

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: P256911

Luminaire Tested: **HGL-S-BA-60L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256911  
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-60L830-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (504) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

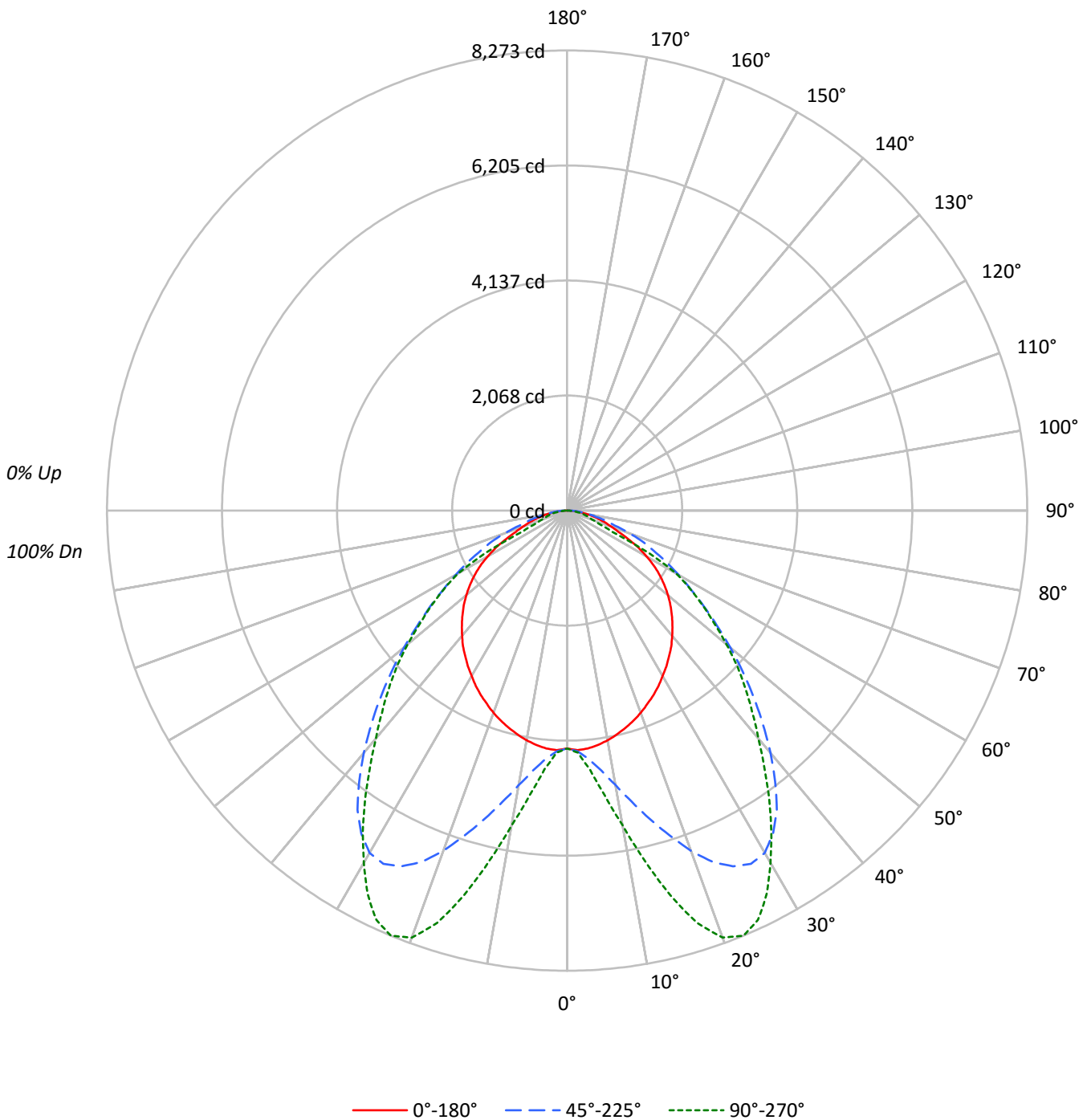
Lumens per Lamp: N/A  
Luminaire Lumens: 16704.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')  
CIE Type: Direct

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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CATALOG NUMBER: HGL-S-BA-60L830-UNV-12

### 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	16739	16739	16739
5°	16870	17562	18279
10°	16664	19807	22679
15°	16386	23053	28671
20°	16114	26796	33491
25°	15819	30039	34370
30°	15507	31542	32232
35°	15264	30727	29358
40°	15003	28320	26381
45°	14729	25438	24074
50°	14391	22457	21641
55°	13859	19590	19129
60°	12921	17205	16486
65°	11198	14911	7370
70°	9636	12575	5094
75°	8833	9765	4606
80°	7946	7946	4029
85°	6615	6934	2751



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CATALOG NUMBER: HGL-S-BA-60L830-UNV-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.2	2.7
10°-20°	1617.1	9.7
20°-30°	2926.8	17.5
30°-40°	3512.5	21.0
40°-50°	3327.5	19.9
50°-60°	2607.2	15.6
60°-70°	1455.1	8.7
70°-80°	616.6	3.7
80°-90°	191.8	1.1
90°-100°	6.9	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°	4987.2	29.9
0°-40°	8499.7	50.9
0°-60°	14434.3	86.4
0°-90°	16697.9	100.0
90°-120°	6.9	0.0
90°-150°	6.9	0.0
90°-180°	7.0	0.0
0°-180°	16704.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4276	4276	4276	4276	4276	
5°	4294	4312	4482	4631	4670	406
15°	4045	4530	5737	6791	7158	1141
25°	3664	4814	7058	7919	8120	1688
35°	3196	4924	6572	6297	6332	2000
45°	2663	4508	4740	4408	4539	2053
55°	2033	3275	3000	2904	2978	1811
65°	1211	1513	1718	1382	870	1211
75°	586	608	722	512	354	624
85°	149	170	210	162	92	165
90°	0	35	66	44	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



TEST NUMBER: P256911

CATALOG NUMBER: HGL-S-BA-60L830-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5
2.5°	4311.5	4307.1	4294.0	4276.5	4280.9	4285.2	4285.2	4289.6	4294.0	4307.1	4333.3
5°	4294.0	4285.2	4280.9	4276.5	4298.4	4311.5	4324.6	4350.8	4381.4	4429.5	4482.0
7.5°	4250.3	4250.3	4259.0	4276.5	4324.6	4355.2	4381.4	4447.0	4521.4	4613.2	4713.8
10°	4193.4	4202.2	4228.4	4267.7	4355.2	4403.3	4455.8	4565.1	4691.9	4844.9	5011.1
12.5°	4123.4	4140.9	4184.7	4259.0	4390.2	4464.5	4543.2	4709.4	4897.4	5116.0	5360.9
15°	4044.7	4066.6	4136.6	4245.9	4425.2	4530.1	4639.4	4866.8	5124.8	5417.8	5737.0
17.5°	3961.7	3992.3	4088.5	4241.5	4473.3	4604.4	4744.4	5041.7	5374.0	5728.2	6121.8
20°	3869.8	3913.6	4036.0	4232.8	4517.0	4678.8	4849.3	5221.0	5627.7	6047.4	6506.6
22.5°	3764.9	3821.7	3974.8	4215.3	4560.7	4753.1	4954.3	5387.2	5859.4	6336.0	6834.5
25°	3664.3	3725.5	3904.8	4193.4	4595.7	4814.3	5046.1	5540.2	6069.3	6572.2	7057.5
27.5°	3555.0	3625.0	3839.2	4171.5	4621.9	4866.8	5124.8	5667.0	6222.3	6720.8	7158.1
30°	3432.6	3524.4	3764.9	4136.6	4635.1	4906.2	5186.0	5767.6	6318.5	6755.8	7105.6
32.5°	3318.9	3419.4	3681.8	4097.2	4639.4	4928.0	5225.4	5798.2	6318.5	6677.1	6887.0
35°	3196.4	3305.8	3598.7	4049.1	4621.9	4923.6	5221.0	5789.4	6226.7	6471.6	6572.2
37.5°	3074.0	3192.1	3511.3	3983.5	4582.6	4893.0	5190.4	5702.0	6038.7	6169.9	6143.6
40°	2938.4	3069.6	3397.6	3900.4	4512.6	4814.3	5098.6	5548.9	5763.2	5785.1	5688.9
42.5°	2802.9	2938.4	3283.9	3791.1	4394.6	4683.2	4945.5	5304.1	5404.6	5356.5	5207.9
45°	2663.0	2802.9	3148.3	3659.9	4245.9	4508.2	4726.9	4984.9	4984.9	4897.4	4740.0
47.5°	2518.7	2654.2	3004.0	3506.9	4053.5	4280.9	4460.1	4613.2	4543.2	4433.9	4276.5
50°	2365.6	2501.2	2842.2	3323.2	3804.2	3992.3	4140.9	4197.8	4088.5	3966.0	3826.1
52.5°	2203.8	2339.4	2649.9	3091.5	3511.3	3651.2	3760.5	3756.1	3625.0	3515.6	3393.2
55°	2033.3	2155.7	2435.6	2816.0	3161.5	3275.1	3340.7	3288.3	3165.8	3065.3	2999.7
57.5°	1854.0	1954.6	2195.1	2505.6	2763.5	2851.0	2890.3	2820.4	2732.9	2671.7	2636.7
60°	1652.9	1736.0	1906.5	2147.0	2335.0	2396.2	2422.5	2374.4	2343.8	2326.3	2317.5
62.5°	1443.0	1482.3	1591.7	1749.1	1906.5	1950.2	1980.8	1989.6	1985.2	1993.9	2015.8
65°	1211.2	1224.4	1259.3	1338.0	1460.5	1513.0	1569.8	1631.0	1666.0	1701.0	1718.5
67.5°	997.0	1001.3	1018.8	1045.1	1093.2	1150.0	1198.1	1289.9	1368.7	1434.2	1478.0
70°	843.9	839.6	843.9	857.0	883.3	905.1	927.0	992.6	1075.7	1185.0	1193.7
72.5°	712.7	708.4	712.7	721.5	730.2	739.0	752.1	778.3	826.4	892.0	905.1
75°	585.9	585.9	585.9	594.7	603.4	607.8	616.5	625.3	642.8	690.9	721.5
77.5°	467.9	463.5	472.3	476.6	481.0	489.7	494.1	502.9	511.6	529.1	551.0
80°	354.2	349.8	354.2	362.9	367.3	376.1	376.1	389.2	393.5	406.7	415.4
82.5°	249.2	244.9	249.2	258.0	258.0	266.7	271.1	279.9	288.6	297.3	306.1
85°	148.7	148.7	153.0	157.4	161.8	170.5	174.9	188.0	196.8	205.5	209.9
87.5°	65.6	65.6	70.0	74.3	83.1	91.8	96.2	104.9	113.7	126.8	126.8
90°	0.0	4.4	13.1	21.9	26.2	35.0	35.0	48.1	52.5	61.2	65.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	8.7	13.1	17.5
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



TEST NUMBER: P256911

CATALOG NUMBER: HGL-S-BA-60L830-UNV-12

**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°	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5	4276.5
2.5°	4372.7	4346.5	4363.9	4368.3	4372.7	4363.9	4355.2	4363.9	4355.2	4355.2
5°	4547.6	4543.2	4587.0	4617.6	4630.7	4630.7	4656.9	4674.4	4678.8	4670.0
7.5°	4823.1	4849.3	4936.8	4998.0	5033.0	5050.5	5098.6	5124.8	5159.8	5155.4
10°	5186.0	5269.1	5400.3	5487.7	5548.9	5579.6	5649.5	5697.6	5754.5	5750.1
12.5°	5583.9	5737.0	5920.6	6060.5	6152.4	6209.2	6301.0	6388.5	6441.0	6445.3
15°	6034.3	6244.2	6493.4	6672.7	6790.8	6865.1	6991.9	7079.4	7166.8	7158.1
17.5°	6476.0	6729.6	7031.3	7267.4	7376.7	7446.7	7599.7	7691.6	7774.6	7774.6
20°	6869.5	7162.5	7468.6	7687.2	7792.1	7862.1	7993.3	8085.1	8146.3	8168.2
22.5°	7184.3	7455.4	7713.4	7901.5	7967.0	8023.9	8124.5	8198.8	8238.1	8273.1
25°	7359.2	7577.9	7752.8	7884.0	7918.9	7949.6	8006.4	8063.2	8072.0	8120.1
27.5°	7363.6	7525.4	7621.6	7669.7	7674.1	7674.1	7713.4	7735.3	7752.8	7770.3
30°	7206.2	7280.5	7298.0	7302.4	7280.5	7267.4	7293.6	7298.0	7311.1	7311.1
32.5°	6891.4	6908.9	6878.2	6830.1	6817.0	6790.8	6808.3	6799.5	6821.4	6834.5
35°	6489.1	6458.5	6379.8	6344.8	6296.7	6283.6	6296.7	6287.9	6301.0	6331.7
37.5°	6029.9	5964.4	5898.8	5837.5	5802.6	5767.6	5780.7	5793.8	5811.3	5820.1
40°	5557.7	5470.2	5400.3	5339.1	5304.1	5277.8	5299.7	5312.8	5352.2	5352.2
42.5°	5081.1	4984.9	4914.9	4875.6	4849.3	4827.5	4862.4	4871.2	4919.3	4928.0
45°	4608.8	4525.7	4468.9	4429.5	4407.7	4416.4	4451.4	4473.3	4517.0	4538.9
47.5°	4175.9	4106.0	4044.7	4027.2	4027.2	4036.0	4071.0	4092.8	4127.8	4154.1
50°	3751.8	3699.3	3659.9	3638.1	3642.5	3655.6	3686.2	3703.7	3738.7	3738.7
52.5°	3336.4	3301.4	3283.9	3257.7	3257.7	3253.3	3283.9	3301.4	3327.6	3332.0
55°	2973.4	2942.8	2925.3	2907.8	2903.5	2912.2	2929.7	2942.8	2973.4	2977.8
57.5°	2628.0	2614.9	2601.8	2588.6	2584.3	2588.6	2597.4	2606.1	2623.6	2628.0
60°	2313.2	2308.8	2291.3	2278.2	2273.8	2269.4	2265.1	2260.7	2269.4	2265.1
62.5°	2024.6	2011.4	1998.3	1972.1	1959.0	1924.0	1880.3	1784.1	1705.3	1661.6
65°	1740.3	1731.6	1670.4	1491.1	1381.8	1241.8	1093.2	948.9	900.8	870.2
67.5°	1464.9	1320.6	1101.9	944.5	887.7	835.2	756.5	677.8	634.0	607.8
70°	1053.8	931.4	830.8	743.4	704.0	673.4	612.2	555.3	516.0	498.5
72.5°	852.7	774.0	708.4	642.8	612.2	577.2	516.0	459.1	424.2	406.7
75°	712.7	664.6	599.1	537.8	511.6	485.4	441.6	397.9	367.3	354.2
77.5°	564.1	537.8	498.5	450.4	428.5	411.0	371.7	341.1	310.5	297.3
80°	415.4	406.7	380.4	345.4	328.0	314.8	284.2	258.0	231.8	223.0
82.5°	306.1	297.3	275.5	249.2	240.5	227.4	205.5	183.7	166.2	157.4
85°	209.9	205.5	188.0	170.5	161.8	153.0	131.2	113.7	100.6	91.8
87.5°	131.2	126.8	118.1	100.6	91.8	83.1	65.6	52.5	39.4	35.0
90°	65.6	65.6	61.2	48.1	43.7	39.4	26.2	13.1	4.4	0.0
92.5°	17.5	17.5	17.5	13.1	13.1	8.7	4.4	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: P256911

CATALOG NUMBER: HGL-S-BA-60L830-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)