

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: P284767

Luminaire Tested: **HLB6S09935**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284767
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: HLB6S09935
Description: 6 IN SQUARE HALO BLADE (900 LUMEN) - 3500K
Light Source: -
Ballast/Driver: -

Summary

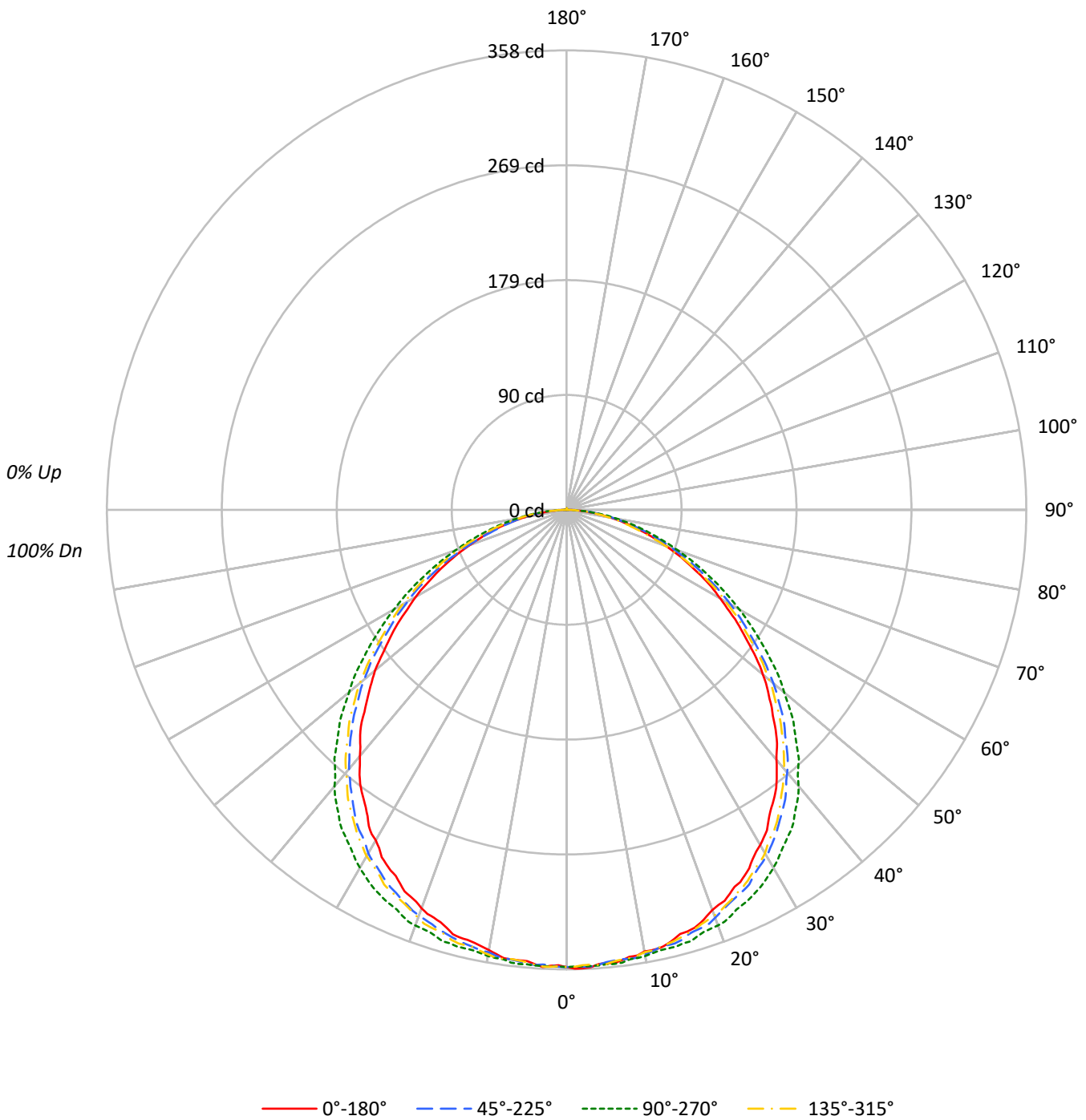
Lumens per Lamp: N/A
Luminaire Lumens: 1002.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19532	19532	19532	19532
5°	19497	19558	19420	19558
10°	19450	19644	19394	19644
15°	19410	19853	19421	19853
20°	19357	20109	19269	20109
25°	19356	20281	19041	20281
30°	19085	20383	18819	20383
35°	18712	20391	18444	20391
40°	18191	20116	17934	20116
45°	17606	19552	17258	19552
50°	17023	18857	16605	18857
55°	16057	18016	15722	18016
60°	15141	17038	14878	17038
65°	14269	15903	13970	15903
70°	13223	14730	12903	14730
75°	12179	13662	11861	13662
80°	11049	12596	10513	12596
85°	9372	11322	8617	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	3.4
10°-20°	97.7	9.7
20°-30°	150.1	15.0
30°-40°	181.3	18.1
40°-50°	183.6	18.3
50°-60°	157.9	15.8
60°-70°	114.2	11.4
70°-80°	63.2	6.3
80°-90°	18.2	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°	281.5	28.1
0°-40°	462.7	46.2
0°-60°	804.3	80.2
0°-90°	999.9	99.8
90°-120°	0.9	0.1
90°-150°	1.8	0.2
90°-180°	2.0	0.2
0°-180°	1002.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	356	356	356	356	356	
5°	354	355	353	355	354	34
15°	342	350	342	350	342	97
25°	320	335	315	335	320	147
35°	280	305	276	305	280	175
45°	227	252	223	252	227	176
55°	168	188	164	188	168	151
65°	110	123	108	123	110	109
75°	58	64	56	64	58	61
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°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
1°	357.5	356.1	355.7	355.7	355.9	356.6	356.1	355.9	354.9	355.9	356.1
2°	357.5	356.2	356.2	355.4	355.9	355.9	355.1	356.1	355.5	356.1	355.1
3°	356.8	356.5	356.3	356.2	355.9	355.7	354.7	354.8	356.6	354.8	354.7
4°	354.8	354.6	355.3	355.5	355.8	355.2	355.4	354.1	354.9	354.1	355.4
5°	354.3	354.6	353.8	355.4	355.4	354.9	355.3	355.0	352.9	355.0	355.3
6°	355.2	354.6	353.2	355.5	355.7	354.5	353.7	354.4	352.9	354.4	353.7
7°	353.4	353.7	352.7	354.9	355.4	354.1	353.0	352.7	352.9	352.7	353.0
8°	351.7	352.2	353.3	353.2	353.6	353.7	352.7	351.5	352.7	351.5	352.7
9°	351.6	350.5	353.2	353.1	353.5	353.2	351.7	350.5	350.4	350.5	351.7
10°	349.4	350.0	351.7	353.0	352.9	352.0	350.0	349.7	348.4	349.7	350.0
11°	349.5	349.9	350.3	351.2	351.8	351.5	349.8	348.8	346.6	348.8	349.8
12°	349.0	348.4	348.5	350.9	350.8	350.9	348.4	346.7	345.0	346.7	348.4
13°	347.4	346.8	348.1	350.1	350.7	350.3	347.4	344.9	343.8	344.9	347.4
14°	344.9	345.4	348.2	349.1	350.8	349.4	346.2	344.2	343.5	344.2	346.2
15°	342.0	343.4	346.8	348.8	349.8	349.1	344.7	343.3	342.2	343.3	344.7
16°	341.7	342.0	344.2	348.7	349.8	347.9	343.2	340.3	338.8	340.3	343.2
17°	340.5	340.3	342.7	346.4	347.6	346.8	341.6	337.9	336.0	337.9	341.6
18°	338.2	338.6	342.1	345.2	345.7	344.8	339.5	335.5	334.2	335.5	339.5
19°	334.9	336.4	340.9	344.4	345.1	342.5	337.9	334.8	332.9	334.8	337.9
20°	331.8	333.6	338.3	343.2	344.7	342.5	336.3	332.8	330.3	332.8	336.3
21°	329.7	331.2	335.4	341.0	343.6	340.8	334.6	329.3	327.0	329.3	334.6
22°	328.5	329.2	332.8	338.0	341.2	338.2	331.8	325.8	324.8	325.8	331.8
23°	325.0	326.5	330.5	337.0	338.4	335.2	329.5	323.3	323.0	323.3	329.5
24°	321.5	323.6	328.5	336.1	336.8	333.6	326.7	321.4	318.7	321.4	326.7
25°	320.0	320.7	326.8	332.9	335.3	332.1	324.5	318.1	314.8	318.1	324.5
26°	316.6	317.6	324.6	329.6	333.0	329.3	321.5	313.4	312.6	313.4	321.5
27°	313.3	313.5	320.3	327.3	330.9	325.5	318.2	311.3	309.6	311.3	318.2
28°	308.3	310.1	316.9	325.4	328.2	322.7	314.8	307.8	306.6	307.8	314.8
29°	304.5	307.2	314.2	321.9	325.1	321.0	312.3	303.5	301.3	303.5	312.3
30°	301.5	303.7	311.5	319.0	322.0	318.4	309.0	300.1	297.3	300.1	309.0
31°	298.0	300.2	307.7	315.6	318.7	314.2	303.9	296.5	294.8	296.5	303.9
32°	294.3	296.1	303.8	312.1	314.6	309.7	300.1	291.2	290.6	291.2	300.1
33°	288.6	291.4	300.0	308.8	311.1	305.6	297.0	286.7	284.6	286.7	297.0
34°	283.6	286.3	295.3	304.4	307.7	302.1	293.1	283.1	279.8	283.1	293.1
35°	279.6	283.0	291.1	299.4	304.7	298.6	287.9	278.8	275.6	278.8	287.9
36°	275.6	279.0	287.0	295.7	300.7	294.9	283.0	273.9	271.6	273.9	283.0
37°	271.3	273.3	282.7	292.0	295.4	289.5	278.0	269.3	267.2	269.3	278.0
38°	265.8	267.5	277.5	286.9	291.0	283.8	273.4	264.8	262.0	264.8	273.4
39°	260.0	263.7	271.8	281.6	286.6	279.7	268.3	259.5	255.9	259.5	268.3
40°	254.2	259.1	267.2	277.4	281.1	274.7	263.6	253.5	250.6	253.5	263.6
41°	249.3	252.5	262.4	270.7	274.5	269.2	257.9	247.7	244.8	247.7	257.9
42°	244.9	246.9	257.1	265.3	269.7	263.6	252.6	242.2	240.4	242.2	252.6
43°	239.3	242.0	251.0	259.8	265.2	258.7	247.1	237.6	235.5	237.6	247.1
44°	233.6	237.2	245.0	254.4	258.6	252.6	241.3	232.0	229.7	232.0	241.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	227.1	230.9	240.2	248.8	252.2	246.4	235.9	225.8	222.6	225.8	235.9
46°	222.1	225.0	234.8	243.5	246.7	241.3	230.3	220.2	216.9	220.2	230.3
47°	216.1	219.4	228.3	237.6	241.4	234.3	223.5	215.0	211.1	215.0	223.5
48°	211.1	213.6	222.0	231.0	234.8	228.6	217.7	209.1	205.5	209.1	217.7
49°	205.6	207.6	216.6	223.9	227.7	222.4	212.2	202.7	200.0	202.7	212.2
50°	199.6	201.9	210.2	217.7	221.1	215.9	205.8	196.7	194.7	196.7	205.8
51°	193.7	195.8	203.5	212.0	215.4	209.0	199.4	191.2	188.2	191.2	199.4
52°	187.3	189.4	197.4	205.0	209.2	202.4	193.6	184.7	181.8	184.7	193.6
53°	180.7	183.7	190.7	197.9	202.1	195.8	187.2	178.4	175.8	178.4	187.2
54°	174.1	178.1	184.5	191.3	195.1	188.9	180.2	172.3	170.2	172.3	180.2
55°	168.0	172.1	177.7	185.0	188.5	182.2	173.6	166.7	164.5	166.7	173.6
56°	162.1	165.5	171.2	178.3	181.6	175.8	167.3	160.3	158.8	160.3	167.3
57°	156.5	159.5	165.5	171.2	175.0	169.3	161.5	154.7	152.6	154.7	161.5
58°	149.7	153.9	159.6	165.0	168.4	162.9	155.9	148.8	146.3	148.8	155.9
59°	143.8	147.5	153.8	159.2	162.1	156.3	149.2	143.0	140.9	143.0	149.2
60°	138.1	141.5	147.3	153.0	155.4	149.8	143.0	136.7	135.7	136.7	143.0
61°	132.9	135.8	141.2	146.4	148.6	143.9	137.4	131.6	130.3	131.6	137.4
62°	127.5	129.4	135.2	139.7	142.4	138.2	131.7	125.5	124.2	125.5	131.7
63°	121.9	123.9	129.1	133.8	135.9	132.0	125.3	119.0	118.1	119.0	125.3
64°	116.2	117.8	123.0	127.7	129.6	125.4	119.0	113.3	113.1	113.3	119.0
65°	110.0	112.2	116.8	121.3	122.6	118.9	112.9	107.7	107.7	107.7	112.9
66°	104.3	106.3	111.0	115.4	116.6	113.0	106.5	101.6	102.1	101.6	106.5
67°	99.1	100.9	105.1	109.4	110.4	107.4	100.5	95.6	96.6	95.6	100.5
68°	93.5	95.4	99.2	103.5	104.2	101.4	94.2	89.5	91.2	89.5	94.2
69°	87.7	89.6	93.3	97.6	98.0	95.2	87.9	83.9	85.8	83.9	87.9
70°	82.5	84.1	87.7	91.4	91.9	89.5	81.7	78.3	80.5	78.3	81.7
71°	77.5	78.9	82.3	86.0	86.1	84.2	75.7	72.9	75.1	72.9	75.7
72°	72.3	73.4	76.8	80.6	80.5	78.6	70.0	67.5	70.3	67.5	70.0
73°	66.9	68.3	71.5	75.0	75.0	73.2	64.3	62.3	65.8	62.3	64.3
74°	61.9	63.5	66.3	69.6	69.8	67.9	59.0	57.1	60.9	57.1	59.0
75°	57.5	58.5	61.1	64.3	64.5	62.9	53.7	52.4	56.0	52.4	53.7
76°	52.8	53.8	56.2	59.3	59.5	57.6	49.9	47.9	51.4	47.9	49.9
77°	48.1	49.3	51.4	54.3	54.4	52.3	45.5	43.7	46.7	43.7	45.5
78°	43.6	44.7	46.6	49.4	49.4	47.0	41.5	39.6	42.0	39.6	41.5
79°	39.4	40.1	41.8	44.6	44.6	42.1	37.4	35.5	37.6	35.5	37.4
80°	35.0	35.7	37.5	39.9	39.9	37.8	33.3	31.6	33.3	31.6	33.3
81°	30.6	31.5	33.2	35.4	35.3	33.4	29.5	27.7	29.1	27.7	29.5
82°	26.3	27.2	28.9	30.9	30.9	29.2	25.8	23.7	24.8	23.7	25.8
83°	22.2	23.0	24.9	26.5	26.4	24.9	22.1	19.8	20.8	19.8	22.1
84°	18.4	18.9	21.1	22.3	22.1	20.8	18.5	16.1	17.0	16.1	18.5
85°	14.9	15.3	17.2	18.3	18.0	16.8	14.9	12.9	13.7	12.9	14.9
86°	11.6	12.0	13.5	14.3	14.0	13.0	11.4	9.8	10.6	9.8	11.4
87°	8.4	8.9	9.9	10.4	10.1	9.3	8.0	6.9	7.6	6.9	8.0
88°	5.2	5.9	6.4	6.7	6.3	5.6	4.7	4.0	4.6	4.0	4.7
89°	2.1	3.0	3.3	3.7	3.5	3.1	2.3	1.7	1.8	1.7	2.3



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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: P284767
 CATALOG NUMBER: HLB6S09935

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	0.7	0.6	0.6
148°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
149°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
150°	0.6	0.6	0.5	0.6	0.6	0.7	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	0.7	0.7	0.7	0.7	0.7
156°	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
158°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
159°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
161°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162°	0.7	0.7	0.7	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: P284767
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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: P284767
 CATALOG NUMBER: HLB6S09935

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	356.3	356.3	356.3	356.3	356.3	356.3
1°	356.6	355.9	355.7	355.7	356.1	357.5
2°	355.9	355.9	355.4	356.2	356.2	357.5
3°	355.7	355.9	356.2	356.3	356.5	356.8
4°	355.2	355.8	355.5	355.3	354.6	354.8
5°	354.9	355.4	355.4	353.8	354.6	354.3
6°	354.5	355.7	355.5	353.2	354.6	355.2
7°	354.1	355.4	354.9	352.7	353.7	353.4
8°	353.7	353.6	353.2	353.3	352.2	351.7
9°	353.2	353.5	353.1	353.2	350.5	351.6
10°	352.0	352.9	353.0	351.7	350.0	349.4
11°	351.5	351.8	351.2	350.3	349.9	349.5
12°	350.9	350.8	350.9	348.5	348.4	349.0
13°	350.3	350.7	350.1	348.1	346.8	347.4
14°	349.4	350.8	349.1	348.2	345.4	344.9
15°	349.1	349.8	348.8	346.8	343.4	342.0
16°	347.9	349.8	348.7	344.2	342.0	341.7
17°	346.8	347.6	346.4	342.7	340.3	340.5
18°	344.8	345.7	345.2	342.1	338.6	338.2
19°	342.5	345.1	344.4	340.9	336.4	334.9
20°	342.5	344.7	343.2	338.3	333.6	331.8
21°	340.8	343.6	341.0	335.4	331.2	329.7
22°	338.2	341.2	338.0	332.8	329.2	328.5
23°	335.2	338.4	337.0	330.5	326.5	325.0
24°	333.6	336.8	336.1	328.5	323.6	321.5
25°	332.1	335.3	332.9	326.8	320.7	320.0
26°	329.3	333.0	329.6	324.6	317.6	316.6
27°	325.5	330.9	327.3	320.3	313.5	313.3
28°	322.7	328.2	325.4	316.9	310.1	308.3
29°	321.0	325.1	321.9	314.2	307.2	304.5
30°	318.4	322.0	319.0	311.5	303.7	301.5
31°	314.2	318.7	315.6	307.7	300.2	298.0
32°	309.7	314.6	312.1	303.8	296.1	294.3
33°	305.6	311.1	308.8	300.0	291.4	288.6
34°	302.1	307.7	304.4	295.3	286.3	283.6
35°	298.6	304.7	299.4	291.1	283.0	279.6
36°	294.9	300.7	295.7	287.0	279.0	275.6
37°	289.5	295.4	292.0	282.7	273.3	271.3
38°	283.8	291.0	286.9	277.5	267.5	265.8
39°	279.7	286.6	281.6	271.8	263.7	260.0
40°	274.7	281.1	277.4	267.2	259.1	254.2
41°	269.2	274.5	270.7	262.4	252.5	249.3
42°	263.6	269.7	265.3	257.1	246.9	244.9
43°	258.7	265.2	259.8	251.0	242.0	239.3
44°	252.6	258.6	254.4	245.0	237.2	233.6



TEST NUMBER: P284767
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	246.4	252.2	248.8	240.2	230.9	227.1
46°	241.3	246.7	243.5	234.8	225.0	222.1
47°	234.3	241.4	237.6	228.3	219.4	216.1
48°	228.6	234.8	231.0	222.0	213.6	211.1
49°	222.4	227.7	223.9	216.6	207.6	205.6
50°	215.9	221.1	217.7	210.2	201.9	199.6
51°	209.0	215.4	212.0	203.5	195.8	193.7
52°	202.4	209.2	205.0	197.4	189.4	187.3
53°	195.8	202.1	197.9	190.7	183.7	180.7
54°	188.9	195.1	191.3	184.5	178.1	174.1
55°	182.2	188.5	185.0	177.7	172.1	168.0
56°	175.8	181.6	178.3	171.2	165.5	162.1
57°	169.3	175.0	171.2	165.5	159.5	156.5
58°	162.9	168.4	165.0	159.6	153.9	149.7
59°	156.3	162.1	159.2	153.8	147.5	143.8
60°	149.8	155.4	153.0	147.3	141.5	138.1
61°	143.9	148.6	146.4	141.2	135.8	132.9
62°	138.2	142.4	139.7	135.2	129.4	127.5
63°	132.0	135.9	133.8	129.1	123.9	121.9
64°	125.4	129.6	127.7	123.0	117.8	116.2
65°	118.9	122.6	121.3	116.8	112.2	110.0
66°	113.0	116.6	115.4	111.0	106.3	104.3
67°	107.4	110.4	109.4	105.1	100.9	99.1
68°	101.4	104.2	103.5	99.2	95.4	93.5
69°	95.2	98.0	97.6	93.3	89.6	87.7
70°	89.5	91.9	91.4	87.7	84.1	82.5
71°	84.2	86.1	86.0	82.3	78.9	77.5
72°	78.6	80.5	80.6	76.8	73.4	72.3
73°	73.2	75.0	75.0	71.5	68.3	66.9
74°	67.9	69.8	69.6	66.3	63.5	61.9
75°	62.9	64.5	64.3	61.1	58.5	57.5
76°	57.6	59.5	59.3	56.2	53.8	52.8
77°	52.3	54.4	54.3	51.4	49.3	48.1
78°	47.0	49.4	49.4	46.6	44.7	43.6
79°	42.1	44.6	44.6	41.8	40.1	39.4
80°	37.8	39.9	39.9	37.5	35.7	35.0
81°	33.4	35.3	35.4	33.2	31.5	30.6
82°	29.2	30.9	30.9	28.9	27.2	26.3
83°	24.9	26.4	26.5	24.9	23.0	22.2
84°	20.8	22.1	22.3	21.1	18.9	18.4
85°	16.8	18.0	18.3	17.2	15.3	14.9
86°	13.0	14.0	14.3	13.5	12.0	11.6
87°	9.3	10.1	10.4	9.9	8.9	8.4
88°	5.6	6.3	6.7	6.4	5.9	5.2
89°	3.1	3.5	3.7	3.3	3.0	2.1



TEST NUMBER: P284767
 CATALOG NUMBER: HLB6S09935

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: P284767
 CATALOG NUMBER: HLB6S09935

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°	0.7	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°	0.7	0.7	0.7	0.6	0.6	0.6
157°	0.7	0.7	0.7	0.7	0.7	0.7
158°	0.7	0.7	0.7	0.7	0.7	0.7
159°	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7
161°	0.7	0.7	0.7	0.7	0.7	0.7
162°	0.9	0.9	0.9	0.7	0.7	0.7
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: P284767
CATALOG NUMBER: HLB6S09935

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)