

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: HALO

Report Number: P284768

Luminaire Tested: **HLB6S09940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (GONIOTESTING)
Test Lab: UL-CCIC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLB6S09940
Description: 6 IN SQUARE HALO BLADE (900 LUMEN) - 4000K
Light Source: -
Ballast/Driver: -

Summary

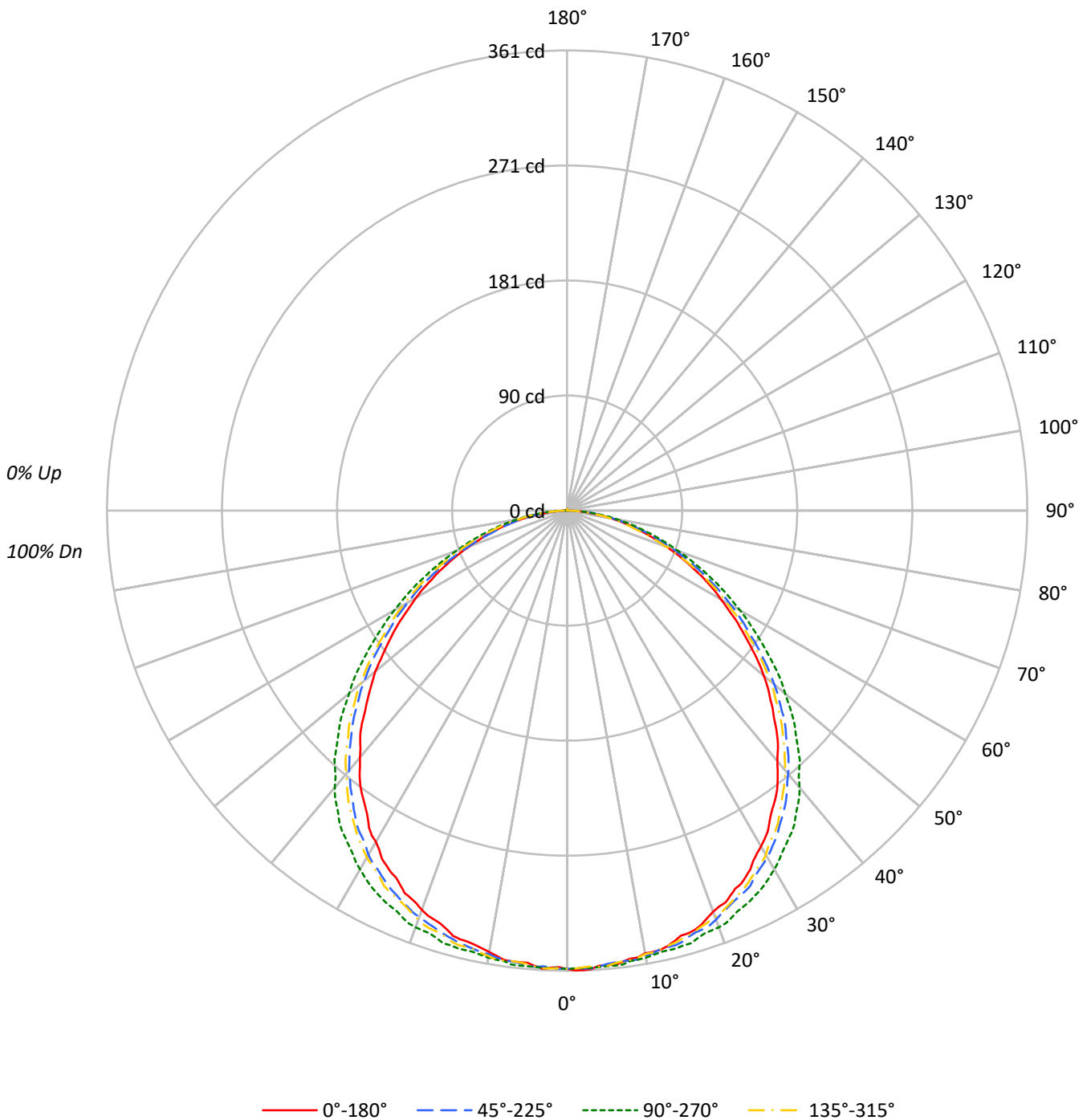
Lumens per Lamp: N/A
Luminaire Lumens: 1011.7 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.7
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	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	100					100			
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19713	19713	19713	19713
5°	19679	19745	19602	19745
10°	19633	19828	19578	19828
15°	19591	20040	19609	20040
20°	19538	20296	19450	20296
25°	19537	20475	19217	20475
30°	19262	20573	18997	20573
35°	18886	20579	18618	20579
40°	18363	20302	18105	20302
45°	17769	19738	17420	19738
50°	17185	19036	16767	19036
55°	16210	18179	15875	18179
60°	15284	17192	15021	17192
65°	14411	16046	14100	16046
70°	13336	14874	13015	14874
75°	12285	13789	11967	13789
80°	11144	12723	10607	12723
85°	9435	11448	8743	11448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	3.4
10°-20°	98.6	9.7
20°-30°	151.5	15.0
30°-40°	183.0	18.1
40°-50°	185.3	18.3
50°-60°	159.4	15.8
60°-70°	115.2	11.4
70°-80°	63.8	6.3
80°-90°	18.4	1.8
90°-100°	0.4	0.0
100°-110°	0.2	0.0
110°-120°	0.2	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	284.1	28.1
0°-40°	467.1	46.2
0°-60°	811.8	80.2
0°-90°	1009.2	99.8
90°-120°	0.9	0.1
90°-150°	1.8	0.2
90°-180°	2.0	0.2
0°-180°	1011.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	360	360	360	360	360	
5°	358	359	356	359	358	34
15°	345	353	346	353	345	98
25°	323	338	318	338	323	148
35°	282	308	278	308	282	177
45°	229	255	225	255	229	177
55°	170	190	166	190	170	152
65°	111	124	109	124	111	110
75°	58	65	56	65	58	62
85°	15	18	14	18	15	16
90°	0	2	0	2	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	1	0	1	0	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
1°	360.8	359.4	359.0	359.0	359.2	360.0	359.4	359.2	358.2	359.2	359.4
2°	360.8	359.5	359.5	358.8	359.2	359.2	358.5	359.4	358.9	359.4	358.5
3°	360.2	359.8	359.6	359.5	359.2	359.0	358.0	358.1	360.0	358.1	358.0
4°	358.1	357.9	358.7	358.9	359.1	358.6	358.8	357.4	358.2	357.4	358.8
5°	357.6	357.9	357.2	358.8	358.8	358.2	358.7	358.3	356.2	358.3	358.7
6°	358.6	357.9	356.5	358.9	359.0	357.8	357.1	357.7	356.2	357.7	357.1
7°	356.7	357.1	356.0	358.2	358.8	357.4	356.3	356.0	356.2	356.0	356.3
8°	355.0	355.6	356.6	356.5	356.9	357.1	356.0	354.8	356.0	354.8	356.0
9°	354.9	353.8	356.5	356.4	356.8	356.5	355.0	353.8	353.7	353.8	355.0
10°	352.7	353.3	355.0	356.3	356.2	355.3	353.3	353.0	351.7	353.0	353.3
11°	352.8	353.2	353.6	354.5	355.1	354.8	353.1	352.1	349.9	352.1	353.1
12°	352.2	351.7	351.8	354.2	354.0	354.2	351.7	350.0	348.2	350.0	351.7
13°	350.6	350.1	351.4	353.4	353.9	353.6	350.6	348.1	347.1	348.1	350.6
14°	348.1	348.7	351.5	352.3	354.0	352.7	349.4	347.4	346.7	347.4	349.4
15°	345.2	346.6	350.1	352.1	353.1	352.3	347.9	346.5	345.5	346.5	347.9
16°	344.9	345.2	347.4	352.0	353.1	351.1	346.4	343.5	342.0	343.5	346.4
17°	343.7	343.5	345.9	349.6	350.8	350.1	344.8	341.1	339.1	341.1	344.8
18°	341.4	341.8	345.3	348.5	348.9	348.0	342.7	338.7	337.3	338.7	342.7
19°	338.0	339.5	344.1	347.6	348.4	345.7	341.1	337.9	336.0	337.9	341.1
20°	334.9	336.8	341.5	346.4	347.9	345.7	339.4	335.9	333.4	335.9	339.4
21°	332.8	334.3	338.6	344.2	346.9	344.0	337.7	332.4	330.1	332.4	337.7
22°	331.6	332.2	335.9	341.2	344.4	341.4	334.9	328.8	327.8	328.8	334.9
23°	328.1	329.6	333.6	340.2	341.6	338.4	332.6	326.3	326.0	326.3	332.6
24°	324.5	326.7	331.6	339.2	340.0	336.8	329.8	324.4	321.7	324.4	329.8
25°	323.0	323.8	329.9	336.0	338.5	335.3	327.5	321.1	317.7	321.1	327.5
26°	319.6	320.5	327.6	332.7	336.1	332.4	324.5	316.3	315.5	316.3	324.5
27°	316.2	316.5	323.3	330.4	334.0	328.6	321.2	314.2	312.5	314.2	321.2
28°	311.2	313.0	319.9	328.5	331.3	325.7	317.7	310.7	309.5	310.7	317.7
29°	307.3	310.1	317.1	324.9	328.2	324.0	315.3	306.4	304.1	306.4	315.3
30°	304.3	306.6	314.4	322.0	325.0	321.4	311.9	302.9	300.1	302.9	311.9
31°	300.8	303.0	310.5	318.6	321.7	317.1	306.8	299.3	297.5	299.3	306.8
32°	297.0	298.8	306.7	315.1	317.5	312.6	302.9	293.9	293.4	293.9	302.9
33°	291.3	294.1	302.8	311.7	314.0	308.5	299.8	289.4	287.2	289.4	299.8
34°	286.3	289.0	298.1	307.2	310.5	305.0	295.8	285.7	282.4	285.7	295.8
35°	282.2	285.6	293.8	302.2	307.5	301.4	290.6	281.4	278.2	281.4	290.6
36°	278.2	281.6	289.7	298.5	303.6	297.7	285.6	276.5	274.1	276.5	285.6
37°	273.8	275.8	285.3	294.8	298.2	292.2	280.6	271.9	269.7	271.9	280.6
38°	268.3	270.0	280.1	289.6	293.7	286.5	276.0	267.3	264.5	267.3	276.0
39°	262.4	266.2	274.3	284.2	289.3	282.3	270.8	261.9	258.3	261.9	270.8
40°	256.6	261.6	269.7	280.0	283.7	277.2	266.1	255.9	253.0	255.9	266.1
41°	251.7	254.9	264.9	273.3	277.0	271.8	260.3	250.1	247.1	250.1	260.3
42°	247.2	249.2	259.5	267.8	272.2	266.1	255.0	244.5	242.7	244.5	255.0
43°	241.6	244.3	253.4	262.2	267.7	261.1	249.4	239.9	237.7	239.9	249.4
44°	235.8	239.4	247.3	256.8	261.0	255.0	243.5	234.2	231.8	234.2	243.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	229.2	233.1	242.4	251.1	254.6	248.7	238.1	227.9	224.7	227.9	238.1
46°	224.2	227.1	237.0	245.8	249.0	243.5	232.5	222.2	218.9	222.2	232.5
47°	218.2	221.5	230.4	239.9	243.6	236.5	225.6	217.0	213.1	217.0	225.6
48°	213.1	215.6	224.1	233.2	237.0	230.7	219.8	211.1	207.4	211.1	219.8
49°	207.5	209.6	218.6	226.0	229.9	224.5	214.2	204.6	201.8	204.6	214.2
50°	201.5	203.8	212.2	219.8	223.2	218.0	207.7	198.5	196.6	198.5	207.7
51°	195.5	197.6	205.4	214.0	217.4	211.0	201.3	193.0	189.9	193.0	201.3
52°	189.1	191.2	199.3	206.9	211.2	204.3	195.4	186.5	183.5	186.5	195.4
53°	182.4	185.4	192.5	199.8	204.0	197.6	188.9	180.0	177.5	180.0	188.9
54°	175.7	179.8	186.3	193.1	196.9	190.7	181.9	173.9	171.8	173.9	181.9
55°	169.6	173.7	179.4	186.7	190.2	183.9	175.2	168.2	166.1	168.2	175.2
56°	163.6	167.0	172.8	179.9	183.3	177.5	168.9	161.8	160.3	161.8	168.9
57°	158.0	161.0	167.0	172.8	176.6	170.9	163.1	156.2	154.0	156.2	163.1
58°	151.1	155.3	161.1	166.5	169.9	164.5	157.4	150.2	147.7	150.2	157.4
59°	145.1	148.9	155.2	160.7	163.6	157.8	150.6	144.4	142.2	144.4	150.6
60°	139.4	142.9	148.7	154.5	156.8	151.2	144.4	138.0	137.0	138.0	144.4
61°	134.2	137.1	142.5	147.8	150.0	145.2	138.7	132.9	131.5	132.9	138.7
62°	128.7	130.6	136.4	141.0	143.7	139.5	133.0	126.6	125.4	126.6	133.0
63°	123.0	125.0	130.3	135.0	137.2	133.2	126.4	120.1	119.2	120.1	126.4
64°	117.3	118.9	124.2	128.9	130.8	126.5	120.1	114.4	114.2	114.4	120.1
65°	111.1	113.2	117.9	122.5	123.7	120.0	114.0	108.7	108.7	108.7	114.0
66°	105.3	107.3	112.0	116.4	117.7	114.1	107.5	102.6	103.0	102.6	107.5
67°	100.0	101.8	106.1	110.4	111.4	108.4	101.4	96.5	97.5	96.5	101.4
68°	94.4	96.2	100.1	104.5	105.2	102.4	95.1	90.3	92.1	90.3	95.1
69°	88.5	90.4	94.2	98.5	98.9	96.1	88.7	84.6	86.6	84.6	88.7
70°	83.2	84.9	88.5	92.3	92.8	90.3	82.5	79.1	81.2	79.1	82.5
71°	78.2	79.6	83.0	86.8	86.9	85.0	76.4	73.6	75.8	73.6	76.4
72°	72.9	74.1	77.6	81.3	81.2	79.4	70.7	68.1	71.0	68.1	70.7
73°	67.6	69.0	72.2	75.7	75.7	73.9	64.9	62.8	66.4	62.8	64.9
74°	62.5	64.1	66.9	70.3	70.5	68.5	59.5	57.7	61.4	57.7	59.5
75°	58.0	59.1	61.7	64.9	65.1	63.5	54.2	52.8	56.5	52.8	54.2
76°	53.3	54.4	56.7	59.8	60.0	58.1	50.4	48.3	51.9	48.3	50.4
77°	48.6	49.7	51.9	54.8	54.9	52.7	46.0	44.1	47.2	44.1	46.0
78°	44.0	45.1	47.0	49.8	49.8	47.5	41.9	40.0	42.4	40.0	41.9
79°	39.7	40.5	42.2	45.0	45.0	42.5	37.7	35.9	37.9	35.9	37.7
80°	35.3	36.0	37.8	40.3	40.3	38.1	33.6	31.9	33.6	31.9	33.6
81°	30.9	31.8	33.5	35.8	35.7	33.7	29.8	27.9	29.3	27.9	29.8
82°	26.5	27.5	29.2	31.2	31.2	29.4	26.0	24.0	25.0	24.0	26.0
83°	22.5	23.2	25.1	26.7	26.6	25.1	22.3	20.0	20.9	20.0	22.3
84°	18.6	19.1	21.3	22.6	22.3	20.9	18.7	16.2	17.2	16.2	18.7
85°	15.0	15.5	17.4	18.5	18.2	17.0	15.0	13.0	13.9	13.0	15.0
86°	11.7	12.1	13.6	14.4	14.2	13.1	11.5	9.9	10.7	9.9	11.5
87°	8.5	9.0	10.0	10.5	10.2	9.3	8.1	7.0	7.6	7.0	8.1
88°	5.3	5.9	6.4	6.8	6.3	5.7	4.7	4.1	4.6	4.1	4.7
89°	2.1	3.0	3.3	3.8	3.5	3.1	2.4	1.7	1.8	1.7	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.4	1.2	1.6	1.9	1.7	1.4	1.0	0.6	0.4	0.6	1.0
91°	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.3	0.5	0.5
92°	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.3	0.5	0.5
93°	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
94°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4
95°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4
96°	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3
97°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
98°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
99°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
101°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3
102°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2
103°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2
104°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
106°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
107°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
108°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
109°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
111°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
112°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
113°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
114°	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
115°	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3
116°	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2
117°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
118°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
119°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
121°	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3
122°	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
123°	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3
124°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
125°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
126°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
127°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
128°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
129°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
131°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
132°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
133°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
134°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P284768
 CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
136°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
137°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
138°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
139°	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4
140°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
141°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
142°	0.4	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5
143°	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144°	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6
145°	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.5
146°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
147°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.6	0.6
148°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.6	0.6
149°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.6	0.6
150°	0.6	0.6	0.5	0.6	0.6	0.8	0.6	0.6	0.5	0.6	0.6
151°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
152°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
153°	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
154°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8
156°	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
158°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
159°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
161°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162°	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	1.0
167°	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
168°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
169°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
171°	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.1	1.1
172°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
173°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
174°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
176°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177°	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
178°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
179°	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



TEST NUMBER: P284768
CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



TEST NUMBER: P284768
 CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	359.6	359.6	359.6	359.6	359.6	359.6
1°	360.0	359.2	359.0	359.0	359.4	360.8
2°	359.2	359.2	358.8	359.5	359.5	360.8
3°	359.0	359.2	359.5	359.6	359.8	360.2
4°	358.6	359.1	358.9	358.7	357.9	358.1
5°	358.2	358.8	358.8	357.2	357.9	357.6
6°	357.8	359.0	358.9	356.5	357.9	358.6
7°	357.4	358.8	358.2	356.0	357.1	356.7
8°	357.1	356.9	356.5	356.6	355.6	355.0
9°	356.5	356.8	356.4	356.5	353.8	354.9
10°	355.3	356.2	356.3	355.0	353.3	352.7
11°	354.8	355.1	354.5	353.6	353.2	352.8
12°	354.2	354.0	354.2	351.8	351.7	352.2
13°	353.6	353.9	353.4	351.4	350.1	350.6
14°	352.7	354.0	352.3	351.5	348.7	348.1
15°	352.3	353.1	352.1	350.1	346.6	345.2
16°	351.1	353.1	352.0	347.4	345.2	344.9
17°	350.1	350.8	349.6	345.9	343.5	343.7
18°	348.0	348.9	348.5	345.3	341.8	341.4
19°	345.7	348.4	347.6	344.1	339.5	338.0
20°	345.7	347.9	346.4	341.5	336.8	334.9
21°	344.0	346.9	344.2	338.6	334.3	332.8
22°	341.4	344.4	341.2	335.9	332.2	331.6
23°	338.4	341.6	340.2	333.6	329.6	328.1
24°	336.8	340.0	339.2	331.6	326.7	324.5
25°	335.3	338.5	336.0	329.9	323.8	323.0
26°	332.4	336.1	332.7	327.6	320.5	319.6
27°	328.6	334.0	330.4	323.3	316.5	316.2
28°	325.7	331.3	328.5	319.9	313.0	311.2
29°	324.0	328.2	324.9	317.1	310.1	307.3
30°	321.4	325.0	322.0	314.4	306.6	304.3
31°	317.1	321.7	318.6	310.5	303.0	300.8
32°	312.6	317.5	315.1	306.7	298.8	297.0
33°	308.5	314.0	311.7	302.8	294.1	291.3
34°	305.0	310.5	307.2	298.1	289.0	286.3
35°	301.4	307.5	302.2	293.8	285.6	282.2
36°	297.7	303.6	298.5	289.7	281.6	278.2
37°	292.2	298.2	294.8	285.3	275.8	273.8
38°	286.5	293.7	289.6	280.1	270.0	268.3
39°	282.3	289.3	284.2	274.3	266.2	262.4
40°	277.2	283.7	280.0	269.7	261.6	256.6
41°	271.8	277.0	273.3	264.9	254.9	251.7
42°	266.1	272.2	267.8	259.5	249.2	247.2
43°	261.1	267.7	262.2	253.4	244.3	241.6
44°	255.0	261.0	256.8	247.3	239.4	235.8



TEST NUMBER: P284768
 CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	248.7	254.6	251.1	242.4	233.1	229.2
46°	243.5	249.0	245.8	237.0	227.1	224.2
47°	236.5	243.6	239.9	230.4	221.5	218.2
48°	230.7	237.0	233.2	224.1	215.6	213.1
49°	224.5	229.9	226.0	218.6	209.6	207.5
50°	218.0	223.2	219.8	212.2	203.8	201.5
51°	211.0	217.4	214.0	205.4	197.6	195.5
52°	204.3	211.2	206.9	199.3	191.2	189.1
53°	197.6	204.0	199.8	192.5	185.4	182.4
54°	190.7	196.9	193.1	186.3	179.8	175.7
55°	183.9	190.2	186.7	179.4	173.7	169.6
56°	177.5	183.3	179.9	172.8	167.0	163.6
57°	170.9	176.6	172.8	167.0	161.0	158.0
58°	164.5	169.9	166.5	161.1	155.3	151.1
59°	157.8	163.6	160.7	155.2	148.9	145.1
60°	151.2	156.8	154.5	148.7	142.9	139.4
61°	145.2	150.0	147.8	142.5	137.1	134.2
62°	139.5	143.7	141.0	136.4	130.6	128.7
63°	133.2	137.2	135.0	130.3	125.0	123.0
64°	126.5	130.8	128.9	124.2	118.9	117.3
65°	120.0	123.7	122.5	117.9	113.2	111.1
66°	114.1	117.7	116.4	112.0	107.3	105.3
67°	108.4	111.4	110.4	106.1	101.8	100.0
68°	102.4	105.2	104.5	100.1	96.2	94.4
69°	96.1	98.9	98.5	94.2	90.4	88.5
70°	90.3	92.8	92.3	88.5	84.9	83.2
71°	85.0	86.9	86.8	83.0	79.6	78.2
72°	79.4	81.2	81.3	77.6	74.1	72.9
73°	73.9	75.7	75.7	72.2	69.0	67.6
74°	68.5	70.5	70.3	66.9	64.1	62.5
75°	63.5	65.1	64.9	61.7	59.1	58.0
76°	58.1	60.0	59.8	56.7	54.4	53.3
77°	52.7	54.9	54.8	51.9	49.7	48.6
78°	47.5	49.8	49.8	47.0	45.1	44.0
79°	42.5	45.0	45.0	42.2	40.5	39.7
80°	38.1	40.3	40.3	37.8	36.0	35.3
81°	33.7	35.7	35.8	33.5	31.8	30.9
82°	29.4	31.2	31.2	29.2	27.5	26.5
83°	25.1	26.6	26.7	25.1	23.2	22.5
84°	20.9	22.3	22.6	21.3	19.1	18.6
85°	17.0	18.2	18.5	17.4	15.5	15.0
86°	13.1	14.2	14.4	13.6	12.1	11.7
87°	9.3	10.2	10.5	10.0	9.0	8.5
88°	5.7	6.3	6.8	6.4	5.9	5.3
89°	3.1	3.5	3.8	3.3	3.0	2.1



TEST NUMBER: P284768
 CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.4	1.7	1.9	1.6	1.2	0.4
91°	0.5	0.4	0.5	0.5	0.5	0.4
92°	0.4	0.4	0.4	0.5	0.5	0.4
93°	0.4	0.4	0.4	0.5	0.4	0.3
94°	0.4	0.4	0.4	0.4	0.4	0.3
95°	0.4	0.4	0.4	0.4	0.3	0.3
96°	0.4	0.3	0.4	0.3	0.3	0.3
97°	0.3	0.3	0.3	0.3	0.3	0.3
98°	0.3	0.3	0.3	0.3	0.3	0.3
99°	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.3	0.3	0.3	0.2	0.3	0.3
101°	0.3	0.3	0.2	0.2	0.2	0.3
102°	0.3	0.3	0.2	0.2	0.2	0.2
103°	0.3	0.3	0.2	0.2	0.2	0.2
104°	0.2	0.2	0.2	0.2	0.2	0.2
105°	0.2	0.2	0.2	0.2	0.2	0.2
106°	0.2	0.2	0.2	0.2	0.2	0.2
107°	0.2	0.2	0.2	0.2	0.2	0.1
108°	0.2	0.2	0.2	0.2	0.2	0.1
109°	0.2	0.2	0.2	0.2	0.2	0.1
110°	0.2	0.2	0.2	0.2	0.2	0.1
111°	0.2	0.2	0.2	0.2	0.2	0.1
112°	0.2	0.2	0.2	0.2	0.2	0.1
113°	0.2	0.2	0.2	0.2	0.2	0.1
114°	0.3	0.2	0.2	0.2	0.2	0.1
115°	0.2	0.2	0.2	0.2	0.2	0.1
116°	0.3	0.2	0.2	0.2	0.2	0.1
117°	0.2	0.2	0.2	0.2	0.2	0.2
118°	0.2	0.2	0.1	0.1	0.2	0.2
119°	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.3	0.3	0.2	0.2	0.2	0.2
121°	0.4	0.3	0.3	0.3	0.3	0.2
122°	0.4	0.4	0.4	0.3	0.3	0.2
123°	0.4	0.3	0.3	0.3	0.3	0.2
124°	0.3	0.3	0.3	0.3	0.3	0.2
125°	0.3	0.3	0.3	0.3	0.3	0.2
126°	0.3	0.3	0.3	0.3	0.3	0.2
127°	0.3	0.3	0.3	0.3	0.3	0.2
128°	0.3	0.3	0.3	0.3	0.3	0.2
129°	0.3	0.3	0.3	0.3	0.3	0.2
130°	0.3	0.3	0.3	0.3	0.3	0.2
131°	0.4	0.4	0.4	0.3	0.3	0.3
132°	0.4	0.3	0.3	0.3	0.3	0.3
133°	0.4	0.4	0.4	0.3	0.3	0.3
134°	0.4	0.4	0.4	0.4	0.3	0.3



TEST NUMBER: P284768
 CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.4	0.4	0.4	0.4	0.4	0.3
136°	0.4	0.4	0.4	0.4	0.4	0.3
137°	0.4	0.4	0.4	0.4	0.4	0.4
138°	0.5	0.5	0.5	0.4	0.4	0.4
139°	0.5	0.5	0.4	0.4	0.4	0.4
140°	0.5	0.5	0.5	0.5	0.4	0.4
141°	0.5	0.4	0.4	0.4	0.4	0.4
142°	0.6	0.5	0.6	0.5	0.5	0.4
143°	0.6	0.6	0.6	0.5	0.5	0.5
144°	0.5	0.6	0.6	0.5	0.5	0.5
145°	0.5	0.6	0.5	0.5	0.5	0.5
146°	0.5	0.5	0.5	0.5	0.5	0.5
147°	0.6	0.6	0.5	0.5	0.5	0.5
148°	0.6	0.6	0.6	0.6	0.5	0.5
149°	0.6	0.6	0.6	0.6	0.5	0.5
150°	0.8	0.6	0.6	0.5	0.6	0.6
151°	0.6	0.6	0.6	0.6	0.6	0.6
152°	0.6	0.6	0.6	0.6	0.6	0.6
153°	0.6	0.6	0.6	0.6	0.5	0.6
154°	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6	0.6
156°	0.8	0.8	0.8	0.6	0.6	0.6
157°	0.8	0.8	0.8	0.8	0.8	0.8
158°	0.8	0.8	0.8	0.8	0.8	0.8
159°	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8
161°	0.8	0.8	0.8	0.8	0.8	0.8
162°	0.9	0.9	0.9	0.8	0.8	0.8
163°	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.9	0.9	0.9	0.9	0.9	0.9
167°	1.0	1.0	1.0	1.0	0.9	1.0
168°	1.0	1.0	1.0	1.0	1.0	1.0
169°	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.0	1.0	1.0	1.0	1.0	1.0
171°	1.0	1.0	1.0	1.0	1.0	1.1
172°	1.1	1.1	1.1	1.1	1.1	1.1
173°	1.1	1.1	1.1	1.1	1.1	1.1
174°	1.1	1.1	1.1	1.1	1.1	1.1
175°	1.1	1.1	1.1	1.1	1.1	1.1
176°	1.1	1.1	1.1	1.1	1.1	1.1
177°	1.1	1.1	1.1	1.1	1.1	1.2
178°	1.1	1.1	1.1	1.1	1.1	1.1
179°	1.1	1.1	1.1	1.1	1.1	1.2



TEST NUMBER: P284768
CATALOG NUMBER: HLB6S09940

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)