29518.0	29232.4
70°	25905.9	25990.0	22377.9	21319.5	21689.1	20513.1	23537.1	27838.0	26594.8	26242.0
72.5°	23033.1	21991.5	16917.8	15842.6	16397.0	15557.0	18883.5	24259.5	23049.9	21907.5
75°	19320.3	17421.8	12885.8	11357.0	11642.6	11609.0	14633.0	20042.7	17858.6	16716.2
77.5°	14969.0	13574.6	9508.9	8920.9	8618.5	8685.7	10214.5	14901.8	12953.0	11525.0
80°	10936.9	9492.1	7358.5	7694.5	7526.5	7123.3	7156.9	9979.3	9004.9	8148.1
82.5°	7560.1	6753.7	5964.1	6736.9	6333.7	5712.1	5577.7	7190.5	6753.7	6232.9
85°	5073.7	5560.9	4737.7	5157.7	4468.9	4116.1	5241.7	6014.5	4855.3	4334.5
87.5°	3309.6	5090.5	3410.4	2587.2	1478.4	1982.4	3208.8	3948.1	2268.0	1226.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)