

Scaled data based on original data using
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: P691084

Luminaire Tested: **CRTK2-C013-5TLD-U-T5R-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T5R-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

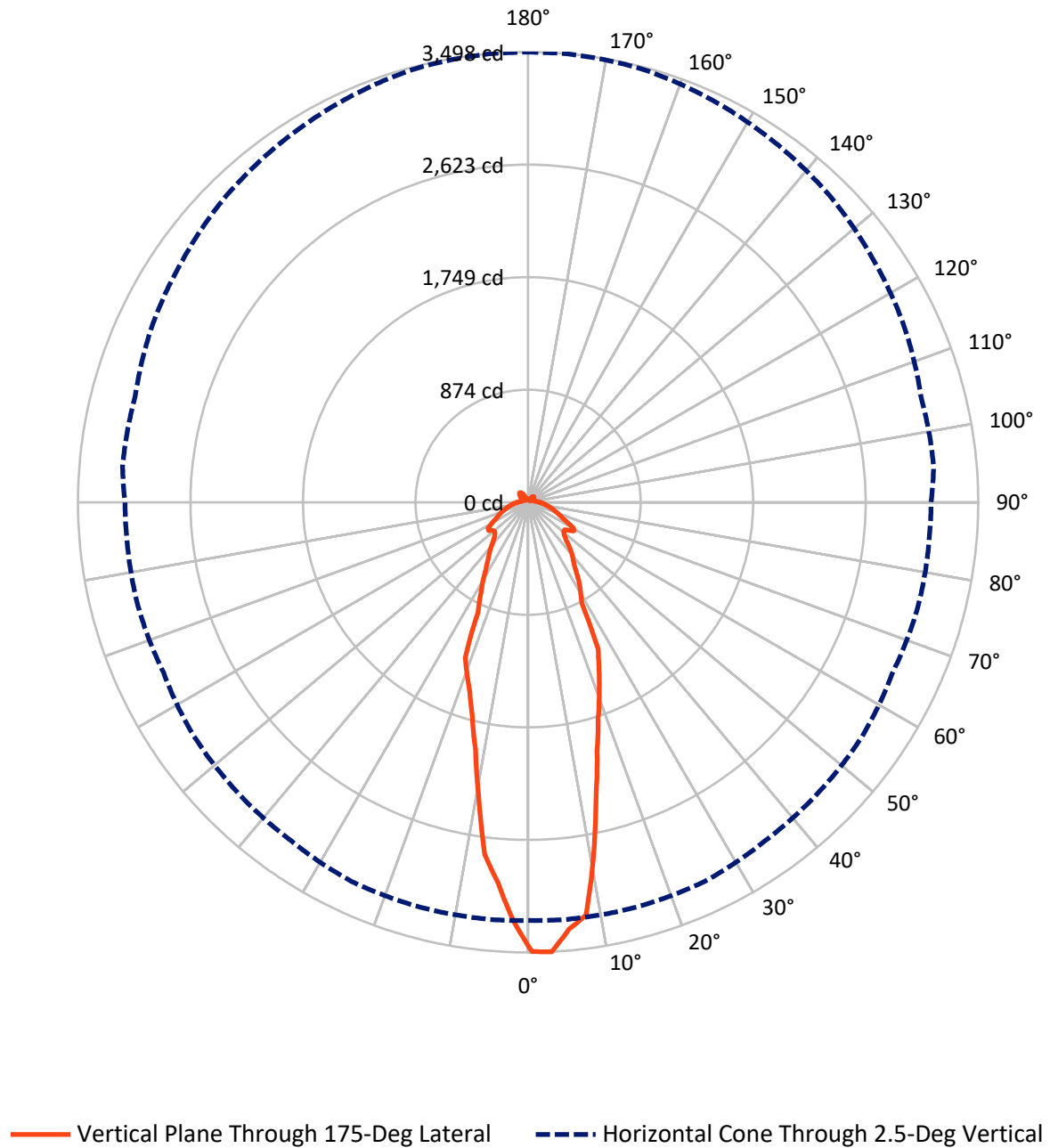
Input Watts (W): 23.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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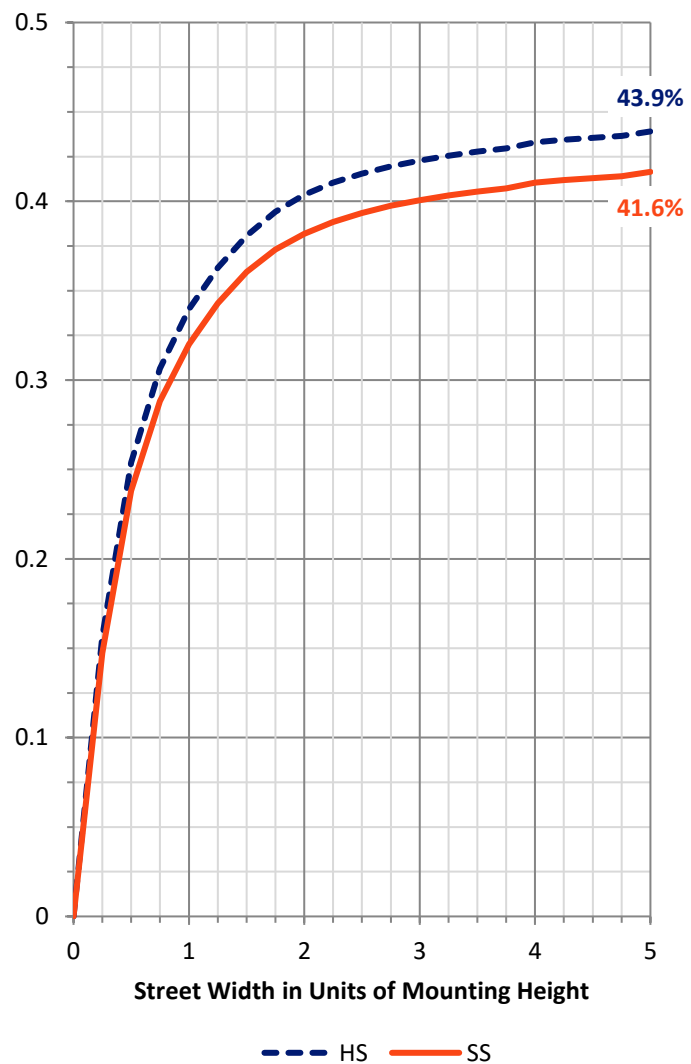
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.6	187.8	1609.4
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1338.9	192.7	1531.6
	% Fixture	42.6	6.1	48.8
Total	Lumens	2760.4	380.5	3141.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	8.3
10°-20°	456.1	14.5
20°-30°	452.3	14.4
30°-40°	348.6	11.1
40°-50°	298.9	9.5
50°-60°	334.3	10.6
60°-70°	286.4	9.1
70°-80°	197.1	6.3
80°-90°	126.9	4.0
90°-100°	76.0	2.4
100°-110°	45.2	1.4
110°-120°	41.9	1.3
120°-130°	59.7	1.9
130°-140°	77.2	2.5
140°-150°	57.1	1.8
150°-160°	20.9	0.7
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-90°	2760.4	87.9
0°-180°	3141.0	100.0

Coefficient of Utilization



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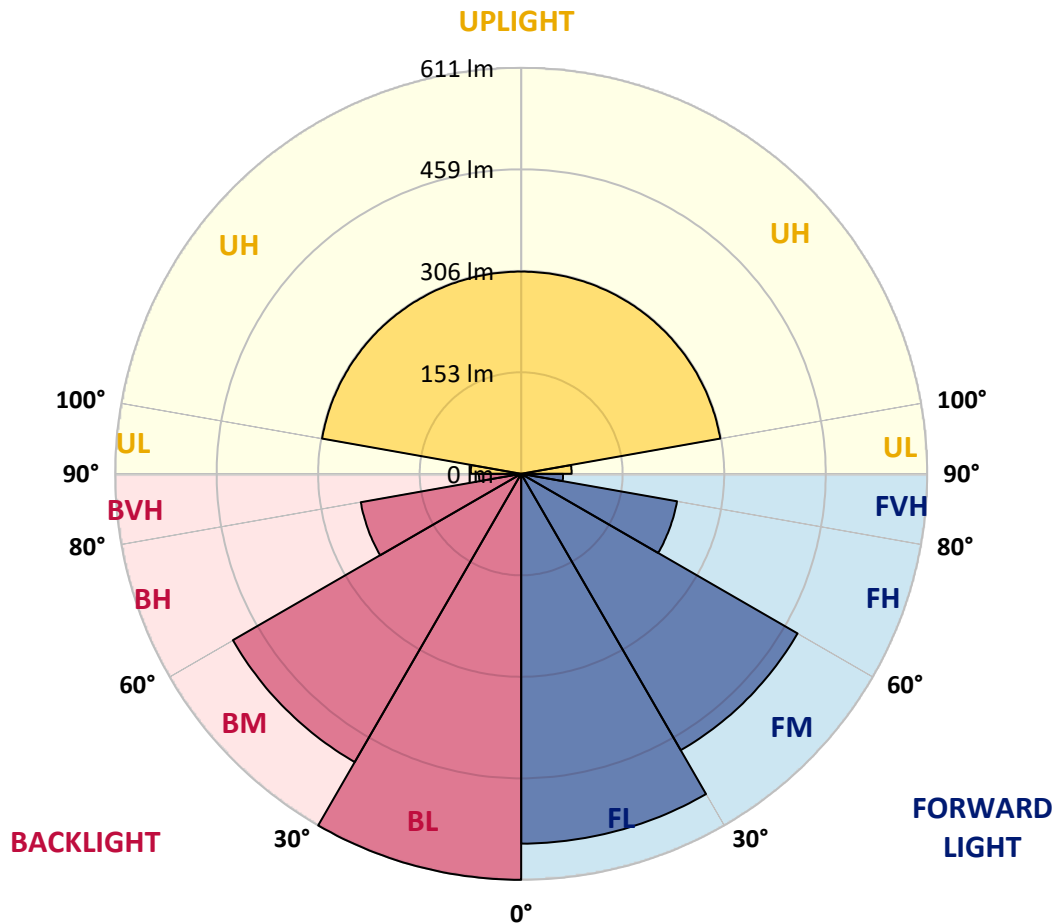
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.8	17.7			
FM	(30°-60°)	480.6	15.3			
FH	(60°-80°)	238.2	7.6			G0/660
FVH	(80°-90°)	63.2	2.0			G1/100
BL	(0°-30°)	611.4	19.5	B2/1000		
BM	(30°-60°)	501.3	16.0	B1/1000		
BH	(60°-80°)	245.2	7.8	B1/500		G0/660
BVH	(80°-90°)	63.6	2.0			G1/100
UL	(90°-100°)	76.0	2.4		U3/500	
UH	(100°-180°)	304.5	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3249.5	3254.3	3255.4	3249.5	3210.5	3190.5	3169.2	3126.6	3136.1	3130.2	3131.4
5°	2947.0	2965.9	2936.4	2928.1	2869.0	2825.3	2782.8	2736.7	2726.1	2707.2	2714.2
7.5°	2746.2	2756.8	2708.3	2658.7	2564.2	2496.8	2425.9	2355.0	2301.9	2281.8	2290.0
10°	2286.5	2321.9	2273.5	2222.7	2132.9	2052.5	1978.1	1908.4	1859.9	1844.6	1846.9
12.5°	1943.8	1963.9	1922.5	1888.3	1787.8	1711.0	1642.5	1577.5	1538.5	1522.0	1522.0
15°	1716.9	1725.2	1693.3	1627.1	1551.5	1481.8	1423.9	1376.6	1344.7	1338.8	1341.2
17.5°	1545.6	1545.6	1513.7	1461.7	1403.8	1342.4	1302.2	1266.7	1252.5	1257.3	1258.5
20°	1416.8	1418.0	1389.6	1338.8	1289.2	1233.6	1200.6	1175.7	1167.5	1175.7	1176.9
22.5°	1295.1	1301.0	1270.3	1232.5	1178.1	1134.4	1107.2	1080.0	1075.3	1078.8	1078.8
25°	937.0	937.0	926.4	896.9	908.7	913.4	945.3	1013.9	999.7	1012.7	1011.5
27.5°	808.2	813.0	791.7	765.7	738.5	706.6	700.7	694.8	688.9	716.1	725.5
30°	713.7	716.1	698.4	680.6	658.2	640.5	635.7	635.7	629.8	651.1	649.9
32.5°	623.9	620.4	615.6	599.1	584.9	569.6	573.1	570.7	570.7	589.6	590.8
35°	553.0	551.8	548.3	536.5	522.3	510.5	514.0	516.4	515.2	527.0	527.0
37.5°	501.0	502.2	499.8	495.1	480.9	471.5	473.8	471.5	475.0	483.3	483.3
40°	450.2	450.2	451.4	450.2	440.8	437.2	444.3	440.8	449.0	454.9	452.6
42.5°	401.8	402.9	405.3	402.9	397.0	393.5	397.0	398.2	410.0	418.3	417.1
45°	371.0	371.0	372.2	371.0	366.3	362.8	362.8	359.2	367.5	372.2	371.0
47.5°	350.9	350.9	353.3	352.1	349.8	346.2	343.9	339.1	342.7	346.2	342.7
50°	343.9	343.9	348.6	348.6	347.4	343.9	340.3	334.4	335.6	338.0	333.2
52.5°	354.5	354.5	362.8	366.3	366.3	360.4	355.7	347.4	347.4	349.8	342.7
55°	376.9	376.9	389.9	397.0	398.2	398.2	392.3	384.0	385.2	389.9	382.9
57.5°	368.7	369.9	380.5	389.9	395.9	399.4	399.4	394.7	398.2	410.0	406.5
60°	329.7	332.0	339.1	347.4	358.0	361.6	361.6	360.4	366.3	380.5	380.5
62.5°	293.0	294.2	297.8	304.9	310.8	313.1	313.1	308.4	315.5	322.6	320.2
65°	264.7	263.5	270.6	276.5	280.1	283.6	280.1	275.3	278.9	283.6	282.4
67.5°	241.1	241.1	247.0	251.7	254.1	257.6	255.2	252.9	257.6	260.0	257.6
70°	218.6	219.8	224.5	228.1	230.4	234.0	230.4	229.2	234.0	236.3	235.1
72.5°	196.2	197.3	200.9	205.6	208.0	209.2	208.0	206.8	210.3	212.7	212.7
75°	176.1	177.2	179.6	184.3	184.3	186.7	185.5	184.3	187.9	190.2	190.2
77.5°	157.2	159.5	160.7	164.2	165.4	166.6	165.4	165.4	167.8	170.2	171.3
80°	140.6	141.8	143.0	146.5	146.5	147.7	146.5	146.5	148.9	152.4	152.4
82.5°	125.3	126.4	127.6	130.0	128.8	130.0	130.0	130.0	132.3	135.9	135.9
85°	109.9	112.3	112.3	114.6	114.6	114.6	114.6	115.8	117.0	120.5	120.5
87.5°	96.9	98.1	99.3	100.4	100.4	101.6	101.6	102.8	104.0	106.3	107.5
90°	83.9	85.1	86.3	86.3	86.3	87.4	87.4	88.6	89.8	92.2	93.4
92.5°	74.4	75.6	75.6	76.8	76.8	76.8	78.0	79.2	80.4	82.7	82.7
95°	66.2	67.4	67.4	67.4	67.4	68.5	68.5	69.7	70.9	73.3	73.3
97.5°	59.1	59.1	59.1	59.1	59.1	60.3	60.3	61.4	62.6	63.8	63.8
100°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	53.2	53.2	55.5	55.5
102.5°	46.1	46.1	44.9	44.9	44.9	43.7	43.7	44.9	44.9	46.1	46.1
105°	41.4	41.4	41.4	41.4	40.2	40.2	40.2	40.2	40.2	41.4	41.4
107.5°	40.2	40.2	39.0	39.0	39.0	37.8	37.8	37.8	37.8	39.0	39.0
110°	39.0	39.0	39.0	39.0	37.8	37.8	36.6	36.6	36.6	37.8	37.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	40.2	40.2	40.2	39.0	39.0	37.8	37.8	37.8	37.8	37.8	39.0
115°	42.5	41.4	41.4	41.4	41.4	40.2	39.0	39.0	40.2	40.2	40.2
117.5°	46.1	44.9	44.9	46.1	44.9	43.7	42.5	42.5	43.7	43.7	44.9
120°	50.8	49.6	50.8	50.8	50.8	49.6	48.4	47.3	48.4	49.6	49.6
122.5°	56.7	55.5	56.7	57.9	57.9	56.7	54.4	54.4	55.5	56.7	57.9
125°	63.8	63.8	65.0	66.2	67.4	65.0	63.8	62.6	65.0	66.2	66.2
127.5°	72.1	70.9	73.3	76.8	78.0	75.6	73.3	72.1	74.4	76.8	76.8
130°	80.4	79.2	82.7	86.3	88.6	86.3	83.9	82.7	85.1	87.4	87.4
132.5°	87.4	86.3	91.0	95.7	98.1	96.9	94.5	92.2	95.7	98.1	96.9
135°	93.4	93.4	99.3	104.0	106.3	105.2	102.8	100.4	105.2	107.5	105.2
137.5°	96.9	96.9	104.0	108.7	111.1	111.1	109.9	107.5	112.3	113.4	109.9
140°	96.9	98.1	104.0	108.7	109.9	111.1	111.1	109.9	114.6	114.6	111.1
142.5°	93.4	94.5	100.4	105.2	106.3	107.5	108.7	107.5	111.1	111.1	108.7
145°	87.4	88.6	94.5	99.3	99.3	100.4	102.8	101.6	104.0	105.2	102.8
147.5°	79.2	80.4	85.1	87.4	88.6	91.0	93.4	93.4	94.5	95.7	94.5
150°	68.5	68.5	72.1	74.4	75.6	78.0	80.4	81.5	81.5	82.7	81.5
152.5°	54.4	54.4	56.7	59.1	60.3	63.8	65.0	66.2	67.4	68.5	67.4
155°	41.4	41.4	42.5	43.7	44.9	48.4	49.6	50.8	52.0	53.2	52.0
157.5°	29.5	29.5	30.7	31.9	33.1	35.4	36.6	37.8	37.8	39.0	39.0
160°	18.9	20.1	20.1	21.3	21.3	23.6	24.8	24.8	26.0	27.2	27.2
162.5°	9.5	10.6	10.6	11.8	13.0	14.2	15.4	15.4	16.5	16.5	16.5
165°	2.4	3.5	3.5	4.7	4.7	5.9	7.1	7.1	8.3	8.3	8.3
167.5°	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
170°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	1.2	1.2	1.2
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3163.3	3160.9	3225.9	3277.9	3339.3	3387.8	3435.1	3480.0	3497.7	3496.5	3497.7
5°	2746.2	2787.5	2872.6	2956.5	3055.7	3149.1	3236.5	3294.4	3331.1	3331.1	3334.6
7.5°	2327.9	2394.0	2499.2	2632.7	2781.6	2903.3	3051.0	3155.0	3237.7	3235.4	3250.7
10°	1880.0	1932.0	2037.2	2180.1	2344.4	2485.0	2613.8	2710.7	2791.1	2786.3	2806.4
12.5°	1544.4	1581.0	1672.0	1802.0	1952.1	2088.0	2214.4	2290.0	2346.8	2345.6	2356.2
15°	1347.1	1384.9	1444.0	1533.8	1657.9	1778.4	1904.8	1973.4	2005.3	2001.7	2019.4
17.5°	1266.7	1282.1	1318.7	1379.0	1468.8	1566.9	1667.3	1726.4	1763.0	1758.3	1771.3
20°	1180.5	1194.6	1219.5	1264.4	1328.2	1402.6	1487.7	1552.7	1579.9	1578.7	1587.0
22.5°	1081.2	1088.3	1115.5	1150.9	1197.0	1257.3	1322.3	1381.3	1408.5	1407.3	1415.6
25°	1012.7	1024.5	1041.0	1062.3	1094.2	1141.5	1195.8	1237.2	1262.0	1259.6	1270.3
27.5°	739.7	751.5	759.8	772.8	774.0	813.0	831.9	866.1	888.6	887.4	894.5
30°	649.9	652.3	659.4	677.1	687.7	718.4	756.3	782.3	801.2	808.2	813.0
32.5°	593.2	600.3	608.5	616.8	629.8	648.7	678.3	701.9	722.0	725.5	733.8
35°	528.2	532.9	538.8	547.1	555.4	570.7	593.2	612.1	627.5	633.4	638.1
37.5°	482.1	483.3	489.2	498.7	505.7	518.7	538.8	553.0	568.4	569.6	574.3
40°	451.4	452.6	458.5	466.8	475.0	483.3	501.0	514.0	524.7	525.8	529.4
42.5°	415.9	419.5	421.8	425.4	431.3	438.4	453.8	460.8	467.9	469.1	473.8
45°	367.5	368.7	371.0	374.6	381.7	388.8	399.4	407.7	412.4	412.4	411.2
47.5°	340.3	341.5	341.5	346.2	352.1	359.2	368.7	375.8	378.1	378.1	378.1
50°	330.9	330.9	328.5	332.0	338.0	342.7	352.1	358.0	359.2	360.4	361.6
52.5°	338.0	335.6	328.5	332.0	338.0	342.7	352.1	354.5	354.5	356.9	358.0
55°	376.9	373.4	359.2	361.6	368.7	374.6	381.7	382.9	385.2	388.8	387.6
57.5°	401.8	404.1	387.6	391.1	404.1	408.9	417.1	415.9	420.7	425.4	426.6
60°	378.1	385.2	372.2	376.9	392.3	394.7	402.9	398.2	405.3	405.3	405.3
62.5°	321.4	323.8	316.7	323.8	338.0	338.0	343.9	340.3	342.7	340.3	341.5
65°	281.2	280.1	271.8	281.2	286.0	288.3	293.0	294.2	294.2	291.9	291.9
67.5°	256.4	254.1	247.0	249.3	254.1	255.2	262.3	263.5	262.3	262.3	263.5
70°	234.0	230.4	223.3	224.5	228.1	229.2	235.1	237.5	236.3	235.1	236.3
72.5°	211.5	208.0	200.9	200.9	204.4	206.8	211.5	213.9	211.5	211.5	212.7
75°	190.2	186.7	179.6	179.6	182.0	183.2	189.1	190.2	189.1	187.9	189.1
77.5°	171.3	169.0	161.9	161.9	163.1	164.2	167.8	169.0	167.8	166.6	167.8
80°	153.6	150.1	145.3	144.2	145.3	145.3	148.9	150.1	147.7	147.7	148.9
82.5°	137.1	133.5	128.8	128.8	127.6	128.8	131.2	132.3	131.2	130.0	131.2
85°	121.7	119.3	114.6	113.4	113.4	113.4	115.8	115.8	114.6	114.6	114.6
87.5°	107.5	105.2	100.4	100.4	99.3	100.4	101.6	101.6	100.4	100.4	100.4
90°	93.4	91.0	87.4	87.4	86.3	87.4	88.6	88.6	87.4	87.4	87.4
92.5°	82.7	81.5	78.0	78.0	76.8	78.0	78.0	78.0	76.8	76.8	76.8
95°	73.3	72.1	69.7	68.5	68.5	68.5	68.5	68.5	67.4	67.4	67.4
97.5°	63.8	62.6	60.3	60.3	59.1	60.3	60.3	60.3	59.1	59.1	59.1
100°	55.5	54.4	53.2	53.2	52.0	52.0	52.0	52.0	52.0	52.0	52.0
102.5°	46.1	46.1	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
105°	41.4	41.4	41.4	41.4	42.5	42.5	42.5	41.4	41.4	41.4	41.4
107.5°	39.0	39.0	39.0	40.2	40.2	40.2	41.4	39.0	37.8	37.8	37.8
110°	37.8	37.8	39.0	39.0	40.2	40.2	41.4	36.6	35.4	35.4	35.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	39.0	39.0	39.0	40.2	41.4	41.4	42.5	36.6	35.4	35.4	35.4
115°	41.4	41.4	41.4	42.5	43.7	44.9	44.9	39.0	36.6	36.6	37.8
117.5°	44.9	44.9	44.9	46.1	48.4	48.4	48.4	41.4	40.2	40.2	40.2
120°	49.6	50.8	50.8	52.0	54.4	55.5	53.2	47.3	43.7	43.7	43.7
122.5°	56.7	57.9	59.1	60.3	63.8	63.8	60.3	54.4	48.4	48.4	49.6
125°	66.2	67.4	68.5	70.9	74.4	74.4	69.7	61.4	54.4	54.4	55.5
127.5°	75.6	78.0	79.2	82.7	87.4	87.4	81.5	70.9	59.1	59.1	60.3
130°	86.3	88.6	91.0	95.7	101.6	99.3	94.5	80.4	62.6	62.6	62.6
132.5°	95.7	99.3	100.4	107.5	113.4	111.1	105.2	86.3	62.6	62.6	61.4
135°	102.8	105.2	106.3	113.4	119.3	115.8	108.7	88.6	61.4	59.1	59.1
137.5°	107.5	109.9	111.1	115.8	120.5	114.6	105.2	83.9	59.1	57.9	56.7
140°	109.9	109.9	109.9	113.4	115.8	108.7	96.9	75.6	53.2	55.5	55.5
142.5°	107.5	106.3	105.2	107.5	108.7	100.4	89.8	67.4	48.4	50.8	50.8
145°	101.6	99.3	98.1	99.3	99.3	89.8	78.0	57.9	42.5	43.7	43.7
147.5°	93.4	89.8	87.4	87.4	86.3	76.8	66.2	48.4	36.6	35.4	35.4
150°	80.4	76.8	74.4	74.4	70.9	62.6	53.2	37.8	29.5	29.5	29.5
152.5°	66.2	62.6	60.3	60.3	56.7	48.4	40.2	28.4	22.5	22.5	22.5
155°	52.0	48.4	46.1	44.9	42.5	36.6	29.5	21.3	16.5	16.5	16.5
157.5°	39.0	36.6	34.3	33.1	30.7	27.2	21.3	15.4	10.6	11.8	11.8
160°	27.2	24.8	23.6	22.5	21.3	17.7	14.2	9.5	5.9	5.9	5.9
162.5°	16.5	15.4	15.4	14.2	13.0	11.8	8.3	4.7	2.4	2.4	2.4
165°	8.3	8.3	7.1	7.1	5.9	4.7	3.5	1.2	0.0	0.0	0.0
167.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
170°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)