

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: METALUX

Report Number: 16870

Luminaire Tested: **2HP3GX-317S33I-UNV-HB81**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16870
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2HP3GX-317S33I-UNV-HB81
Description: FORMED WHITE HIGH-REFLECTANCE PRE-PAINT STEEL HOUSING &
COMPONENTS, NO REFLECTOR, 9 CELL, 3" NOM., SILVER SEMI-SPECULAR
LOUVER, TALL SKTS
Light Source: TWO 17 WATT T8 LINEAR FLUORESCENT LAMPS - 1450 LUMENS EA

Ballast/Driver: -

Summary

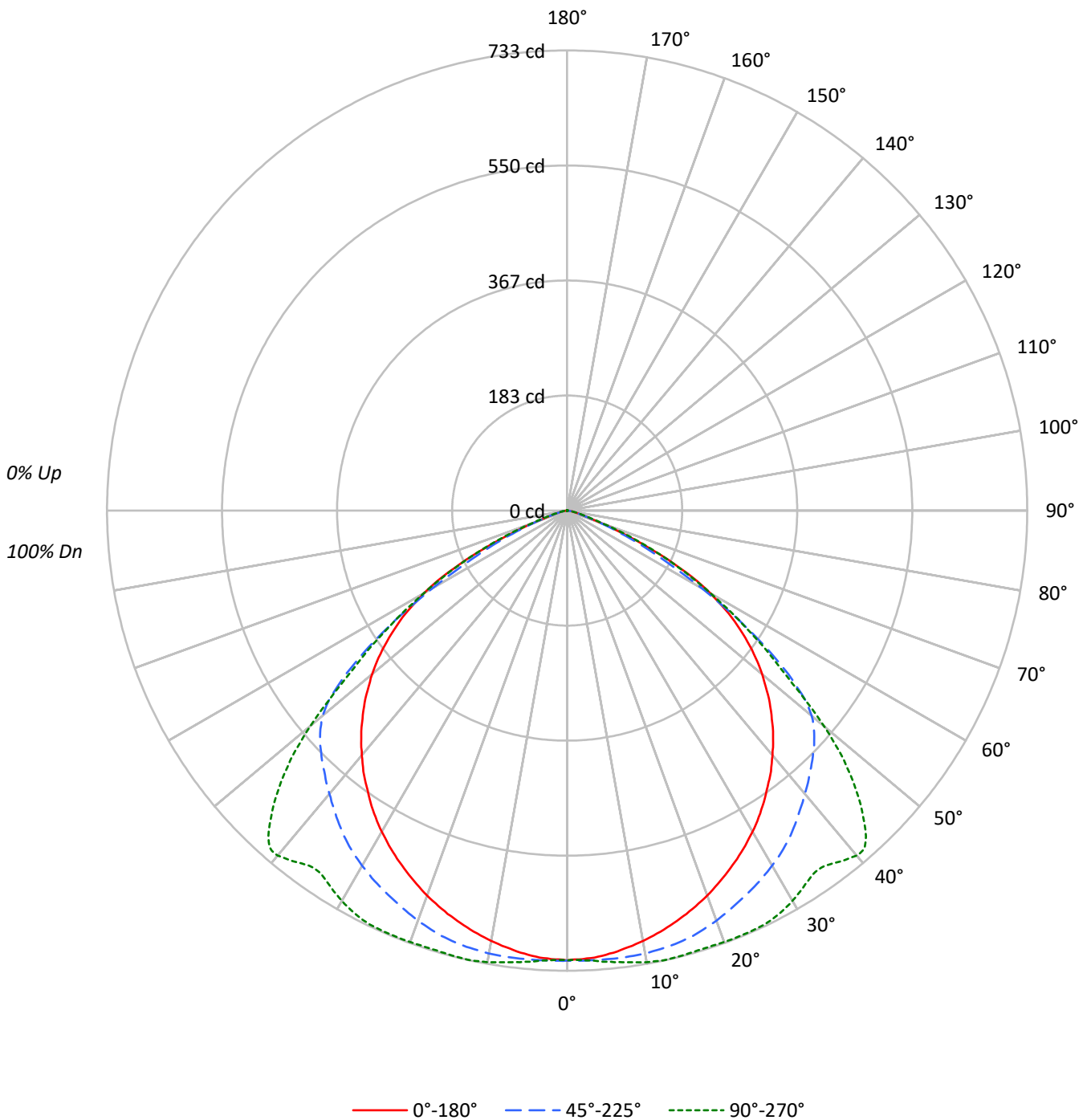
Lumens per Lamp: 1450 (2 lamps)
Luminaire Lumens: 1915.9 lumens
Efficiency: 66.1%
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.51 / 1.49
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67	66				
1	73	71	68	66	71	69	67	65	66	65	63	64	62	61	61	60	59	58				
2	67	63	59	55	66	61	58	55	59	56	53	57	54	52	55	53	51	50				
3	62	56	51	47	60	55	50	46	53	49	46	51	48	45	49	47	44	43				
4	57	50	44	40	55	49	44	40	47	43	39	46	42	39	44	41	38	37				
5	52	44	39	35	51	44	38	35	42	38	34	41	37	34	40	36	34	32				
6	48	40	34	30	47	39	34	30	38	34	30	37	33	30	36	32	30	28				
7	45	36	31	27	44	36	31	27	35	30	27	34	30	26	33	29	26	25				
8	42	33	28	24	41	33	27	24	32	27	24	31	27	24	30	26	23	22				
9	39	30	25	22	38	30	25	21	29	25	21	28	24	21	28	24	21	20				
10	36	28	23	19	36	28	23	19	27	22	19	26	22	19	26	22	19	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2550	2550	2550
5°	2536	2562	2576
10°	2514	2588	2639
15°	2492	2614	2695
20°	2470	2632	2769
25°	2447	2650	2868
30°	2426	2683	2949
35°	2396	2713	3031
40°	2364	2736	3332
45°	2316	2784	3323
50°	2247	2813	2959
55°	2119	2461	2400
60°	1879	1769	1885
65°	1311	1096	1322
70°	567	551	647
75°	268	265	293
80°	164	172	174
85°	90	106	90



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	68.4	3.6	2.4	0°	717	717	717	717	717	
10°-20°	199.8	10.4	6.9	5°	710	713	718	720	721	67
20°-30°	312.5	16.3	10.8	15°	677	689	710	726	732	191
30°-40°	392.6	20.5	13.5	25°	623	646	675	711	731	287
40°-50°	429.0	22.4	14.8	35°	552	582	625	666	698	345
50°-60°	335.8	17.5	11.6	45°	460	500	553	632	660	355
60°-70°	149.1	7.8	5.1	55°	342	379	397	368	387	303
70°-80°	25.1	1.3	0.9	65°	156	161	130	145	157	155
80°-90°	3.2	0.2	0.1	75°	20	19	19	21	21	24
90°-100°	0.0	0.0	0.0	85°	2	2	3	2	2	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.1	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.1	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.1	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.1	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.1	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	580.7	30.3	20.0	165°	0	0	0	0	0	0
0°-40°	973.3	50.8	33.6	175°	0	0	0	0	0	0
0°-60°	1738.1	90.7	59.9	180°	0	0	0	0	0	0
0°-90°	1915.5	100.0	66.1							
90°-120°	0.1	0.0	0.0							
90°-150°	0.3	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1915.9	100.0	66.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.7	716.7	716.7	716.7	716.7
0.5°	715.4	716.9	717.4	716.5	716.0
1°	715.2	716.7	717.3	716.7	716.0
1.5°	715.1	716.6	717.2	716.7	716.1
2°	714.9	716.2	717.4	717.2	716.7
2.5°	714.2	716.1	717.4	717.6	717.2
3°	713.8	715.8	717.4	718.2	717.8
3.5°	713.3	715.3	717.7	718.8	718.5
4°	712.3	714.8	717.6	719.4	719.6
4.5°	711.5	714.3	717.7	719.9	720.8
5°	710.2	713.4	717.5	720.5	721.4
5.5°	708.9	712.5	717.6	721.1	722.2
6°	708.1	711.9	717.8	722.0	723.3
6.5°	706.7	710.9	717.6	722.4	723.8
7°	705.2	709.8	717.6	723.1	724.9
7.5°	703.6	708.7	717.5	723.9	725.8
8°	702.3	707.8	717.2	724.3	726.6
8.5°	700.8	706.4	717.1	724.9	727.5
9°	699.1	705.4	716.9	725.6	728.6
9.5°	697.7	704.3	716.7	726.2	729.3
10°	696.0	703.4	716.5	726.9	730.5
10.5°	694.1	701.9	715.8	727.1	730.9
11°	692.4	700.7	715.2	727.3	731.5
11.5°	690.8	699.5	714.8	727.6	732.2
12°	688.6	698.3	714.3	727.8	732.6
12.5°	687.1	697.0	713.6	727.7	732.6
13°	685.0	695.3	713.2	727.5	732.6
13.5°	682.9	693.6	712.3	727.3	732.4
14°	680.6	691.9	711.6	726.9	732.4
14.5°	678.5	690.6	710.7	726.4	732.0
15°	676.6	688.9	709.7	725.8	731.8
15.5°	674.0	687.1	708.5	725.1	731.5
16°	672.0	685.6	707.3	724.4	731.3
16.5°	670.0	683.9	706.3	723.6	730.9
17°	667.4	682.2	704.7	722.8	730.9
17.5°	665.1	680.3	703.4	721.9	730.9
18°	662.8	678.4	701.8	721.1	731.0
18.5°	659.8	676.3	700.1	720.3	730.8
19°	657.6	674.2	698.4	719.8	730.9
19.5°	655.2	672.4	697.0	719.0	731.0
20°	652.4	670.5	695.3	718.4	731.3
20.5°	649.9	668.3	693.2	717.8	731.5
21°	646.9	666.1	691.1	717.2	731.7
21.5°	644.2	663.7	689.3	716.5	731.7
22°	641.2	661.4	687.1	715.5	731.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
22.5°	638.4	659.1	685.2	715.0	731.4
23°	635.3	656.6	683.0	714.3	731.5
23.5°	632.3	654.0	681.1	713.5	731.4
24°	629.3	651.5	679.1	712.9	731.0
24.5°	626.6	649.0	677.1	712.0	730.9
25°	623.4	646.5	675.1	710.9	730.6
25.5°	620.5	643.8	673.1	710.1	730.4
26°	617.3	641.3	671.0	709.0	729.5
26.5°	613.7	638.5	668.9	707.7	728.8
27°	611.0	635.7	666.9	706.5	727.5
27.5°	607.6	632.7	664.9	705.0	726.4
28°	604.4	629.7	662.8	703.4	725.1
28.5°	600.6	626.5	660.1	701.1	723.3
29°	597.3	623.5	657.7	699.1	721.7
29.5°	593.8	620.6	655.6	697.2	719.9
30°	590.7	617.5	653.2	694.8	717.8
30.5°	587.1	614.3	650.7	692.5	715.9
31°	583.3	611.2	648.1	689.9	713.4
31.5°	579.7	607.5	645.7	687.1	711.2
32°	575.9	604.4	642.9	684.2	708.8
32.5°	572.2	600.7	640.0	681.1	706.1
33°	568.1	597.3	637.2	678.4	704.0
33.5°	564.3	593.7	634.2	675.4	701.5
34°	560.3	589.9	630.9	672.1	699.5
34.5°	556.0	586.5	628.1	669.0	698.3
35°	551.6	582.5	624.7	666.5	697.9
35.5°	547.5	578.5	621.0	663.6	698.1
36°	543.5	574.7	617.7	661.5	699.1
36.5°	539.4	571.2	614.3	660.1	701.4
37°	535.6	567.0	610.7	659.0	703.6
37.5°	531.2	562.8	606.8	657.8	706.1
38°	527.4	559.2	603.1	657.8	708.8
38.5°	522.4	555.2	599.8	657.6	711.1
39°	517.8	551.0	596.5	657.6	713.2
39.5°	513.1	546.5	592.5	657.6	715.0
40°	509.0	542.7	589.2	658.1	717.4
40.5°	504.0	538.4	585.6	657.9	717.8
41°	500.0	534.8	582.5	658.2	717.6
41.5°	495.2	530.5	578.8	658.2	715.4
42°	490.3	526.2	575.1	657.8	710.3
42.5°	485.4	521.6	571.1	656.7	704.6
43°	480.7	516.8	567.5	654.5	697.2
43.5°	475.8	513.3	564.3	651.6	688.0
44°	470.5	509.2	560.8	647.0	679.1
44.5°	465.1	504.3	557.1	640.1	669.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	460.3	499.5	553.4	632.0	660.5
45.5°	455.4	494.9	549.6	623.7	650.5
46°	449.6	490.1	545.9	614.3	639.1
46.5°	444.9	485.4	542.3	604.4	628.9
47°	439.4	480.6	537.9	594.5	617.0
47.5°	433.7	475.5	533.9	583.4	604.4
48°	427.6	470.4	529.6	571.9	592.6
48.5°	422.3	464.8	524.8	560.4	578.9
49°	416.4	459.2	519.4	547.2	563.7
49.5°	411.2	454.1	514.6	535.7	549.7
50°	406.0	448.7	508.3	523.3	534.7
50.5°	399.8	443.2	501.0	508.8	518.6
51°	393.6	436.6	493.1	493.8	502.0
51.5°	387.7	429.7	484.6	478.6	484.5
52°	381.2	423.3	473.9	463.5	469.7
52.5°	374.9	416.6	461.7	447.6	452.4
53°	368.7	410.2	450.8	431.9	439.0
53.5°	361.7	402.3	438.6	415.8	423.3
54°	354.8	394.4	424.1	399.4	410.8
54.5°	348.6	386.1	410.3	383.6	399.0
55°	341.7	378.8	396.8	368.5	387.0
55.5°	334.0	370.7	382.9	354.7	374.2
56°	327.1	361.9	368.7	342.6	360.7
56.5°	320.2	352.8	353.6	329.8	348.4
57°	312.8	343.6	338.0	317.2	335.6
57.5°	305.0	333.8	323.2	305.1	324.3
58°	297.0	324.0	308.3	293.5	311.9
58.5°	288.3	314.6	291.7	281.3	300.2
59°	280.2	304.3	277.2	269.8	287.3
59.5°	271.5	293.4	263.4	258.6	275.8
60°	264.1	283.1	248.6	247.8	264.9
60.5°	255.3	272.5	235.0	236.7	253.7
61°	245.3	260.8	220.4	225.6	242.4
61.5°	235.2	248.6	206.7	214.6	230.9
62°	225.0	236.7	195.0	204.1	220.1
62.5°	213.9	224.5	182.5	193.8	209.6
63°	202.5	211.7	170.8	183.2	198.4
63.5°	191.4	199.3	160.2	173.9	188.3
64°	179.7	186.5	149.8	164.1	178.2
64.5°	167.7	173.9	139.7	154.9	167.6
65°	155.8	160.9	130.2	145.4	157.0
65.5°	143.8	148.2	120.9	135.8	146.5
66°	132.8	135.4	111.6	127.0	136.8
66.5°	122.1	123.3	103.1	118.2	126.6
67°	111.1	111.7	95.0	109.4	116.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	99.6	100.4	87.0	101.1	107.4
68°	88.6	89.4	79.7	93.1	99.2
68.5°	79.2	79.1	72.9	85.4	90.2
69°	71.3	69.3	66.1	78.0	81.7
69.5°	64.6	59.8	59.3	70.7	71.7
70°	54.5	51.8	53.0	63.5	62.2
70.5°	49.2	45.4	47.9	57.9	55.4
71°	43.5	40.5	43.5	51.1	50.3
71.5°	38.4	35.7	38.6	44.0	45.1
72°	34.8	32.5	34.6	39.1	39.9
72.5°	31.0	29.1	30.9	34.8	35.9
73°	28.0	26.7	28.0	31.1	32.3
73.5°	25.5	24.5	25.5	27.6	28.7
74°	23.1	22.4	23.1	25.3	25.8
74.5°	21.1	20.7	20.9	23.2	23.4
75°	19.5	18.9	19.3	20.9	21.3
75.5°	18.0	17.4	17.8	18.9	19.6
76°	16.5	16.2	16.6	17.6	18.1
76.5°	15.1	14.7	15.1	16.1	16.5
77°	14.0	13.8	14.0	14.7	15.2
77.5°	12.7	12.7	12.9	13.4	13.7
78°	11.4	11.6	11.8	12.2	12.4
78.5°	10.7	10.6	10.9	11.2	11.4
79°	9.8	9.9	10.0	10.3	10.6
79.5°	8.9	8.9	9.2	9.5	9.4
80°	8.0	8.1	8.4	8.5	8.5
80.5°	7.1	7.4	7.6	7.8	7.9
81°	6.7	6.7	7.0	7.0	7.0
81.5°	5.9	6.1	6.3	6.3	6.2
82°	5.4	5.3	5.7	5.7	5.6
82.5°	4.7	4.9	5.0	5.0	4.8
83°	4.1	4.3	4.5	4.4	4.3
83.5°	3.6	3.7	3.9	3.9	3.7
84°	3.1	3.3	3.4	3.2	3.1
84.5°	2.6	2.7	3.0	2.8	2.6
85°	2.2	2.3	2.6	2.4	2.2
85.5°	1.8	1.9	2.0	1.9	1.7
86°	1.4	1.5	1.6	1.5	1.4
86.5°	1.2	1.3	1.4	1.2	1.2
87°	0.8	0.9	1.0	1.0	0.9
87.5°	0.6	0.7	0.9	0.7	0.5
88°	0.3	0.5	0.5	0.3	0.4
88.5°	0.1	0.3	0.3	0.2	0.1
89°	0.1	0.1	0.1	0.1	0.1
89.5°	0.1	0.1	0.0	0.0	0.0



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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°	0.1	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	0.1	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°	0.1	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
104.5°	0.1	0.0	0.1	0.0	0.1
105°	0.0	0.1	0.1	0.1	0.0
105.5°	0.1	0.1	0.0	0.0	0.0
106°	0.0	0.1	0.0	0.0	0.1
106.5°	0.1	0.1	0.1	0.0	0.0
107°	0.1	0.1	0.0	0.1	0.0
107.5°	0.0	0.1	0.1	0.1	0.1
108°	0.0	0.1	0.0	0.1	0.0
108.5°	0.3	0.1	0.1	0.0	0.0
109°	0.1	0.1	0.1	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0
110°	0.1	0.1	0.1	0.1	0.0
110.5°	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.0	0.1
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: 16870

CATALOG NUMBER: 2HP3GX-317S33I-UNV-HB81

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
113°	0.1	0.1	0.1	0.1	0.1
113.5°	0.1	0.1	0.1	0.1	0.1
114°	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.1	0.0	0.0	0.0
115°	0.0	0.1	0.0	0.0	0.0
115.5°	0.3	0.1	0.1	0.1	0.1
116°	0.1	0.0	0.0	0.0	0.0
116.5°	0.1	0.1	0.0	0.1	0.0
117°	0.1	0.1	0.0	0.1	0.0
117.5°	0.0	0.1	0.1	0.1	0.0
118°	0.0	0.1	0.1	0.1	0.0
118.5°	0.1	0.1	0.1	0.1	0.0
119°	0.1	0.1	0.1	0.1	0.0
119.5°	0.1	0.1	0.1	0.1	0.1
120°	0.1	0.1	0.1	0.1	0.1
120.5°	0.0	0.1	0.1	0.1	0.1
121°	0.1	0.1	0.1	0.1	0.1
121.5°	0.1	0.1	0.1	0.1	0.1
122°	0.0	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.1	0.1	0.1
123°	0.0	0.0	0.0	0.0	0.0
123.5°	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.1
124.5°	0.1	0.2	0.1	0.1	0.3
125°	0.1	0.0	0.0	0.0	0.0
125.5°	0.1	0.1	0.1	0.1	0.1
126°	0.3	0.2	0.3	0.2	0.3
126.5°	0.1	0.1	0.1	0.2	0.1
127°	0.1	0.1	0.1	0.1	0.1
127.5°	0.0	0.0	0.1	0.1	0.0
128°	0.1	0.0	0.1	0.0	0.1
128.5°	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1
132.5°	0.3	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.2	0.3
133.5°	0.1	0.2	0.1	0.2	0.1
134°	0.4	0.3	0.1	0.1	0.1
134.5°	0.1	0.1	0.0	0.0	0.1



TEST NUMBER: 16870

CATALOG NUMBER: 2HP3GX-317S33I-UNV-HB81

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	0.1	0.1	0.1	0.1	0.0
135.5°	0.1	0.1	0.0	0.1	0.0
136°	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.0	0.1	0.1
137°	0.0	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.0	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1
142.5°	0.1	0.1	0.2	0.1	0.1
143°	0.1	0.1	0.1	0.3	0.3
143.5°	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.1	0.1	0.1	0.1
144.5°	0.0	0.1	0.1	0.0	0.0
145°	0.0	0.1	0.1	0.1	0.0
145.5°	0.1	0.1	0.1	0.1	0.1
146°	0.1	0.1	0.0	0.1	0.1
146.5°	0.1	0.1	0.1	0.0	0.1
147°	0.3	0.4	0.3	0.3	0.3
147.5°	0.0	0.1	0.1	0.1	0.1
148°	0.1	0.1	0.1	0.1	0.1
148.5°	0.1	0.2	0.1	0.1	0.1
149°	0.1	0.1	0.1	0.1	0.1
149.5°	0.3	0.1	0.1	0.1	0.1
150°	0.3	0.1	0.1	0.1	0.1
150.5°	0.3	0.2	0.1	0.1	0.1
151°	0.3	0.1	0.1	0.1	0.1
151.5°	0.3	0.2	0.1	0.1	0.1
152°	0.3	0.1	0.1	0.1	0.0
152.5°	0.3	0.1	0.1	0.1	0.1
153°	0.3	0.1	0.1	0.1	0.1
153.5°	0.3	0.2	0.1	0.1	0.1
154°	0.5	0.5	0.5	0.4	0.4
154.5°	0.3	0.1	0.2	0.1	0.1
155°	0.3	0.1	0.2	0.2	0.1
155.5°	0.1	0.3	0.2	0.1	0.1
156°	0.3	0.2	0.1	0.2	0.3
156.5°	0.3	0.2	0.3	0.1	0.1
157°	0.3	0.2	0.2	0.1	0.3



TEST NUMBER: 16870

CATALOG NUMBER: 2HP3GX-317S33I-UNV-HB81

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
157.5°	0.1	0.1	0.3	0.1	0.1
158°	0.1	0.3	0.2	0.2	0.3
158.5°	0.3	0.3	0.2	0.3	0.3
159°	0.3	0.3	0.2	0.2	0.3
159.5°	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.2	0.3
160.5°	0.1	0.2	0.1	0.3	0.3
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	0.1	0.0	0.0	0.0
163°	0.0	0.1	0.0	0.0	0.1
163.5°	0.0	0.1	0.0	0.0	0.0
164°	0.0	0.0	0.1	0.0	0.0
164.5°	0.0	0.1	0.1	0.0	0.0
165°	0.0	0.0	0.1	0.0	0.0
165.5°	0.0	0.1	0.0	0.0	0.0
166°	0.0	0.1	0.0	0.0	0.0
166.5°	0.0	0.1	0.0	0.0	0.0
167°	0.0	0.1	0.0	0.0	0.0
167.5°	0.0	0.1	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	0.1	0.0	0.0	0.0
169.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.1	0.0	0.0	0.0
170.5°	0.0	0.1	0.0	0.0	0.0
171°	0.1	0.0	0.0	0.0	0.0
171.5°	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.1	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: 16870

CATALOG NUMBER: 2HP3GX-317S33I-UNV-HB81

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)