

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P1431932

Luminaire Tested: **HSLBKMW-3000K**

Issue Date: 3/16/2026



Test Information

Test Method: LM-79-08
Report Number: P1431932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (UTU2511015E-B)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HSLBKMW-3000K
Description: Marker (Default)

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

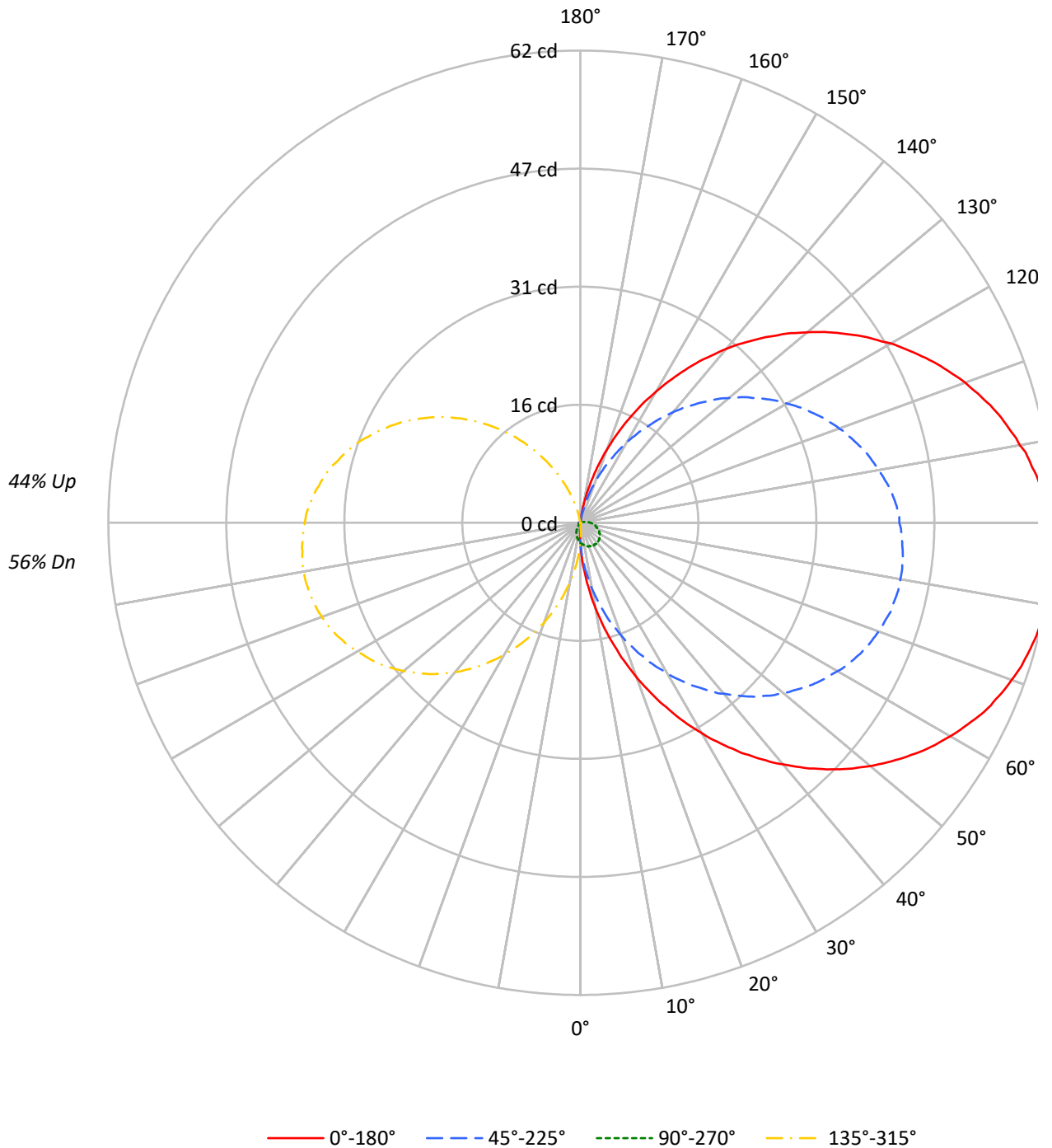
Summary

Lumens per Lamp: 175.6 (1 lamp)
Luminaire Lumens: 170.0 lumens
Efficiency: 96.8%
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 5.33 / 1.22 / 4.16
Luminous Opening: Rectangular (W 0.32' x L: 0.76' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 3.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.9
Total Harmonic Distortion (THDi): <20
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot

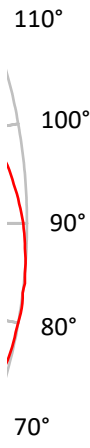




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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

	RF	20		20		20		20		20		20		20		20		
	RC	80		70		50		30		10		50		30		10		
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
	RCR																	
0°	0	105	105	105	105	98	98	98	98	84	84	84	71	71	71	59	59	59
	1	90	83	77	72	83	77	71	67	65	60	57	54	50	47	43	41	39
	2	80	69	61	54	73	64	56	50	53	47	42	44	39	35	35	31	28
	3	71	59	50	42	65	54	46	39	45	38	33	37	31	27	29	25	21
	4	64	51	41	34	59	47	38	32	39	32	26	32	26	22	25	20	17
	5	58	45	35	28	53	41	32	26	34	27	22	28	22	18	22	17	14
	6	53	40	30	24	49	36	28	22	30	23	18	25	19	15	19	15	11
	7	49	35	26	20	45	32	24	19	27	20	15	22	17	12	17	13	10
	8	45	32	23	17	41	29	21	16	24	18	13	20	15	11	16	11	8
	9	42	29	21	15	39	26	19	14	22	16	12	18	13	9	14	10	7
	10	39	26	18	13	36	24	17	12	20	14	10	17	12	8	13	9	6



AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	117	117	117	117
5°	298	126	0	108
10°	516	137	0	96
15°	759	149	0	84
20°	1034	158	0	72
25°	1325	169	0	60
30°	1657	182	0	42
35°	2026	187	0	27
40°	2431	200	0	18
45°	2914	216	0	6
50°	3478	231	0	0
55°	4165	243	0	0
60°	5047	261	0	0
65°	6238	287	0	0
70°	7931	329	0	0
75°	10689	382	0	0
80°	16061	518	26	0
85°	32001	826	52	0



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ZONAL LUMENS:					CANDELA DISTRIBUTION:					
20	Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°
0	0°-10°	0.3	0.2	0.2	0°	3	3	3	3	3
0	10°-20°	1.6	1.0	0.9	5°	7	3	0	2	7
	20°-30°	4.0	2.3	2.3	15°	16	3	0	2	16
54	30°-40°	7.2	4.2	4.1	25°	27	3	0	1	27
33	40°-50°	10.8	6.4	6.2	35°	37	3	0	0	37
23	50°-60°	14.3	8.4	8.2	45°	46	3	0	0	46
17	60°-70°	17.3	10.2	9.8	55°	53	3	0	0	53
13	70°-80°	19.2	11.3	10.9	65°	59	3	0	0	59
10	80°-90°	19.9	11.7	11.3	75°	62	2	0	0	62
8	90°-100°	19.2	11.3	10.9	85°	62	2	0	0	62
7	100°-110°	17.2	10.1	9.8	90°	62	1	0	0	62
6	110°-120°	14.3	8.4	8.1	95°	60	1	0	0	60
5	120°-130°	10.9	6.4	6.2	105°	56	0	0	0	56
4	130°-140°	7.4	4.3	4.2	115°	51	0	0	0	51
	140°-150°	4.2	2.5	2.4	125°	43	0	0	0	43
	150°-160°	1.8	1.1	1.0	135°	34	0	0	0	34
	160°-170°	0.4	0.2	0.2	145°	25	0	0	0	25
	170°-180°	0.0	0.0	0.0	155°	15	0	0	0	15
	0°-30°	5.9	3.5	3.4	165°	6	0	0	0	6
	0°-40°	13.1	7.7	7.5	175°	0	0	0	0	0
	0°-60°	38.3	22.5	21.8	180°	0	0	0	0	0
	0°-90°	94.6	55.7	53.9						
	90°-120°	50.7	29.8	28.8						
	90°-150°	73.1	43.0	41.6						
	90°-180°	75.0	44.1	42.7						
	0°-180°	170.0	100.0	96.8						



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CANDELA DISTRIBUTION (FULL):

Flux		0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°
	0°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
1	1°	3.4	3.3	3.2	2.9	2.6	2.4	2.1	1.9	1.9	1.8
5	2°	4.2	4.0	3.7	3.3	2.7	2.1	1.7	1.3	1.2	1.2
13	3°	4.9	4.8	4.3	3.6	2.7	1.9	1.2	0.7	0.5	0.6
23	4°	5.7	5.5	4.9	4.0	2.8	1.7	0.7	0.3	0.1	0.2
35	5°	6.6	6.4	5.5	4.3	2.8	1.5	0.4	0.0	0.0	0.0
48	6°	7.6	7.2	6.1	4.6	2.9	1.2	0.2	0.0	0.0	0.0
58	7°	8.4	8.1	6.7	5.0	2.9	1.0	0.0	0.0	0.0	0.0
65	8°	9.4	9.0	7.4	5.4	2.9	0.8	0.0	0.0	0.0	0.0
51	9°	10.4	9.8	8.1	5.7	3.0	0.6	0.0	0.0	0.0	0.0
34	10°	11.3	10.8	8.8	6.1	3.0	0.4	0.0	0.0	0.0	0.0
49	11°	12.3	11.7	9.4	6.4	3.0	0.3	0.0	0.0	0.0	0.0
60	12°	13.3	12.5	10.1	6.8	3.1	0.2	0.0	0.0	0.0	0.0
50	13°	14.3	13.6	10.9	7.1	3.1	0.0	0.0	0.0	0.0	0.0
39	14°	15.3	14.5	11.5	7.5	3.1	0.0	0.0	0.0	0.0	0.0
27	15°	16.3	15.4	12.2	7.9	3.2	0.0	0.0	0.0	0.0	0.0
16	16°	17.3	16.4	13.0	8.3	3.2	0.0	0.0	0.0	0.0	0.0
7	17°	18.5	17.4	13.7	8.7	3.2	0.0	0.0	0.0	0.0	0.0
2	18°	19.4	18.3	14.3	9.0	3.3	0.0	0.0	0.0	0.0	0.0
0	19°	20.5	19.3	15.0	9.4	3.3	0.0	0.0	0.0	0.0	0.0
	20°	21.6	20.3	15.8	9.7	3.3	0.0	0.0	0.0	0.0	0.0
	21°	22.6	21.3	16.6	10.1	3.3	0.0	0.0	0.0	0.0	0.0
	22°	23.6	22.2	17.2	10.5	3.3	0.0	0.0	0.0	0.0	0.0
	23°	24.7	23.2	17.9	10.9	3.3	0.0	0.0	0.0	0.0	0.0
	24°	25.8	24.2	18.7	11.2	3.4	0.0	0.0	0.0	0.0	0.0
	25°	26.7	25.2	19.3	11.5	3.4	0.0	0.0	0.0	0.0	0.0
	26°	27.8	26.1	20.1	12.0	3.4	0.0	0.0	0.0	0.0	0.0
	27°	28.9	27.1	20.8	12.3	3.4	0.0	0.0	0.0	0.0	0.0
	28°	29.9	28.0	21.5	12.6	3.4	0.0	0.0	0.0	0.0	0.0
	29°	30.9	28.9	22.1	13.0	3.4	0.0	0.0	0.0	0.0	0.0
	30°	31.9	29.9	22.8	13.3	3.5	0.0	0.0	0.0	0.0	0.0
	31°	33.0	30.9	23.6	13.7	3.4	0.0	0.0	0.0	0.0	0.0
	32°	33.9	31.8	24.2	14.0	3.4	0.0	0.0	0.0	0.0	0.0
	33°	34.9	32.8	24.9	14.4	3.5	0.0	0.0	0.0	0.0	0.0
	34°	35.8	33.6	25.6	14.7	3.4	0.0	0.0	0.0	0.0	0.0
	35°	36.9	34.5	26.2	15.0	3.4	0.0	0.0	0.0	0.0	0.0
	36°	37.7	35.3	26.8	15.3	3.4	0.0	0.0	0.0	0.0	0.0
	37°	38.7	36.3	27.5	15.7	3.5	0.0	0.0	0.0	0.0	0.0
	38°	39.6	37.1	28.1	15.9	3.4	0.0	0.0	0.0	0.0	0.0
	39°	40.6	38.0	28.8	16.2	3.4	0.0	0.0	0.0	0.0	0.0
	40°	41.4	38.8	29.3	16.5	3.4	0.0	0.0	0.0	0.0	0.0
	41°	42.3	39.6	29.9	16.8	3.4	0.0	0.0	0.0	0.0	0.0
	42°	43.2	40.5	30.5	17.1	3.4	0.0	0.0	0.0	0.0	0.0
	43°	44.1	41.2	31.1	17.4	3.4	0.0	0.0	0.0	0.0	0.0
	44°	44.9	42.0	31.7	17.7	3.4	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°
2.6	45°	45.8	42.8	32.3	18.0	3.4	0.0	0.0	0.0	0.0
2.1	46°	46.6	43.5	32.8	18.2	3.3	0.0	0.0	0.0	0.0
1.5	47°	47.4	44.3	33.3	18.4	3.3	0.0	0.0	0.0	0.0
1.0	48°	48.2	45.0	33.9	18.7	3.3	0.0	0.0	0.0	0.0
0.6	49°	48.9	45.7	34.3	19.0	3.3	0.0	0.0	0.0	0.0
0.3	50°	49.7	46.4	34.8	19.2	3.3	0.0	0.0	0.0	0.0
0.0	51°	50.4	47.0	35.3	19.4	3.2	0.0	0.0	0.0	0.0
0.0	52°	51.1	47.7	35.7	19.6	3.2	0.0	0.0	0.0	0.0
0.0	53°	51.8	48.4	36.2	19.9	3.2	0.0	0.0	0.0	0.0
0.0	54°	52.5	49.0	36.6	20.0	3.1	0.0	0.0	0.0	0.0
0.0	55°	53.1	49.5	37.1	20.2	3.1	0.0	0.0	0.0	0.0
0.0	56°	53.8	50.2	37.5	20.4	3.1	0.0	0.0	0.0	0.0
0.0	57°	54.4	50.8	37.9	20.5	3.0	0.0	0.0	0.0	0.0
0.0	58°	55.0	51.3	38.3	20.7	3.0	0.0	0.0	0.0	0.0
0.0	59°	55.5	51.8	38.6	20.9	3.0	0.0	0.0	0.0	0.0
0.0	60°	56.1	52.3	39.0	21.0	2.9	0.0	0.0	0.0	0.0
0.0	61°	56.6	52.8	39.4	21.2	2.9	0.0	0.0	0.0	0.0
0.0	62°	57.1	53.3	39.7	21.3	2.9	0.0	0.0	0.0	0.0
0.0	63°	57.6	53.7	40.0	21.5	2.8	0.0	0.0	0.0	0.0
0.0	64°	58.1	54.1	40.3	21.6	2.8	0.0	0.0	0.0	0.0
0.0	65°	58.6	54.5	40.6	21.7	2.7	0.0	0.0	0.0	0.0
0.0	66°	59.0	54.9	40.8	21.8	2.7	0.0	0.0	0.0	0.0
0.0	67°	59.3	55.3	41.1	21.8	2.6	0.0	0.0	0.0	0.0
0.0	68°	59.7	55.6	41.3	21.9	2.6	0.0	0.0	0.0	0.0
0.0	69°	60.0	55.9	41.5	22.0	2.6	0.0	0.0	0.0	0.0
0.0	70°	60.3	56.2	41.7	22.1	2.5	0.0	0.0	0.0	0.0
0.0	71°	60.6	56.5	41.9	22.2	2.4	0.0	0.0	0.0	0.0
0.0	72°	60.9	56.7	42.0	22.2	2.4	0.0	0.0	0.0	0.0
0.0	73°	61.1	56.9	42.2	22.3	2.3	0.0	0.0	0.0	0.0
0.0	74°	61.3	57.1	42.4	22.3	2.3	0.0	0.0	0.0	0.0
0.0	75°	61.5	57.3	42.4	22.3	2.2	0.0	0.0	0.0	0.1
0.0	76°	61.7	57.4	42.5	22.4	2.2	0.0	0.0	0.0	0.0
0.0	77°	61.8	57.5	42.6	22.3	2.1	0.0	0.0	0.0	0.0
0.0	78°	61.9	57.6	42.7	22.4	2.1	0.0	0.0	0.1	0.1
0.0	79°	61.9	57.7	42.7	22.3	2.0	0.0	0.0	0.1	0.1
0.0	80°	62.0	57.8	42.7	22.3	2.0	0.0	0.0	0.1	0.1
0.1	81°	62.1	57.8	42.7	22.2	1.9	0.0	0.1	0.1	0.1
0.0	82°	62.1	57.8	42.7	22.2	1.8	0.0	0.1	0.2	0.1
0.0	83°	62.0	57.7	42.6	22.1	1.8	0.0	0.1	0.1	0.1
0.0	84°	62.1	57.7	42.6	22.1	1.7	0.0	0.1	0.2	0.1
0.0	85°	62.0	57.7	42.5	22.0	1.6	0.0	0.1	0.1	0.1
0.0	86°	62.0	57.6	42.4	21.9	1.6	0.0	0.1	0.1	0.0
0.0	87°	61.9	57.6	42.3	21.8	1.5	0.0	0.1	0.1	0.1
0.1	88°	61.8	57.5	42.2	21.7	1.5	0.0	0.1	0.1	0.0
0.0	89°	61.7	57.3	42.1	21.6	1.4	0.0	0.1	0.1	0.0



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CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°
0.0	90°	61.6	57.2	41.9	21.4	1.3	0.0	0.1	0.1	0.1
0.0	91°	61.4	57.0	41.9	21.3	1.3	0.0	0.1	0.1	0.2
0.0	92°	61.2	56.8	41.7	21.3	1.2	0.0	0.1	0.1	0.2
0.0	93°	61.0	56.6	41.6	21.1	1.1	0.0	0.1	0.1	0.1
0.0	94°	60.7	56.4	41.4	21.0	1.1	0.0	0.1	0.1	0.2
0.0	95°	60.5	56.1	41.2	20.8	1.0	0.0	0.1	0.1	0.2
0.0	96°	60.2	55.8	41.0	20.6	1.0	0.0	0.1	0.1	0.1
0.0	97°	59.8	55.5	40.7	20.5	0.9	0.0	0.1	0.1	0.2
0.0	98°	59.5	55.2	40.4	20.3	0.8	0.0	0.1	0.1	0.1
0.0	99°	59.2	54.9	40.1	20.1	0.8	0.0	0.1	0.1	0.1
0.0	100°	58.6	54.6	39.8	19.9	0.7	0.0	0.0	0.1	0.1
0.0	101°	58.3	54.2	39.5	19.7	0.6	0.0	0.0	0.1	0.1
0.1	102°	57.8	53.7	39.2	19.5	0.6	0.0	0.0	0.1	0.1
0.0	103°	57.4	53.3	38.9	19.3	0.5	0.0	0.0	0.1	0.1
0.0	104°	57.0	52.9	38.6	19.1	0.5	0.0	0.0	0.1	0.1
0.0	105°	56.5	52.4	38.2	18.8	0.4	0.0	0.0	0.1	0.0
0.0	106°	56.0	51.9	37.8	18.6	0.3	0.0	0.0	0.1	0.1
0.0	107°	55.4	51.4	37.4	18.3	0.3	0.0	0.0	0.1	0.1
0.0	108°	54.9	50.9	37.0	18.1	0.3	0.0	0.0	0.1	0.0
0.1	109°	54.3	50.4	36.7	17.8	0.2	0.0	0.0	0.1	0.0
0.0	110°	53.8	49.8	36.2	17.6	0.2	0.0	0.0	0.1	0.0
0.1	111°	53.2	49.3	35.8	17.3	0.2	0.0	0.0	0.1	0.0
0.0	112°	52.5	48.7	35.3	17.0	0.1	0.0	0.0	0.0	0.0
0.0	113°	51.9	48.1	34.9	16.7	0.1	0.0	0.0	0.0	0.0
0.0	114°	51.3	47.5	34.4	16.5	0.0	0.0	0.0	0.0	0.0
0.0	115°	50.6	47.0	33.9	16.2	0.0	0.0	0.0	0.0	0.0
0.1	116°	49.9	46.3	33.4	15.9	0.0	0.0	0.0	0.1	0.0
0.0	117°	49.2	45.6	33.0	15.6	0.0	0.0	0.0	0.0	0.0
0.0	118°	48.5	44.9	32.4	15.3	0.0	0.0	0.0	0.0	0.0
0.0	119°	47.8	44.3	31.9	15.0	0.0	0.0	0.0	0.0	0.0
0.0	120°	47.1	43.6	31.3	14.6	0.0	0.0	0.0	0.0	0.0
0.0	121°	46.2	42.9	30.8	14.3	0.0	0.0	0.0	0.0	0.0
0.0	122°	45.5	42.2	30.3	14.0	0.0	0.0	0.0	0.0	0.0
0.0	123°	44.8	41.5	29.7	13.7	0.0	0.0	0.0	0.0	0.0
0.1	124°	44.0	40.7	29.1	13.3	0.0	0.0	0.0	0.0	0.0
0.0	125°	43.1	39.9	28.5	13.0	0.0	0.0	0.0	0.0	0.0
0.0	126°	42.3	39.2	27.9	12.7	0.0	0.0	0.0	0.0	0.0
0.1	127°	41.5	38.4	27.4	12.3	0.0	0.0	0.0	0.0	0.0
0.1	128°	40.7	37.6	26.8	12.0	0.0	0.0	0.0	0.0	0.0
0.1	129°	39.8	36.8	26.1	11.6	0.0	0.0	0.0	0.0	0.0
0.1	130°	38.9	36.0	25.5	11.3	0.0	0.0	0.0	0.0	0.0
0.1	131°	38.0	35.2	24.9	11.0	0.0	0.0	0.0	0.0	0.0
0.1	132°	37.2	34.4	24.3	10.5	0.0	0.0	0.0	0.0	0.0
0.1	133°	36.3	33.5	23.6	10.2	0.0	0.0	0.0	0.0	0.0
0.1	134°	35.3	32.6	22.9	9.9	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431932

CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°
0.1	135°	34.5	31.8	22.3	9.6	0.0	0.0	0.0	0.0	0.0
0.1	136°	33.5	30.9	21.6	9.2	0.0	0.0	0.0	0.0	0.0
0.2	137°	32.6	30.0	20.9	8.8	0.0	0.0	0.0	0.0	0.0
0.1	138°	31.7	29.2	20.4	8.5	0.0	0.0	0.0	0.0	0.0
0.1	139°	30.8	28.2	19.6	8.1	0.0	0.0	0.0	0.0	0.0
0.1	140°	29.8	27.4	19.0	7.8	0.0	0.0	0.0	0.0	0.0
0.2	141°	28.8	26.5	18.3	7.4	0.0	0.0	0.0	0.0	0.0
0.2	142°	27.8	25.6	17.6	7.1	0.0	0.0	0.0	0.0	0.0
0.1	143°	26.9	24.6	16.9	6.7	0.0	0.0	0.0	0.0	0.0
0.0	144°	25.9	23.7	16.2	6.4	0.0	0.0	0.0	0.0	0.0
0.1	145°	24.9	22.8	15.5	6.0	0.0	0.0	0.0	0.0	0.0
0.0	146°	23.9	21.9	14.9	5.6	0.0	0.0	0.0	0.0	0.0
0.1	147°	22.9	21.0	14.2	5.3	0.0	0.0	0.0	0.0	0.0
0.1	148°	21.9	20.1	13.5	5.0	0.0	0.0	0.0	0.0	0.0
0.1	149°	20.9	19.1	12.8	4.7	0.0	0.0	0.0	0.0	0.0
0.1	150°	19.9	18.2	12.1	4.3	0.0	0.0	0.0	0.0	0.0
0.0	151°	18.9	17.3	11.5	3.9	0.0	0.0	0.0	0.0	0.0
0.1	152°	18.0	16.3	10.8	3.7	0.0	0.0	0.0	0.0	0.0
0.0	153°	17.0	15.4	10.1	3.4	0.0	0.0	0.0	0.0	0.0
0.0	154°	16.0	14.5	9.4	3.0	0.0	0.0	0.0	0.0	0.0
0.0	155°	15.0	13.6	8.8	2.7	0.0	0.0	0.0	0.0	0.0
0.0	156°	14.1	12.7	8.2	2.4	0.0	0.0	0.0	0.0	0.0
0.0	157°	13.1	11.9	7.5	2.0	0.0	0.0	0.0	0.0	0.0
0.0	158°	12.2	11.0	7.0	1.8	0.0	0.0	0.0	0.0	0.0
0.0	159°	11.1	10.1	6.3	1.5	0.0	0.0	0.0	0.0	0.0
0.0	160°	10.3	9.2	5.7	1.2	0.0	0.0	0.0	0.0	0.0
0.0	161°	9.3	8.4	5.1	0.8	0.0	0.0	0.0	0.0	0.0
0.0	162°	8.5	7.5	4.6	0.6	0.0	0.0	0.0	0.0	0.0
0.0	163°	7.6	6.7	4.0	0.3	0.0	0.0	0.0	0.0	0.0
0.0	164°	6.7	6.0	3.4	0.1	0.0	0.0	0.0	0.0	0.0
0.1	165°	5.9	5.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0
0.0	166°	5.0	4.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	167°	4.3	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	168°	3.5	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	169°	2.9	2.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
0.0	170°	2.1	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	171°	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	172°	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	173°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431932

CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

225°		247.5°	270°	292.5°	315°	337.5°	360°
0.0	0°	2.6	2.6	2.6	2.6	2.6	2.6
	1°	2.3	2.5	2.8	3.1	3.3	3.4
	2°	2.0	2.5	3.0	3.6	3.9	4.2
	3°	1.7	2.5	3.3	4.1	4.7	4.9
	4°	1.4	2.4	3.5	4.6	5.4	5.7
	5°	1.0	2.4	3.7	5.2	6.1	6.6
	6°	0.7	2.3	4.0	5.7	7.0	7.6
	7°	0.5	2.2	4.2	6.2	7.8	8.4
	8°	0.3	2.2	4.5	6.8	8.6	9.4
	9°	0.1	2.1	4.7	7.4	9.4	10.4
	10°	0.0	2.1	5.0	7.9	10.2	11.3
	11°	0.0	2.0	5.2	8.5	11.1	12.3
	12°	0.0	2.0	5.4	9.1	12.0	13.3
	13°	0.0	1.9	5.7	9.7	12.9	14.3
	14°	0.0	1.9	5.9	10.3	13.8	15.3
	15°	0.0	1.8	6.2	10.9	14.6	16.3
	16°	0.0	1.7	6.4	11.5	15.5	17.3
	17°	0.0	1.7	6.7	12.1	16.5	18.5
	18°	0.0	1.6	6.9	12.7	17.4	19.4
	19°	0.0	1.6	7.1	13.3	18.2	20.5
	20°	0.0	1.5	7.4	14.0	19.2	21.6
	21°	0.0	1.4	7.6	14.6	20.1	22.6
	22°	0.0	1.4	7.8	15.2	21.0	23.6
	23°	0.0	1.3	8.1	15.8	21.9	24.7
	24°	0.0	1.2	8.3	16.4	22.9	25.8
	25°	0.0	1.2	8.5	17.0	23.8	26.7
	26°	0.0	1.1	8.8	17.6	24.6	27.8
	27°	0.0	1.0	9.0	18.2	25.6	28.9
	28°	0.0	1.0	9.2	18.8	26.5	29.9
	29°	0.0	0.9	9.4	19.4	27.3	30.9
	30°	0.0	0.8	9.6	20.0	28.2	31.9
	31°	0.0	0.8	9.9	20.6	29.1	33.0
	32°	0.0	0.7	10.1	21.2	30.0	33.9
	33°	0.0	0.6	10.3	21.7	30.8	34.9
	34°	0.0	0.6	10.5	22.4	31.7	35.8
	35°	0.0	0.5	10.7	22.9	32.5	36.9
	36°	0.0	0.4	10.9	23.5	33.3	37.7
	37°	0.0	0.4	11.1	24.0	34.1	38.7
	38°	0.0	0.3	11.3	24.5	35.0	39.6
	39°	0.0	0.3	11.5	25.1	35.8	40.6
	40°	0.0	0.3	11.6	25.6	36.6	41.4
	41°	0.0	0.2	11.8	26.1	37.3	42.3
	42°	0.0	0.2	12.0	26.6	38.1	43.2
	43°	0.0	0.2	12.2	27.1	38.9	44.1
	44°	0.0	0.1	12.3	27.6	39.6	44.9



TEST NUMBER: P1431932
 CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	0.0	0.1	12.5	28.1	40.4	45.8
46°	0.0	0.0	12.7	28.5	41.0	46.6
47°	0.0	0.0	12.8	29.0	41.7	47.4
48°	0.0	0.0	12.9	29.4	42.4	48.2
49°	0.0	0.0	13.1	29.8	43.1	48.9
50°	0.0	0.0	13.2	30.3	43.7	49.7
51°	0.0	0.0	13.3	30.7	44.3	50.4
52°	0.0	0.0	13.5	31.1	45.0	51.1
53°	0.0	0.0	13.6	31.5	45.6	51.8
54°	0.0	0.0	13.7	31.9	46.1	52.5
55°	0.0	0.0	13.8	32.2	46.7	53.1
56°	0.0	0.0	13.9	32.6	47.3	53.8
57°	0.0	0.0	14.0	32.9	47.8	54.4
58°	0.0	0.0	14.1	33.2	48.3	55.0
59°	0.0	0.0	14.2	33.5	48.8	55.5
60°	0.0	0.0	14.3	33.8	49.2	56.1
61°	0.0	0.0	14.4	34.1	49.7	56.6
62°	0.0	0.0	14.4	34.4	50.1	57.1
63°	0.0	0.0	14.5	34.7	50.6	57.6
64°	0.0	0.0	14.5	34.9	51.0	58.1
65°	0.0	0.0	14.6	35.2	51.3	58.6
66°	0.0	0.0	14.6	35.4	51.7	59.0
67°	0.0	0.0	14.7	35.6	52.0	59.3
68°	0.0	0.0	14.7	35.8	52.4	59.7
69°	0.0	0.0	14.7	36.0	52.6	60.0
70°	0.0	0.0	14.8	36.1	52.9	60.3
71°	0.0	0.0	14.8	36.3	53.1	60.6
72°	0.0	0.0	14.8	36.4	53.4	60.9
73°	0.0	0.0	14.8	36.5	53.5	61.1
74°	0.0	0.0	14.8	36.6	53.7	61.3
75°	0.0	0.0	14.8	36.7	53.9	61.5
76°	0.0	0.0	14.8	36.8	54.0	61.7
77°	0.0	0.0	14.8	36.8	54.1	61.8
78°	0.0	0.0	14.7	36.9	54.2	61.9
79°	0.0	0.0	14.7	36.9	54.2	61.9
80°	0.0	0.0	14.7	36.9	54.3	62.0
81°	0.0	0.0	14.6	36.9	54.3	62.1
82°	0.0	0.0	14.6	36.8	54.3	62.1
83°	0.0	0.0	14.5	36.8	54.3	62.0
84°	0.0	0.0	14.4	36.7	54.3	62.1
85°	0.0	0.0	14.3	36.7	54.2	62.0
86°	0.0	0.0	14.3	36.6	54.2	62.0
87°	0.0	0.0	14.2	36.5	54.1	61.9
88°	0.0	0.0	14.1	36.4	54.0	61.8
89°	0.0	0.0	14.0	36.3	53.9	61.7



TEST NUMBER: P1431932
 CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	13.9	36.2	53.8	61.6
91°	0.0	0.0	13.8	36.1	53.6	61.4
92°	0.0	0.0	13.7	36.0	53.4	61.2
93°	0.0	0.0	13.6	35.8	53.2	61.0
94°	0.0	0.0	13.5	35.6	53.0	60.7
95°	0.0	0.0	13.3	35.4	52.8	60.5
96°	0.0	0.0	13.2	35.2	52.5	60.2
97°	0.0	0.0	13.1	35.0	52.2	59.8
98°	0.0	0.0	12.9	34.7	51.9	59.5
99°	0.0	0.0	12.8	34.5	51.5	59.2
100°	0.0	0.0	12.6	34.2	51.2	58.6
101°	0.0	0.0	12.5	34.0	50.8	58.3
102°	0.0	0.0	12.3	33.7	50.4	57.8
103°	0.0	0.0	12.1	33.4	50.1	57.4
104°	0.0	0.0	12.0	33.0	49.6	57.0
105°	0.0	0.0	11.8	32.7	49.2	56.5
106°	0.0	0.0	11.6	32.4	48.7	56.0
107°	0.0	0.0	11.4	32.0	48.3	55.4
108°	0.0	0.0	11.2	31.7	47.8	54.9
109°	0.0	0.0	11.1	31.3	47.3	54.3
110°	0.0	0.0	10.9	31.0	46.8	53.8
111°	0.0	0.0	10.7	30.6	46.3	53.2
112°	0.0	0.0	10.5	30.1	45.7	52.5
113°	0.0	0.0	10.3	29.7	45.1	51.9
114°	0.0	0.0	10.1	29.3	44.6	51.3
115°	0.0	0.0	9.9	28.9	44.0	50.6
116°	0.0	0.0	9.7	28.4	43.4	49.9
117°	0.0	0.0	9.4	28.0	42.8	49.2
118°	0.0	0.0	9.2	27.5	42.2	48.5
119°	0.0	0.0	9.0	27.1	41.5	47.8
120°	0.0	0.0	8.8	26.6	40.9	47.1
121°	0.0	0.0	8.6	26.1	40.2	46.2
122°	0.0	0.0	8.3	25.6	39.5	45.5
123°	0.0	0.0	8.1	25.1	38.8	44.8
124°	0.0	0.0	7.9	24.6	38.1	44.0
125°	0.0	0.0	7.7	24.1	37.4	43.1
126°	0.0	0.0	7.4	23.6	36.6	42.3
127°	0.0	0.0	7.2	23.1	35.9	41.5
128°	0.0	0.0	7.0	22.5	35.2	40.7
129°	0.0	0.0	6.7	22.0	34.4	39.8
130°	0.0	0.0	6.5	21.4	33.6	38.9
131°	0.0	0.0	6.3	20.9	32.8	38.0
132°	0.0	0.0	6.0	20.3	32.1	37.2
133°	0.0	0.0	5.8	19.8	31.3	36.3
134°	0.0	0.0	5.6	19.2	30.5	35.3



TEST NUMBER: P1431932
 CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.0	0.0	5.3	18.6	29.6	34.5
136°	0.0	0.0	5.1	18.0	28.8	33.5
137°	0.0	0.0	4.9	17.5	28.0	32.6
138°	0.0	0.0	4.6	16.9	27.2	31.7
139°	0.0	0.0	4.4	16.3	26.4	30.8
140°	0.0	0.0	4.2	15.7	25.5	29.8
141°	0.0	0.0	3.9	15.1	24.6	28.8
142°	0.0	0.0	3.7	14.6	23.8	27.8
143°	0.0	0.0	3.5	14.0	22.9	26.9
144°	0.0	0.0	3.3	13.3	22.1	25.9
145°	0.0	0.0	3.1	12.8	21.2	24.9
146°	0.0	0.0	2.8	12.2	20.3	23.9
147°	0.0	0.0	2.6	11.6	19.5	22.9
148°	0.0	0.0	2.4	11.0	18.6	21.9
149°	0.0	0.0	2.2	10.5	17.7	20.9
150°	0.0	0.0	2.0	9.8	16.8	19.9
151°	0.0	0.0	1.7	9.3	15.9	18.9
152°	0.0	0.0	1.5	8.7	15.1	18.0
153°	0.0	0.0	1.3	8.2	14.3	17.0
154°	0.0	0.0	1.1	7.6	13.4	16.0
155°	0.0	0.0	0.9	7.0	12.5	15.0
156°	0.0	0.0	0.7	6.5	11.7	14.1
157°	0.0	0.0	0.5	6.0	10.9	13.1
158°	0.0	0.0	0.3	5.5	10.1	12.2
159°	0.0	0.0	0.1	5.0	9.3	11.1
160°	0.0	0.0	0.0	4.4	8.5	10.3
161°	0.0	0.0	0.0	3.9	7.6	9.3
162°	0.0	0.0	0.0	3.5	6.9	8.5
163°	0.0	0.0	0.0	3.0	6.1	7.6
164°	0.0	0.0	0.0	2.5	5.4	6.7
165°	0.0	0.0	0.0	2.1	4.7	5.9
166°	0.0	0.0	0.0	1.6	4.0	5.0
167°	0.0	0.0	0.0	1.1	3.3	4.3
168°	0.0	0.0	0.0	0.6	2.7	3.5
169°	0.0	0.0	0.0	0.3	2.0	2.9
170°	0.0	0.0	0.0	0.0	1.3	2.1
171°	0.0	0.0	0.0	0.0	0.7	1.4
172°	0.0	0.0	0.0	0.0	0.3	0.7
173°	0.0	0.0	0.0	0.0	0.0	0.2
174°	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431932
CATALOG NUMBER: HSLBKMW-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)