

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: P284765

Luminaire Tested: **HLB6S09927**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284765
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: HLB6S09927
Description: 6 IN SQUARE HALO BLADE (900 LUMEN) - 2700K
Light Source: -
Ballast/Driver: -

Summary

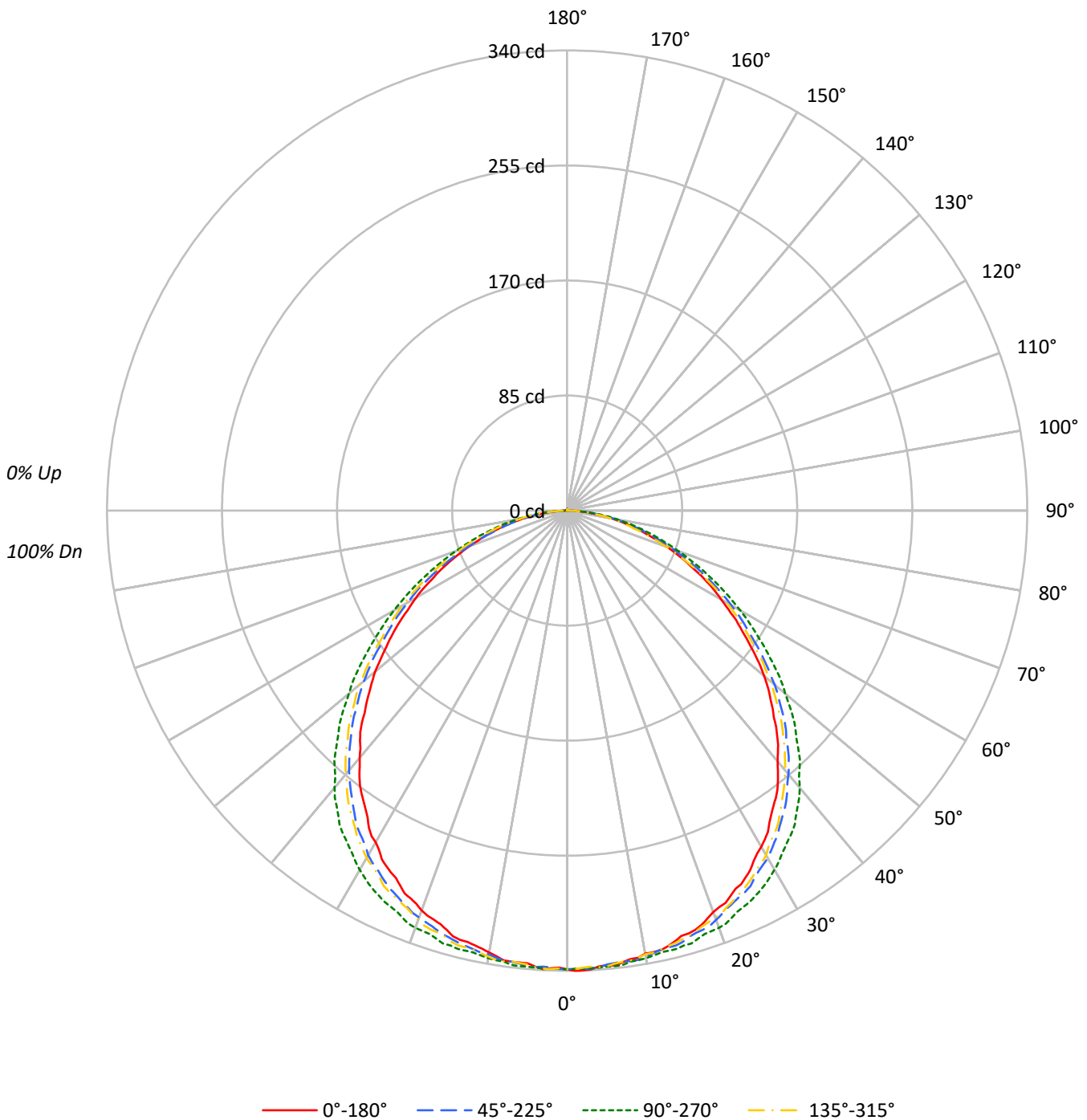
Lumens per Lamp: N/A
Luminaire Lumens: 953.8 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	18584	18584	18584	18584
5°	18550	18611	18479	18611
10°	18503	18693	18453	18693
15°	18473	18888	18485	18888
20°	18417	19135	18336	19135
25°	18418	19302	18116	19302
30°	18161	19395	17908	19395
35°	17802	19401	17554	19401
40°	17311	19136	17068	19136
45°	16754	18607	16420	18607
50°	16204	17944	15803	17944
55°	15283	17137	14958	17137
60°	14407	16205	14155	16205
65°	13581	15138	13296	15138
70°	12582	14025	12278	14025
75°	11586	13005	11289	13005
80°	10513	11996	10008	11996
85°	8932	10756	8240	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	3.4
10°-20°	92.9	9.7
20°-30°	142.8	15.0
30°-40°	172.5	18.1
40°-50°	174.7	18.3
50°-60°	150.3	15.8
60°-70°	108.6	11.4
70°-80°	60.1	6.3
80°-90°	17.3	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°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	267.8	28.1
0°-40°	440.3	46.2
0°-60°	765.3	80.2
0°-90°	951.4	99.7
90°-120°	0.9	0.1
90°-150°	1.8	0.2
90°-180°	2.0	0.2
0°-180°	953.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	339	339	339	339	339	
5°	337	338	336	338	337	32
15°	326	333	326	333	326	92
25°	304	319	300	319	304	140
35°	266	290	262	290	266	166
45°	216	240	212	240	216	167
55°	160	179	156	179	160	143
65°	105	117	102	117	105	104
75°	55	61	53	61	55	58
85°	14	17	13	17	14	15
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°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
1°	340.1	338.8	338.4	338.4	338.6	339.3	338.8	338.6	337.7	338.6	338.8
2°	340.1	338.9	338.9	338.2	338.6	338.6	337.9	338.8	338.3	338.8	337.9
3°	339.5	339.2	339.0	338.9	338.6	338.4	337.5	337.6	339.3	337.6	337.5
4°	337.6	337.4	338.1	338.3	338.5	338.0	338.2	336.9	337.7	336.9	338.2
5°	337.1	337.4	336.7	338.2	338.2	337.7	338.1	337.8	335.8	337.8	338.1
6°	338.0	337.4	336.1	338.3	338.4	337.3	336.6	337.2	335.8	337.2	336.6
7°	336.3	336.6	335.6	337.7	338.2	336.9	335.9	335.6	335.8	335.6	335.9
8°	334.7	335.2	336.2	336.1	336.5	336.6	335.6	334.5	335.6	334.5	335.6
9°	334.6	333.6	336.1	336.0	336.4	336.1	334.7	333.6	333.5	333.6	334.7
10°	332.4	333.0	334.7	335.9	335.8	335.0	333.0	332.7	331.5	332.7	333.0
11°	332.5	332.9	333.3	334.2	334.8	334.5	332.8	331.9	329.8	331.9	332.8
12°	332.0	331.5	331.6	333.9	333.8	333.9	331.5	329.9	328.3	329.9	331.5
13°	330.5	330.0	331.2	333.1	333.7	333.3	330.5	328.2	327.2	328.2	330.5
14°	328.2	328.7	331.3	332.1	333.8	332.4	329.4	327.5	326.9	327.5	329.4
15°	325.5	326.8	330.0	331.9	332.8	332.1	328.0	326.7	325.7	326.7	328.0
16°	325.1	325.5	327.5	331.8	332.8	331.0	326.6	323.8	322.4	323.8	326.6
17°	324.0	323.8	326.1	329.6	330.7	330.0	325.0	321.5	319.7	321.5	325.0
18°	321.8	322.2	325.6	328.5	328.9	328.1	323.0	319.3	318.0	319.3	323.0
19°	318.7	320.1	324.3	327.7	328.4	325.9	321.5	318.6	316.7	318.6	321.5
20°	315.7	317.5	321.9	326.6	328.0	325.9	320.0	316.6	314.3	316.6	320.0
21°	313.7	315.1	319.2	324.4	327.0	324.2	318.4	313.3	311.2	313.3	318.4
22°	312.6	313.2	316.6	321.6	324.6	321.8	315.7	310.0	309.0	310.0	315.7
23°	309.2	310.7	314.5	320.7	322.0	319.0	313.5	307.6	307.3	307.6	313.5
24°	305.9	307.9	312.6	319.8	320.5	317.5	310.9	305.8	303.3	305.8	310.9
25°	304.5	305.2	311.0	316.7	319.1	316.0	308.7	302.7	299.5	302.7	308.7
26°	301.2	302.2	308.8	313.6	316.8	313.3	305.9	298.2	297.4	298.2	305.9
27°	298.1	298.3	304.8	311.5	314.8	309.8	302.8	296.2	294.6	296.2	302.8
28°	293.4	295.1	301.6	309.7	312.3	307.0	299.5	292.8	291.7	292.8	299.5
29°	289.7	292.3	298.9	306.3	309.4	305.4	297.2	288.8	286.7	288.8	297.2
30°	286.9	289.0	296.4	303.6	306.4	303.0	294.1	285.6	282.9	285.6	294.1
31°	283.5	285.7	292.7	300.3	303.3	298.9	289.2	282.1	280.5	282.1	289.2
32°	280.0	281.7	289.1	297.0	299.3	294.7	285.6	277.0	276.5	277.0	285.6
33°	274.6	277.3	285.5	293.9	296.0	290.8	282.6	272.8	270.8	272.8	282.6
34°	269.9	272.4	281.0	289.6	292.7	287.5	278.9	269.4	266.2	269.4	278.9
35°	266.0	269.3	276.9	284.8	289.9	284.1	273.9	265.3	262.3	265.3	273.9
36°	262.3	265.5	273.1	281.4	286.2	280.6	269.3	260.6	258.4	260.6	269.3
37°	258.1	260.0	268.9	277.9	281.1	275.4	264.5	256.3	254.3	256.3	264.5
38°	252.9	254.6	264.1	273.0	276.8	270.1	260.1	251.9	249.3	251.9	260.1
39°	247.4	250.9	258.6	267.9	272.7	266.1	255.3	246.9	243.5	246.9	255.3
40°	241.9	246.6	254.3	264.0	267.4	261.4	250.8	241.2	238.5	241.2	250.8
41°	237.3	240.3	249.7	257.6	261.2	256.2	245.4	235.7	232.9	235.7	245.4
42°	233.0	234.9	244.6	252.4	256.6	250.8	240.4	230.5	228.7	230.5	240.4
43°	227.7	230.3	238.9	247.2	252.3	246.2	235.1	226.1	224.1	226.1	235.1
44°	222.3	225.7	233.1	242.1	246.1	240.4	229.6	220.7	218.5	220.7	229.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	216.1	219.7	228.5	236.7	240.0	234.4	224.5	214.9	211.8	214.9	224.5
46°	211.3	214.1	223.4	231.7	234.7	229.6	219.1	209.5	206.4	209.5	219.1
47°	205.7	208.8	217.2	226.1	229.7	223.0	212.6	204.5	200.9	204.5	212.6
48°	200.9	203.2	211.2	219.8	223.4	217.5	207.2	199.0	195.5	199.0	207.2
49°	195.6	197.6	206.1	213.1	216.7	211.6	201.9	192.9	190.3	192.9	201.9
50°	190.0	192.1	200.0	207.2	210.4	205.5	195.8	187.1	185.3	187.1	195.8
51°	184.3	186.3	193.6	201.7	205.0	198.9	189.8	182.0	179.0	182.0	189.8
52°	178.2	180.2	187.8	195.0	199.1	192.6	184.2	175.8	173.0	175.8	184.2
53°	171.9	174.8	181.5	188.3	192.3	186.3	178.1	169.7	167.3	169.7	178.1
54°	165.7	169.5	175.6	182.1	185.6	179.7	171.4	163.9	161.9	163.9	171.4
55°	159.9	163.7	169.1	176.0	179.3	173.4	165.2	158.6	156.5	158.6	165.2
56°	154.2	157.5	162.9	169.6	172.7	167.3	159.2	152.5	151.1	152.5	159.2
57°	149.0	151.8	157.5	162.9	166.5	161.1	153.7	147.2	145.2	147.2	153.7
58°	142.5	146.4	151.9	157.0	160.2	155.0	148.3	141.6	139.2	141.6	148.3
59°	136.8	140.3	146.3	151.5	154.2	148.8	142.0	136.1	134.1	136.1	142.0
60°	131.4	134.7	140.1	145.6	147.8	142.6	136.1	130.1	129.1	130.1	136.1
61°	126.5	129.2	134.4	139.3	141.4	136.9	130.7	125.3	123.9	125.3	130.7
62°	121.3	123.1	128.6	133.0	135.5	131.5	125.4	119.4	118.2	119.4	125.4
63°	115.9	117.9	122.8	127.3	129.3	125.6	119.2	113.2	112.4	113.2	119.2
64°	110.6	112.1	117.1	121.5	123.3	119.3	113.2	107.8	107.6	107.8	113.2
65°	104.7	106.7	111.2	115.4	116.7	113.1	107.4	102.5	102.5	102.5	107.4
66°	99.2	101.2	105.6	109.8	111.0	107.5	101.4	96.7	97.1	96.7	101.4
67°	94.3	96.0	100.0	104.1	105.0	102.2	95.6	90.9	91.9	90.9	95.6
68°	89.0	90.7	94.4	98.5	99.1	96.5	89.6	85.2	86.8	85.2	89.6
69°	83.4	85.3	88.8	92.9	93.3	90.6	83.6	79.8	81.6	79.8	83.6
70°	78.5	80.0	83.4	87.0	87.5	85.2	77.8	74.5	76.6	74.5	77.8
71°	73.7	75.0	78.3	81.8	81.9	80.1	72.0	69.4	71.5	69.4	72.0
72°	68.8	69.9	73.1	76.7	76.6	74.8	66.6	64.2	66.9	64.2	66.6
73°	63.7	65.0	68.0	71.4	71.4	69.7	61.2	59.2	62.6	59.2	61.2
74°	58.9	60.5	63.1	66.2	66.4	64.6	56.1	54.4	57.9	54.4	56.1
75°	54.7	55.7	58.1	61.2	61.4	59.8	51.1	49.8	53.3	49.8	51.1
76°	50.2	51.2	53.5	56.4	56.6	54.8	47.5	45.6	48.9	45.6	47.5
77°	45.8	46.9	48.9	51.6	51.7	49.7	43.3	41.6	44.5	41.6	43.3
78°	41.5	42.5	44.4	47.0	47.0	44.8	39.5	37.7	40.0	37.7	39.5
79°	37.5	38.2	39.8	42.4	42.4	40.1	35.5	33.8	35.7	33.8	35.5
80°	33.3	33.9	35.6	38.0	38.0	35.9	31.7	30.1	31.7	30.1	31.7
81°	29.2	30.0	31.6	33.7	33.6	31.8	28.0	26.3	27.6	26.3	28.0
82°	25.0	25.9	27.5	29.4	29.4	27.7	24.5	22.6	23.6	22.6	24.5
83°	21.2	21.9	23.7	25.2	25.1	23.7	21.1	18.8	19.7	18.8	21.1
84°	17.5	18.0	20.0	21.3	21.1	19.7	17.6	15.3	16.2	15.3	17.6
85°	14.2	14.6	16.4	17.4	17.1	16.0	14.2	12.3	13.1	12.3	14.2
86°	11.0	11.4	12.9	13.6	13.4	12.4	10.8	9.3	10.1	9.3	10.8
87°	8.0	8.5	9.4	9.9	9.6	8.8	7.6	6.6	7.2	6.6	7.6
88°	5.0	5.6	6.1	6.4	6.0	5.4	4.5	3.8	4.4	3.8	4.5
89°	2.0	2.8	3.1	3.5	3.3	2.9	2.2	1.6	1.7	1.6	2.2



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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	1.1	1.5	1.8	1.6	1.3	0.9	0.6	0.4	0.6	0.9
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: P284765
 CATALOG NUMBER: HLB6S09927

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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
163°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
164°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
166°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.9
167°	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
171°	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	1.0	1.0
172°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
173°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
174°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
176°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177°	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
178°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
179°	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P284765
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P284765
 CATALOG NUMBER: HLB6S09927

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	339.0	339.0	339.0	339.0	339.0	339.0
1°	339.3	338.6	338.4	338.4	338.8	340.1
2°	338.6	338.6	338.2	338.9	338.9	340.1
3°	338.4	338.6	338.9	339.0	339.2	339.5
4°	338.0	338.5	338.3	338.1	337.4	337.6
5°	337.7	338.2	338.2	336.7	337.4	337.1
6°	337.3	338.4	338.3	336.1	337.4	338.0
7°	336.9	338.2	337.7	335.6	336.6	336.3
8°	336.6	336.5	336.1	336.2	335.2	334.7
9°	336.1	336.4	336.0	336.1	333.6	334.6
10°	335.0	335.8	335.9	334.7	333.0	332.4
11°	334.5	334.8	334.2	333.3	332.9	332.5
12°	333.9	333.8	333.9	331.6	331.5	332.0
13°	333.3	333.7	333.1	331.2	330.0	330.5
14°	332.4	333.8	332.1	331.3	328.7	328.2
15°	332.1	332.8	331.9	330.0	326.8	325.5
16°	331.0	332.8	331.8	327.5	325.5	325.1
17°	330.0	330.7	329.6	326.1	323.8	324.0
18°	328.1	328.9	328.5	325.6	322.2	321.8
19°	325.9	328.4	327.7	324.3	320.1	318.7
20°	325.9	328.0	326.6	321.9	317.5	315.7
21°	324.2	327.0	324.4	319.2	315.1	313.7
22°	321.8	324.6	321.6	316.6	313.2	312.6
23°	319.0	322.0	320.7	314.5	310.7	309.2
24°	317.5	320.5	319.8	312.6	307.9	305.9
25°	316.0	319.1	316.7	311.0	305.2	304.5
26°	313.3	316.8	313.6	308.8	302.2	301.2
27°	309.8	314.8	311.5	304.8	298.3	298.1
28°	307.0	312.3	309.7	301.6	295.1	293.4
29°	305.4	309.4	306.3	298.9	292.3	289.7
30°	303.0	306.4	303.6	296.4	289.0	286.9
31°	298.9	303.3	300.3	292.7	285.7	283.5
32°	294.7	299.3	297.0	289.1	281.7	280.0
33°	290.8	296.0	293.9	285.5	277.3	274.6
34°	287.5	292.7	289.6	281.0	272.4	269.9
35°	284.1	289.9	284.8	276.9	269.3	266.0
36°	280.6	286.2	281.4	273.1	265.5	262.3
37°	275.4	281.1	277.9	268.9	260.0	258.1
38°	270.1	276.8	273.0	264.1	254.6	252.9
39°	266.1	272.7	267.9	258.6	250.9	247.4
40°	261.4	267.4	264.0	254.3	246.6	241.9
41°	256.2	261.2	257.6	249.7	240.3	237.3
42°	250.8	256.6	252.4	244.6	234.9	233.0
43°	246.2	252.3	247.2	238.9	230.3	227.7
44°	240.4	246.1	242.1	233.1	225.7	222.3



TEST NUMBER: P284765
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	234.4	240.0	236.7	228.5	219.7	216.1
46°	229.6	234.7	231.7	223.4	214.1	211.3
47°	223.0	229.7	226.1	217.2	208.8	205.7
48°	217.5	223.4	219.8	211.2	203.2	200.9
49°	211.6	216.7	213.1	206.1	197.6	195.6
50°	205.5	210.4	207.2	200.0	192.1	190.0
51°	198.9	205.0	201.7	193.6	186.3	184.3
52°	192.6	199.1	195.0	187.8	180.2	178.2
53°	186.3	192.3	188.3	181.5	174.8	171.9
54°	179.7	185.6	182.1	175.6	169.5	165.7
55°	173.4	179.3	176.0	169.1	163.7	159.9
56°	167.3	172.7	169.6	162.9	157.5	154.2
57°	161.1	166.5	162.9	157.5	151.8	149.0
58°	155.0	160.2	157.0	151.9	146.4	142.5
59°	148.8	154.2	151.5	146.3	140.3	136.8
60°	142.6	147.8	145.6	140.1	134.7	131.4
61°	136.9	141.4	139.3	134.4	129.2	126.5
62°	131.5	135.5	133.0	128.6	123.1	121.3
63°	125.6	129.3	127.3	122.8	117.9	115.9
64°	119.3	123.3	121.5	117.1	112.1	110.6
65°	113.1	116.7	115.4	111.2	106.7	104.7
66°	107.5	111.0	109.8	105.6	101.2	99.2
67°	102.2	105.0	104.1	100.0	96.0	94.3
68°	96.5	99.1	98.5	94.4	90.7	89.0
69°	90.6	93.3	92.9	88.8	85.3	83.4
70°	85.2	87.5	87.0	83.4	80.0	78.5
71°	80.1	81.9	81.8	78.3	75.0	73.7
72°	74.8	76.6	76.7	73.1	69.9	68.8
73°	69.7	71.4	71.4	68.0	65.0	63.7
74°	64.6	66.4	66.2	63.1	60.5	58.9
75°	59.8	61.4	61.2	58.1	55.7	54.7
76°	54.8	56.6	56.4	53.5	51.2	50.2
77°	49.7	51.7	51.6	48.9	46.9	45.8
78°	44.8	47.0	47.0	44.4	42.5	41.5
79°	40.1	42.4	42.4	39.8	38.2	37.5
80°	35.9	38.0	38.0	35.6	33.9	33.3
81°	31.8	33.6	33.7	31.6	30.0	29.2
82°	27.7	29.4	29.4	27.5	25.9	25.0
83°	23.7	25.1	25.2	23.7	21.9	21.2
84°	19.7	21.1	21.3	20.0	18.0	17.5
85°	16.0	17.1	17.4	16.4	14.6	14.2
86°	12.4	13.4	13.6	12.9	11.4	11.0
87°	8.8	9.6	9.9	9.4	8.5	8.0
88°	5.4	6.0	6.4	6.1	5.6	5.0
89°	2.9	3.3	3.5	3.1	2.8	2.0



TEST NUMBER: P284765
 CATALOG NUMBER: HLB6S09927

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.3	1.6	1.8	1.5	1.1	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: P284765
 CATALOG NUMBER: HLB6S09927

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°	0.8	0.8	0.8	0.7	0.7	0.7
163°	0.8	0.8	0.8	0.8	0.8	0.8
164°	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8
166°	0.8	0.8	0.8	0.8	0.8	0.8
167°	0.9	0.9	0.9	0.9	0.8	0.9
168°	0.9	0.9	0.9	0.9	0.9	0.9
169°	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.9	0.9	0.9	0.9	0.9	0.9
171°	0.9	0.9	0.9	0.9	0.9	1.0
172°	1.0	1.0	1.0	1.0	1.0	1.0
173°	1.0	1.0	1.0	1.0	1.0	1.0
174°	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.0	1.0	1.0	1.0	1.0	1.0
176°	1.0	1.0	1.0	1.0	1.0	1.0
177°	1.0	1.0	1.0	1.0	1.0	1.1
178°	1.0	1.0	1.0	1.0	1.0	1.0
179°	1.0	1.0	1.0	1.0	1.0	1.1



TEST NUMBER: P284765
CATALOG NUMBER: HLB6S09927

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)