

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: P598702

Luminaire Tested: **IFLD-L-SA8D-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598702
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8D-735-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (128) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

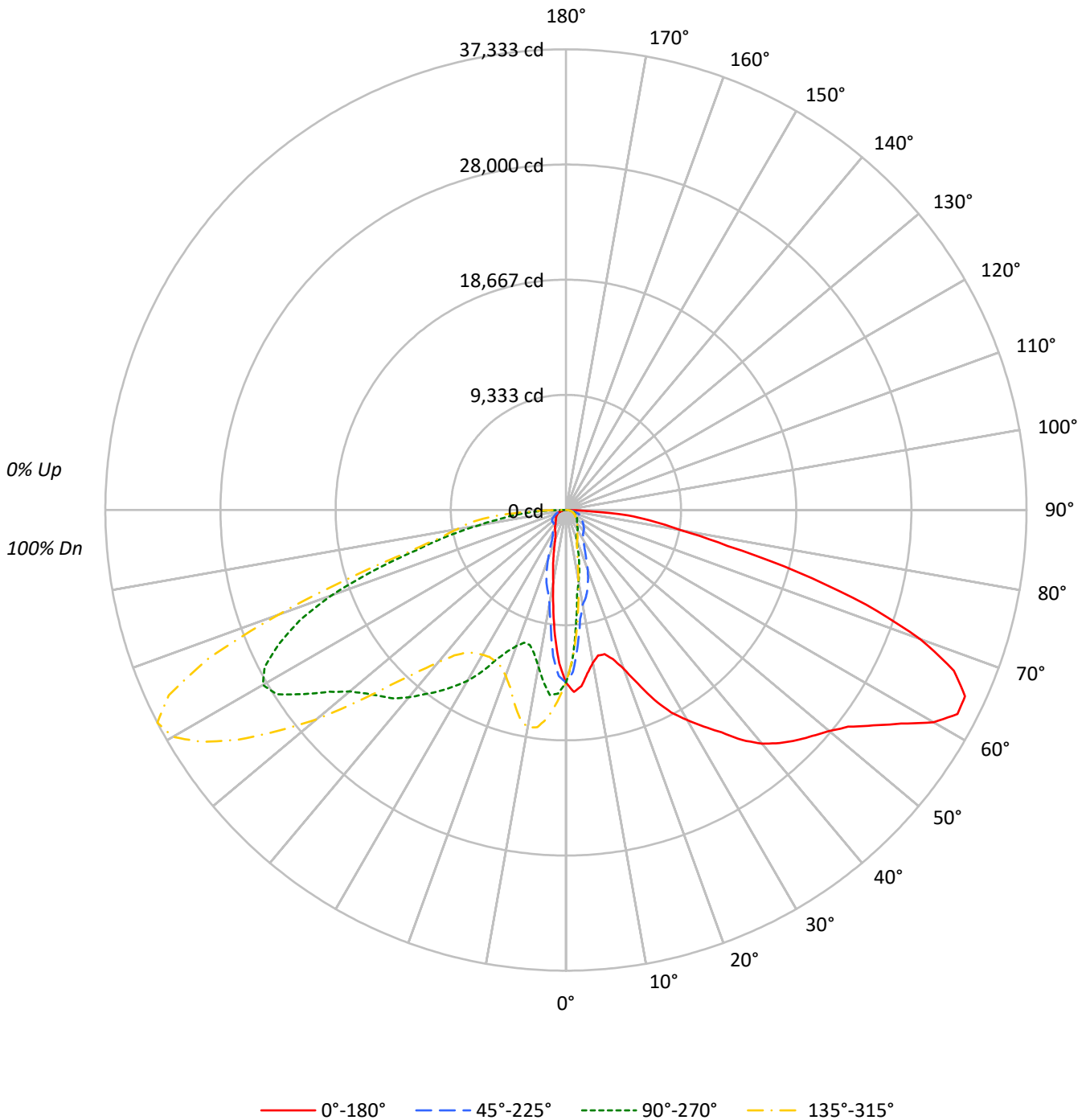
Lumens per Lamp: N/A
 Luminaire Lumens: 46768.1 lumens
 Efficiency: N/A
 Efficacy: 95.8 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 488.3
 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



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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°	75189	75189	75189	75189
5°	77379	50317	54968	81290
10°	68649	31972	32293	70253
15°	67375	22676	21477	63014
20°	78333	14344	14456	67126
25°	100739	12317	11968	79359
30°	122084	11673	10944	99345
35°	144496	10284	9899	117756
40°	173621	9760	9073	139117
45°	200900	9680	8786	162179
50°	233290	9830	8847	191514
55°	285491	10098	8997	243999
60°	370256	10109	9478	305177
65°	454496	10216	9718	326669
70°	480931	10776	10161	318055
75°	404838	11393	10173	259583
80°	294122	13343	10308	224380
85°	311732	19334	8460	233190

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1081.2	2.3
10°-20°	2262.8	4.8
20°-30°	3260.9	7.0
30°-40°	4694.4	10.0
40°-50°	6668.1	14.3
50°-60°	9586.9	20.5
60°-70°	11076.0	23.7
70°-80°	6271.4	13.4
80°-90°	1866.4	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°	6604.9	14.1
0°-40°	11299.4	24.2
0°-60°	27554.3	58.9
0°-90°	46768.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46768.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13970	13970	13970	13970	13970	
5°	14323	9314	10175	15047	14323	1300
15°	12092	4070	3855	11309	12092	3556
25°	16964	2074	2015	13364	16964	7874
35°	21993	1565	1507	17923	21993	13958
45°	26395	1272	1154	21308	26395	20438
55°	30426	1076	959	26004	30426	27555
65°	35689	802	763	25652	35689	34223
75°	19469	548	489	12483	19469	20657
85°	5048	313	137	3776	5048	5027
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°	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5
2.5°	14753.2	14733.6	14616.2	14244.4	13853.1	13481.3	13129.1	12757.4	12561.7	12326.9	12229.1
5°	14322.7	14283.6	13950.9	13129.1	12405.2	11622.5	10957.3	10429.0	9998.5	9568.0	9411.5
7.5°	13344.4	13285.7	12894.3	11759.5	10702.9	9685.4	8883.2	8198.4	7630.9	7376.6	7083.1
10°	12561.7	12463.9	11955.1	10702.9	9333.2	8315.8	7787.5	7317.9	6828.7	6417.8	5987.4
12.5°	12072.5	11955.1	11426.8	9959.4	8628.8	7865.7	7317.9	6789.6	6183.0	5674.3	5204.7
15°	12092.1	11955.1	11309.4	9763.7	8452.7	7474.4	6711.3	5987.4	5283.0	4715.5	4187.2
17.5°	12659.5	12483.4	11798.6	10037.6	8315.8	6965.7	5948.2	5009.0	4206.8	3600.2	3169.8
20°	13677.0	13559.6	12776.9	10448.5	8178.8	6417.8	5165.6	4030.7	3189.3	2719.7	2543.6
22.5°	15203.2	15066.2	14224.9	11074.7	8139.7	5928.7	4324.2	3169.8	2563.2	2367.5	2269.7
25°	16964.2	16709.8	15927.1	12131.2	8217.9	5478.6	3639.4	2621.9	2289.3	2152.3	2093.6
27.5°	18490.4	18333.8	17453.3	13129.1	8257.1	5126.4	3169.8	2387.1	2132.8	2015.4	1976.2
30°	19644.8	19586.1	18725.2	14224.9	8159.2	4696.0	2876.3	2289.3	2132.8	2015.4	1898.0
32.5°	20799.2	20818.8	19899.2	15066.2	8022.3	4324.2	2602.3	2034.9	1878.4	1800.1	1819.7
35°	21992.8	22090.6	21307.9	15888.0	7728.8	4187.2	2406.7	1898.0	1761.0	1643.6	1584.9
37.5°	23499.4	23753.8	22990.7	16807.6	7435.3	4069.8	2308.8	1800.1	1663.2	1565.3	1487.1
40°	24712.5	25182.1	24732.1	17668.6	7239.6	3932.9	2230.6	1702.3	1604.5	1487.1	1428.4
42.5°	25612.6	26160.4	26003.9	18333.8	7239.6	3795.9	2152.3	1643.6	1565.3	1428.4	1350.1
45°	26395.2	26962.7	26943.1	19018.7	7396.1	3717.6	2054.5	1643.6	1526.2	1389.2	1311.0
47.5°	27099.6	27667.1	27862.7	19879.6	7650.5	3678.5	1937.1	1604.5	1526.2	1369.7	1252.3
50°	27862.7	28488.9	29075.9	21249.2	7963.6	3580.7	1858.8	1545.8	1545.8	1350.1	1213.1
52.5°	28841.1	29545.4	30621.6	22951.5	8276.6	3404.6	1741.4	1506.6	1545.8	1330.5	1174.0
55°	30425.9	31012.9	32421.7	24986.4	8668.0	3189.3	1643.6	1408.8	1467.5	1271.8	1115.3
57.5°	32206.5	32715.2	33889.2	26551.8	8785.4	2915.4	1506.6	1311.0	1408.8	1213.1	1037.0
60°	34397.9	34652.3	34652.3	27001.8	8394.0	2661.0	1408.8	1232.7	1271.8	1154.4	978.3
62.5°	35787.2	35787.2	34652.3	26180.0	7650.5	2445.8	1330.5	1154.4	1115.3	1076.2	919.6
65°	35689.3	35532.8	33850.1	23792.9	6789.6	2308.8	1252.3	1056.6	997.9	978.3	860.9
67.5°	34045.7	33771.8	31482.5	20427.4	5889.5	2250.1	1174.0	958.8	919.6	880.5	782.7
70°	30562.9	29858.5	27040.9	16435.9	5009.0	2211.0	1154.4	880.5	841.4	802.2	724.0
72.5°	25514.7	24614.7	21112.3	12640.0	4206.8	2074.1	1095.7	782.7	763.1	724.0	645.7
75°	19468.7	17805.5	14733.6	9665.9	3267.6	1800.1	939.2	684.8	684.8	665.3	587.0
77.5°	13422.6	12561.7	10272.4	7141.8	2387.1	1389.2	763.1	606.6	606.6	626.1	547.9
80°	9489.8	8687.5	7317.9	5126.4	1506.6	939.2	587.0	508.7	567.4	606.6	508.7
82.5°	7259.2	6672.2	5439.5	3737.2	880.5	645.7	450.0	410.9	489.2	528.3	430.5
85°	5048.2	4343.8	2758.9	2504.5	508.7	391.3	332.6	332.6	430.5	528.3	391.3
87.5°	1428.4	606.6	176.1	743.5	215.2	156.5	117.4	78.3	117.4	117.4	78.3
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°	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5
2.5°	12131.2	12013.8	12013.8	11974.7	11994.3	12013.8	11994.3	12131.2	12189.9	12268.2	12424.7
5°	9313.7	9470.2	9352.8	9470.2	9626.7	9861.5	9920.2	10096.3	10115.9	10252.9	10174.6
7.5°	6907.0	6887.4	6789.6	6926.5	7357.0	7689.6	7846.2	7944.0	7963.6	7963.6	7865.7
10°	5850.4	5674.3	5498.2	5400.4	5439.5	5791.7	5909.1	5967.8	5928.7	5987.4	5909.1
12.5°	5009.0	4852.5	4598.1	4422.0	4304.6	4402.5	4519.9	4578.6	4617.7	4715.5	4793.8
15°	4069.8	3913.3	3756.8	3658.9	3561.1	3482.8	3580.7	3639.4	3737.2	3815.5	3854.6
17.5°	3091.5	3013.2	2935.0	2993.7	2993.7	2954.5	2993.7	3013.2	3052.4	3111.1	3091.5
20°	2504.5	2484.9	2465.4	2563.2	2641.5	2641.5	2680.6	2621.9	2602.3	2543.6	2524.1
22.5°	2230.6	2230.6	2250.1	2328.4	2406.7	2445.8	2445.8	2348.0	2250.1	2211.0	2230.6
25°	2074.1	2074.1	2132.8	2152.3	2191.5	2191.5	2211.0	2113.2	2054.5	1995.8	2015.4
27.5°	1956.7	1956.7	1976.2	1976.2	1995.8	1995.8	2015.4	1976.2	1898.0	1878.4	1878.4
30°	1878.4	1878.4	1858.8	1858.8	1858.8	1858.8	1878.4	1819.7	1780.6	1761.0	1761.0
32.5°	1800.1	1780.6	1761.0	1761.0	1741.4	1741.4	1761.0	1702.3	1682.7	1682.7	1682.7
35°	1565.3	1545.8	1565.3	1604.5	1604.5	1624.0	1624.0	1604.5	1565.3	1526.2	1506.6
37.5°	1467.5	1447.9	1447.9	1447.9	1487.1	1506.6	1526.2	1487.1	1428.4	1369.7	1369.7
40°	1389.2	1389.2	1369.7	1369.7	1369.7	1408.8	1447.9	1389.2	1311.0	1291.4	1291.4
42.5°	1330.5	1311.0	1291.4	1271.8	1252.3	1311.0	1350.1	1271.8	1232.7	1232.7	1232.7
45°	1271.8	1252.3	1232.7	1213.1	1193.6	1213.1	1252.3	1174.0	1154.4	1154.4	1154.4
47.5°	1213.1	1193.6	1154.4	1134.9	1115.3	1115.3	1154.4	1095.7	1076.2	1095.7	1095.7
50°	1174.0	1134.9	1095.7	1076.2	1056.6	1056.6	1056.6	1037.0	1037.0	1037.0	1056.6
52.5°	1134.9	1095.7	1037.0	1017.5	997.9	997.9	997.9	997.9	978.3	997.9	1017.5
55°	1076.2	1037.0	997.9	978.3	958.8	939.2	958.8	939.2	939.2	958.8	958.8
57.5°	997.9	958.8	919.6	919.6	900.1	900.1	919.6	900.1	900.1	919.6	919.6
60°	939.2	900.1	860.9	860.9	841.4	860.9	880.5	860.9	860.9	860.9	880.5
62.5°	860.9	841.4	802.2	802.2	802.2	802.2	821.8	802.2	821.8	821.8	821.8
65°	802.2	763.1	743.5	743.5	743.5	743.5	782.7	743.5	763.1	763.1	763.1
67.5°	743.5	704.4	684.8	684.8	684.8	684.8	724.0	684.8	704.4	724.0	704.4
70°	684.8	645.7	626.1	626.1	626.1	626.1	645.7	626.1	626.1	645.7	645.7
72.5°	606.6	587.0	567.4	567.4	547.9	567.4	587.0	567.4	567.4	567.4	567.4
75°	547.9	528.3	528.3	508.7	508.7	508.7	528.3	489.2	489.2	489.2	489.2
77.5°	508.7	469.6	469.6	469.6	450.0	469.6	450.0	410.9	410.9	410.9	410.9
80°	430.5	391.3	410.9	410.9	391.3	391.3	371.8	332.6	332.6	332.6	332.6
82.5°	352.2	313.1	332.6	332.6	332.6	332.6	293.5	273.9	254.4	234.8	234.8
85°	313.1	254.4	293.5	293.5	273.9	273.9	195.7	195.7	156.5	156.5	137.0
87.5°	58.7	39.1	78.3	97.8	97.8	117.4	78.3	97.8	58.7	39.1	39.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5
2.5°	12405.2	12620.4	12913.9	13129.1	13461.8	13716.1	14107.5	14440.1	14753.2	14890.1	15027.1
5°	10409.4	10546.4	10996.4	11348.6	11876.9	12444.3	13148.7	13911.8	14694.5	15046.7	15457.6
7.5°	7787.5	8041.8	8296.2	8804.9	9450.6	10370.3	11270.3	12405.2	13500.9	14029.2	14733.6
10°	6046.1	6241.7	6535.2	7063.5	7670.1	8433.2	9509.3	10859.4	12170.4	12855.2	13579.2
12.5°	4852.5	5126.4	5517.8	6065.6	6770.0	7552.7	8335.3	9587.6	11113.8	11896.4	12718.2
15°	3932.9	4148.1	4578.6	5263.4	6085.2	6887.4	7709.2	8746.2	10409.4	11309.4	12287.8
17.5°	3130.6	3287.2	3678.5	4363.3	5185.1	6085.2	7024.4	8335.3	10174.6	11270.3	12424.7
20°	2543.6	2661.0	2915.4	3424.1	4206.8	5185.1	6359.1	7944.0	10311.6	11720.3	13129.1
22.5°	2230.6	2269.7	2387.1	2661.0	3306.7	4343.8	5752.6	7611.4	10565.9	12385.6	14283.6
25°	2015.4	2054.5	2093.6	2269.7	2641.5	3619.8	5224.3	7415.7	11113.8	13363.9	15614.1
27.5°	1878.4	1917.5	1937.1	2015.4	2269.7	3091.5	4774.2	7298.3	11857.3	14792.3	17257.7
30°	1761.0	1761.0	1819.7	1937.1	2113.2	2719.7	4382.9	7024.4	12640.0	15985.8	18549.1
32.5°	1663.2	1682.7	1761.0	1819.7	1937.1	2406.7	3991.6	6672.2	13344.4	16964.2	19820.9
35°	1487.1	1487.1	1506.6	1604.5	1761.0	2152.3	3639.4	6320.0	13735.7	17922.9	20955.7
37.5°	1369.7	1389.2	1428.4	1506.6	1643.6	1976.2	3345.9	5928.7	14146.6	18823.0	22286.3
40°	1291.4	1311.0	1350.1	1428.4	1565.3	1819.7	3091.5	5615.6	14577.1	19801.3	23714.6
42.5°	1232.7	1252.3	1291.4	1369.7	1487.1	1780.6	2817.6	5361.2	14831.4	20701.4	25064.7
45°	1174.0	1193.6	1252.3	1330.5	1428.4	1741.4	2661.0	5185.1	14929.3	21307.9	26140.9
47.5°	1115.3	1134.9	1193.6	1311.0	1428.4	1682.7	2602.3	5087.3	15007.5	21992.8	27001.8
50°	1056.6	1095.7	1174.0	1291.4	1447.9	1604.5	2563.2	5067.7	15457.6	22873.3	27823.6
52.5°	1017.5	1076.2	1154.4	1291.4	1428.4	1487.1	2543.6	5126.4	16357.6	24184.2	28997.6
55°	978.3	1037.0	1115.3	1291.4	1369.7	1389.2	2445.8	5224.3	17727.3	26003.9	30660.7
57.5°	939.2	978.3	1076.2	1252.3	1291.4	1311.0	2250.1	5361.2	19096.9	27784.5	32363.0
60°	880.5	919.6	1017.5	1252.3	1174.0	1232.7	1995.8	5400.4	20075.3	28351.9	32519.6
62.5°	821.8	860.9	958.8	1291.4	1076.2	1154.4	1780.6	5263.4	20270.9	27530.1	31639.1
65°	763.1	802.2	880.5	1076.2	997.9	1076.2	1643.6	4891.6	19625.2	25651.7	30034.6
67.5°	704.4	743.5	802.2	880.5	900.1	978.3	1584.9	4304.6	18001.2	23323.3	27843.2
70°	626.1	665.3	724.0	782.7	802.2	919.6	1487.1	3737.2	15379.3	20212.2	25162.5
72.5°	567.4	587.0	645.7	684.8	724.0	841.4	1428.4	3267.6	11759.5	16357.6	20525.3
75°	489.2	489.2	547.9	587.0	626.1	743.5	1311.0	2719.7	8296.2	12483.4	15085.8
77.5°	410.9	410.9	450.0	489.2	528.3	645.7	1115.3	2211.0	5752.6	9900.7	10937.7
80°	313.1	313.1	352.2	391.3	430.5	547.9	900.1	1624.0	3561.1	7239.6	7963.6
82.5°	215.2	215.2	273.9	293.5	313.1	430.5	684.8	1115.3	2093.6	5224.3	5693.9
85°	117.4	117.4	156.5	176.1	215.2	313.1	508.7	782.7	1252.3	3776.3	3795.9
87.5°	19.6	19.6	58.7	58.7	97.8	156.5	293.5	430.5	704.4	2093.6	1330.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5	13970.5
2.5°	15281.5	15496.7	15516.3	15516.3	15418.4	15438.0	15164.1	14870.6	14772.7	14753.2
5°	16083.7	16651.1	16807.6	16885.9	16631.5	16240.2	15535.8	14772.7	14381.4	14322.7
7.5°	15927.1	17062.0	17668.6	17746.8	17238.1	16318.5	15085.8	13911.8	13461.8	13344.4
10°	15007.5	16533.7	17629.4	17903.4	17355.5	16181.5	14577.1	13207.4	12659.5	12561.7
12.5°	14361.8	15829.3	16905.5	17277.2	17022.9	16005.4	14322.7	12757.4	12209.5	12072.5
15°	14009.6	15359.7	16064.1	16181.5	16161.9	15731.5	14322.7	12855.2	12248.6	12092.1
17.5°	14303.1	15222.8	15320.6	15046.7	15203.2	15418.4	14635.8	13383.5	12796.5	12659.5
20°	14890.1	15164.1	14694.5	14283.6	14361.8	15046.7	15124.9	14381.4	13911.8	13677.0
22.5°	16122.8	15379.3	14303.1	13735.7	13794.4	14753.2	15770.6	15731.5	15320.6	15203.2
25°	17375.1	15985.8	14185.7	13520.5	13598.7	14694.5	16533.7	17238.1	17022.9	16964.2
27.5°	18764.3	17003.3	14264.0	13422.6	13520.5	14772.7	17062.0	18509.9	18549.1	18490.4
30°	19703.5	17492.5	14498.8	13540.0	13677.0	14968.4	17179.4	19273.0	19625.2	19644.8
32.5°	20486.1	17981.6	14988.0	13735.7	13970.5	15320.6	17492.5	19997.0	20779.6	20799.2
35°	21112.3	18529.5	15594.5	14087.9	14440.1	15907.6	17903.4	20681.8	21855.8	21992.8
37.5°	21914.5	19136.1	16298.9	14851.0	15242.3	16748.9	18627.3	21484.0	23127.6	23499.4
40°	22775.4	19742.6	17316.4	16083.7	16651.1	18001.2	19449.1	22384.1	24203.8	24712.5
42.5°	23734.2	20388.3	18470.8	17746.8	18607.8	19586.1	20388.3	23205.9	25025.6	25612.6
45°	24673.4	21171.0	20153.5	20016.6	20975.3	21464.5	21307.9	23792.9	25808.2	26395.2
47.5°	25338.6	22305.8	22188.4	23010.2	23910.3	23655.9	22384.1	24223.4	26453.9	27099.6
50°	25945.2	23714.6	24751.6	26356.1	26904.0	26043.0	23538.5	24810.3	27138.8	27862.7
52.5°	26845.3	25221.2	27393.1	29388.9	29917.2	28547.6	24790.8	25769.1	28195.4	28841.1
55°	28684.5	26923.5	30152.0	32441.3	32539.1	30836.8	26473.5	27393.1	29682.4	30425.9
57.5°	30739.0	29017.2	32343.5	34965.4	34926.2	33126.1	28371.5	29584.6	31697.8	32206.5
60°	32597.8	31130.3	34730.6	36765.5	36667.7	34789.3	30582.5	32069.5	34006.6	34397.9
62.5°	33693.6	33047.9	35787.2	37332.9	36961.2	35337.1	32460.9	34280.5	35650.2	35787.2
65°	33517.5	34143.6	34554.5	35513.2	34984.9	33810.9	33380.5	35689.3	35826.3	35689.3
67.5°	32186.9	33517.5	31169.5	31267.3	30993.4	29995.5	31952.1	35317.6	34378.4	34045.7
70°	30171.6	30269.4	26062.6	24829.9	25260.4	23890.7	27412.7	32421.7	30973.8	30562.9
72.5°	26825.7	25612.6	19703.5	18451.2	19096.9	18118.6	21992.8	28254.1	26845.3	25514.7
75°	22501.5	20290.5	15007.5	13227.0	13559.6	13520.5	17042.4	23342.9	20799.2	19468.7
77.5°	17433.8	15809.7	11074.7	10389.8	10037.6	10115.9	11896.4	17355.5	15085.8	13422.6
80°	12737.8	11055.1	8570.1	8961.5	8765.8	8296.2	8335.3	11622.5	10487.7	9489.8
82.5°	8804.9	7865.7	6946.1	7846.2	7376.6	6652.6	6496.1	8374.5	7865.7	7259.2
85°	5909.1	6476.5	5517.8	6006.9	5204.7	4793.8	6104.8	7004.8	5654.7	5048.2
87.5°	3854.6	5928.7	3972.0	3013.2	1721.9	2308.8	3737.2	4598.1	2641.5	1428.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)