

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: P294434

Luminaire Tested: **RL6069S1EWHDM-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1809075B001)
Test Lab: EVERFINE
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL6069S1EWHDM-3000K
Description: 6 IN HALO RL DIRECT MOUNT (600 LUMEN) - 3000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 706.09 (1 lamp)
Luminaire Lumens: 719.0 lumens
Efficiency: 101.8%
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

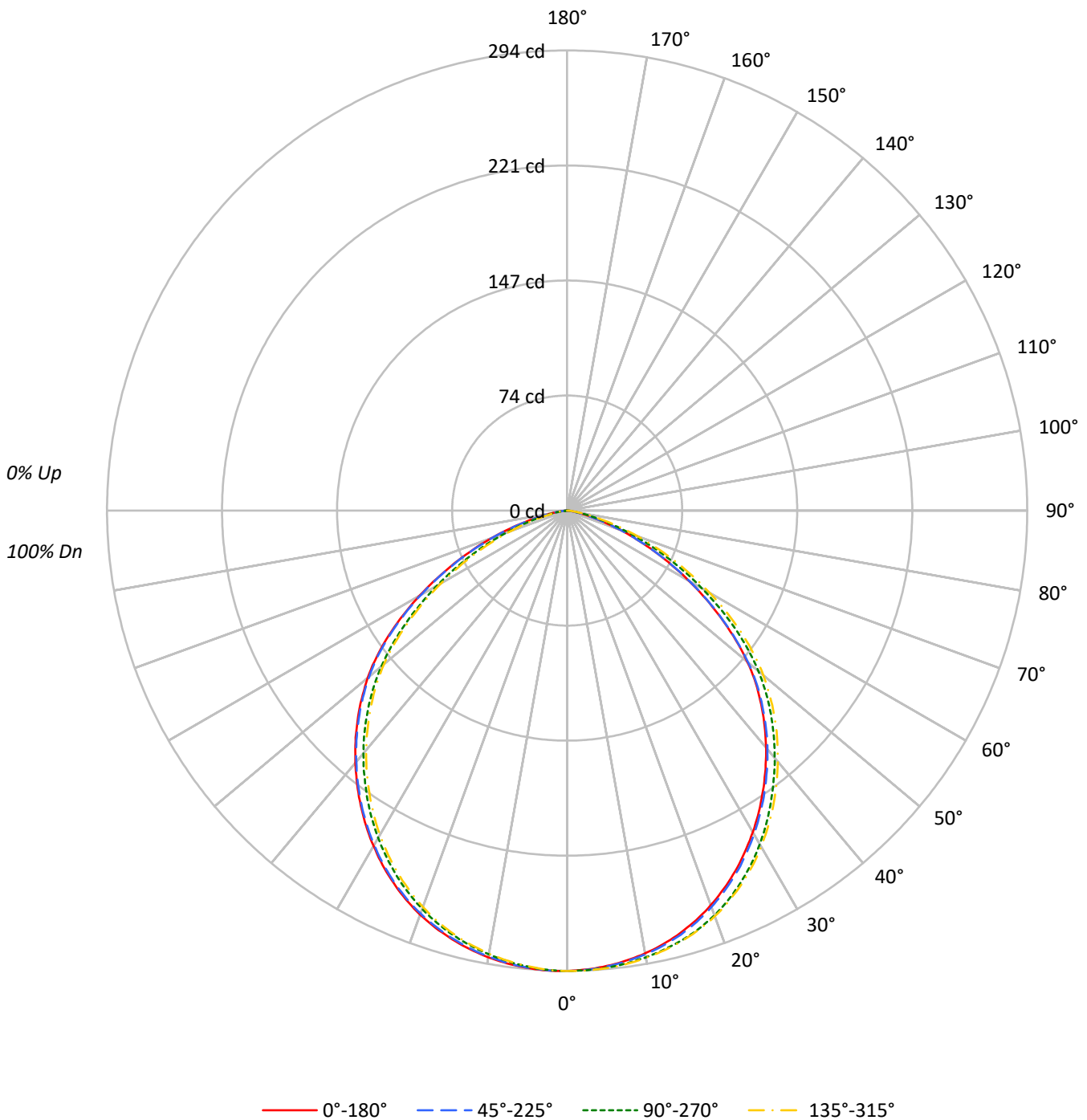
Input Watts (W): 8.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102					102			
1	112	108	104	101	110	106	102	99	101	99	96	98	95	93	94	92	90					88				
2	103	95	89	84	100	94	88	83	90	85	81	87	83	79	84	80	77					75				
3	94	85	77	71	92	83	76	70	80	74	69	77	72	68	75	70	67					65				
4	87	75	67	61	85	74	66	60	72	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	52	65	57	52	63	56	51	61	55	51					49				
6	74	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	69	56	47	41	67	55	47	41	53	46	41	52	45	40	50	45	40					38				
8	64	51	42	37	63	50	42	37	49	42	36	48	41	36	46	40	36					34				
9	60	47	39	33	59	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16128	16128	16128	16128
5°	16069	16129	16140	16091
10°	15987	16132	16132	16026
15°	15857	16124	16095	15942
20°	15652	16055	16026	15798
25°	15370	15866	15878	15582
30°	15021	15585	15654	15287
35°	14609	15192	15392	14924
40°	14148	14763	15071	14491
45°	13591	14273	14676	13963
50°	12810	13603	14183	13219
55°	11517	12492	13295	12062
60°	9868	10931	11951	10547
65°	7965	9067	10248	8782
70°	5802	6924	8223	6684
75°	3516	4533	5740	4321
80°	1799	2368	3252	2210
85°	881	1447	2013	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.8	3.9	3.9
10°-20°	79.5	11.1	11.3
20°-30°	119.3	16.6	16.9
30°-40°	140.5	19.5	19.9
40°-50°	140.4	19.5	19.9
50°-60°	115.3	16.0	16.3
60°-70°	69.3	9.6	9.8
70°-80°	24.0	3.3	3.4
80°-90°	2.9	0.4	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	226.7	31.5	32.1
0°-40°	367.1	51.1	52.0
0°-60°	622.9	86.6	88.2
0°-90°	719.0	100.0	101.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	719.0	100.0	101.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	294	294	294	294	294	
5°	292	293	293	292	292	28
15°	279	284	284	281	279	79
25°	254	262	262	258	254	117
35°	218	227	230	223	218	136
45°	175	184	189	180	175	135
55°	120	131	139	126	120	107
65°	61	70	79	68	61	61
75°	17	21	27	20	17	19
85°	1	2	3	2	1	2
90°	0	0	0	0	0	



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
0.5°	294.0	294.0	294.2	294.4	294.1	294.1	294.2	294.2	294.2	294.2	294.2
1°	293.9	293.9	294.1	294.4	294.1	294.2	294.2	294.2	294.2	294.2	294.2
1.5°	293.8	293.7	293.9	294.3	294.0	294.2	294.2	294.2	294.2	294.2	294.2
2°	293.6	293.6	293.8	294.2	294.0	294.1	294.2	294.2	294.2	294.2	294.1
2.5°	293.5	293.4	293.6	294.1	293.9	294.0	294.1	294.2	294.1	294.1	293.9
3°	293.3	293.3	293.5	293.9	293.8	293.9	294.0	294.0	294.0	293.9	293.8
3.5°	293.0	293.1	293.2	293.7	293.6	293.8	293.8	293.9	293.8	293.8	293.6
4°	292.6	292.7	293.0	293.5	293.5	293.7	293.7	293.8	293.7	293.6	293.4
4.5°	292.4	292.4	292.7	293.3	293.3	293.5	293.6	293.6	293.5	293.4	293.3
5°	292.0	292.1	292.4	293.1	293.1	293.3	293.4	293.5	293.3	293.2	293.1
5.5°	291.7	291.8	292.0	292.7	292.9	293.1	293.2	293.2	293.1	292.9	292.8
6°	291.3	291.4	291.7	292.4	292.6	292.8	293.1	292.9	292.8	292.6	292.5
6.5°	290.9	291.0	291.3	292.0	292.4	292.6	292.7	292.6	292.5	292.2	292.2
7°	290.4	290.6	290.9	291.7	292.0	292.2	292.5	292.3	292.2	291.9	291.9
7.5°	289.9	290.2	290.4	291.3	291.7	291.9	292.1	292.0	291.9	291.6	291.5
8°	289.4	289.7	290.0	290.9	291.4	291.6	291.8	291.6	291.5	291.2	291.2
8.5°	289.0	289.2	289.5	290.4	291.0	291.2	291.4	291.3	291.1	290.8	290.7
9°	288.4	288.6	289.0	289.9	290.6	290.8	291.0	290.8	290.7	290.3	290.2
9.5°	287.9	288.1	288.4	289.5	290.2	290.4	290.6	290.3	290.2	289.9	289.8
10°	287.2	287.5	287.9	288.9	289.8	290.0	290.2	289.9	289.8	289.3	289.3
10.5°	286.5	286.9	287.3	288.4	289.3	289.6	289.7	289.3	289.3	288.9	288.8
11°	285.9	286.2	286.6	287.8	288.8	289.1	289.2	288.9	288.8	288.3	288.3
11.5°	285.2	285.5	286.0	287.2	288.3	288.6	288.8	288.3	288.2	287.8	287.8
12°	284.5	284.8	285.3	286.6	287.8	288.1	288.2	287.8	287.7	287.1	287.1
12.5°	283.7	284.1	284.5	285.9	287.2	287.5	287.7	287.2	287.0	286.5	286.5
13°	282.9	283.4	283.8	285.3	286.6	286.9	287.1	286.5	286.4	285.8	285.9
13.5°	282.1	282.6	283.0	284.5	286.0	286.3	286.5	285.8	285.8	285.1	285.2
14°	281.2	281.8	282.2	283.8	285.4	285.7	285.9	285.2	285.1	284.4	284.4
14.5°	280.4	280.9	281.3	283.0	284.7	285.0	285.2	284.4	284.3	283.7	283.7
15°	279.4	280.0	280.5	282.3	284.1	284.3	284.5	283.7	283.6	282.9	282.9
15.5°	278.4	279.0	279.5	281.3	283.3	283.6	283.8	282.9	282.8	282.1	282.2
16°	277.4	278.0	278.6	280.4	282.5	282.8	283.0	282.1	282.0	281.3	281.4
16.5°	276.4	277.0	277.5	279.4	281.8	282.1	282.3	281.3	281.2	280.5	280.6
17°	275.3	276.0	276.5	278.4	281.0	281.2	281.4	280.5	280.4	279.5	279.6
17.5°	274.3	274.9	275.5	277.4	280.1	280.4	280.7	279.6	279.5	278.7	278.8
18°	273.1	273.8	274.3	276.3	279.2	279.4	279.7	278.7	278.6	277.7	277.9
18.5°	272.0	272.6	273.2	275.2	278.2	278.5	278.9	277.7	277.6	276.8	277.0
19°	270.8	271.4	272.0	274.0	277.3	277.5	277.9	276.9	276.7	275.8	276.0
19.5°	269.6	270.2	270.9	272.9	276.2	276.5	276.9	275.8	275.7	274.9	275.0
20°	268.3	269.0	269.6	271.6	275.2	275.5	275.9	274.9	274.7	273.9	274.0
20.5°	267.0	267.6	268.3	270.4	274.1	274.4	274.8	273.8	273.7	272.9	272.9
21°	265.7	266.5	267.0	269.2	272.9	273.3	273.7	272.7	272.6	271.7	271.8
21.5°	264.3	265.0	265.7	267.9	271.7	272.1	272.5	271.5	271.4	270.6	270.7
22°	262.9	263.6	264.3	266.6	270.4	270.9	271.3	270.4	270.2	269.4	269.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	261.5	262.2	262.9	265.1	269.2	269.7	270.0	269.1	269.0	268.2	268.3
23°	260.1	260.8	261.5	263.8	267.9	268.5	268.8	267.9	267.7	266.9	267.0
23.5°	258.7	259.3	260.1	262.3	266.6	267.1	267.5	266.7	266.6	265.7	265.7
24°	257.2	257.9	258.6	260.9	265.1	265.7	266.3	265.3	265.2	264.4	264.5
24.5°	255.6	256.5	257.1	259.4	263.7	264.3	264.9	264.0	263.9	263.0	263.1
25°	254.1	254.9	255.5	257.9	262.3	262.9	263.5	262.6	262.5	261.6	261.8
25.5°	252.6	253.3	254.0	256.4	260.8	261.4	262.1	261.2	261.1	260.2	260.4
26°	250.9	251.8	252.5	254.8	259.3	259.9	260.6	259.8	259.7	258.8	259.0
26.5°	249.3	250.1	250.8	253.1	257.8	258.4	259.2	258.3	258.3	257.3	257.5
27°	247.6	248.5	249.1	251.5	256.2	257.0	257.6	256.9	256.8	255.8	256.0
27.5°	246.0	246.8	247.5	249.8	254.7	255.4	256.1	255.4	255.3	254.3	254.6
28°	244.2	245.2	245.8	248.1	253.0	253.6	254.6	253.7	253.8	252.9	253.0
28.5°	242.5	243.4	244.0	246.4	251.4	252.0	252.9	252.2	252.3	251.2	251.5
29°	240.8	241.7	242.4	244.7	249.6	250.3	251.3	250.5	250.6	249.6	249.9
29.5°	239.0	239.9	240.6	242.9	247.9	248.6	249.6	248.9	249.0	248.0	248.3
30°	237.3	238.2	238.8	241.1	246.2	246.8	248.0	247.2	247.3	246.5	246.7
30.5°	235.5	236.3	237.0	239.3	244.3	245.1	246.2	245.6	245.8	244.8	245.1
31°	233.6	234.5	235.2	237.5	242.5	243.3	244.4	243.9	244.2	243.1	243.4
31.5°	231.8	232.7	233.3	235.6	240.7	241.4	242.7	242.1	242.5	241.4	241.7
32°	229.9	230.9	231.4	233.8	238.8	239.5	240.9	240.3	240.7	239.6	239.9
32.5°	228.0	229.0	229.5	231.9	236.9	237.6	239.1	238.6	238.9	237.9	238.2
33°	226.1	227.1	227.6	230.0	235.0	235.7	237.3	236.8	237.2	236.1	236.4
33.5°	224.1	225.2	225.6	228.0	233.0	233.8	235.5	235.0	235.4	234.3	234.6
34°	222.2	223.3	223.8	226.0	231.0	231.8	233.6	233.1	233.6	232.5	232.8
34.5°	220.2	221.3	221.8	224.0	229.0	229.8	231.7	231.3	231.8	230.7	231.0
35°	218.3	219.4	219.8	222.0	227.0	227.8	229.8	229.4	230.0	228.9	229.2
35.5°	216.3	217.5	217.8	220.0	225.0	225.7	227.8	227.5	228.1	227.0	227.3
36°	214.3	215.4	215.8	217.9	223.0	223.7	225.8	225.6	226.2	225.1	225.4
36.5°	212.2	213.4	213.7	215.9	221.0	221.7	223.8	223.6	224.2	223.2	223.5
37°	210.2	211.3	211.6	213.8	218.9	219.6	221.8	221.8	222.3	221.2	221.5
37.5°	208.2	209.3	209.7	211.7	216.8	217.6	219.7	219.8	220.3	219.3	219.6
38°	206.1	207.3	207.6	209.6	214.8	215.6	217.7	217.8	218.4	217.4	217.6
38.5°	204.1	205.2	205.5	207.5	212.7	213.5	215.7	215.8	216.4	215.4	215.7
39°	202.0	203.1	203.4	205.4	210.6	211.4	213.6	213.8	214.5	213.4	213.7
39.5°	199.8	201.0	201.2	203.3	208.6	209.3	211.5	211.7	212.5	211.4	211.6
40°	197.7	198.9	199.0	201.1	206.3	207.2	209.4	209.7	210.6	209.4	209.6
40.5°	195.5	196.7	197.0	198.9	204.1	205.0	207.2	207.6	208.4	207.4	207.6
41°	193.4	194.6	194.7	196.7	202.0	202.8	205.1	205.6	206.3	205.3	205.5
41.5°	191.2	192.3	192.5	194.5	199.8	200.7	203.0	203.4	204.3	203.3	203.4
42°	189.0	190.1	190.2	192.2	197.6	198.5	200.9	201.4	202.2	201.2	201.3
42.5°	186.7	187.9	188.0	190.0	195.5	196.3	198.7	199.2	200.1	199.0	199.3
43°	184.5	185.7	185.7	187.7	193.2	194.0	196.6	197.0	198.1	197.0	197.1
43.5°	182.2	183.4	183.3	185.4	191.0	191.8	194.4	194.9	195.9	194.8	194.9
44°	179.9	181.1	181.1	183.1	188.7	189.5	192.1	192.6	193.7	192.6	192.8
44.5°	177.6	178.8	178.7	180.7	186.3	187.2	189.8	190.4	191.5	190.4	190.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	175.3	176.5	176.4	178.4	184.1	184.9	187.5	188.2	189.3	188.3	188.4
45.5°	173.0	174.2	174.0	175.9	181.8	182.7	185.2	185.9	187.1	186.1	186.1
46°	170.6	171.9	171.6	173.6	179.4	180.3	182.9	183.6	184.9	183.9	184.0
46.5°	168.3	169.6	169.2	171.1	177.1	178.0	180.6	181.4	182.7	181.6	181.7
47°	165.9	167.1	166.9	168.7	174.7	175.6	178.2	179.0	180.5	179.4	179.3
47.5°	163.5	164.7	164.4	166.4	172.2	173.3	175.8	176.6	178.0	177.0	177.0
48°	161.1	162.1	161.9	163.7	169.8	170.9	173.4	174.2	175.7	174.7	174.7
48.5°	158.4	159.5	159.3	161.2	167.2	168.5	170.9	171.9	173.3	172.4	172.3
49°	155.9	156.9	156.6	158.6	164.7	166.0	168.6	169.4	171.0	170.1	170.0
49.5°	153.1	154.1	153.8	156.1	162.1	163.4	166.2	167.1	168.6	167.7	167.7
50°	150.2	151.3	151.0	153.3	159.5	160.8	163.6	164.6	166.3	165.3	165.2
50.5°	147.4	148.6	148.0	150.5	156.9	158.1	161.1	162.0	163.8	162.8	162.9
51°	144.5	145.6	145.2	147.5	154.1	155.3	158.5	159.4	161.3	160.3	160.3
51.5°	141.7	142.8	142.3	144.7	151.3	152.7	155.8	156.7	158.8	157.8	157.7
52°	138.8	139.8	139.2	141.7	148.4	149.7	152.9	154.1	156.0	155.1	155.1
52.5°	135.7	136.8	136.3	138.7	145.5	146.9	150.2	151.3	153.3	152.4	152.4
53°	132.8	133.9	133.2	135.8	142.7	144.0	147.3	148.4	150.6	149.6	149.6
53.5°	129.6	130.7	130.2	132.8	139.8	141.0	144.6	145.5	147.7	146.8	146.8
54°	126.7	127.7	127.1	129.7	136.7	138.0	141.6	142.6	144.9	143.9	144.0
54.5°	123.5	124.6	124.1	126.7	133.7	135.1	138.6	139.8	142.0	141.1	141.1
55°	120.5	121.5	121.0	123.6	130.7	132.0	135.7	136.9	139.1	138.3	138.2
55.5°	117.5	118.3	118.0	120.4	127.6	129.2	132.6	133.8	136.1	135.2	135.1
56°	114.4	115.2	114.9	117.3	124.4	126.1	129.6	130.9	133.1	132.3	132.2
56.5°	111.4	112.2	111.9	114.3	121.4	123.0	126.7	128.0	130.2	129.4	129.2
57°	108.3	109.1	108.7	111.3	118.3	119.8	123.7	124.8	127.3	126.3	126.2
57.5°	105.2	106.0	105.5	108.1	115.1	116.7	120.5	121.8	124.1	123.3	123.3
58°	102.1	102.9	102.5	105.0	112.0	113.7	117.5	118.8	121.1	120.2	120.2
58.5°	99.1	99.9	99.4	102.0	108.9	110.5	114.4	115.7	118.1	117.2	117.1
59°	96.1	96.8	96.4	98.8	105.8	107.5	111.4	112.7	114.9	114.2	114.1
59.5°	93.0	93.6	93.3	95.7	102.7	104.4	108.3	109.6	112.0	111.1	111.1
60°	90.0	90.7	90.3	92.7	99.7	101.3	105.2	106.6	109.0	108.1	108.0
60.5°	87.1	87.8	87.3	89.8	96.7	98.2	102.2	103.5	105.9	105.0	105.0
61°	84.1	84.8	84.2	86.7	93.6	95.1	99.2	100.4	102.9	102.0	102.0
61.5°	81.1	81.8	81.3	83.8	90.5	92.0	96.1	97.5	99.9	98.9	99.0
62°	78.2	78.9	78.4	80.8	87.6	89.1	93.1	94.3	96.9	95.9	95.9
62.5°	75.3	76.0	75.6	77.9	84.5	86.1	90.1	91.4	93.8	92.9	92.9
63°	72.5	73.2	72.7	75.0	81.5	83.2	87.1	88.4	90.8	90.0	89.9
63.5°	69.8	70.3	69.9	72.2	78.6	80.2	84.1	85.6	87.8	87.1	87.0
64°	66.9	67.6	67.1	69.3	75.8	77.2	81.3	82.5	84.9	84.1	84.0
64.5°	64.2	64.8	64.3	66.5	72.8	74.4	78.2	79.6	81.9	81.1	81.1
65°	61.4	62.0	61.5	63.7	69.9	71.5	75.4	76.7	79.0	78.1	78.1
65.5°	58.7	59.3	58.8	61.0	67.2	68.6	72.5	73.8	76.1	75.2	75.4
66°	56.0	56.7	56.1	58.3	64.3	65.9	69.5	70.9	73.2	72.5	72.4
66.5°	53.5	53.9	53.6	55.5	61.5	63.1	66.8	68.1	70.4	69.7	69.5
67°	50.8	51.4	50.8	53.0	58.8	60.3	63.9	65.3	67.5	66.8	66.7



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	48.3	48.8	48.3	50.4	56.1	57.6	61.2	62.5	64.7	64.0	64.0
68°	45.8	46.3	45.8	47.8	53.5	55.0	58.6	59.7	62.0	61.2	61.3
68.5°	43.3	43.8	43.3	45.3	50.9	52.2	55.8	57.0	59.3	58.5	58.5
69°	40.9	41.4	40.9	42.8	48.2	49.5	53.2	54.2	56.7	55.8	55.8
69.5°	38.4	39.1	38.5	40.5	45.7	47.0	50.5	51.6	53.8	53.1	53.2
70°	36.2	36.6	36.2	37.9	43.2	44.5	47.9	49.0	51.3	50.5	50.5
70.5°	33.9	34.3	33.9	35.7	40.8	42.0	45.3	46.5	48.6	47.9	47.9
71°	31.7	32.1	31.6	33.5	38.3	39.6	42.8	43.9	46.1	45.3	45.4
71.5°	29.5	30.1	29.5	31.2	36.0	37.2	40.5	41.4	43.5	42.8	43.0
72°	27.4	28.1	27.4	29.2	33.7	34.8	37.9	38.9	41.0	40.3	40.5
72.5°	25.5	26.0	25.4	26.9	31.5	32.5	35.6	36.5	38.6	37.9	38.0
73°	23.6	23.9	23.6	25.0	29.4	30.4	33.3	34.3	36.1	35.5	35.6
73.5°	21.8	22.0	21.8	23.1	27.1	28.3	31.1	32.0	33.8	33.3	33.3
74°	20.0	20.2	19.9	21.3	25.2	26.2	28.8	29.8	31.5	31.0	31.0
74.5°	18.3	18.5	18.2	19.5	23.3	24.1	26.7	27.5	29.3	28.9	28.9
75°	16.6	16.9	16.6	17.7	21.4	22.1	24.8	25.5	27.1	26.8	26.8
75.5°	15.0	15.3	14.9	16.2	19.6	20.3	22.8	23.5	25.1	24.6	24.9
76°	13.6	14.0	13.5	14.6	17.9	18.5	20.8	21.5	23.2	22.6	22.9
76.5°	12.3	12.5	12.3	13.2	16.2	16.8	19.0	19.7	21.2	20.6	20.8
77°	11.2	11.1	11.1	12.0	14.6	15.4	17.3	17.9	19.4	18.9	19.1
77.5°	9.8	10.0	9.7	10.8	13.2	13.9	15.8	16.3	17.6	17.2	17.3
78°	8.9	9.1	8.8	9.4	12.0	12.5	14.3	14.7	16.1	15.7	15.8
78.5°	7.7	7.9	7.7	8.5	10.8	11.3	12.7	13.1	14.5	14.1	14.3
79°	7.0	7.1	6.8	7.5	9.4	9.9	11.4	11.7	12.8	12.6	12.7
79.5°	6.1	6.2	6.0	6.6	8.6	9.0	10.3	10.6	11.6	11.3	11.3
80°	5.7	5.7	5.4	5.8	7.5	7.7	9.2	9.5	10.3	10.0	10.2
80.5°	5.0	4.9	4.8	5.1	6.6	7.0	7.9	8.3	9.2	8.9	9.1
81°	4.4	4.3	4.2	4.7	5.8	6.1	7.0	7.4	8.0	7.8	7.8
81.5°	4.0	4.0	4.0	4.0	5.1	5.6	6.1	6.4	7.1	7.0	6.9
82°	3.6	3.7	3.4	3.9	4.7	4.9	5.7	5.8	6.2	6.0	6.0
82.5°	3.2	3.2	3.1	3.2	4.1	4.3	4.8	5.1	5.7	5.4	5.6
83°	2.9	2.9	2.7	2.9	4.0	4.0	4.2	4.5	4.9	4.8	4.8
83.5°	2.4	2.4	2.4	2.4	3.3	3.5	4.0	4.1	4.2	4.3	4.1
84°	2.3	2.2	2.3	2.3	3.0	3.2	3.3	3.9	4.0	4.0	4.0
84.5°	1.8	1.7	1.7	2.1	2.5	2.8	3.1	3.2	3.6	3.5	3.3
85°	1.4	1.4	1.5	1.7	2.3	2.4	2.7	2.9	3.2	3.2	3.1
85.5°	1.5	1.5	1.6	1.3	2.2	2.3	2.3	2.5	2.8	2.8	2.8
86°	0.7	0.7	0.7	0.9	1.7	1.6	2.2	2.3	2.3	2.4	2.3
86.5°	0.6	0.5	0.6	0.6	1.3	1.4	1.6	2.1	2.2	2.3	2.2
87°	0.5	0.4	0.4	0.5	1.0	1.6	1.4	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.6	0.8	1.4	1.4	1.4	1.5	1.4
88°	0.0	0.0	0.0	0.3	0.5	0.6	0.6	0.8	1.4	1.5	1.4
88.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.6	0.6	0.7	0.6
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	294.2	294.2	294.2	294.2	294.2	294.2
0.5°	294.5	294.1	294.0	294.1	294.0	294.0
1°	294.5	294.0	293.9	294.0	293.9	293.9
1.5°	294.4	293.9	293.8	293.9	293.8	293.8
2°	294.4	293.8	293.7	293.8	293.6	293.6
2.5°	294.3	293.6	293.5	293.5	293.5	293.5
3°	294.1	293.5	293.3	293.4	293.3	293.3
3.5°	294.0	293.2	293.1	293.1	293.1	293.0
4°	293.7	293.0	292.9	292.8	292.8	292.6
4.5°	293.5	292.7	292.6	292.5	292.4	292.4
5°	293.3	292.4	292.3	292.2	292.1	292.0
5.5°	293.1	292.1	291.9	291.8	291.8	291.7
6°	292.7	291.7	291.6	291.5	291.4	291.3
6.5°	292.4	291.4	291.3	291.1	291.0	290.9
7°	292.0	290.9	290.8	290.6	290.6	290.4
7.5°	291.7	290.4	290.4	290.1	290.1	289.9
8°	291.3	290.0	289.9	289.7	289.7	289.4
8.5°	290.8	289.6	289.5	289.2	289.1	289.0
9°	290.4	289.0	288.9	288.6	288.6	288.4
9.5°	289.9	288.5	288.4	288.1	288.0	287.9
10°	289.4	287.9	287.9	287.5	287.5	287.2
10.5°	288.9	287.3	287.3	286.8	286.9	286.5
11°	288.3	286.7	286.7	286.2	286.2	285.9
11.5°	287.7	286.1	286.0	285.5	285.5	285.2
12°	287.1	285.4	285.4	284.8	284.8	284.5
12.5°	286.4	284.7	284.7	284.2	284.0	283.7
13°	285.8	284.0	284.0	283.4	283.3	282.9
13.5°	285.1	283.3	283.3	282.6	282.5	282.1
14°	284.4	282.7	282.5	281.8	281.7	281.2
14.5°	283.6	281.7	281.7	281.0	280.8	280.4
15°	282.9	280.9	280.9	280.1	279.9	279.4
15.5°	282.1	280.1	280.0	279.2	278.9	278.4
16°	281.2	279.2	279.1	278.2	277.9	277.4
16.5°	280.4	278.2	278.2	277.3	277.0	276.4
17°	279.5	277.3	277.2	276.2	275.9	275.3
17.5°	278.7	276.2	276.2	275.2	274.9	274.3
18°	277.7	275.2	275.2	274.1	273.8	273.1
18.5°	276.8	274.2	274.1	273.0	272.6	272.0
19°	275.8	273.1	273.0	271.8	271.4	270.8
19.5°	274.8	272.0	271.8	270.7	270.2	269.6
20°	273.8	270.8	270.7	269.5	269.1	268.3
20.5°	272.7	269.6	269.5	268.2	267.7	267.0
21°	271.6	268.5	268.3	267.0	266.6	265.7
21.5°	270.4	267.1	267.0	265.6	265.1	264.3
22°	269.2	265.9	265.7	264.3	263.8	262.9



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	268.0	264.6	264.4	262.9	262.3	261.5
23°	266.8	263.2	263.0	261.5	261.0	260.1
23.5°	265.4	261.9	261.6	260.1	259.5	258.7
24°	264.1	260.5	260.3	258.8	258.1	257.2
24.5°	262.7	259.0	258.8	257.2	256.7	255.6
25°	261.3	257.6	257.4	255.7	255.1	254.1
25.5°	259.9	256.1	255.9	254.2	253.6	252.6
26°	258.5	254.5	254.3	252.6	252.1	250.9
26.5°	257.1	253.0	252.8	251.1	250.4	249.3
27°	255.5	251.5	251.2	249.4	248.8	247.6
27.5°	254.0	249.9	249.6	247.8	247.1	246.0
28°	252.5	248.2	248.0	246.1	245.5	244.2
28.5°	250.9	246.6	246.3	244.5	243.8	242.5
29°	249.2	244.9	244.6	242.8	242.1	240.8
29.5°	247.6	243.2	242.8	241.0	240.4	239.0
30°	246.0	241.5	241.1	239.2	238.5	237.3
30.5°	244.5	239.7	239.3	237.5	236.7	235.5
31°	242.7	238.0	237.4	235.7	234.9	233.6
31.5°	241.0	236.2	235.7	233.9	233.1	231.8
32°	239.1	234.3	233.8	232.0	231.3	229.9
32.5°	237.3	232.5	231.9	230.1	229.4	228.0
33°	235.6	230.7	230.1	228.1	227.5	226.1
33.5°	233.8	228.8	228.2	226.2	225.6	224.1
34°	232.0	226.9	226.2	224.3	223.6	222.2
34.5°	230.1	225.0	224.2	222.3	221.7	220.2
35°	228.2	223.0	222.2	220.3	219.8	218.3
35.5°	226.3	220.9	220.3	218.3	217.8	216.3
36°	224.3	218.9	218.3	216.3	215.8	214.3
36.5°	222.4	216.9	216.3	214.3	213.8	212.2
37°	220.4	214.9	214.2	212.3	211.8	210.2
37.5°	218.5	212.9	212.2	210.3	209.7	208.2
38°	216.5	211.0	210.1	208.3	207.7	206.1
38.5°	214.6	208.9	208.0	206.1	205.6	204.1
39°	212.5	206.8	206.0	204.0	203.6	202.0
39.5°	210.5	204.6	203.9	201.9	201.5	199.8
40°	208.4	202.5	201.7	199.7	199.3	197.7
40.5°	206.3	200.3	199.6	197.5	197.1	195.5
41°	204.2	198.2	197.3	195.4	195.0	193.4
41.5°	202.1	196.0	195.2	193.3	192.8	191.2
42°	199.9	193.8	193.1	191.0	190.6	189.0
42.5°	197.7	191.6	190.9	188.7	188.4	186.7
43°	195.5	189.3	188.6	186.5	186.2	184.5
43.5°	193.3	187.0	186.4	184.2	184.0	182.2
44°	191.1	184.7	184.2	181.9	181.6	179.9
44.5°	188.9	182.4	181.8	179.7	179.3	177.6



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	186.6	180.1	179.5	177.4	177.0	175.3
45.5°	184.3	177.7	177.2	175.1	174.8	173.0
46°	181.9	175.3	174.9	172.7	172.4	170.6
46.5°	179.6	172.8	172.5	170.4	170.1	168.3
47°	177.2	170.5	170.2	168.0	167.7	165.9
47.5°	174.9	167.9	167.8	165.6	165.3	163.5
48°	172.4	165.5	165.2	163.2	162.8	161.1
48.5°	170.0	162.9	162.8	160.7	160.3	158.4
49°	167.6	160.3	160.3	158.1	157.8	155.9
49.5°	165.2	157.7	157.7	155.5	155.2	153.1
50°	162.6	155.0	155.1	152.9	152.4	150.2
50.5°	160.0	152.3	152.4	150.0	149.6	147.4
51°	157.4	149.5	149.6	147.2	146.8	144.5
51.5°	154.8	146.7	146.7	144.3	143.9	141.7
52°	152.1	143.9	143.8	141.5	141.0	138.8
52.5°	149.3	140.9	141.0	138.7	138.1	135.7
53°	146.4	138.1	138.1	135.5	135.0	132.8
53.5°	143.6	135.1	135.1	132.6	132.1	129.6
54°	140.7	132.1	132.2	129.6	129.0	126.7
54.5°	137.7	129.1	129.1	126.5	125.9	123.5
55°	134.7	126.2	126.0	123.5	122.8	120.5
55.5°	131.8	123.2	123.1	120.6	119.8	117.5
56°	128.9	120.2	120.0	117.4	116.7	114.4
56.5°	125.9	117.2	117.0	114.3	113.6	111.4
57°	122.8	114.1	114.0	111.3	110.6	108.3
57.5°	119.7	111.1	111.1	108.2	107.5	105.2
58°	116.7	108.1	107.9	105.1	104.4	102.1
58.5°	113.7	105.1	104.8	102.2	101.4	99.1
59°	110.7	102.2	101.9	99.0	98.2	96.1
59.5°	107.7	99.1	98.9	96.1	95.2	93.0
60°	104.6	96.2	95.8	93.0	92.3	90.0
60.5°	101.6	93.2	92.9	90.1	89.3	87.1
61°	98.5	90.3	89.9	87.0	86.4	84.1
61.5°	95.5	87.4	86.9	84.0	83.4	81.1
62°	92.6	84.4	84.0	81.1	80.4	78.2
62.5°	89.7	81.6	81.1	78.2	77.4	75.3
63°	86.7	78.7	78.2	75.4	74.6	72.5
63.5°	83.9	76.0	75.4	72.6	71.8	69.8
64°	80.8	73.1	72.6	69.9	69.1	66.9
64.5°	77.9	70.3	69.8	67.0	66.2	64.2
65°	75.2	67.7	67.1	64.2	63.4	61.4
65.5°	72.3	64.8	64.2	61.4	60.7	58.7
66°	69.6	62.2	61.5	58.8	58.0	56.0
66.5°	66.8	59.5	58.8	56.1	55.2	53.5
67°	64.0	56.9	56.2	53.6	52.7	50.8



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	61.2	54.2	53.6	50.9	50.1	48.3
68°	58.6	51.7	51.2	48.3	47.6	45.8
68.5°	55.8	49.1	48.5	45.8	45.1	43.3
69°	53.2	46.6	46.0	43.3	42.7	40.9
69.5°	50.6	44.1	43.5	41.0	40.2	38.4
70°	48.1	41.7	41.0	38.4	37.8	36.2
70.5°	45.6	39.5	38.7	36.2	35.6	33.9
71°	43.1	37.1	36.4	33.9	33.3	31.7
71.5°	40.7	34.7	34.1	31.7	31.1	29.5
72°	38.1	32.5	31.9	29.5	29.0	27.4
72.5°	35.9	30.4	29.7	27.3	26.9	25.5
73°	33.6	28.5	27.7	25.5	25.0	23.6
73.5°	31.4	26.4	25.5	23.6	23.1	21.8
74°	29.2	24.3	23.5	21.7	21.2	20.0
74.5°	27.2	22.3	21.7	19.9	19.5	18.3
75°	25.1	20.4	19.8	18.2	17.8	16.6
75.5°	23.1	18.7	18.2	16.5	16.2	15.0
76°	21.2	17.0	16.5	15.0	14.6	13.6
76.5°	19.4	15.6	15.1	13.4	13.1	12.3
77°	17.6	14.1	13.5	12.1	11.9	11.2
77.5°	16.0	12.6	12.1	10.9	10.8	9.8
78°	14.5	11.3	10.9	9.6	9.4	8.9
78.5°	13.0	9.9	9.6	8.6	8.5	7.7
79°	11.5	8.9	8.6	7.7	7.5	7.0
79.5°	10.4	7.8	7.5	6.7	6.7	6.1
80°	9.4	7.0	6.6	5.9	5.8	5.7
80.5°	8.0	6.0	5.8	5.2	5.2	5.0
81°	7.2	5.4	5.1	4.7	4.7	4.4
81.5°	6.2	4.8	4.6	4.2	4.1	4.0
82°	5.8	4.2	4.1	3.9	3.9	3.6
82.5°	5.0	4.0	3.9	3.4	3.3	3.2
83°	4.3	3.4	3.2	3.0	3.0	2.9
83.5°	4.0	3.1	3.0	2.6	2.5	2.4
84°	3.7	2.8	2.4	2.3	2.3	2.3
84.5°	3.2	2.4	2.3	2.3	2.2	1.8
85°	2.9	2.3	2.2	1.7	1.7	1.4
85.5°	2.4	1.7	1.7	1.5	1.4	1.5
86°	2.2	1.4	1.3	1.6	1.4	0.7
86.5°	1.9	1.6	1.2	0.7	0.6	0.6
87°	1.5	0.7	0.6	0.6	0.5	0.5
87.5°	1.4	0.6	0.5	0.4	0.0	0.0
88°	0.8	0.4	0.0	0.0	0.0	0.0
88.5°	0.6	0.0	0.0	0.0	0.0	0.0
89°	0.5	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P294434

CATALOG NUMBER: RL6069S1EWHDM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)