

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: METALUX

Report Number: P571636

Luminaire Tested: **2ST1L1040R**

Issue Date: 3/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P571636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P579285)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2ST1L1040R  
Description: 2 FOOT ST1 STIPLIGHT WITH 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

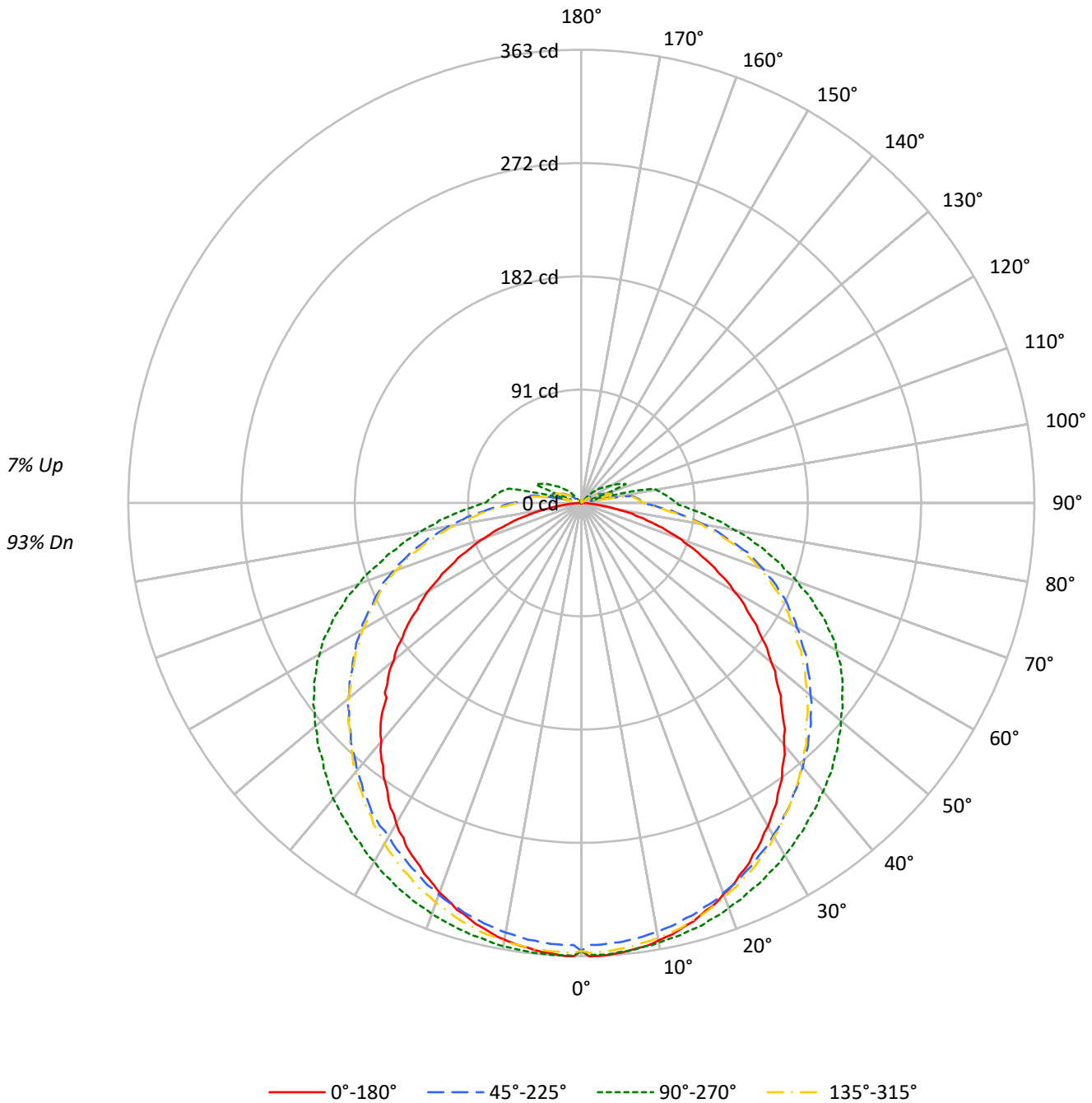
Lumens per Lamp: N/A  
Luminaire Lumens: 1315.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.15' x L: 2' x H: 0.11')  
CIE Type: Direct

Input Watts (W): 10.5  
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: 25 FT



TEST NUMBER: P571636  
CATALOG NUMBER: 2ST1L1040R

### 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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	60
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	41
5	72	58	48	41	69	56	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	34	28	23	21
10	50	36	28	22	48	35	28	22	34	27	22	32	26	21	31	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13241	13241	13241	13241
5°	13336	12554	13318	12606
10°	13207	11849	13185	11948
15°	13068	11239	13000	11347
20°	12837	10672	12794	10833
25°	12638	10180	12523	10355
30°	12363	9716	12252	9889
35°	12032	9309	11880	9519
40°	11645	8948	11488	9185
45°	11204	8597	10922	8762
50°	10716	8271	10576	8475
55°	10260	7980	10123	8152
60°	9515	7614	9616	7815
65°	8849	7160	8778	7389
70°	8012	6536	7815	6728
75°	6524	5828	6678	6070
80°	4715	5080	4731	5324
85°	2458	4395	2589	4564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.0	2.6
10°-20°	97.7	7.4
20°-30°	149.7	11.4
30°-40°	184.6	14.0
40°-50°	199.3	15.2
50°-60°	194.1	14.8
60°-70°	170.0	12.9
70°-80°	126.4	9.6
80°-90°	73.3	5.6
90°-100°	42.1	3.2
100°-110°	15.5	1.2
110°-120°	16.0	1.2
120°-130°	8.4	0.6
130°-140°	2.3	0.2
140°-150°	0.5	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	281.5	21.4
0°-40°	466.0	35.4
0°-60°	859.4	65.4
0°-90°	1229.0	93.5
90°-120°	73.5	5.6
90°-150°	84.7	6.4
90°-180°	86.0	6.5
0°-180°	1315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	359	359	359	359	359	
5°	362	361	361	362	362	34
15°	347	353	345	356	347	98
25°	318	337	315	342	318	146
35°	277	314	274	321	277	173
45°	226	287	221	293	226	175
55°	172	256	170	261	172	153
65°	113	213	112	219	113	112
75°	55	154	56	161	55	59
85°	9	98	10	102	9	12
90°	1	77	1	77	1	1
95°	0	68	0	70	0	0
105°	0	10	0	10	0	0
115°	0	36	0	36	0	0
125°	0	22	0	23	0	0
135°	0	10	0	9	0	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	1
165°	2	2	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P571636  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	358.8	358.8	358.8	358.8	358.8	358.8	358.8	358.8	358.8	358.8	358.8
1°	363.3	346.1	354.2	364.2	362.4	356.3	360.5	360.1	363.3	346.1	354.2
2°	363.1	346.0	354.3	364.0	362.1	355.8	360.0	360.0	363.1	346.0	354.5
3°	363.0	345.8	354.0	363.9	362.3	355.4	359.9	359.7	362.4	345.7	354.2
4°	362.3	345.4	353.3	363.6	361.8	355.2	359.3	359.1	361.5	345.1	354.0
5°	361.7	344.8	353.3	363.1	360.9	354.8	358.4	358.2	361.2	344.5	353.4
6°	360.7	344.3	352.4	362.4	360.9	353.7	357.9	357.8	360.0	344.2	352.7
7°	359.6	343.3	351.8	361.8	360.1	353.4	357.0	356.7	358.7	343.0	352.4
8°	359.0	342.4	351.0	361.2	359.0	352.4	355.7	355.1	357.9	341.6	351.3
9°	357.8	341.3	349.7	360.1	358.8	351.3	355.1	354.0	356.6	340.9	350.1
10°	355.8	339.8	348.8	359.6	357.6	350.7	353.6	353.1	355.2	339.4	349.5
11°	354.3	338.9	347.6	358.7	356.6	349.7	352.5	351.2	353.9	337.8	348.2
12°	353.1	337.0	346.7	357.3	355.8	348.4	351.2	349.0	351.6	335.5	346.8
13°	350.7	334.9	345.1	356.6	355.1	347.3	350.0	348.0	349.4	334.5	345.8
14°	348.5	333.9	343.1	354.9	353.6	346.1	347.9	345.7	347.9	333.4	344.0
15°	347.0	331.6	342.2	353.1	352.7	344.6	346.1	343.1	345.2	331.2	342.7
16°	344.2	330.3	340.4	352.1	351.8	343.1	344.6	341.6	342.5	328.6	341.3
17°	341.3	328.3	338.2	350.3	349.8	341.9	342.5	339.2	340.9	327.0	339.1
18°	339.7	325.8	337.0	348.2	348.6	340.0	340.1	336.1	337.3	325.0	337.6
19°	337.0	323.4	335.2	347.8	347.2	338.6	338.6	334.3	334.5	322.1	336.1
20°	333.3	321.6	332.5	345.5	345.2	336.8	336.1	331.9	332.2	319.5	333.9
21°	331.0	318.6	330.4	343.7	343.4	334.9	333.4	328.0	328.5	317.7	331.3
22°	328.2	315.8	328.8	342.4	342.2	333.4	331.6	325.8	325.3	315.0	330.0
23°	324.0	313.9	326.1	339.8	339.8	331.2	328.6	322.9	322.5	311.5	327.2
24°	321.3	310.3	323.3	337.8	338.0	329.2	326.1	319.4	318.3	309.5	324.1
25°	318.2	307.1	321.5	336.2	336.6	327.4	324.0	317.3	315.3	306.2	322.3
26°	313.5	305.0	318.3	333.3	334.6	324.9	321.2	312.9	312.2	302.3	319.5
27°	310.6	301.1	315.6	330.9	332.2	323.9	317.7	309.4	308.8	300.1	316.5
28°	306.8	297.7	313.5	329.2	330.6	321.8	315.6	306.7	303.8	296.8	314.7
29°	302.1	295.3	311.0	326.1	328.8	319.8	312.7	302.2	301.0	292.6	311.9
30°	299.2	291.9	307.4	323.5	325.8	316.7	308.6	298.4	296.5	290.0	308.5
31°	294.6	287.7	305.0	320.3	324.0	315.0	306.5	295.5	291.4	286.5	306.1
32°	290.4	284.9	302.3	318.3	321.5	312.3	302.7	290.5	288.3	282.2	304.9
33°	287.1	282.2	298.4	315.9	318.8	309.4	298.8	286.8	283.7	280.4	302.1
34°	281.4	276.6	296.1	313.4	317.1	307.6	296.4	283.4	278.0	275.5	299.8
35°	277.2	273.7	292.8	310.7	314.1	304.7	292.6	278.2	273.7	271.6	295.9
36°	273.5	269.8	288.9	308.0	311.2	301.5	288.2	273.9	269.9	268.7	292.5
37°	267.4	264.7	286.4	305.8	309.5	299.6	285.8	269.5	263.9	263.8	290.1
38°	262.9	261.7	282.8	302.9	306.8	297.0	282.3	266.2	260.2	259.8	285.8
39°	259.0	257.4	278.6	299.4	303.4	294.3	278.4	260.5	255.6	256.8	282.5
40°	252.7	252.0	276.1	297.4	301.5	292.3	275.8	256.0	249.3	251.4	279.9
41°	247.5	249.0	272.3	294.0	298.9	288.8	271.1	252.5	245.4	247.1	275.6
42°	243.8	244.7	269.2	290.2	295.9	285.8	267.1	246.5	240.5	243.9	272.0
43°	237.2	241.2	266.3	288.0	294.0	283.5	264.5	242.0	235.1	238.6	269.3
44°	231.7	236.9	261.9	284.7	290.4	279.5	259.6	238.3	228.4	234.4	265.9



TEST NUMBER: P571636  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	226.3	231.2	258.7	280.7	287.1	276.2	253.8	231.2	220.6	228.6	261.4
46°	222.1	228.0	255.7	278.3	285.0	272.3	251.0	227.8	219.1	225.0	257.5
47°	215.3	223.0	251.3	275.0	281.3	269.9	248.0	224.1	212.4	220.6	255.0
48°	209.9	217.5	247.7	271.0	277.8	266.6	244.1	217.9	208.4	217.2	250.4
49°	205.9	214.1	244.5	267.7	275.6	264.3	239.0	213.0	203.0	211.4	247.7
50°	198.7	209.1	239.9	265.3	271.6	260.1	235.9	209.4	196.1	206.7	243.6
51°	193.1	203.3	235.7	261.6	268.1	256.8	232.1	204.3	192.0	202.3	239.0
52°	189.0	198.7	232.9	257.4	265.7	253.9	227.8	198.2	186.7	198.5	235.9
53°	181.8	194.8	228.1	254.7	261.6	251.0	224.8	194.9	179.6	192.7	231.8
54°	176.0	189.0	223.8	251.0	258.4	246.6	219.7	189.7	175.2	189.3	226.8
55°	171.8	185.2	220.9	246.5	255.6	243.8	215.5	183.7	169.5	184.3	223.8
56°	164.5	180.6	216.9	243.9	252.3	240.5	212.6	180.0	163.9	178.5	220.0
57°	158.5	175.7	211.7	240.0	248.1	236.2	206.5	175.2	156.7	171.2	215.9
58°	154.2	169.7	207.6	235.4	245.1	232.4	203.3	169.1	152.7	170.0	212.9
59°	148.5	166.1	204.7	232.4	240.2	229.8	200.3	165.5	147.0	164.2	207.9
60°	141.0	161.0	199.3	228.6	235.9	224.8	195.2	160.7	142.5	159.5	203.6
61°	136.7	157.5	196.0	225.3	232.9	221.1	191.2	154.6	135.5	155.9	200.6
62°	130.8	151.8	192.0	219.6	228.0	217.8	187.9	151.0	129.7	150.1	195.5
63°	123.5	146.9	186.7	215.1	222.0	212.1	182.7	146.5	125.3	145.2	191.4
64°	119.1	143.2	183.6	208.8	218.1	207.6	179.1	140.6	118.0	141.8	186.0
65°	113.1	137.4	179.1	205.1	212.6	203.9	175.8	137.3	112.2	136.8	183.0
66°	105.9	132.6	173.4	200.0	205.9	198.8	170.2	132.2	108.0	131.0	179.0
67°	101.4	129.1	170.0	194.3	201.7	192.4	165.7	127.6	100.5	127.6	173.4
68°	95.6	123.2	165.1	190.2	196.0	188.4	162.4	121.6	94.9	123.0	171.4
69°	88.3	118.8	159.1	183.3	188.7	182.8	156.1	118.0	90.4	116.9	165.7
70°	85.3	115.2	155.3	177.3	184.2	175.8	150.9	113.4	83.2	113.5	160.7
71°	78.0	109.5	150.1	173.0	178.4	171.5	147.3	109.8	77.5	109.1	157.1
72°	72.2	105.0	145.2	165.5	170.8	165.5	141.9	104.1	73.2	103.4	150.9
73°	67.8	101.7	142.5	159.4	167.6	157.7	135.5	99.6	66.0	100.1	145.8
74°	60.7	97.1	134.3	154.9	160.1	153.3	131.3	96.3	60.5	95.6	141.9
75°	55.0	91.7	128.6	147.3	154.2	147.4	125.6	91.1	56.3	90.2	135.5
76°	50.9	87.2	121.2	141.4	149.8	140.0	118.6	86.6	51.1	85.7	129.8
77°	44.1	83.6	116.8	137.0	142.4	135.6	114.3	83.2	44.2	82.4	125.6
78°	42.7	77.5	112.3	129.2	138.0	129.7	108.6	77.5	40.3	78.1	118.6
79°	35.1	72.6	106.8	123.4	131.8	124.0	101.4	72.6	35.4	74.5	112.8
80°	29.0	68.7	99.9	119.2	124.6	119.7	97.4	67.7	29.1	68.6	108.6
81°	24.4	62.1	93.8	113.4	118.9	112.6	91.6	63.9	25.7	63.9	101.6
82°	20.9	57.1	86.5	106.2	114.9	107.1	84.4	57.5	21.4	60.2	96.2
83°	16.7	53.2	82.3	102.0	107.9	103.2	81.6	53.6	16.1	53.9	91.9
84°	11.9	46.8	76.9	98.0	102.3	96.7	74.7	48.5	13.3	49.0	86.3
85°	9.4	43.2	73.0	92.3	98.5	91.0	68.1	42.6	9.9	45.1	79.2
86°	5.8	38.4	66.5	85.7	91.9	87.1	64.5	37.6	6.3	39.1	75.0
87°	3.6	32.7	61.4	80.5	86.6	80.4	59.3	33.9	4.9	34.6	69.6
88°	2.4	29.6	57.7	74.4	82.9	75.7	54.5	28.5	2.5	31.2	63.3
89°	1.1	25.7	53.3	71.4	77.5	72.2	51.8	24.8	1.3	26.1	59.7



TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	24.2	51.2	69.9	76.9	68.3	49.9	23.3	0.9	23.0	54.8
91°	0.5	23.2	50.1	68.7	74.7	67.2	48.5	22.4	0.7	22.1	49.7
92°	0.6	21.7	49.0	66.9	73.0	65.9	47.5	21.4	0.5	20.5	48.4
93°	0.6	20.6	46.9	65.4	71.1	65.0	46.0	20.6	0.6	19.7	46.9
94°	0.5	19.9	45.9	63.8	69.9	63.2	44.7	19.3	0.6	18.8	45.9
95°	0.3	13.6	44.7	62.7	68.4	62.1	43.9	12.7	0.5	15.4	45.1
96°	0.5	8.1	43.2	61.2	66.6	60.8	42.3	9.5	0.5	9.4	43.3
97°	0.5	7.2	42.4	59.5	65.4	59.1	40.9	7.9	0.5	8.4	41.8
98°	0.5	7.6	40.0	58.4	64.1	58.1	38.7	9.1	0.5	8.5	41.1
99°	0.3	10.9	27.9	56.6	62.1	56.8	26.9	10.9	0.5	10.6	37.9
100°	0.3	10.7	17.8	55.0	60.9	54.8	12.8	10.5	0.3	10.3	29.6
101°	0.3	10.1	8.8	49.7	59.5	53.0	10.3	9.9	0.3	9.7	21.5
102°	0.3	9.5	8.4	34.2	51.2	43.9	9.3	9.3	0.5	9.3	11.8
103°	0.3	8.8	7.6	19.3	41.8	27.8	8.7	8.7	0.5	8.8	10.7
104°	0.3	8.4	8.1	8.8	24.0	13.4	9.3	8.1	0.5	8.4	10.3
105°	0.3	7.6	14.6	7.3	10.3	9.1	17.0	7.8	0.3	7.6	12.1
106°	0.3	7.3	21.4	7.0	9.1	8.8	25.0	7.2	0.3	7.2	18.2
107°	0.1	6.7	26.0	6.7	8.7	8.2	24.5	6.6	0.3	6.4	23.4
108°	0.3	6.0	24.8	8.2	8.5	7.8	23.8	6.3	0.3	6.0	24.2
109°	0.1	5.5	24.0	13.9	8.4	10.7	22.7	5.7	0.3	5.4	23.2
110°	0.3	5.1	22.6	23.6	13.9	21.2	21.8	4.9	0.3	4.6	22.4
111°	0.3	4.0	21.1	35.0	23.2	28.7	20.0	4.5	0.3	3.0	21.1
112°	0.3	2.8	20.0	34.6	30.9	34.2	18.7	2.7	0.1	1.9	20.3
113°	0.3	1.3	18.5	33.3	38.7	33.4	17.8	1.2	0.3	1.2	19.6
114°	0.3	0.9	17.5	32.1	37.3	31.8	16.6	1.1	0.3	1.1	18.8
115°	0.1	0.9	16.7	31.1	36.4	30.5	15.7	0.9	0.5	0.9	17.6
116°	0.1	0.7	16.0	29.3	35.0	28.7	15.4	0.7	0.3	0.7	16.9
117°	0.1	0.5	15.0	27.6	33.0	27.5	14.6	0.6	0.3	0.5	16.1
118°	0.3	0.5	14.5	26.3	32.0	26.0	13.9	0.5	0.3	0.5	14.8
119°	0.1	0.5	13.6	24.5	30.0	24.8	13.2	0.5	0.3	0.5	14.4
120°	0.1	0.5	12.4	23.4	28.1	23.4	12.5	0.5	0.3	0.5	13.2
121°	0.3	0.5	11.7	22.0	26.7	21.8	11.5	0.5	0.3	0.5	12.2
122°	0.3	0.3	11.1	21.2	25.2	20.9	10.7	0.5	0.3	0.5	11.5
123°	0.1	0.3	9.9	20.2	23.8	20.2	10.0	0.1	0.3	0.5	10.5
124°	0.1	0.3	9.1	19.0	23.0	19.0	8.8	0.5	0.5	0.5	9.4
125°	0.1	0.3	8.5	18.2	22.0	18.1	8.1	0.3	0.3	0.3	9.0
126°	0.3	0.1	6.3	17.2	20.5	17.3	6.1	0.5	0.3	0.3	6.9
127°	0.3	0.5	3.7	16.1	19.9	16.3	3.0	0.3	0.3	0.3	4.5
128°	0.1	0.3	2.1	15.4	18.5	15.2	2.1	0.3	0.3	0.3	2.8
129°	0.3	0.3	1.2	14.0	17.9	14.6	1.3	0.3	0.3	0.5	1.5
130°	0.3	0.3	1.1	12.8	16.6	13.4	1.1	0.3	0.3	0.5	1.5
131°	0.3	0.5	1.1	12.1	15.4	12.2	1.1	0.5	0.5	0.3	1.2
132°	0.3	0.3	0.7	10.7	13.8	11.5	0.9	0.5	0.5	0.5	0.9
133°	0.3	0.3	0.6	9.7	13.4	10.5	0.7	0.6	0.5	0.5	0.7
134°	0.3	0.5	0.5	7.2	11.9	7.6	0.6	0.3	0.3	0.5	0.7





TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.3	0.5	5.5	10.5	5.5	0.5	0.5	0.5	0.5	0.6
136°	0.5	0.3	0.6	1.9	8.4	2.7	0.5	0.5	0.3	0.5	0.6
137°	0.3	0.3	0.5	1.3	4.2	1.6	0.5	0.5	0.5	0.5	0.6
138°	0.5	0.5	0.5	1.2	2.2	1.5	0.5	0.5	0.5	0.5	0.6
139°	0.5	0.5	0.5	1.2	1.6	1.2	0.6	0.5	0.5	0.6	0.5
140°	0.5	0.5	0.6	0.9	1.3	1.1	0.7	0.6	0.6	0.5	0.6
141°	0.5	0.6	0.6	0.7	1.2	0.9	0.6	0.6	0.6	0.7	0.7
142°	0.6	0.6	0.6	0.7	1.2	0.9	0.6	0.6	0.5	0.7	0.7
143°	0.6	0.6	0.6	0.6	0.9	0.7	0.6	0.6	0.6	0.6	0.7
144°	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7
145°	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.7
147°	0.7	0.7	0.7	0.7	0.9	0.7	0.9	0.7	0.7	0.7	0.7
148°	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.9	0.7	0.7
149°	0.9	0.9	1.1	1.1	1.1	0.9	0.7	0.7	0.9	0.9	0.9
150°	1.1	1.1	0.9	0.9	0.9	0.9	0.9	1.1	0.9	0.9	0.9
151°	1.1	1.1	0.9	1.1	1.1	0.9	1.1	1.1	1.1	0.9	0.9
152°	0.9	1.1	1.1	1.1	1.1	0.9	1.1	1.1	1.1	1.1	1.1
153°	1.2	1.2	1.1	1.1	1.2	1.1	1.1	0.9	1.1	1.1	1.1
154°	1.2	1.2	1.2	1.1	1.2	1.1	0.9	1.1	1.1	1.1	1.2
155°	1.2	1.3	1.3	1.1	1.2	1.1	1.1	1.2	1.2	1.2	1.1
156°	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.2	1.2	1.2	1.1
157°	1.3	1.3	1.3	1.3	1.3	1.1	1.2	1.3	1.2	1.2	1.2
158°	1.3	1.5	1.3	1.3	1.5	1.2	1.3	1.2	1.3	1.3	1.2
159°	1.5	1.5	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
160°	1.5	1.5	1.6	1.3	1.5	1.2	1.3	1.3	1.5	1.3	1.3
161°	1.5	1.6	1.5	1.6	1.5	1.3	1.5	1.3	1.5	1.5	1.3
162°	1.6	1.6	1.6	1.6	1.6	1.3	1.5	1.3	1.5	1.3	1.3
163°	1.6	1.6	1.8	1.6	1.6	1.5	1.5	1.6	1.5	1.5	1.5
164°	1.8	1.8	1.9	1.8	1.8	1.6	1.6	1.5	1.6	1.6	1.3
165°	1.9	1.8	1.9	1.9	1.6	1.5	1.6	1.6	1.6	1.6	1.6
166°	1.8	1.9	1.9	1.9	1.8	1.6	1.6	1.8	1.6	1.6	1.5
167°	1.9	1.9	2.1	1.9	1.9	1.6	1.9	1.8	1.6	1.8	1.8
168°	1.9	1.9	2.1	2.1	1.9	1.6	1.9	1.8	1.8	1.8	1.8
169°	2.1	2.2	2.2	2.2	2.1	1.8	1.8	1.9	1.9	1.8	1.8
170°	2.1	2.1	2.4	2.2	2.1	1.9	2.1	1.9	2.1	1.9	1.8
171°	2.2	2.2	2.4	2.2	2.2	2.1	1.9	1.9	1.9	2.1	1.9
172°	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	1.9	1.9	1.9
173°	2.4	2.4	2.4	2.4	2.1	2.2	2.1	2.2	2.1	2.1	2.1
174°	2.2	2.4	2.4	2.4	2.2	2.2	2.2	2.1	2.1	2.1	2.1
175°	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.1	2.2	2.2
176°	2.2	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.1
177°	2.4	2.4	2.4	2.4	2.4	2.2	2.1	2.1	2.2	2.2	2.1
178°	2.2	2.2	2.4	2.4	2.4	2.1	2.2	2.2	2.2	2.2	2.1
179°	2.4	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.2



TEST NUMBER: P571636  
CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	358.8	358.8	358.8	358.8	358.8	358.8
1°	364.3	362.7	356.3	360.3	360.5	363.3
2°	364.6	362.4	356.3	360.3	360.5	363.1
3°	364.3	362.9	356.4	360.0	360.3	363.0
4°	364.3	362.7	356.1	360.0	360.1	362.3
5°	364.2	362.4	355.8	359.4	359.4	361.7
6°	363.6	362.3	355.8	359.4	358.7	360.7
7°	363.0	361.9	355.2	358.7	358.1	359.6
8°	362.3	361.3	354.8	357.8	356.9	359.0
9°	361.9	360.9	354.0	357.2	355.5	357.8
10°	360.9	360.6	353.7	356.4	354.9	355.8
11°	359.9	359.9	352.8	355.1	353.4	354.3
12°	359.3	358.7	351.6	353.9	351.5	353.1
13°	358.2	357.6	351.2	353.1	350.1	350.7
14°	356.9	357.3	349.8	351.5	348.6	348.5
15°	356.0	356.1	348.5	349.5	346.4	347.0
16°	354.8	355.2	347.8	348.5	344.6	344.2
17°	353.6	353.9	346.6	346.6	342.7	341.3
18°	352.2	352.8	344.8	344.3	340.3	339.7
19°	350.4	351.5	344.3	342.5	338.6	337.0
20°	348.6	350.4	342.4	340.9	335.5	333.3
21°	346.7	348.4	340.7	338.2	332.7	331.0
22°	345.7	347.2	339.7	336.2	330.6	328.2
23°	343.3	346.0	337.3	334.5	327.0	324.0
24°	340.7	343.9	335.2	331.5	324.1	321.3
25°	339.2	342.4	334.2	328.6	321.6	318.2
26°	337.2	340.6	331.6	326.7	317.3	313.5
27°	334.3	338.2	329.2	323.9	314.3	310.6
28°	332.8	336.8	327.6	320.6	311.6	306.8
29°	330.7	334.5	325.2	318.5	307.1	302.1
30°	328.0	331.6	322.7	315.3	303.5	299.2
31°	326.5	330.4	319.8	311.6	300.6	294.6
32°	323.4	327.9	317.9	309.1	296.5	290.4
33°	320.7	325.0	315.8	306.1	293.8	287.1
34°	318.8	323.4	312.9	301.7	288.4	281.4
35°	315.3	321.2	311.3	299.2	284.1	277.2
36°	312.5	318.2	307.9	295.9	278.8	273.5
37°	310.4	316.2	305.0	291.6	275.5	267.4
38°	307.0	314.1	303.4	288.8	270.8	262.9
39°	304.1	311.3	301.5	285.2	265.0	259.0
40°	301.7	309.5	297.1	281.1	261.6	252.7
41°	298.2	305.9	295.0	278.4	256.9	247.5
42°	295.3	302.9	291.3	273.8	251.1	243.8
43°	292.9	299.4	288.8	269.8	247.4	237.2
44°	288.8	297.1	285.9	267.1	242.9	231.7



TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	285.8	292.6	282.0	262.2	237.1	226.3
46°	283.4	290.1	279.0	258.4	233.2	222.1
47°	279.8	287.7	276.5	255.4	228.4	215.3
48°	275.6	284.7	273.2	250.5	223.0	209.9
49°	273.2	280.7	268.9	246.8	216.9	205.9
50°	269.2	278.3	266.5	243.6	213.3	198.7
51°	265.3	275.0	262.9	238.4	208.2	193.1
52°	262.7	270.8	258.6	234.4	202.0	189.0
53°	258.7	269.0	256.2	231.2	197.9	181.8
54°	254.4	264.9	252.5	226.9	193.1	176.0
55°	251.6	261.1	248.0	221.8	186.9	171.8
56°	248.1	258.4	245.4	218.7	183.0	164.5
57°	243.3	253.8	241.8	214.5	178.1	158.5
58°	240.4	250.2	237.2	209.3	171.9	154.2
59°	236.9	247.1	235.4	206.1	168.1	148.5
60°	232.7	242.1	230.8	202.1	163.1	141.0
61°	230.0	238.0	226.6	196.9	159.5	136.7
62°	224.2	234.2	223.8	192.7	153.6	130.8
63°	219.6	228.4	218.4	189.7	148.2	123.5
64°	213.8	223.3	213.8	184.3	143.6	119.1
65°	209.9	219.4	210.2	180.2	139.8	113.1
66°	204.8	213.0	204.2	176.9	133.8	105.9
67°	198.2	206.9	199.0	172.4	129.2	101.4
68°	194.0	203.0	195.1	166.5	125.5	95.6
69°	188.7	195.8	188.1	163.0	119.5	88.3
70°	181.4	189.6	182.4	158.2	114.9	85.3
71°	176.7	184.9	178.1	151.8	111.1	78.0
72°	170.9	178.7	172.4	147.9	105.5	72.2
73°	164.8	171.0	164.6	142.8	100.5	67.8
74°	160.3	165.1	160.0	135.9	97.3	60.7
75°	152.7	160.6	154.0	131.8	91.6	55.0
76°	146.9	153.0	146.4	126.2	86.9	50.9
77°	142.4	148.3	141.9	118.9	83.6	44.1
78°	134.7	142.4	135.9	114.6	79.2	42.7
79°	128.6	135.2	128.6	108.7	73.4	35.1
80°	124.1	130.6	124.3	102.9	69.5	29.0
81°	116.8	124.7	118.5	98.6	64.7	24.4
82°	111.0	117.5	111.1	91.3	58.3	20.9
83°	106.8	114.7	106.9	85.6	54.1	16.7
84°	99.8	107.7	101.6	81.4	49.1	11.9
85°	94.4	102.3	96.3	74.2	45.3	9.4
86°	90.4	96.9	89.8	70.2	39.1	5.8
87°	85.1	91.7	86.0	65.1	34.4	3.6
88°	78.7	86.3	81.0	59.3	29.0	2.4
89°	75.0	82.4	77.1	55.9	26.1	1.1



TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	70.2	77.2	70.8	51.2	23.2	0.6
91°	67.5	75.4	68.1	48.9	22.3	0.5
92°	66.5	74.4	66.3	47.5	20.8	0.6
93°	64.2	72.3	65.3	46.6	19.9	0.6
94°	63.0	71.0	63.6	45.0	17.6	0.5
95°	62.1	69.9	61.8	43.6	12.8	0.3
96°	60.9	68.1	60.8	42.7	7.8	0.5
97°	59.6	66.5	59.5	41.5	7.0	0.5
98°	58.5	65.3	57.5	36.7	8.5	0.5
99°	56.8	63.3	56.6	29.4	10.3	0.3
100°	54.1	61.7	55.0	16.9	9.7	0.3
101°	48.5	59.5	48.5	9.4	9.5	0.3
102°	30.3	50.1	39.9	8.8	9.1	0.3
103°	19.9	32.9	22.4	8.2	8.5	0.3
104°	11.9	21.7	9.5	12.1	8.1	0.3
105°	9.9	10.3	8.4	17.6	7.5	0.3
106°	9.9	9.4	7.8	25.2	7.5	0.3
107°	9.4	9.1	7.3	24.8	6.6	0.1
108°	9.1	8.8	8.4	24.5	5.7	0.3
109°	11.9	11.8	17.0	22.7	5.2	0.1
110°	19.6	18.1	26.7	21.7	4.5	0.3
111°	28.8	28.1	33.3	21.1	2.5	0.3
112°	34.4	39.1	33.6	20.0	1.6	0.3
113°	33.3	39.1	32.3	19.0	1.2	0.3
114°	32.3	37.6	31.2	18.2	0.7	0.3
115°	30.9	35.8	30.2	17.0	0.7	0.1
116°	30.0	35.0	28.7	16.1	0.6	0.1
117°	28.5	33.3	27.8	15.4	0.6	0.1
118°	27.5	32.1	26.7	14.0	0.5	0.3
119°	26.4	31.2	25.4	13.3	0.5	0.1
120°	25.2	29.6	24.4	12.7	0.5	0.1
121°	24.0	28.1	23.3	11.5	0.5	0.3
122°	23.0	26.9	21.8	10.6	0.5	0.3
123°	21.8	25.4	20.9	9.9	0.3	0.1
124°	20.3	24.0	19.7	9.0	0.3	0.1
125°	19.6	23.2	18.8	6.9	0.5	0.1
126°	18.1	21.7	17.9	5.2	0.3	0.3
127°	16.9	20.2	16.4	2.7	0.3	0.3
128°	16.0	19.4	15.2	1.5	0.3	0.1
129°	15.0	17.5	14.4	1.2	0.3	0.3
130°	13.6	16.4	13.0	1.1	0.3	0.3
131°	12.7	15.5	11.8	0.9	0.1	0.3
132°	11.5	14.2	10.9	0.7	0.5	0.3
133°	9.4	12.7	8.1	0.7	0.5	0.3
134°	7.6	11.8	5.2	0.6	0.3	0.3



TEST NUMBER: P571636  
 CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	4.5	9.4	3.4	0.5	0.3	0.3
136°	2.2	5.5	1.6	0.5	0.5	0.5
137°	1.6	3.4	1.3	0.5	0.5	0.3
138°	1.5	2.1	1.5	0.5	0.6	0.5
139°	1.2	1.6	1.3	0.5	0.6	0.5
140°	1.1	1.3	0.9	0.6	0.5	0.5
141°	0.9	1.2	0.7	0.5	0.6	0.5
142°	0.7	1.1	0.7	0.6	0.6	0.6
143°	0.6	0.9	0.7	0.6	0.6	0.6
144°	0.7	0.7	0.7	0.7	0.7	0.6
145°	0.7	0.6	0.6	0.7	0.6	0.7
146°	0.7	0.9	0.7	0.7	0.9	0.7
147°	0.7	0.7	0.9	0.9	0.9	0.7
148°	0.7	0.9	1.1	0.9	0.7	0.9
149°	0.7	0.9	0.9	0.9	0.9	0.9
150°	0.9	1.1	0.9	1.1	1.1	1.1
151°	1.1	0.9	1.1	1.1	1.1	1.1
152°	1.1	1.1	1.1	1.2	1.1	0.9
153°	1.1	0.9	1.1	1.2	1.2	1.2
154°	1.1	1.2	1.2	1.1	1.1	1.2
155°	1.1	1.2	1.2	1.2	1.2	1.2
156°	1.1	1.3	1.2	1.3	1.3	1.2
157°	1.2	1.3	1.5	1.3	1.3	1.3
158°	1.3	1.2	1.2	1.3	1.5	1.3
159°	1.3	1.3	1.2	1.3	1.5	1.5
160°	1.2	1.3	1.5	1.5	1.5	1.5
161°	1.5	1.5	1.5	1.5	1.5	1.5
162°	1.3	1.3	1.5	1.6	1.6	1.6
163°	1.5	1.6	1.6	1.6	1.6	1.6
164°	1.5	1.5	1.6	1.6	1.8	1.8
165°	1.3	1.6	1.8	1.8	1.8	1.9
166°	1.6	1.6	1.8	1.8	1.9	1.8
167°	1.6	1.8	1.8	1.9	1.9	1.9
168°	1.8	1.8	1.9	1.9	2.1	1.9
169°	1.9	1.9	2.1	2.1	2.1	2.1
170°	1.9	1.9	1.9	1.9	2.1	2.1
171°	1.9	2.1	2.1	1.9	2.1	2.2
172°	1.9	2.2	2.1	2.1	2.1	2.2
173°	2.1	2.2	2.1	2.2	2.1	2.4
174°	2.1	2.2	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	2.2	2.4
176°	2.2	2.2	2.1	2.2	2.4	2.2
177°	2.1	2.2	2.4	2.2	2.2	2.4
178°	2.2	2.4	2.4	2.4	2.2	2.2
179°	2.4	2.4	2.2	2.2	2.4	2.4



TEST NUMBER: P571636  
CATALOG NUMBER: 2ST1L1040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.3	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)