

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: 17288

Luminaire Tested: **S7A/648/1T5/ETG4/UEB-SI-S22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17288
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S7A/648/1T5/ETG4/UEB-SI-S22
Description: FORMED WHITE ENAMEL STEEL AND ALUMINUM HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, TRANSLUCENT WHITE PLASTIC ENCLOSURE.
Light Source: ONE 28 WATT T5 LINEAR FLUORESCENT LAMP RATED AT 2610 LUMENS.
PHILIPS F28T5/835
Ballast/Driver: ONE UNIVERSAL LIGHTING TECHNOLOGIES "ACCU START" B228PUNV-C

Summary

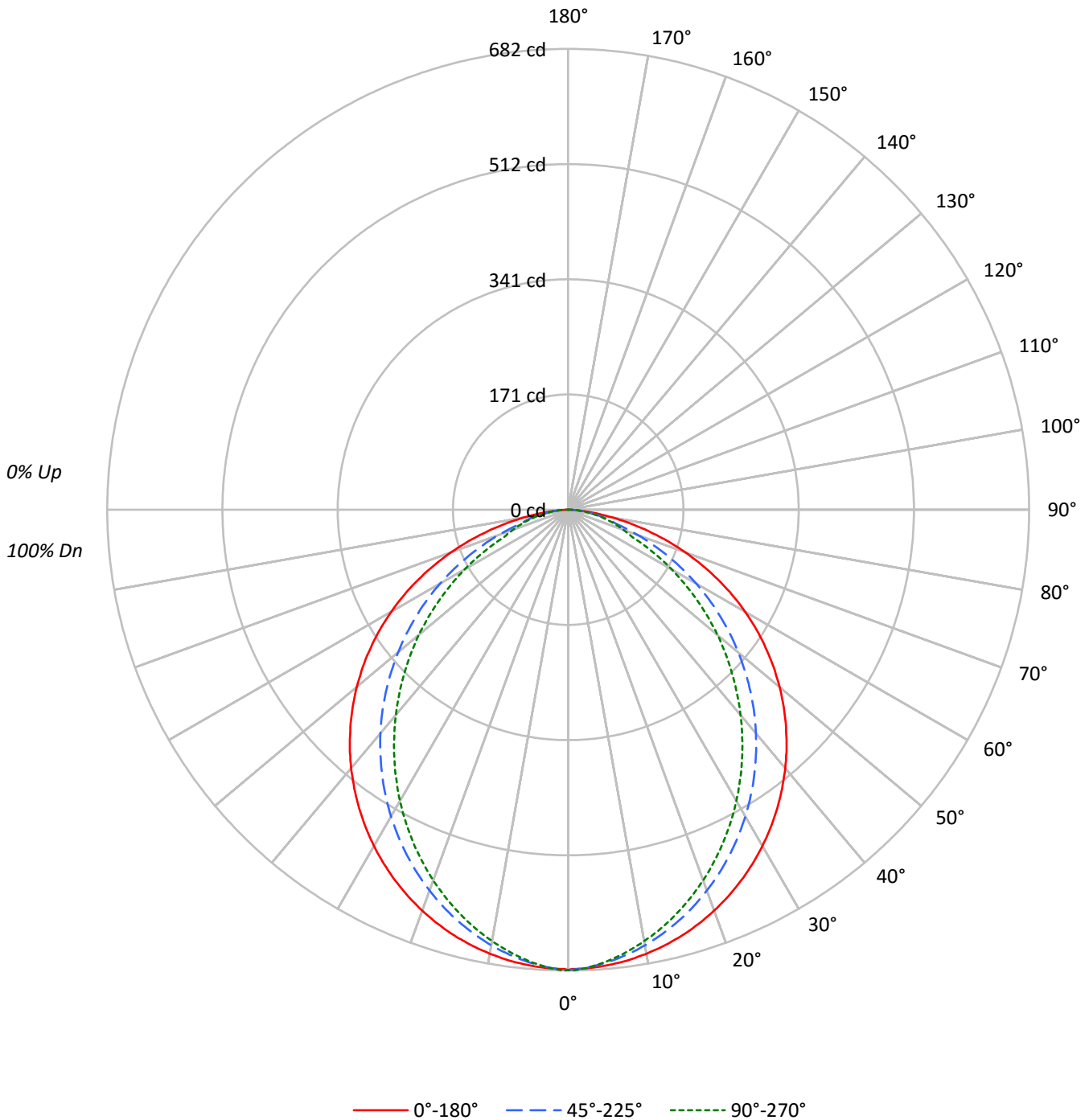
Lumens per Lamp: 2610 (1 lamp)
Luminaire Lumens: 1638.2 lumens
Efficiency: 62.8%
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.1 / 1.26
Luminous Opening: Rectangular (W 0.44' x L: 3.94' x H: 0')
CIE Type: Direct

Input Watts (W): 32.4
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



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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	0
RCR																				
0	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	69	66	63	61	67	65	62	60	62	60	58		59	58	56		57	56	55	54
2	63	58	54	50	61	57	53	50	55	51	49		53	50	48		51	48	47	45
3	58	51	46	42	56	50	46	42	48	45	41		47	43	41		45	42	40	39
4	53	46	40	36	51	45	40	36	43	39	36		42	38	35		40	37	35	33
5	49	41	35	31	47	40	35	31	39	34	31		38	34	31		37	33	30	29
6	45	37	32	28	44	36	31	28	35	31	27		34	30	27		33	30	27	26
7	42	34	28	25	41	33	28	24	32	28	24		31	27	24		30	27	24	23
8	39	31	26	22	38	30	25	22	30	25	22		29	25	22		28	24	22	20
9	37	28	23	20	36	28	23	20	27	23	20		27	22	20		26	22	19	18
10	34	26	21	18	33	26	21	18	25	21	18		25	21	18		24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4251	4251	4251
5°	4238	4212	4201
10°	4229	4147	4108
15°	4214	4071	3999
20°	4192	3983	3877
25°	4169	3886	3738
30°	4141	3777	3585
35°	4108	3656	3418
40°	4070	3519	3232
45°	4022	3366	3027
50°	3965	3188	2799
55°	3883	2981	2529
60°	3774	2732	2208
65°	3609	2408	1819
70°	3357	1994	1586
75°	2978	1623	1500
80°	2393	1499	1402
85°	1633	1310	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	63.7	3.9	2.4
10°-20°	178.3	10.9	6.8
20°-30°	261.8	16.0	10.0
30°-40°	303.7	18.5	11.6
40°-50°	299.9	18.3	11.5
50°-60°	252.6	15.4	9.7
60°-70°	170.7	10.4	6.5
70°-80°	85.9	5.2	3.3
80°-90°	21.7	1.3	0.8
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	503.8	30.8	19.3
0°-40°	807.5	49.3	30.9
0°-60°	1360.0	83.0	52.1
0°-90°	1638.2	100.0	62.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1638.2	100.0	62.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	677	676	672	671	671	64
15°	652	644	630	622	619	184
25°	606	588	564	549	543	279
35°	539	513	480	457	449	337
45°	456	422	381	353	343	351
55°	357	319	274	243	232	319
65°	244	208	163	133	123	241
75°	124	98	67	63	62	131
85°	23	20	18	18	17	27
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.2	681.2	681.2	681.2	681.2
0.5°	679.7	681.5	680.7	681.4	682.2
1°	679.7	681.5	680.3	681.0	681.5
1.5°	679.5	681.1	679.6	680.0	680.3
2°	679.3	680.7	678.9	678.8	679.3
2.5°	679.2	680.1	677.9	677.6	678.1
3°	678.8	679.5	676.8	676.6	677.0
3.5°	678.4	678.8	675.8	675.4	675.4
4°	677.9	677.9	674.8	673.9	673.9
4.5°	677.4	677.0	673.5	672.3	672.1
5°	676.6	676.0	672.3	670.6	670.6
5.5°	676.1	674.9	670.8	668.9	668.5
6°	675.1	674.0	669.3	667.0	666.7
6.5°	674.4	672.8	667.8	665.2	664.6
7°	673.7	671.6	665.8	663.2	662.7
7.5°	672.8	670.4	664.3	661.2	660.3
8°	671.8	669.1	662.3	659.2	658.0
8.5°	670.7	667.6	660.6	656.9	655.6
9°	669.4	666.1	658.7	654.6	653.2
9.5°	668.5	664.6	656.5	652.2	650.9
10°	667.3	663.0	654.5	649.8	648.2
10.5°	665.9	661.3	652.4	647.3	645.7
11°	664.6	659.6	650.2	644.7	643.1
11.5°	663.5	657.7	647.8	642.1	640.2
12°	661.9	655.8	645.5	639.5	637.5
12.5°	660.5	654.0	643.0	636.7	634.6
13°	658.8	652.0	640.6	633.8	631.6
13.5°	657.2	650.0	638.1	630.9	628.5
14°	655.5	647.8	635.4	628.0	625.7
14.5°	653.9	645.6	632.8	625.0	622.3
15°	652.2	643.5	630.1	621.7	619.0
15.5°	650.4	641.3	627.5	618.6	615.8
16°	648.6	639.0	624.6	615.5	612.3
16.5°	646.4	636.5	621.6	612.2	609.0
17°	644.4	634.1	618.7	608.9	605.6
17.5°	642.3	631.6	615.7	605.6	602.0
18°	640.5	628.9	612.7	602.0	598.6
18.5°	638.2	626.5	609.6	598.6	594.8
19°	635.9	623.8	606.3	594.9	591.3
19.5°	633.8	621.0	603.2	591.5	587.5
20°	631.3	618.3	599.8	587.7	583.8
20.5°	629.2	615.5	596.5	583.9	579.8
21°	626.6	612.7	593.1	580.4	576.0
21.5°	624.1	609.7	589.7	576.6	572.0
22°	621.6	606.7	586.2	572.7	568.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
22.5°	619.1	603.7	582.8	568.8	563.7
23°	616.4	600.6	579.0	564.9	559.9
23.5°	613.9	597.5	575.5	560.7	555.7
24°	611.0	594.2	571.9	556.8	551.6
24.5°	608.1	591.1	568.0	552.7	547.3
25°	605.5	587.8	564.4	548.6	542.8
25.5°	602.8	584.5	560.6	544.3	538.6
26°	599.7	581.2	556.6	539.9	534.1
26.5°	596.7	577.7	552.6	535.8	529.8
27°	593.8	574.2	548.8	531.5	525.4
27.5°	590.9	570.8	544.8	527.0	520.9
28°	587.5	567.2	540.8	522.5	516.3
28.5°	584.3	563.6	536.6	518.3	511.7
29°	581.2	559.9	532.4	513.7	507.2
29.5°	578.1	556.2	528.2	509.2	502.3
30°	574.7	552.6	524.1	504.5	497.5
30.5°	571.2	548.9	519.9	500.0	492.9
31°	567.9	545.0	515.4	495.2	488.1
31.5°	564.4	541.2	511.2	490.5	483.2
32°	561.1	537.2	506.8	485.9	478.3
32.5°	557.5	533.0	502.4	481.1	473.3
33°	553.8	529.2	497.9	476.1	468.5
33.5°	550.2	525.3	493.6	471.5	463.7
34°	546.5	521.2	489.0	466.4	458.7
34.5°	542.8	517.1	484.5	461.7	453.4
35°	539.2	512.8	479.9	456.6	448.6
35.5°	535.3	508.8	475.3	451.7	443.6
36°	531.6	504.5	470.7	446.9	438.2
36.5°	527.8	500.3	465.9	441.8	433.4
37°	523.8	496.0	461.2	436.7	428.2
37.5°	520.0	491.7	456.4	431.7	422.7
38°	515.7	487.2	451.6	426.6	417.9
38.5°	511.8	482.8	446.8	421.4	412.4
39°	507.6	478.4	441.8	416.5	407.3
39.5°	503.7	473.9	437.0	411.1	402.0
40°	499.6	469.5	432.0	405.7	396.7
40.5°	495.2	464.9	427.1	400.8	391.4
41°	491.1	460.3	422.3	395.6	386.1
41.5°	486.6	455.7	417.2	390.2	380.8
42°	482.6	451.2	412.2	384.9	375.4
42.5°	478.1	446.4	407.2	379.6	370.2
43°	473.7	441.6	402.1	374.2	364.6
43.5°	469.2	436.7	396.9	369.1	359.1
44°	464.7	432.0	391.8	363.6	353.9
44.5°	460.1	427.4	386.6	358.4	348.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	455.7	422.4	381.4	353.1	343.0
45.5°	451.2	417.5	376.3	347.6	337.8
46°	446.6	412.7	371.1	342.3	332.1
46.5°	441.9	407.8	365.8	336.7	326.9
47°	437.2	402.7	360.4	331.4	321.4
47.5°	432.4	397.7	355.3	325.9	315.9
48°	427.6	392.6	349.8	320.5	310.4
48.5°	422.9	387.8	344.6	315.2	304.9
49°	417.9	382.7	339.1	309.5	299.5
49.5°	413.2	377.5	333.9	304.2	294.0
50°	408.4	372.3	328.4	298.8	288.3
50.5°	403.4	367.2	323.0	293.3	282.8
51°	398.2	361.9	317.8	287.8	277.0
51.5°	393.1	356.8	312.4	282.2	271.4
52°	388.1	351.6	306.9	276.7	265.8
52.5°	383.1	346.3	301.5	271.3	260.3
53°	378.0	341.1	296.0	265.5	254.8
53.5°	372.8	335.8	290.6	259.9	249.1
54°	367.6	330.3	285.1	254.3	243.5
54.5°	362.4	325.0	279.6	248.8	238.0
55°	356.9	319.4	274.0	243.0	232.4
55.5°	351.7	314.2	268.7	237.7	226.6
56°	346.4	308.8	263.2	232.0	221.1
56.5°	340.9	303.3	257.6	226.4	215.4
57°	335.7	297.8	252.2	220.7	210.2
57.5°	330.1	292.3	246.7	215.2	204.6
58°	324.7	286.6	241.0	209.7	198.9
58.5°	319.1	281.2	235.8	204.0	193.6
59°	313.4	275.8	230.1	198.5	187.9
59.5°	307.9	270.2	224.4	193.1	182.4
60°	302.4	264.4	218.9	187.7	176.9
60.5°	296.8	258.9	213.2	182.1	171.7
61°	291.0	253.4	207.5	176.6	166.1
61.5°	285.3	247.7	201.9	171.0	160.6
62°	279.6	242.0	196.3	165.7	155.2
62.5°	273.6	236.5	190.9	160.2	149.7
63°	268.0	230.8	185.2	154.7	144.2
63.5°	262.1	225.2	179.6	149.4	138.9
64°	256.3	219.4	174.0	143.9	133.8
64.5°	250.5	213.8	168.6	138.6	128.3
65°	244.4	208.3	163.1	133.1	123.2
65.5°	238.4	202.6	157.4	128.0	117.7
66°	232.6	196.7	152.0	122.7	111.9
66.5°	226.6	191.4	146.8	117.5	106.1
67°	220.4	185.7	141.3	112.1	102.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	214.6	180.1	135.9	106.7	99.6
68°	208.4	174.5	130.6	101.0	97.0
68.5°	202.4	168.8	125.2	96.3	94.3
69°	196.2	163.3	120.0	93.9	91.7
69.5°	190.3	158.0	114.7	91.0	89.4
70°	184.0	152.3	109.3	88.6	86.9
70.5°	177.8	146.9	104.2	85.9	84.4
71°	172.2	141.6	99.2	83.5	81.9
71.5°	165.8	136.1	94.4	80.9	79.3
72°	159.8	130.7	89.2	78.2	76.9
72.5°	153.8	125.2	84.1	75.9	74.4
73°	147.6	119.6	78.6	73.3	71.9
73.5°	141.6	114.2	75.3	70.9	69.4
74°	135.6	108.8	72.6	68.4	67.0
74.5°	129.2	103.4	69.9	65.8	64.4
75°	123.5	98.0	67.3	63.4	62.2
75.5°	117.7	92.8	64.6	60.9	59.7
76°	111.6	87.7	61.9	58.4	57.4
76.5°	105.6	82.7	59.2	56.1	54.8
77°	100.0	77.6	56.6	53.6	52.6
77.5°	93.9	72.8	54.1	51.0	50.2
78°	88.4	67.7	51.5	48.8	47.8
78.5°	82.7	63.2	49.0	46.5	45.6
79°	77.0	58.8	46.4	44.2	43.3
79.5°	71.9	54.2	44.0	41.9	41.0
80°	66.6	49.8	41.7	39.7	39.0
80.5°	61.3	45.4	39.1	37.1	36.7
81°	56.3	41.4	36.7	35.0	34.5
81.5°	51.3	38.6	34.1	32.8	32.3
82°	46.6	35.7	31.9	30.7	30.0
82.5°	42.2	33.0	29.5	28.5	28.1
83°	37.7	30.2	27.2	26.2	25.8
83.5°	33.7	27.7	25.0	24.2	23.8
84°	29.5	25.0	22.6	21.9	21.7
84.5°	26.2	22.4	20.6	19.8	19.6
85°	22.8	19.8	18.3	17.7	17.4
85.5°	18.7	17.4	16.0	15.7	15.4
86°	15.1	15.0	14.2	13.5	13.3
86.5°	11.5	12.7	11.9	11.6	11.5
87°	8.5	10.5	9.8	9.6	9.5
87.5°	6.0	8.2	7.8	7.5	7.5
88°	4.5	6.2	5.8	5.8	5.6
88.5°	3.1	4.3	3.8	3.8	3.6
89°	1.4	2.2	2.0	1.9	1.6
89.5°	0.1	0.4	0.1	0.1	0.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 17288

CATALOG NUMBER: S7A/648/1T5/ETG4/UEB-SI-S22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
130.5°	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0
131.5°	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0
133.5°	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0
134.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 17288

CATALOG NUMBER: S7A/648/1T5/ETG4/UEB-SI-S22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	0.0	0.0	0.0	0.0	0.0
135.5°	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0
136.5°	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0
138.5°	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0
139.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
140.5°	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0
141.5°	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0
143.5°	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0
144.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
145.5°	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0
146.5°	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0
148.5°	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0
149.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
150.5°	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0
151.5°	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0
153.5°	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0
154.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
155.5°	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0
156.5°	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 17288

CATALOG NUMBER: S7A/648/1T5/ETG4/UEB-SI-S22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
157.5°	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0
158.5°	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0
159.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
160.5°	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0
161.5°	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0
163.5°	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0
164.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
165.5°	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0
166.5°	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0
168.5°	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0
169.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
170.5°	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0
171.5°	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0
173.5°	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0
174.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
175.5°	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0
176.5°	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0
178.5°	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0
179.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 17288

CATALOG NUMBER: S7A/648/1T5/ETG4/UEB-SI-S22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)