

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: CORELITE

Report Number: P256921

Luminaire Tested: **HGL-S-BA-60L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-60L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

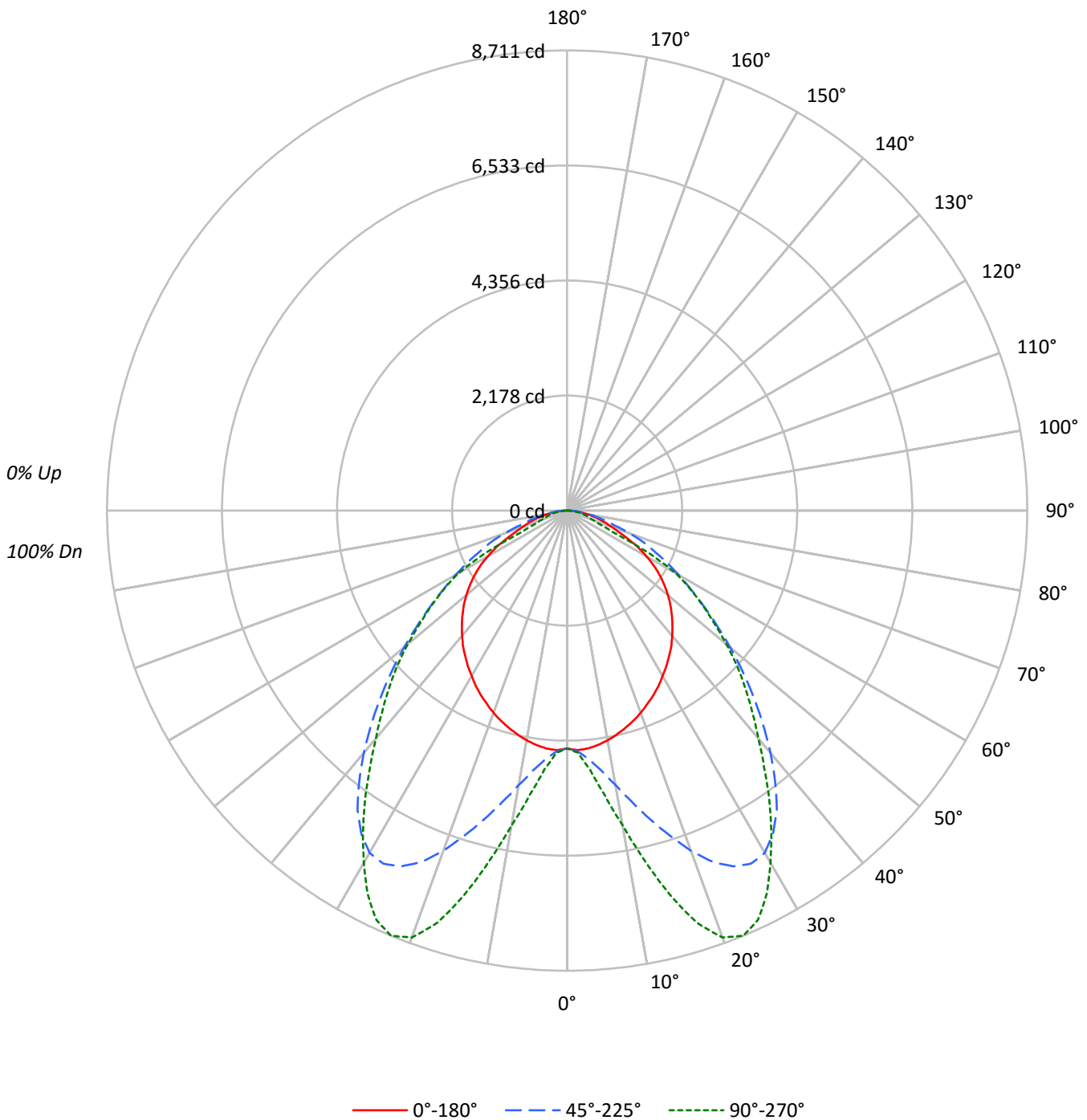
Lumens per Lamp: N/A
Luminaire Lumens: 17588.2 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 142
Input Voltage (V): 120
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17763	18491	19246
10°	17546	20854	23879
15°	17253	24273	30187
20°	16967	28213	35263
25°	16656	31628	36187
30°	16327	33211	33937
35°	16072	32352	30910
40°	15797	29818	27776
45°	15507	26784	25347
50°	15152	23645	22785
55°	14592	20626	20140
60°	13604	18115	17357
65°	11790	15699	7759
70°	10146	13240	5363
75°	9301	10282	4850
80°	8366	8367	4243
85°	6962	7301	2898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	2.7
10°-20°	1702.6	9.7
20°-30°	3081.6	17.5
30°-40°	3698.3	21.0
40°-50°	3503.5	19.9
50°-60°	2745.1	15.6
60°-70°	1532.1	8.7
70°-80°	649.2	3.7
80°-90°	202.0	1.1
90°-100°	7.3	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5250.9	29.9
0°-40°	8949.2	50.9
0°-60°	15197.7	86.4
0°-90°	17581.0	100.0
90°-120°	7.3	0.0
90°-150°	7.3	0.0
90°-180°	7.0	0.0
0°-180°	17588.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4503	4503	4503	4503	4503	
5°	4521	4540	4719	4876	4917	428
15°	4259	4770	6040	7150	7537	1201
25°	3858	5069	7431	8338	8550	1777
35°	3366	5184	6920	6630	6666	2106
45°	2804	4747	4991	4641	4779	2162
55°	2141	3448	3158	3057	3135	1907
65°	1275	1593	1809	1455	916	1275
75°	617	640	760	539	373	657
85°	156	180	221	170	97	174
90°	0	37	69	46	0	9
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	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7
2.5°	4539.5	4534.9	4521.1	4502.7	4507.3	4511.9	4511.9	4516.5	4521.1	4534.9	4562.5
5°	4521.1	4511.9	4507.3	4502.7	4525.7	4539.5	4553.3	4580.9	4613.2	4663.8	4719.0
7.5°	4475.0	4475.0	4484.2	4502.7	4553.3	4585.5	4613.2	4682.2	4760.5	4857.2	4963.1
10°	4415.2	4424.4	4452.0	4493.5	4585.5	4636.2	4691.4	4806.5	4940.0	5101.2	5276.1
12.5°	4341.5	4359.9	4406.0	4484.2	4622.4	4700.6	4783.5	4958.4	5156.4	5386.6	5644.4
15°	4258.6	4281.7	4355.3	4470.4	4659.2	4769.7	4884.8	5124.2	5395.8	5704.3	6040.4
17.5°	4171.2	4203.4	4304.7	4465.8	4709.8	4848.0	4995.3	5308.3	5658.2	6031.2	6445.5
20°	4074.5	4120.5	4249.4	4456.6	4755.9	4926.2	5105.8	5497.1	5925.3	6367.3	6850.7
22.5°	3964.0	4023.8	4185.0	4438.2	4801.9	5004.5	5216.3	5672.1	6169.3	6671.1	7196.0
25°	3858.1	3922.6	4111.3	4415.2	4838.7	5068.9	5313.0	5833.2	6390.3	6919.7	7430.8
27.5°	3743.0	3816.7	4042.3	4392.2	4866.4	5124.2	5395.8	5966.7	6551.4	7076.3	7536.7
30°	3614.1	3710.8	3964.0	4355.3	4880.2	5165.6	5460.3	6072.6	6652.7	7113.1	7481.4
32.5°	3494.4	3600.3	3876.5	4313.9	4884.8	5188.6	5501.7	6104.8	6652.7	7030.2	7251.2
35°	3365.5	3480.6	3789.0	4263.3	4866.4	5184.0	5497.1	6095.6	6556.0	6813.8	6919.7
37.5°	3236.6	3360.9	3697.0	4194.2	4824.9	5151.8	5464.9	6003.5	6358.0	6496.2	6468.5
40°	3093.9	3232.0	3577.3	4106.7	4751.3	5068.9	5368.2	5842.4	6068.0	6091.0	5989.7
42.5°	2951.1	3093.9	3457.6	3991.6	4627.0	4930.8	5207.1	5584.6	5690.5	5639.8	5483.3
45°	2803.8	2951.1	3314.8	3853.5	4470.4	4746.7	4976.9	5248.5	5248.5	5156.4	4990.7
47.5°	2651.9	2794.6	3162.9	3692.4	4267.9	4507.3	4696.0	4857.2	4783.5	4668.4	4502.7
50°	2490.7	2633.5	2992.6	3499.0	4005.4	4203.4	4359.9	4419.8	4304.7	4175.8	4028.5
52.5°	2320.4	2463.1	2790.0	3255.0	3697.0	3844.3	3959.4	3954.8	3816.7	3701.6	3572.7
55°	2140.8	2269.7	2564.4	2964.9	3328.7	3448.4	3517.4	3462.2	3333.3	3227.4	3158.3
57.5°	1952.1	2058.0	2311.2	2638.1	2909.7	3001.8	3043.2	2969.5	2877.5	2813.0	2776.2
60°	1740.3	1827.8	2007.3	2260.5	2458.5	2523.0	2550.6	2499.9	2467.7	2449.3	2440.1
62.5°	1519.3	1560.7	1675.8	1841.6	2007.3	2053.4	2085.6	2094.8	2090.2	2099.4	2122.4
65°	1275.3	1289.1	1325.9	1408.8	1537.7	1593.0	1652.8	1717.3	1754.1	1790.9	1809.4
67.5°	1049.7	1054.3	1072.7	1100.3	1151.0	1210.8	1261.5	1358.2	1441.0	1510.1	1556.1
70°	888.6	884.0	888.6	902.4	930.0	953.0	976.0	1045.1	1132.6	1247.7	1256.9
72.5°	750.4	745.8	750.4	759.7	768.9	778.1	791.9	819.5	870.1	939.2	953.0
75°	616.9	616.9	616.9	626.1	635.3	639.9	649.2	658.4	676.8	727.4	759.7
77.5°	492.6	488.0	497.2	501.8	506.4	515.6	520.2	529.5	538.7	557.1	580.1
80°	372.9	368.3	372.9	382.1	386.7	395.9	395.9	409.8	414.4	428.2	437.4
82.5°	262.4	257.8	262.4	271.6	271.6	280.8	285.4	294.7	303.9	313.1	322.3
85°	156.5	156.5	161.1	165.7	170.3	179.6	184.2	198.0	207.2	216.4	221.0
87.5°	69.1	69.1	73.7	78.3	87.5	96.7	101.3	110.5	119.7	133.5	133.5
90°	0.0	4.6	13.8	23.0	27.6	36.8	36.8	50.6	55.2	64.5	69.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	9.2	13.8	18.4
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	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	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7	4502.7
2.5°	4603.9	4576.3	4594.7	4599.3	4603.9	4594.7	4585.5	4594.7	4585.5	4585.5
5°	4788.1	4783.5	4829.5	4861.8	4875.6	4875.6	4903.2	4921.6	4926.2	4917.0
7.5°	5078.2	5105.8	5197.9	5262.3	5299.1	5317.6	5368.2	5395.8	5432.7	5428.1
10°	5460.3	5547.8	5685.9	5778.0	5842.4	5874.6	5948.3	5998.9	6058.8	6054.2
12.5°	5879.2	6040.4	6233.7	6381.1	6477.8	6537.6	6634.3	6726.4	6781.6	6786.2
15°	6353.4	6574.4	6836.9	7025.6	7149.9	7228.2	7361.7	7453.8	7545.9	7536.7
17.5°	6818.4	7085.5	7403.1	7651.8	7766.9	7840.5	8001.7	8098.3	8185.8	8185.8
20°	7232.8	7541.3	7863.5	8093.7	8204.2	8277.9	8416.0	8512.7	8577.2	8600.2
22.5°	7564.3	7849.7	8121.4	8319.3	8388.4	8448.2	8554.1	8632.4	8673.8	8710.7
25°	7748.4	7978.6	8162.8	8300.9	8337.7	8370.0	8429.8	8489.7	8498.9	8549.5
27.5°	7753.0	7923.4	8024.7	8075.3	8079.9	8079.9	8121.4	8144.4	8162.8	8181.2
30°	7587.3	7665.6	7684.0	7688.6	7665.6	7651.8	7679.4	7684.0	7697.8	7697.8
32.5°	7255.8	7274.2	7242.0	7191.4	7177.6	7149.9	7168.3	7159.1	7182.2	7196.0
35°	6832.3	6800.0	6717.2	6680.3	6629.7	6615.9	6629.7	6620.5	6634.3	6666.5
37.5°	6348.8	6279.8	6210.7	6146.3	6109.4	6072.6	6086.4	6100.2	6118.6	6127.9
40°	5851.6	5759.5	5685.9	5621.4	5584.6	5557.0	5580.0	5593.8	5635.2	5635.2
42.5°	5349.8	5248.5	5174.8	5133.4	5105.8	5082.8	5119.6	5128.8	5179.4	5188.6
45°	4852.6	4765.1	4705.2	4663.8	4640.8	4650.0	4686.8	4709.8	4755.9	4778.9
47.5°	4396.8	4323.1	4258.6	4240.2	4240.2	4249.4	4286.3	4309.3	4346.1	4373.7
50°	3950.2	3894.9	3853.5	3830.5	3835.1	3848.9	3881.1	3899.5	3936.4	3936.4
52.5°	3512.8	3476.0	3457.6	3429.9	3429.9	3425.3	3457.6	3476.0	3503.6	3508.2
55°	3130.7	3098.5	3080.0	3061.6	3057.0	3066.2	3084.6	3098.5	3130.7	3135.3
57.5°	2767.0	2753.2	2739.3	2725.5	2720.9	2725.5	2734.7	2744.0	2762.4	2767.0
60°	2435.5	2430.9	2412.5	2398.7	2394.1	2389.4	2384.8	2380.2	2389.4	2384.8
62.5°	2131.6	2117.8	2104.0	2076.4	2062.6	2025.7	1979.7	1878.4	1795.5	1749.5
65°	1832.4	1823.2	1758.7	1569.9	1454.8	1307.5	1151.0	999.1	948.4	916.2
67.5°	1542.3	1390.4	1160.2	994.5	934.6	879.4	796.5	713.6	667.6	639.9
70°	1109.6	980.6	874.7	782.7	741.2	709.0	644.6	584.7	543.3	524.8
72.5°	897.8	814.9	745.8	676.8	644.6	607.7	543.3	483.4	446.6	428.2
75°	750.4	699.8	630.7	566.3	538.7	511.0	465.0	419.0	386.7	372.9
77.5°	593.9	566.3	524.8	474.2	451.2	432.8	391.3	359.1	326.9	313.1
80°	437.4	428.2	400.5	363.7	345.3	331.5	299.3	271.6	244.0	234.8
82.5°	322.3	313.1	290.0	262.4	253.2	239.4	216.4	193.4	174.9	165.7
85°	221.0	216.4	198.0	179.6	170.3	161.1	138.1	119.7	105.9	96.7
87.5°	138.1	133.5	124.3	105.9	96.7	87.5	69.1	55.2	41.4	36.8
90°	69.1	69.1	64.5	50.6	46.0	41.4	27.6	13.8	4.6	0.0
92.5°	18.4	18.4	18.4	13.8	13.8	9.2	4.6	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256921

CATALOG NUMBER: HGL-S-BA-60L840-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	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	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)