

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: P1431936

Luminaire Tested: **HSLUNVMW-3500K**

Issue Date: 3/16/2026



Test Information

Test Method: LM-79-08
Report Number: P1431936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (UTU2511015E-A)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HSLUNVMW-3500K
Description: Marker - Low Diff (Default)

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

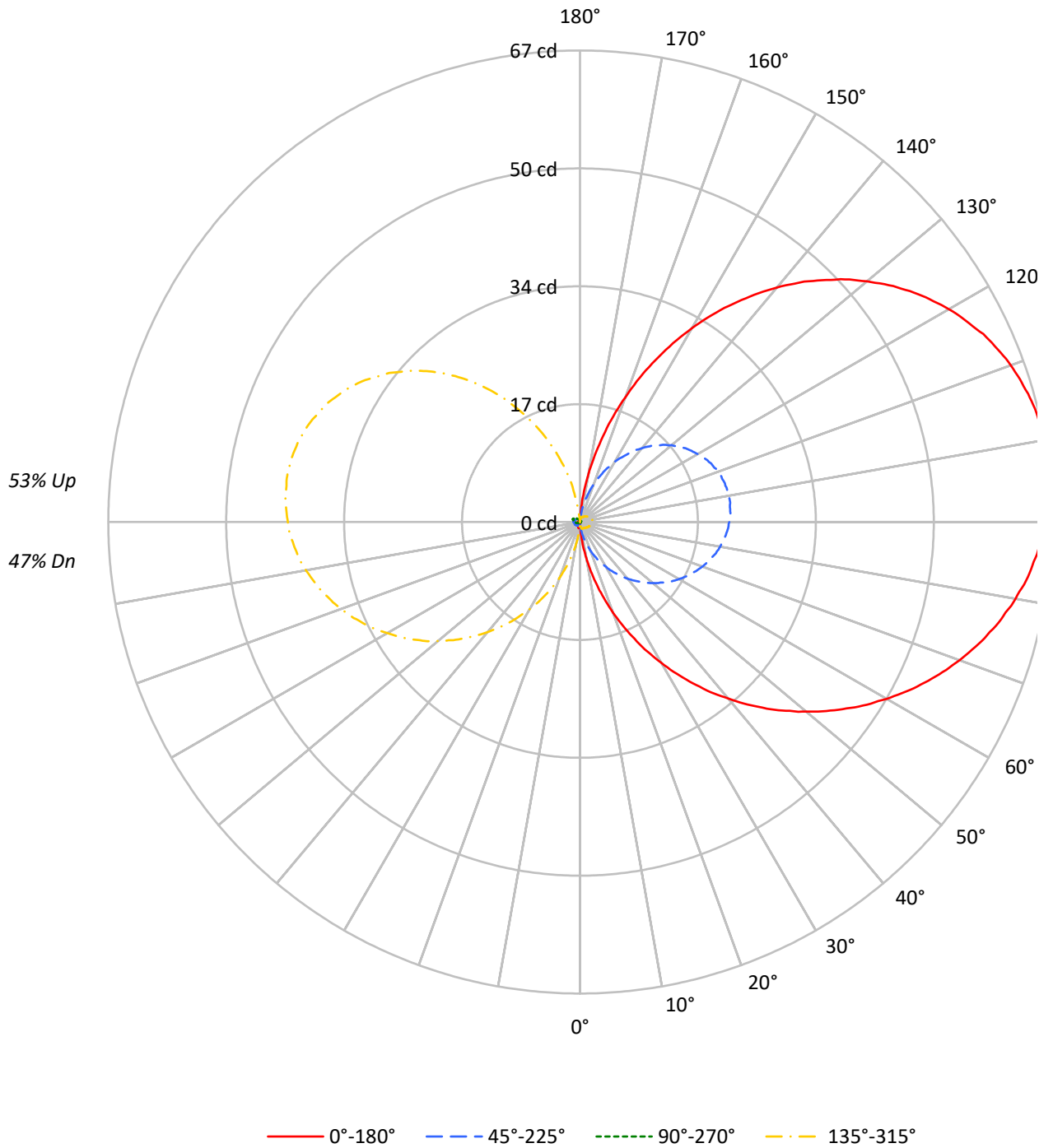
Summary

Lumens per Lamp: 155.9 (1 lamp)
Luminaire Lumens: 165.0 lumens
Efficiency: 105.8%
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.27' x L: 0.43' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 3.8
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P1431936
CATALOG NUMBER: HSLUNVMW-3500K

Luminous Intensity Polar Plot

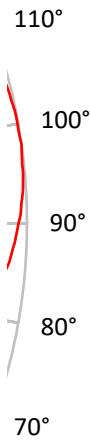




TEST NUMBER: P1431936
 CATALOG NUMBER: HSLUNVMW-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20		
RC	80				70				50			30			10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	103	103	103	103	86	86	86	70	70	70	56	56	56
1	97	89	83	77	88	81	76	70	66	62	58	53	49	46	40	37	35
2	85	75	66	58	77	68	60	53	55	49	43	43	38	34	32	28	25
3	77	64	54	46	69	58	49	42	46	39	34	36	31	26	26	22	19
4	69	55	45	37	62	50	41	34	40	33	27	31	25	21	22	18	15
5	63	48	38	31	57	44	35	28	35	28	22	27	21	17	19	15	12
6	58	43	33	26	52	39	30	23	31	24	19	24	18	14	17	13	10
7	53	38	29	22	48	35	26	20	28	21	16	21	16	12	15	11	8
8	49	34	25	19	44	31	23	17	25	18	14	19	14	10	14	10	7
9	45	31	22	16	41	28	20	15	23	16	12	18	13	9	13	9	6
10	42	28	20	14	38	26	18	13	21	15	10	16	11	8	12	8	5



AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	186	0	9	0
10°	489	0	85	0
15°	883	0	77	0
20°	1351	0	69	0
25°	1871	0	72	0
30°	2472	0	64	11
35°	3168	0	57	11
40°	3956	12	60	12
45°	4915	13	66	13
50°	6041	0	43	29
55°	7465	0	48	32
60°	9323	19	56	56
65°	11841	22	66	66
70°	15553	27	81	108
75°	21591	36	107	179
80°	33515	53	160	320
85°	68795	106	319	638



TEST NUMBER: P1431936
 CATALOG NUMBER: HSLUNVMW-3500K

ZONAL LUMENS:					CANDELA DISTRIBUTION:					
20	Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°
0	0°-10°	0.1	0.1	0.1	0°	0	0	0	0	0
0	10°-20°	0.8	0.5	0.5	5°	2	0	0	0	2
	20°-30°	2.4	1.4	1.5	15°	9	0	1	0	9
49	30°-40°	4.8	2.9	3.1	25°	18	0	1	0	18
29	40°-50°	7.8	4.7	5.0	35°	28	0	0	0	28
19	50°-60°	11.1	6.7	7.1	45°	38	0	0	0	38
14	60°-70°	14.3	8.6	9.1	55°	46	0	0	0	46
10	70°-80°	17.0	10.3	10.9	65°	54	0	0	0	54
8	80°-90°	18.8	11.4	12.0	75°	60	0	0	0	60
6	90°-100°	19.3	11.7	12.4	85°	65	0	0	1	65
5	100°-110°	18.6	11.3	11.9	90°	66	0	0	1	66
4	110°-120°	16.5	10.0	10.6	95°	67	0	0	1	67
3	120°-130°	13.5	8.2	8.6	105°	66	0	0	1	66
3	130°-140°	9.9	6.0	6.3	115°	63	0	0	1	63
	140°-150°	6.2	3.8	4.0	125°	57	0	0	1	57
	150°-160°	3.1	1.9	2.0	135°	49	0	0	1	49
	160°-170°	1.0	0.6	0.6	145°	38	0	0	0	38
	170°-180°	0.1	0.0	0.0	155°	25	0	0	0	25
	0°-30°	3.2	2.0	2.1	165°	13	0	0	0	13
	0°-40°	8.0	4.8	5.1	175°	2	0	0	0	2
	0°-60°	26.8	16.3	17.2	180°	0	0	0	0	0
	0°-90°	76.8	46.5	49.3						
	90°-120°	54.5	33.0	34.9						
	90°-150°	84.1	50.9	53.9						
	90°-180°	88.0	53.3	56.4						
	0°-180°	165.0	100.0	105.8						



TEST NUMBER: P1431936

CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (FULL):

Flux		0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°
	0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	1°	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3	2°	0.4	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0
9	3°	0.8	0.5	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.0
18	4°	1.3	0.8	0.4	0.1	0.0	0.1	0.1	0.1	0.1	0.0
29	5°	2.0	1.2	0.6	0.2	0.0	0.1	0.1	0.1	0.1	0.1
42	6°	2.5	1.5	0.8	0.2	0.0	0.1	0.1	0.2	0.2	0.1
54	7°	3.2	1.9	1.0	0.3	0.0	0.1	0.1	0.4	0.5	0.2
64	8°	3.9	2.3	1.2	0.3	0.0	0.2	0.2	0.6	0.7	0.4
53	9°	4.5	2.7	1.4	0.4	0.0	0.3	0.4	0.8	0.8	0.5
36	10°	5.2	3.2	1.7	0.5	0.0	0.3	0.6	0.9	0.9	0.6
55	11°	6.0	3.6	1.9	0.6	0.0	0.3	0.7	0.9	0.9	0.6
70	12°	6.7	4.1	2.1	0.6	0.0	0.4	0.9	0.9	0.9	0.6
63	13°	7.6	4.6	2.4	0.7	0.0	0.5	0.9	0.9	0.9	0.6
51	14°	8.4	5.0	2.6	0.8	0.0	0.7	1.0	0.9	0.8	0.6
38	15°	9.2	5.6	2.9	0.9	0.0	0.8	1.0	0.9	0.8	0.6
24	16°	10.1	6.1	3.2	1.0	0.0	1.0	1.0	0.9	0.8	0.6
12	17°	10.9	6.6	3.4	1.0	0.0	1.2	1.0	0.9	0.8	0.6
4	18°	11.8	7.1	3.7	1.1	0.0	1.4	1.0	0.9	0.8	0.6
0	19°	12.7	7.7	4.0	1.2	0.0	1.6	1.0	0.9	0.7	0.6
	20°	13.7	8.2	4.3	1.3	0.0	1.8	1.0	0.8	0.7	0.6
	21°	14.6	8.8	4.6	1.4	0.0	2.0	1.0	0.8	0.7	0.6
	22°	15.5	9.3	4.9	1.4	0.0	2.1	1.0	0.8	0.7	0.6
	23°	16.4	9.9	5.2	1.5	0.0	2.2	1.0	0.8	0.7	0.6
	24°	17.4	10.5	5.5	1.6	0.0	2.4	1.0	0.8	0.7	0.5
	25°	18.3	11.0	5.8	1.7	0.0	2.4	1.0	0.8	0.7	0.5
	26°	19.3	11.7	6.1	1.8	0.0	2.5	1.0	0.8	0.6	0.5
	27°	20.3	12.2	6.4	1.9	0.0	2.6	1.0	0.8	0.6	0.5
	28°	21.2	12.8	6.7	2.0	0.0	2.6	1.0	0.8	0.6	0.5
	29°	22.2	13.4	7.0	2.1	0.0	2.6	1.0	0.8	0.6	0.5
	30°	23.1	14.0	7.3	2.2	0.0	2.7	1.0	0.8	0.6	0.5
	31°	24.1	14.6	7.7	2.3	0.0	2.7	1.0	0.8	0.6	0.5
	32°	25.1	15.2	8.0	2.3	0.0	2.7	1.0	0.8	0.6	0.5
	33°	26.0	15.8	8.3	2.4	0.0	2.8	1.0	0.7	0.6	0.5
	34°	27.0	16.4	8.6	2.5	0.0	2.8	1.0	0.7	0.5	0.5
	35°	28.0	16.9	8.9	2.6	0.0	2.8	1.1	0.7	0.5	0.5
	36°	28.9	17.5	9.3	2.7	0.0	2.9	1.1	0.7	0.5	0.5
	37°	30.0	18.1	9.6	2.8	0.0	2.9	1.1	0.7	0.5	0.5
	38°	30.9	18.7	9.9	2.9	0.0	3.0	1.1	0.7	0.5	0.5
	39°	31.8	19.3	10.2	3.0	0.0	3.0	1.1	0.7	0.5	0.5
	40°	32.7	19.8	10.5	3.1	0.1	3.0	1.1	0.7	0.5	0.5
	41°	33.7	20.4	10.8	3.2	0.1	3.1	1.1	0.7	0.5	0.5
	42°	34.7	21.0	11.1	3.3	0.0	3.1	1.1	0.7	0.5	0.5
	43°	35.6	21.5	11.4	3.4	0.0	3.1	1.1	0.7	0.5	0.5
	44°	36.5	22.1	11.7	3.5	0.0	3.2	1.1	0.7	0.5	0.5



TEST NUMBER: P1431936

CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	
0.0	45°	37.5	22.7	12.0	3.5	0.1	3.2	1.1	0.7	0.5	0.5
0.0	46°	38.4	23.2	12.3	3.6	0.1	3.3	1.2	0.7	0.4	0.5
0.0	47°	39.3	23.8	12.6	3.7	0.0	3.3	1.2	0.6	0.4	0.5
0.0	48°	40.1	24.3	12.9	3.8	0.0	3.3	1.2	0.6	0.3	0.5
0.0	49°	41.1	24.9	13.2	3.9	0.1	3.4	1.2	0.6	0.3	0.5
0.0	50°	41.9	25.4	13.5	4.0	0.0	3.4	1.2	0.6	0.3	0.5
0.1	51°	42.8	25.9	13.8	4.1	0.0	3.5	1.2	0.6	0.3	0.5
0.1	52°	43.7	26.5	14.1	4.2	0.0	3.5	1.2	0.6	0.3	0.5
0.1	53°	44.5	27.0	14.3	4.2	0.1	3.6	1.2	0.6	0.3	0.5
0.2	54°	45.4	27.5	14.6	4.3	0.1	3.6	1.3	0.7	0.3	0.5
0.3	55°	46.2	28.0	14.9	4.4	0.0	3.7	1.3	0.7	0.3	0.5
0.4	56°	47.1	28.5	15.2	4.5	0.1	3.7	1.3	0.7	0.3	0.5
0.5	57°	47.9	29.0	15.5	4.6	0.1	3.7	1.3	0.7	0.3	0.5
0.5	58°	48.7	29.5	15.7	4.6	0.1	3.8	1.3	0.7	0.3	0.5
0.5	59°	49.4	29.9	16.0	4.7	0.1	3.9	1.4	0.7	0.3	0.5
0.5	60°	50.3	30.4	16.2	4.8	0.1	3.9	1.4	0.7	0.3	0.5
0.5	61°	51.0	30.9	16.5	4.9	0.0	3.9	1.4	0.7	0.3	0.5
0.5	62°	51.8	31.3	16.7	5.0	0.0	4.0	1.4	0.7	0.3	0.5
0.5	63°	52.6	31.8	17.0	5.0	0.1	4.0	1.4	0.7	0.3	0.5
0.5	64°	53.3	32.3	17.2	5.1	0.1	4.1	1.4	0.7	0.3	0.5
0.6	65°	54.0	32.7	17.4	5.2	0.1	4.1	1.4	0.7	0.3	0.5
0.6	66°	54.7	33.1	17.6	5.2	0.1	4.2	1.4	0.7	0.3	0.5
0.6	67°	55.4	33.5	17.9	5.3	0.1	4.2	1.5	0.7	0.3	0.5
0.5	68°	56.1	33.9	18.1	5.4	0.1	4.3	1.5	0.7	0.3	0.5
0.6	69°	56.7	34.3	18.3	5.4	0.1	4.3	1.5	0.7	0.3	0.6
0.6	70°	57.4	34.7	18.5	5.5	0.1	4.4	1.5	0.7	0.3	0.6
0.6	71°	58.0	35.1	18.7	5.5	0.1	4.4	1.5	0.8	0.3	0.6
0.6	72°	58.6	35.4	18.9	5.6	0.1	4.5	1.5	0.8	0.3	0.6
0.6	73°	59.2	35.8	19.1	5.7	0.1	4.5	1.6	0.8	0.3	0.6
0.6	74°	59.8	36.1	19.2	5.7	0.1	4.6	1.6	0.8	0.3	0.6
0.6	75°	60.3	36.5	19.4	5.8	0.1	4.6	1.6	0.8	0.3	0.6
0.6	76°	60.9	36.8	19.6	5.8	0.1	4.7	1.6	0.8	0.3	0.6
0.6	77°	61.4	37.1	19.8	5.9	0.1	4.7	1.6	0.8	0.3	0.6
0.6	78°	61.8	37.4	19.9	5.9	0.1	4.8	1.6	0.8	0.3	0.6
0.6	79°	62.4	37.7	20.1	5.9	0.1	4.8	1.6	0.8	0.3	0.6
0.6	80°	62.8	38.0	20.2	6.0	0.1	4.8	1.7	0.8	0.3	0.6
0.6	81°	63.2	38.2	20.3	6.0	0.1	4.9	1.7	0.8	0.3	0.6
0.6	82°	63.7	38.5	20.5	6.1	0.1	4.9	1.7	0.8	0.3	0.6
0.6	83°	64.1	38.7	20.6	6.1	0.1	5.0	1.7	0.8	0.3	0.6
0.6	84°	64.4	38.9	20.7	6.1	0.1	5.0	1.7	0.8	0.3	0.6
0.6	85°	64.7	39.1	20.8	6.2	0.1	5.0	1.7	0.8	0.3	0.6
0.6	86°	65.1	39.3	20.9	6.2	0.1	5.0	1.7	0.8	0.3	0.6
0.6	87°	65.3	39.5	21.0	6.2	0.1	5.1	1.7	0.9	0.3	0.6
0.6	88°	65.6	39.6	21.1	6.2	0.1	5.1	1.8	0.9	0.3	0.6
0.6	89°	65.8	39.7	21.1	6.3	0.1	5.1	1.8	0.9	0.3	0.6



TEST NUMBER: P1431936

CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	
0.6	90°	66.0	39.9	21.2	6.3	0.1	5.1	1.8	0.9	0.3	0.6
0.6	91°	66.3	40.0	21.3	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.6	92°	66.4	40.1	21.3	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.7	93°	66.6	40.2	21.4	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.7	94°	66.7	40.3	21.4	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.7	95°	66.8	40.3	21.4	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.7	96°	66.8	40.4	21.4	6.3	0.1	5.2	1.8	0.9	0.3	0.6
0.7	97°	66.9	40.4	21.5	6.3	0.1	5.1	1.8	0.9	0.3	0.6
0.7	98°	67.0	40.4	21.5	6.3	0.1	5.1	1.8	0.9	0.3	0.6
0.7	99°	66.9	40.4	21.5	6.3	0.1	5.1	1.8	0.8	0.3	0.6
0.7	100°	66.9	40.4	21.5	6.3	0.1	5.1	1.8	0.8	0.3	0.6
0.7	101°	66.9	40.4	21.4	6.3	0.1	5.1	1.7	0.8	0.3	0.6
0.7	102°	66.8	40.3	21.4	6.3	0.1	5.0	1.7	0.8	0.3	0.6
0.7	103°	66.7	40.3	21.4	6.3	0.1	5.0	1.7	0.8	0.3	0.5
0.7	104°	66.6	40.2	21.3	6.3	0.1	4.9	1.7	0.8	0.3	0.5
0.7	105°	66.4	40.1	21.3	6.3	0.1	4.9	1.7	0.8	0.3	0.5
0.7	106°	66.2	40.0	21.2	6.2	0.1	4.9	1.7	0.8	0.3	0.5
0.7	107°	65.9	39.8	21.1	6.2	0.1	4.8	1.6	0.8	0.3	0.4
0.8	108°	65.7	39.6	21.1	6.2	0.1	4.7	1.6	0.8	0.2	0.4
0.8	109°	65.4	39.5	21.0	6.1	0.1	4.7	1.6	0.8	0.2	0.4
0.8	110°	65.1	39.3	20.9	6.1	0.1	4.7	1.6	0.8	0.2	0.4
0.8	111°	64.8	39.1	20.8	6.1	0.1	4.6	1.6	0.8	0.2	0.4
0.8	112°	64.4	38.9	20.6	6.0	0.1	4.6	1.6	0.8	0.2	0.3
0.8	113°	64.0	38.6	20.5	6.0	0.1	4.5	1.5	0.8	0.2	0.3
0.8	114°	63.6	38.4	20.4	5.9	0.1	4.5	1.5	0.7	0.2	0.3
0.8	115°	63.2	38.1	20.2	5.9	0.1	4.4	1.5	0.7	0.2	0.3
0.8	116°	62.6	37.8	20.1	5.8	0.1	4.4	1.4	0.7	0.2	0.3
0.8	117°	62.1	37.6	19.9	5.8	0.1	4.3	1.4	0.7	0.2	0.2
0.8	118°	61.6	37.2	19.7	5.7	0.1	4.3	1.4	0.7	0.1	0.2
0.8	119°	61.1	36.9	19.5	5.7	0.1	4.3	1.4	0.7	0.1	0.2
0.8	120°	60.5	36.5	19.3	5.6	0.1	4.2	1.4	0.7	0.1	0.2
0.8	121°	59.9	36.2	19.1	5.5	0.2	4.2	1.4	0.7	0.1	0.2
0.8	122°	59.2	35.8	18.9	5.5	0.2	4.1	1.4	0.7	0.1	0.1
0.8	123°	58.6	35.4	18.7	5.4	0.2	4.1	1.3	0.7	0.1	0.1
0.8	124°	57.9	34.9	18.5	5.3	0.2	4.0	1.3	0.7	0.1	0.1
0.8	125°	57.2	34.5	18.3	5.2	0.2	4.0	1.3	0.6	0.1	0.1
0.8	126°	56.4	34.1	18.0	5.2	0.2	3.9	1.3	0.6	0.1	0.1
0.8	127°	55.7	33.6	17.8	5.1	0.2	3.9	1.3	0.6	0.1	0.1
0.8	128°	54.9	33.1	17.5	5.0	0.2	3.8	1.2	0.6	0.1	0.1
0.8	129°	54.0	32.6	17.2	4.9	0.2	3.8	1.2	0.6	0.1	0.1
0.9	130°	53.2	32.1	17.0	4.8	0.2	3.7	1.2	0.6	0.1	0.1
0.9	131°	52.3	31.6	16.6	4.7	0.2	3.7	1.2	0.6	0.1	0.2
0.9	132°	51.5	31.1	16.4	4.7	0.2	3.6	1.2	0.6	0.1	0.2
0.9	133°	50.6	30.5	16.1	4.6	0.2	3.6	1.2	0.6	0.1	0.2
0.9	134°	49.5	29.9	15.7	4.5	0.2	3.5	1.2	0.6	0.1	0.3



TEST NUMBER: P1431936

CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

225°	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	
0.9	135°	48.6	29.3	15.4	4.3	0.2	3.5	1.1	0.6	0.1	0.3
0.9	136°	47.6	28.8	15.1	4.3	0.2	3.4	1.1	0.5	0.1	0.3
0.9	137°	46.7	28.2	14.8	4.1	0.2	3.4	1.1	0.5	0.1	0.3
0.9	138°	45.6	27.5	14.4	4.0	0.2	3.3	1.1	0.5	0.1	0.3
0.9	139°	44.6	26.9	14.1	3.9	0.2	3.3	1.1	0.5	0.1	0.3
0.9	140°	43.5	26.2	13.7	3.8	0.2	3.2	1.0	0.5	0.1	0.3
0.9	141°	42.4	25.6	13.3	3.7	0.2	3.2	1.0	0.5	0.1	0.2
0.9	142°	41.3	24.9	13.0	3.6	0.2	3.1	1.0	0.5	0.1	0.2
0.9	143°	40.1	24.2	12.6	3.5	0.2	3.1	1.0	0.5	0.1	0.2
0.8	144°	39.0	23.5	12.2	3.4	0.2	3.1	1.0	0.5	0.1	0.2
0.8	145°	37.8	22.8	11.8	3.2	0.2	3.0	0.9	0.5	0.1	0.2
0.8	146°	36.7	22.1	11.4	3.1	0.2	3.0	0.9	0.5	0.1	0.2
0.8	147°	35.5	21.4	11.0	3.0	0.2	3.0	0.9	0.5	0.1	0.2
0.8	148°	34.3	20.6	10.7	2.9	0.2	3.0	0.9	0.4	0.1	0.2
0.8	149°	33.0	19.8	10.3	2.8	0.2	2.9	0.9	0.4	0.1	0.2
0.8	150°	31.8	19.1	9.9	2.7	0.2	2.9	0.8	0.4	0.1	0.2
0.8	151°	30.5	18.3	9.5	2.5	0.2	2.9	0.8	0.4	0.1	0.2
0.8	152°	29.3	17.6	9.0	2.4	0.2	2.9	0.8	0.4	0.1	0.2
0.8	153°	28.0	16.8	8.6	2.3	0.2	2.8	0.8	0.4	0.1	0.2
0.8	154°	26.7	16.0	8.2	2.2	0.2	2.8	0.8	0.4	0.1	0.2
0.8	155°	25.4	15.2	7.8	2.1	0.2	2.7	0.8	0.4	0.1	0.2
0.8	156°	24.1	14.5	7.3	1.9	0.2	2.7	0.8	0.4	0.1	0.2
0.8	157°	22.9	13.7	6.9	1.8	0.2	2.6	0.7	0.3	0.1	0.2
0.8	158°	21.6	12.9	6.5	1.7	0.2	2.6	0.7	0.3	0.1	0.2
0.7	159°	20.2	12.1	6.1	1.6	0.1	2.5	0.7	0.3	0.1	0.2
0.7	160°	18.9	11.3	5.7	1.5	0.1	2.5	0.7	0.3	0.1	0.2
0.7	161°	17.7	10.5	5.3	1.4	0.1	2.4	0.8	0.3	0.1	0.2
0.7	162°	16.4	9.8	4.9	1.2	0.1	2.3	0.8	0.3	0.1	0.2
0.7	163°	15.2	9.0	4.5	1.1	0.1	2.2	0.8	0.3	0.1	0.2
0.7	164°	13.9	8.3	4.1	1.0	0.1	2.1	0.8	0.3	0.1	0.2
0.7	165°	12.6	7.5	3.7	0.9	0.1	2.0	0.7	0.3	0.0	0.2
0.7	166°	11.4	6.8	3.4	0.8	0.1	1.8	0.7	0.3	0.1	0.2
0.7	167°	10.3	6.1	3.0	0.7	0.1	1.7	0.7	0.3	0.0	0.2
0.6	168°	9.1	5.4	2.6	0.6	0.1	1.3	0.6	0.1	0.0	0.1
0.6	169°	8.0	4.7	2.3	0.5	0.1	0.8	0.4	0.0	0.0	0.0
0.5	170°	6.9	4.1	2.0	0.4	0.1	0.6	0.1	0.0	0.0	0.0
0.4	171°	5.8	3.4	1.7	0.3	0.1	0.4	0.0	0.0	0.0	0.0
0.3	172°	4.9	2.9	1.3	0.1	0.1	0.2	0.0	0.0	0.0	0.0
0.3	173°	3.9	2.3	1.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.3	174°	3.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	175°	2.2	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	176°	1.5	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	177°	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431936

CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

225°		247.5°	270°	292.5°	315°	337.5°	360°
0.0	0°	0.0	0.0	0.0	0.0	0.0	0.0
	1°	0.0	0.0	0.1	0.1	0.1	0.1
	2°	0.0	0.0	0.3	0.3	0.4	0.4
	3°	0.0	0.0	0.5	0.5	0.7	0.8
	4°	0.0	0.0	0.7	0.8	1.2	1.3
	5°	0.0	0.0	0.9	1.2	1.7	2.0
	6°	0.0	0.0	1.2	1.6	2.3	2.5
	7°	0.0	0.0	1.5	1.9	2.9	3.2
	8°	0.1	0.0	1.9	2.4	3.5	3.9
	9°	0.1	0.0	2.3	2.8	4.0	4.5
	10°	0.1	0.0	2.7	3.2	4.7	5.2
	11°	0.1	0.0	3.1	3.7	5.4	6.0
	12°	0.1	0.0	3.5	4.1	6.1	6.7
	13°	0.1	0.0	4.0	4.7	6.7	7.6
	14°	0.1	0.0	4.4	5.1	7.5	8.4
	15°	0.2	0.0	4.9	5.6	8.2	9.2
	16°	0.2	0.0	5.3	6.2	9.0	10.1
	17°	0.2	0.0	5.8	6.7	9.7	10.9
	18°	0.3	0.0	6.2	7.2	10.6	11.8
	19°	0.3	0.0	6.7	7.8	11.4	12.7
	20°	0.3	0.0	7.2	8.4	12.2	13.7
	21°	0.4	0.0	7.6	8.9	13.0	14.6
	22°	0.4	0.0	8.1	9.5	13.9	15.5
	23°	0.4	0.1	8.6	10.1	14.7	16.4
	24°	0.4	0.0	9.1	10.7	15.5	17.4
	25°	0.4	0.0	9.6	11.3	16.4	18.3
	26°	0.5	0.0	10.1	11.8	17.3	19.3
	27°	0.5	0.1	10.6	12.5	18.1	20.3
	28°	0.5	0.1	11.1	13.1	18.9	21.2
	29°	0.5	0.1	11.6	13.7	19.9	22.2
	30°	0.5	0.1	12.1	14.3	20.7	23.1
	31°	0.5	0.1	12.7	14.9	21.6	24.1
	32°	0.5	0.1	13.2	15.5	22.4	25.1
	33°	0.5	0.1	13.8	16.1	23.3	26.0
	34°	0.5	0.1	14.3	16.8	24.2	27.0
	35°	0.5	0.1	14.8	17.4	25.0	28.0
	36°	0.5	0.1	15.3	18.0	26.0	28.9
	37°	0.5	0.1	15.8	18.6	26.8	30.0
	38°	0.5	0.1	16.3	19.2	27.6	30.9
	39°	0.5	0.1	16.8	19.8	28.6	31.8
	40°	0.6	0.1	17.4	20.4	29.4	32.7
	41°	0.6	0.1	17.9	21.0	30.3	33.7
	42°	0.6	0.1	18.4	21.6	31.1	34.7
	43°	0.6	0.1	18.9	22.2	31.9	35.6
	44°	0.6	0.1	19.5	22.8	32.8	36.5



TEST NUMBER: P1431936
 CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	0.6	0.1	20.0	23.4	33.6	37.5
46°	0.6	0.1	20.5	24.0	34.4	38.4
47°	0.6	0.1	21.0	24.6	35.3	39.3
48°	0.6	0.1	21.4	25.1	36.1	40.1
49°	0.6	0.2	22.0	25.8	36.9	41.1
50°	0.6	0.2	22.5	26.3	37.7	41.9
51°	0.6	0.2	22.9	26.9	38.5	42.8
52°	0.6	0.2	23.4	27.5	39.2	43.7
53°	0.6	0.2	23.9	28.0	40.0	44.5
54°	0.6	0.2	24.4	28.5	40.7	45.4
55°	0.6	0.2	24.9	29.1	41.5	46.2
56°	0.6	0.3	25.3	29.6	42.2	47.1
57°	0.6	0.3	25.8	30.1	43.0	47.9
58°	0.6	0.3	26.2	30.6	43.8	48.7
59°	0.6	0.3	26.7	31.1	44.5	49.4
60°	0.7	0.3	27.1	31.6	45.2	50.3
61°	0.7	0.3	27.5	32.1	45.8	51.0
62°	0.7	0.3	27.9	32.6	46.5	51.8
63°	0.7	0.3	28.4	33.1	47.2	52.6
64°	0.7	0.3	28.8	33.6	47.8	53.3
65°	0.7	0.3	29.2	34.0	48.5	54.0
66°	0.7	0.3	29.5	34.4	49.2	54.7
67°	0.7	0.4	29.9	34.9	49.7	55.4
68°	0.7	0.4	30.3	35.3	50.3	56.1
69°	0.7	0.4	30.6	35.7	51.0	56.7
70°	0.7	0.4	31.0	36.1	51.6	57.4
71°	0.7	0.4	31.3	36.5	52.1	58.0
72°	0.7	0.5	31.6	36.9	52.6	58.6
73°	0.7	0.5	32.0	37.2	53.1	59.2
74°	0.7	0.5	32.3	37.6	53.6	59.8
75°	0.7	0.5	32.6	38.0	54.1	60.3
76°	0.7	0.5	32.9	38.3	54.6	60.9
77°	0.7	0.5	33.1	38.6	55.1	61.4
78°	0.7	0.5	33.4	38.9	55.5	61.8
79°	0.7	0.6	33.7	39.2	55.9	62.4
80°	0.7	0.6	33.9	39.5	56.4	62.8
81°	0.7	0.6	34.2	39.8	56.8	63.2
82°	0.7	0.6	34.4	40.1	57.1	63.7
83°	0.7	0.6	34.6	40.3	57.5	64.1
84°	0.8	0.6	34.8	40.5	57.8	64.4
85°	0.8	0.6	35.0	40.7	58.1	64.7
86°	0.8	0.6	35.1	40.9	58.4	65.1
87°	0.8	0.6	35.3	41.1	58.6	65.3
88°	0.8	0.6	35.4	41.3	58.9	65.6
89°	0.8	0.6	35.6	41.4	59.1	65.8



TEST NUMBER: P1431936
 CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.8	0.6	35.6	41.5	59.3	66.0
91°	0.8	0.6	35.7	41.6	59.4	66.3
92°	0.8	0.7	35.8	41.7	59.6	66.4
93°	0.8	0.7	35.8	41.8	59.7	66.6
94°	0.8	0.7	35.9	41.9	59.8	66.7
95°	0.8	0.7	35.9	42.0	59.9	66.8
96°	0.8	0.7	36.0	42.0	60.0	66.8
97°	0.8	0.7	36.0	42.0	60.0	66.9
98°	0.8	0.8	36.0	42.1	60.1	67.0
99°	0.7	0.8	36.0	42.1	60.1	66.9
100°	0.7	0.8	36.0	42.1	60.0	66.9
101°	0.7	0.9	35.9	42.0	60.0	66.9
102°	0.7	0.9	35.9	42.0	59.9	66.8
103°	0.7	0.9	35.8	41.9	59.8	66.7
104°	0.7	1.0	35.7	41.8	59.7	66.6
105°	0.7	1.0	35.6	41.7	59.6	66.4
106°	0.7	1.0	35.4	41.6	59.4	66.2
107°	0.7	1.0	35.3	41.4	59.2	65.9
108°	0.7	1.0	35.2	41.3	59.0	65.7
109°	0.7	1.1	35.0	41.1	58.7	65.4
110°	0.7	1.1	34.8	40.9	58.5	65.1
111°	0.7	1.1	34.5	40.7	58.2	64.8
112°	0.7	1.1	34.3	40.4	57.9	64.4
113°	0.7	1.1	34.1	40.2	57.5	64.0
114°	0.7	1.1	33.8	39.9	57.2	63.6
115°	0.7	1.1	33.5	39.7	56.7	63.2
116°	0.7	1.1	33.2	39.4	56.3	62.6
117°	0.7	1.0	32.9	39.0	55.9	62.1
118°	0.6	1.0	32.6	38.7	55.4	61.6
119°	0.6	1.0	32.3	38.4	54.9	61.1
120°	0.6	1.0	31.9	38.0	54.4	60.5
121°	0.6	1.0	31.5	37.6	53.8	59.9
122°	0.6	1.0	31.2	37.2	53.3	59.2
123°	0.6	0.9	30.7	36.8	52.6	58.6
124°	0.6	0.9	30.3	36.3	52.0	57.9
125°	0.6	0.9	29.9	35.8	51.4	57.2
126°	0.6	0.9	29.5	35.3	50.7	56.4
127°	0.6	0.9	29.0	34.8	50.0	55.7
128°	0.6	0.9	28.5	34.4	49.3	54.9
129°	0.6	0.9	28.0	33.8	48.6	54.0
130°	0.6	0.8	27.5	33.2	47.8	53.2
131°	0.6	0.8	27.0	32.7	47.0	52.3
132°	0.6	0.8	26.5	32.1	46.3	51.5
133°	0.6	0.8	26.0	31.5	45.4	50.6
134°	0.5	0.8	25.4	30.9	44.6	49.5



TEST NUMBER: P1431936
 CATALOG NUMBER: HSLUNVMW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	0.7	24.8	30.3	43.7	48.6
136°	0.5	0.7	24.3	29.6	42.9	47.6
137°	0.5	0.7	23.6	29.0	41.9	46.7
138°	0.5	0.7	23.0	28.3	40.9	45.6
139°	0.5	0.6	22.4	27.6	40.0	44.6
140°	0.5	0.6	21.8	26.9	39.1	43.5
141°	0.5	0.6	21.2	26.2	38.1	42.4
142°	0.5	0.6	20.6	25.5	37.0	41.3
143°	0.5	0.6	19.9	24.7	36.0	40.1
144°	0.5	0.5	19.3	24.0	35.0	39.0
145°	0.5	0.5	18.6	23.2	34.0	37.8
146°	0.5	0.5	18.0	22.5	32.9	36.7
147°	0.5	0.5	17.3	21.7	31.8	35.5
148°	0.5	0.5	16.6	21.0	30.7	34.3
149°	0.5	0.5	15.9	20.1	29.6	33.0
150°	0.5	0.4	15.3	19.3	28.5	31.8
151°	0.4	0.4	14.6	18.5	27.3	30.5
152°	0.4	0.4	13.9	17.7	26.1	29.3
153°	0.4	0.4	13.2	16.9	25.0	28.0
154°	0.4	0.4	12.6	16.1	23.9	26.7
155°	0.4	0.3	11.9	15.3	22.7	25.4
156°	0.4	0.3	11.3	14.5	21.6	24.1
157°	0.4	0.3	10.6	13.7	20.4	22.9
158°	0.4	0.3	9.9	12.9	19.2	21.6
159°	0.4	0.3	9.3	12.0	18.1	20.2
160°	0.4	0.3	8.6	11.3	16.9	18.9
161°	0.4	0.3	8.0	10.5	15.7	17.7
162°	0.4	0.3	7.3	9.7	14.6	16.4
163°	0.3	0.2	6.7	8.9	13.5	15.2
164°	0.3	0.2	6.1	8.2	12.4	13.9
165°	0.3	0.2	5.5	7.5	11.2	12.6
166°	0.3	0.2	4.9	6.7	10.2	11.4
167°	0.3	0.1	4.4	6.0	9.1	10.3
168°	0.3	0.1	3.9	5.1	8.1	9.1
169°	0.2	0.1	3.4	4.1	7.1	8.0
170°	0.1	0.1	2.8	3.1	6.1	6.9
171°	0.1	0.1	1.8	2.2	4.9	5.8
172°	0.0	0.1	1.0	1.4	4.1	4.9
173°	0.0	0.1	0.3	1.1	3.3	3.9
174°	0.0	0.1	0.0	0.7	2.6	3.0
175°	0.0	0.0	0.0	0.5	2.0	2.2
176°	0.0	0.0	0.0	0.1	1.3	1.5
177°	0.0	0.0	0.0	0.0	0.3	0.6
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: P1431936
CATALOG NUMBER: HSLUNVMW-3500K

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)