

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: P598906

Luminaire Tested: **IFLD-S-SA2A-730-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598906
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2A-730-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (32) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

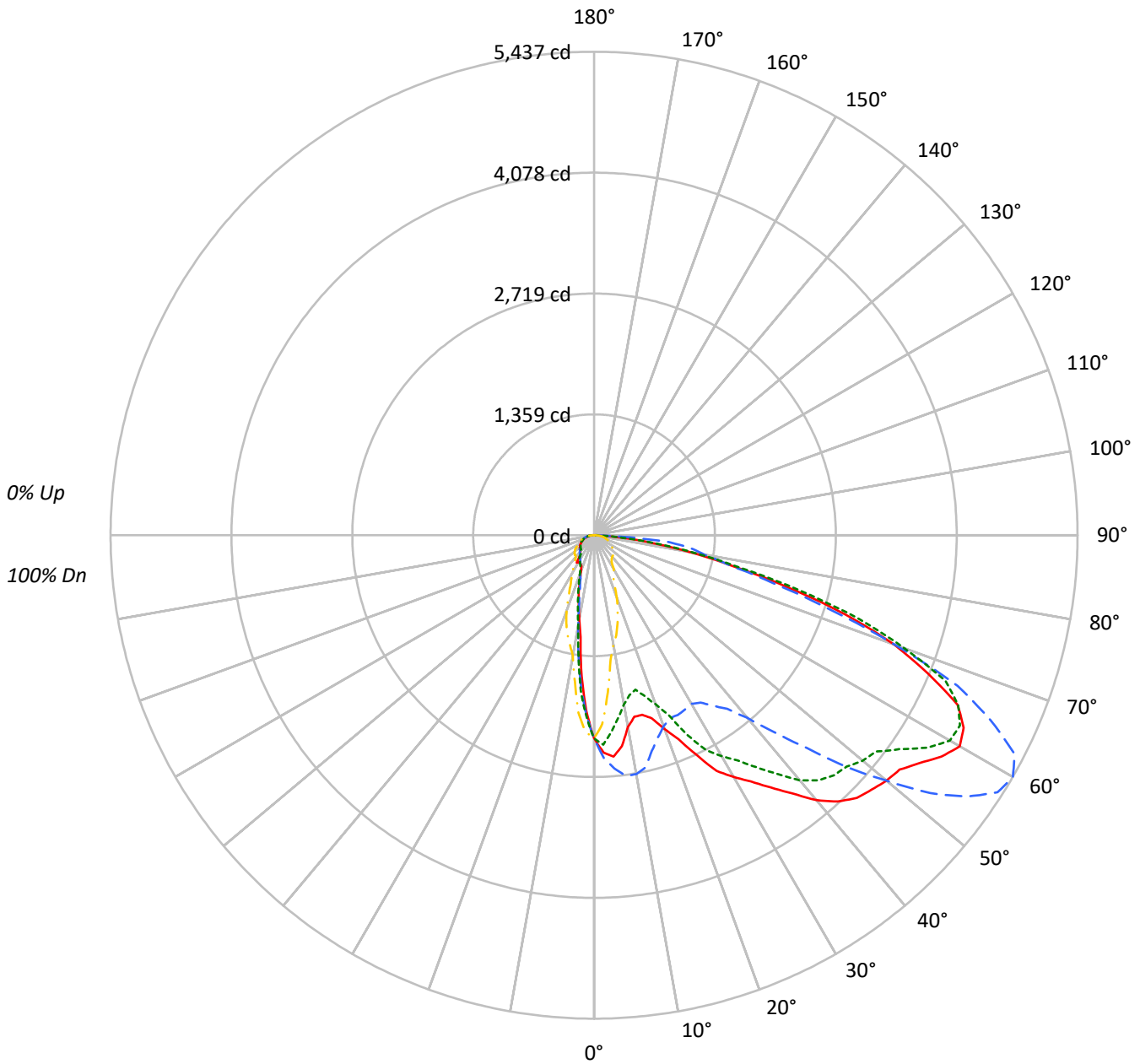
Lumens per Lamp: N/A
 Luminaire Lumens: 7150.9 lumens
 Efficiency: N/A
 Efficacy: 112.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 63.8
 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	49170	49170	49170	49170
5°	54019	47985	34412	37565
10°	47847	42229	20872	22398
15°	46591	40086	14776	15343
20°	53125	46364	9665	10683
25°	64725	58773	8440	8741
30°	77988	71283	8753	8121
35°	90952	83701	7253	6836
40°	109294	101091	6776	6419
45°	127190	116181	6856	6375
50°	143742	132056	7013	6588
55°	167636	157397	7263	6906
60°	204458	198861	7238	7238
65°	229776	230102	7432	7758
70°	225821	233809	7786	7987
75°	186275	198677	8176	8709
80°	134499	141181	9050	9434
85°	74447	79931	10177	12548

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.5
10°-20°	374.6	5.2
20°-30°	548.1	7.7
30°-40°	772.3	10.8
40°-50°	1061.3	14.8
50°-60°	1446.4	20.2
60°-70°	1583.1	22.1
70°-80°	914.0	12.8
80°-90°	273.7	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°	1100.2	15.4
0°-40°	1872.4	26.2
0°-60°	4380.2	61.3
0°-90°	7150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7150.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2284	2284	2284	2284	2284	
5°	2500	2220	1592	1738	2500	227
15°	2090	1799	663	688	2090	611
25°	2725	2474	355	368	2725	1276
35°	3461	3185	276	260	3461	2194
45°	4178	3816	225	209	4178	3211
55°	4466	4194	194	184	4466	4030
65°	4511	4517	146	152	4511	4317
75°	2240	2389	98	105	2240	2406
85°	301	324	41	51	301	418
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°	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0
2.5°	2445.7	2436.2	2445.7	2480.6	2490.1	2506.0	2506.0	2483.8	2442.6	2423.5	2391.8
5°	2499.7	2483.8	2563.1	2636.1	2693.2	2686.8	2632.9	2588.5	2506.0	2382.3	2264.9
7.5°	2391.8	2407.7	2464.8	2655.1	2788.3	2813.7	2728.1	2639.2	2461.6	2290.3	2131.7
10°	2188.8	2211.0	2334.7	2531.4	2740.8	2782.0	2728.1	2620.2	2407.7	2195.1	2011.2
12.5°	2090.5	2141.2	2214.2	2452.1	2601.2	2699.5	2674.1	2604.3	2366.4	2115.8	1938.2
15°	2090.5	2103.1	2211.0	2410.8	2496.5	2499.7	2509.2	2521.9	2379.1	2150.7	1912.8
17.5°	2157.1	2192.0	2284.0	2407.7	2423.5	2385.5	2385.5	2439.4	2404.5	2249.1	2004.8
20°	2318.9	2306.2	2426.7	2477.5	2391.8	2296.6	2287.1	2379.1	2433.1	2353.7	2172.9
22.5°	2480.6	2537.7	2636.1	2521.9	2363.3	2236.4	2223.7	2337.9	2518.7	2534.6	2366.4
25°	2724.9	2782.0	2832.7	2693.2	2360.1	2220.5	2230.0	2318.9	2623.4	2791.5	2690.0
27.5°	2988.2	3023.1	3096.0	2880.3	2436.2	2201.5	2211.0	2344.2	2721.7	2959.6	2943.8
30°	3137.3	3175.3	3159.5	2915.2	2487.0	2214.2	2188.8	2379.1	2667.8	2959.6	3108.7
32.5°	3283.2	3261.0	3251.5	2972.3	2550.4	2293.5	2230.0	2452.1	2699.5	3007.2	3321.3
35°	3460.8	3429.1	3403.7	3083.3	2655.1	2369.6	2341.1	2547.2	2769.3	3105.5	3492.6
37.5°	3657.5	3657.5	3533.8	3165.8	2778.8	2493.3	2461.6	2683.7	2880.3	3165.8	3727.3
40°	3889.1	3898.6	3679.7	3276.8	2918.4	2690.0	2680.5	2861.3	2988.2	3254.6	3952.5
42.5°	4060.4	4066.7	3806.6	3318.1	3080.2	2962.8	3004.0	3146.8	3111.9	3333.9	3968.4
45°	4177.7	4146.0	3895.4	3435.5	3257.8	3372.0	3384.7	3425.9	3273.7	3381.5	4031.8
47.5°	4234.8	4228.5	3933.5	3571.9	3632.1	3787.6	3860.5	3803.4	3422.8	3330.8	4031.8
50°	4291.9	4238.0	3968.4	3759.0	3996.9	4311.0	4295.1	4190.4	3629.0	3394.2	3971.6
52.5°	4330.0	4282.4	4038.2	3927.1	4345.9	4701.1	4764.6	4571.1	3870.0	3511.6	4000.1
55°	4466.4	4428.3	4247.5	4155.5	4748.7	5113.5	5123.0	4853.4	4123.8	3705.1	4187.3
57.5°	4631.4	4653.6	4536.2	4479.1	5056.4	5414.9	5380.0	5062.8	4339.5	3939.8	4403.0
60°	4748.7	4783.6	4755.1	4761.4	5208.7	5516.4	5437.1	5192.8	4498.1	4117.5	4666.3
62.5°	4685.3	4755.1	4872.4	4847.1	5215.0	5443.4	5332.4	5021.5	4517.2	4349.0	4866.1
65°	4510.8	4517.2	4745.6	4885.1	4929.5	5065.9	4920.0	4663.1	4320.5	4491.8	4837.6
67.5°	4063.5	4114.3	4320.5	4593.3	4406.1	4437.9	4425.2	4054.0	4022.3	4393.4	4618.7
70°	3587.7	3622.6	3847.8	4168.2	3720.9	3571.9	3600.4	3324.4	3454.5	4088.9	4177.7
72.5°	2966.0	2988.2	3245.1	3527.4	2985.0	2718.5	2785.2	2559.9	2743.9	3578.2	3524.3
75°	2239.5	2280.8	2480.6	2813.7	2198.3	2027.0	2093.6	2001.6	2172.9	2946.9	2734.4
77.5°	1592.4	1560.7	1808.1	2201.5	1652.7	1551.2	1557.5	1573.4	1757.4	2483.8	1963.6
80°	1084.9	1094.4	1316.4	1614.6	1297.4	1281.6	1265.7	1392.6	1475.1	1966.7	1427.5
82.5°	643.9	643.9	888.2	1148.3	1024.6	1154.7	1081.7	1195.9	1154.7	1446.5	935.8
85°	301.4	301.4	456.8	827.9	793.0	951.6	808.9	904.1	853.3	1008.7	421.9
87.5°	50.8	44.4	92.0	406.0	326.7	371.1	145.9	482.2	536.1	704.2	104.7
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°	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0
2.5°	2356.9	2334.7	2290.3	2233.2	2185.6	2125.4	2106.3	2065.1	2008.0	2001.6	1976.3
5°	2220.5	2144.4	2049.2	1931.8	1852.5	1770.1	1700.3	1659.0	1611.5	1605.1	1592.4
7.5°	2071.4	1976.3	1817.7	1678.1	1541.7	1411.6	1348.2	1268.9	1214.9	1173.7	1154.7
10°	1931.8	1843.0	1646.4	1456.0	1335.5	1249.8	1173.7	1091.2	1024.6	973.9	954.8
12.5°	1839.9	1735.2	1522.6	1341.8	1253.0	1154.7	1069.0	980.2	894.6	827.9	793.0
15°	1798.6	1700.3	1484.6	1284.7	1154.7	1018.3	919.9	831.1	726.4	678.8	663.0
17.5°	1897.0	1751.0	1471.9	1218.1	1034.1	878.7	758.1	663.0	586.9	539.3	520.2
20°	2023.8	1843.0	1494.1	1138.8	919.9	745.5	612.2	510.7	460.0	425.1	421.9
22.5°	2185.6	1979.4	1529.0	1081.7	793.0	599.5	479.0	418.7	383.8	380.7	374.3
25°	2474.3	2226.9	1586.1	1005.6	691.5	494.9	409.2	374.3	358.5	348.9	355.3
27.5°	2721.7	2388.6	1627.3	958.0	650.3	466.3	396.5	358.5	342.6	339.4	342.6
30°	2867.6	2537.7	1614.6	869.2	567.8	444.1	421.9	409.2	377.5	352.1	352.1
32.5°	3000.9	2632.9	1611.5	789.9	485.3	371.1	352.1	342.6	361.6	374.3	364.8
35°	3184.9	2782.0	1601.9	745.5	450.4	342.6	310.9	285.5	272.8	266.5	276.0
37.5°	3381.5	2883.5	1576.6	739.1	431.4	326.7	301.4	276.0	263.3	256.9	253.8
40°	3597.2	2991.4	1548.0	707.4	421.9	317.2	291.8	269.6	253.8	244.3	241.1
42.5°	3736.8	3077.0	1519.5	691.5	402.9	310.9	282.3	263.3	247.4	234.7	234.7
45°	3816.1	3178.5	1490.9	675.7	380.7	314.0	282.3	256.9	237.9	231.6	225.2
47.5°	3851.0	3254.6	1481.4	650.3	361.6	301.4	276.0	250.6	231.6	218.9	215.7
50°	3943.0	3416.4	1516.3	631.3	339.4	288.7	291.8	247.4	228.4	212.5	209.4
52.5°	3996.9	3546.5	1592.4	602.7	323.6	272.8	285.5	241.1	218.9	203.0	203.0
55°	4193.6	3762.2	1674.9	580.5	304.5	250.6	263.3	228.4	203.0	193.5	193.5
57.5°	4444.2	3990.6	1744.7	571.0	291.8	234.7	234.7	222.1	193.5	180.8	177.6
60°	4618.7	4177.7	1785.9	564.6	279.2	218.9	209.4	222.1	184.0	171.3	168.1
62.5°	4637.7	4069.9	1744.7	561.5	276.0	203.0	190.3	212.5	174.5	161.8	155.4
65°	4517.2	3851.0	1630.5	548.8	272.8	187.2	177.6	184.0	161.8	152.3	145.9
67.5°	4276.1	3495.7	1465.5	542.4	269.6	174.5	161.8	158.6	149.1	139.6	133.2
70°	3714.6	3032.6	1272.0	513.9	263.3	165.0	145.9	142.7	133.2	126.9	123.7
72.5°	3118.2	2480.6	1050.0	475.8	250.6	149.1	133.2	126.9	123.7	114.2	111.0
75°	2388.6	1909.6	840.6	421.9	218.9	133.2	117.4	111.0	107.9	101.5	98.3
77.5°	1678.1	1421.1	621.7	342.6	184.0	120.5	104.7	98.3	95.2	85.6	85.6
80°	1138.8	996.1	421.9	237.9	142.7	98.3	92.0	85.6	79.3	73.0	73.0
82.5°	707.4	697.9	304.5	155.4	104.7	79.3	73.0	73.0	63.4	57.1	57.1
85°	323.6	428.2	212.5	107.9	79.3	60.3	60.3	57.1	50.8	41.2	41.2
87.5°	101.5	142.7	111.0	47.6	44.4	34.9	34.9	31.7	31.7	25.4	25.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0
2.5°	2001.6	1998.5	1998.5	1985.8	2017.5	2017.5	2036.5	2020.7	2030.2	2033.4	2058.7
5°	1589.3	1614.6	1633.7	1671.7	1693.9	1703.5	1703.5	1728.8	1719.3	1738.3	1776.4
7.5°	1164.2	1195.9	1253.0	1300.6	1338.7	1351.3	1348.2	1354.5	1364.0	1341.8	1348.2
10°	942.1	919.9	939.0	983.4	1018.3	1059.5	1027.8	1024.6	1034.1	1024.6	1043.6
12.5°	786.7	761.3	745.5	745.5	770.8	789.9	780.4	796.2	831.1	840.6	862.8
15°	637.6	615.4	602.7	586.9	612.2	618.6	628.1	650.3	675.7	688.4	713.7
17.5°	510.7	510.7	510.7	498.0	507.5	517.1	520.2	548.8	552.0	564.6	574.2
20°	418.7	428.2	444.1	450.4	460.0	460.0	453.6	469.5	456.8	466.3	472.7
22.5°	377.5	390.2	396.5	399.7	412.4	415.6	399.7	402.9	406.0	396.5	399.7
25°	355.3	361.6	355.3	358.5	361.6	355.3	358.5	364.8	361.6	368.0	364.8
27.5°	345.8	339.4	336.2	333.1	333.1	326.7	329.9	329.9	336.2	339.4	339.4
30°	345.8	336.2	323.6	314.0	314.0	304.5	310.9	317.2	320.4	326.7	326.7
32.5°	355.3	336.2	314.0	304.5	295.0	288.7	295.0	304.5	317.2	320.4	323.6
35°	282.3	291.8	288.7	276.0	272.8	272.8	269.6	269.6	260.1	260.1	256.9
37.5°	253.8	250.6	256.9	260.1	263.3	253.8	253.8	241.1	237.9	241.1	241.1
40°	237.9	237.9	237.9	247.4	250.6	244.3	234.7	228.4	228.4	228.4	231.6
42.5°	231.6	225.2	222.1	228.4	237.9	231.6	222.1	218.9	218.9	222.1	222.1
45°	222.1	218.9	215.7	212.5	225.2	215.7	212.5	209.4	209.4	209.4	212.5
47.5°	212.5	209.4	203.0	203.0	206.2	203.0	199.8	199.8	199.8	206.2	206.2
50°	206.2	203.0	196.7	196.7	196.7	196.7	193.5	193.5	193.5	196.7	199.8
52.5°	196.7	193.5	190.3	187.2	187.2	187.2	187.2	187.2	187.2	190.3	193.5
55°	187.2	184.0	180.8	180.8	184.0	184.0	180.8	184.0	180.8	184.0	187.2
57.5°	177.6	174.5	171.3	174.5	177.6	174.5	174.5	174.5	174.5	174.5	177.6
60°	165.0	165.0	165.0	165.0	171.3	171.3	171.3	171.3	165.0	168.1	171.3
62.5°	158.6	155.4	155.4	158.6	161.8	161.8	165.0	161.8	158.6	161.8	161.8
65°	145.9	145.9	145.9	149.1	149.1	152.3	152.3	152.3	149.1	152.3	152.3
67.5°	136.4	136.4	136.4	136.4	142.7	142.7	142.7	142.7	139.6	139.6	142.7
70°	120.5	123.7	120.5	126.9	133.2	130.1	133.2	133.2	130.1	126.9	133.2
72.5°	111.0	111.0	111.0	111.0	120.5	120.5	120.5	123.7	120.5	117.4	120.5
75°	98.3	98.3	98.3	101.5	107.9	107.9	107.9	107.9	107.9	104.7	104.7
77.5°	85.6	88.8	85.6	88.8	95.2	92.0	95.2	98.3	95.2	92.0	92.0
80°	73.0	73.0	73.0	76.1	79.3	79.3	79.3	82.5	79.3	76.1	76.1
82.5°	57.1	57.1	60.3	60.3	63.4	63.4	63.4	66.6	63.4	60.3	60.3
85°	44.4	44.4	44.4	47.6	47.6	50.8	50.8	53.9	53.9	50.8	50.8
87.5°	28.5	25.4	28.5	28.5	31.7	31.7	28.5	25.4	28.5	25.4	22.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0	2284.0
2.5°	2084.1	2141.2	2182.4	2211.0	2252.2	2331.5	2363.3	2420.4	2436.2	2445.7
5°	1792.3	1852.5	1941.4	2004.8	2077.8	2226.9	2341.1	2426.7	2464.8	2499.7
7.5°	1405.3	1484.6	1576.6	1659.0	1779.6	1963.6	2112.7	2290.3	2356.9	2391.8
10°	1097.6	1170.5	1272.0	1373.5	1541.7	1697.1	1909.6	2071.4	2163.4	2188.8
12.5°	926.3	1011.9	1132.5	1256.2	1360.9	1538.5	1754.2	1988.9	2074.6	2090.5
15°	786.7	904.1	1027.8	1154.7	1275.2	1430.6	1662.2	1947.7	2074.6	2090.5
17.5°	650.3	755.0	900.9	1037.3	1176.9	1389.4	1678.1	1982.6	2109.5	2157.1
20°	517.1	618.6	732.8	904.1	1094.4	1319.6	1713.0	2100.0	2268.1	2318.9
22.5°	428.2	472.7	583.7	748.6	973.9	1272.0	1747.9	2284.0	2461.6	2480.6
25°	374.3	406.0	475.8	631.3	878.7	1240.3	1830.3	2496.5	2724.9	2724.9
27.5°	348.9	361.6	409.2	548.8	812.1	1211.8	1912.8	2731.2	2943.8	2988.2
30°	342.6	374.3	399.7	488.5	739.1	1132.5	1988.9	2915.2	3134.1	3137.3
32.5°	336.2	329.9	348.9	425.1	650.3	1050.0	2052.4	3102.4	3273.7	3283.2
35°	263.3	276.0	307.7	374.3	583.7	989.7	2084.1	3203.9	3451.3	3460.8
37.5°	247.4	263.3	288.7	345.8	539.3	939.0	2093.6	3400.6	3638.5	3657.5
40°	241.1	253.8	272.8	320.4	504.4	875.5	2112.7	3603.6	3914.5	3889.1
42.5°	228.4	244.3	263.3	307.7	475.8	827.9	2115.8	3714.6	4060.4	4060.4
45°	225.2	234.7	256.9	307.7	444.1	786.7	2065.1	3825.6	4228.5	4177.7
47.5°	212.5	231.6	250.6	298.2	406.0	745.5	2004.8	3882.7	4250.7	4234.8
50°	209.4	228.4	260.1	282.3	383.8	726.4	1992.1	4025.5	4295.1	4291.9
52.5°	203.0	222.1	269.6	269.6	355.3	701.0	2052.4	4088.9	4304.6	4330.0
55°	193.5	222.1	250.6	247.4	329.9	669.3	2119.0	4253.9	4472.8	4466.4
57.5°	187.2	215.7	237.9	225.2	301.4	647.1	2217.3	4412.5	4675.8	4631.4
60°	177.6	215.7	212.5	209.4	279.2	628.1	2299.8	4444.2	4720.2	4748.7
62.5°	171.3	225.2	187.2	193.5	260.1	618.6	2264.9	4206.3	4659.9	4685.3
65°	165.0	193.5	171.3	177.6	253.8	599.5	2128.5	3920.8	4399.8	4510.8
67.5°	152.3	158.6	158.6	165.0	247.4	555.1	1849.4	3406.9	4003.3	4063.5
70°	139.6	142.7	142.7	152.3	241.1	504.4	1525.8	2946.9	3473.5	3587.7
72.5°	126.9	126.9	126.9	139.6	222.1	463.1	1256.2	2264.9	2886.7	2966.0
75°	111.0	111.0	111.0	123.7	199.8	421.9	989.7	1684.4	2125.4	2239.5
77.5°	98.3	98.3	95.2	111.0	174.5	342.6	713.7	1189.6	1497.3	1592.4
80°	82.5	79.3	79.3	88.8	136.4	247.4	460.0	840.6	1043.6	1084.9
82.5°	66.6	63.4	60.3	66.6	98.3	155.4	285.5	586.9	669.3	643.9
85°	63.4	66.6	53.9	50.8	69.8	101.5	180.8	361.6	301.4	301.4
87.5°	25.4	22.2	22.2	19.0	34.9	38.1	79.3	66.6	50.8	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)