

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: P256891

Luminaire Tested: **HGL-S-BA-60L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256891  
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-60L835-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11553.4 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')  
CIE Type: Direct

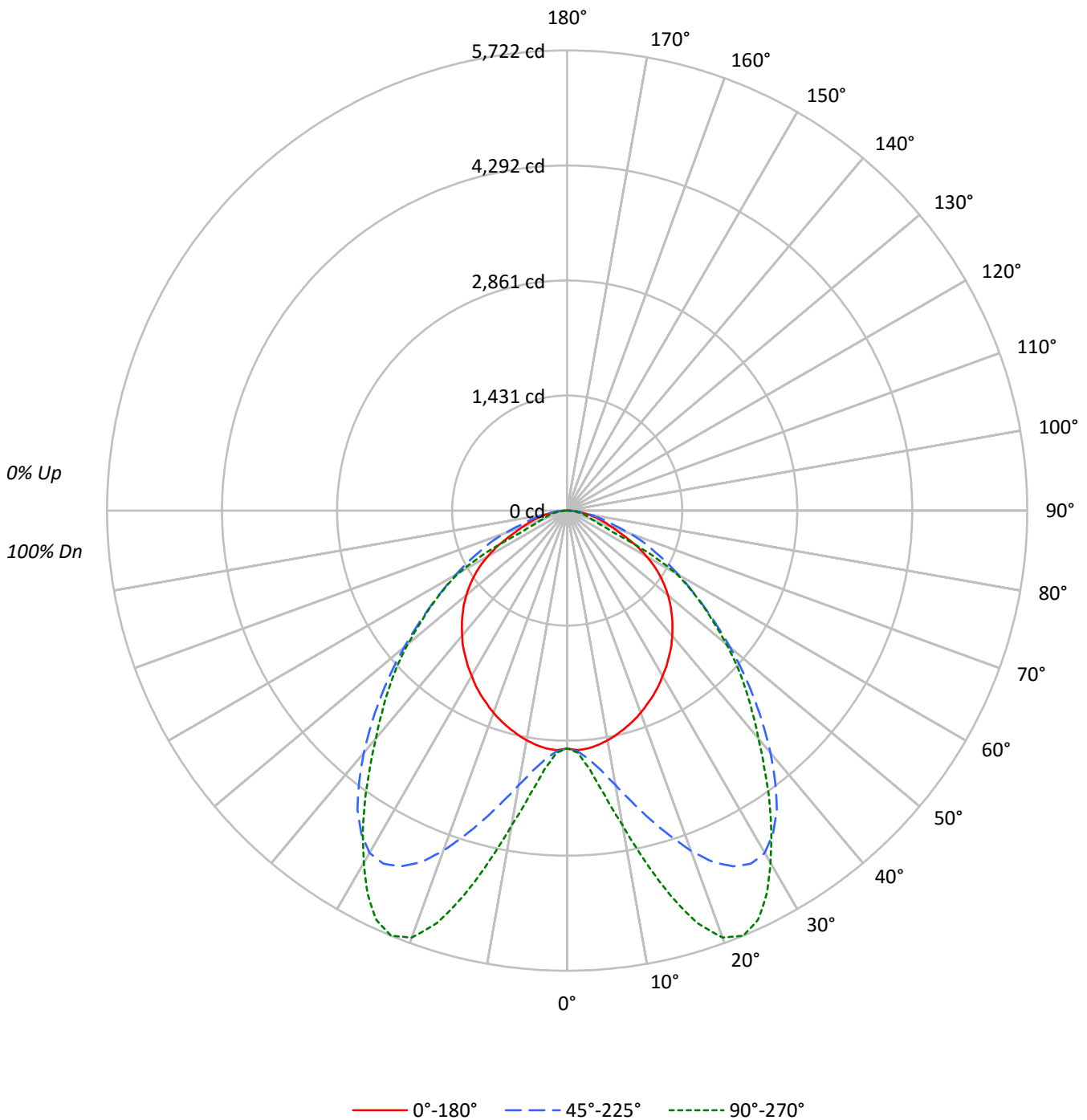
Input Watts (W): 94.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

### Luminous Intensity Polar Plot





TEST NUMBER: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**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°	17365	17365	17365
5°	17501	18219	18963
10°	17287	20547	23528
15°	16998	23914	29744
20°	16715	27796	34745
25°	16408	31160	35657
30°	16083	32718	33439
35°	15831	31871	30456
40°	15560	29374	27369
45°	15274	26383	24975
50°	14922	23289	22450
55°	14369	20315	19845
60°	13395	17841	17103
65°	11607	15459	7645
70°	9986	13036	5285
75°	9151	10121	4779
80°	8225	8232	4179
85°	6828	7177	2854



TEST NUMBER: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.5	2.7
10°-20°	1118.4	9.7
20°-30°	2024.3	17.5
30°-40°	2429.3	21.0
40°-50°	2301.4	19.9
50°-60°	1803.2	15.6
60°-70°	1006.4	8.7
70°-80°	426.5	3.7
80°-90°	132.7	1.1
90°-100°	4.8	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°	3449.2	29.9
0°-40°	5878.6	50.9
0°-60°	9983.1	86.4
0°-90°	11548.7	100.0
90°-120°	4.8	0.0
90°-150°	4.8	0.0
90°-180°	5.0	0.0
0°-180°	11553.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2970	2982	3100	3203	3230	281
15°	2797	3133	3968	4697	4951	789
25°	2534	3330	4881	5477	5616	1167
35°	2211	3405	4546	4355	4379	1383
45°	1842	3118	3278	3048	3139	1420
55°	1406	2265	2075	2008	2060	1252
65°	838	1046	1188	956	602	837
75°	405	420	499	354	245	431
85°	103	118	145	112	64	114
90°	0	24	45	30	0	6
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: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	2981.9	2978.9	2969.8	2957.7	2960.8	2963.8	2963.8	2966.8	2969.8	2978.9	2997.0
5°	2969.8	2963.8	2960.8	2957.7	2972.8	2981.9	2991.0	3009.1	3030.3	3063.6	3099.9
7.5°	2939.6	2939.6	2945.6	2957.7	2991.0	3012.2	3030.3	3075.7	3127.1	3190.6	3260.2
10°	2900.3	2906.3	2924.5	2951.7	3012.2	3045.4	3081.7	3157.3	3245.0	3350.9	3465.8
12.5°	2851.9	2864.0	2894.2	2945.6	3036.4	3087.8	3142.2	3257.1	3387.2	3538.4	3707.7
15°	2797.4	2812.6	2860.9	2936.6	3060.6	3133.1	3208.7	3366.0	3544.4	3747.1	3967.8
17.5°	2740.0	2761.1	2827.7	2933.5	3093.8	3184.5	3281.3	3487.0	3716.8	3961.8	4234.0
20°	2676.5	2706.7	2791.4	2927.5	3124.1	3236.0	3353.9	3611.0	3892.2	4182.6	4500.1
22.5°	2603.9	2643.2	2749.1	2915.4	3154.3	3287.4	3426.5	3725.9	4052.5	4382.2	4726.9
25°	2534.3	2576.7	2700.7	2900.3	3178.5	3329.7	3490.0	3831.7	4197.7	4545.5	4881.2
27.5°	2458.7	2507.1	2655.3	2885.1	3196.6	3366.0	3544.4	3919.4	4303.5	4648.3	4950.7
30°	2374.0	2437.6	2603.9	2860.9	3205.7	3393.2	3586.8	3989.0	4370.1	4672.5	4914.4
32.5°	2295.4	2365.0	2546.4	2833.7	3208.7	3408.3	3614.0	4010.2	4370.1	4618.0	4763.2
35°	2210.7	2286.3	2489.0	2800.5	3196.6	3405.3	3611.0	4004.1	4306.5	4475.9	4545.5
37.5°	2126.1	2207.7	2428.5	2755.1	3169.4	3384.1	3589.8	3943.6	4176.5	4267.2	4249.1
40°	2032.3	2123.0	2349.8	2697.6	3121.0	3329.7	3526.3	3837.8	3986.0	4001.1	3934.6
42.5°	1938.6	2032.3	2271.2	2622.0	3039.4	3239.0	3420.4	3668.4	3738.0	3704.7	3601.9
45°	1841.8	1938.6	2177.5	2531.3	2936.6	3118.0	3269.2	3447.7	3447.7	3387.2	3278.3
47.5°	1742.0	1835.7	2077.7	2425.5	2803.5	2960.8	3084.7	3190.6	3142.2	3066.6	2957.7
50°	1636.1	1729.9	1965.8	2298.4	2631.1	2761.1	2864.0	2903.3	2827.7	2743.0	2646.2
52.5°	1524.2	1618.0	1832.7	2138.2	2428.5	2525.3	2600.9	2597.8	2507.1	2431.5	2346.8
55°	1406.3	1491.0	1684.5	1947.6	2186.5	2265.2	2310.5	2274.2	2189.6	2120.0	2074.6
57.5°	1282.3	1351.8	1518.2	1732.9	1911.3	1971.8	1999.0	1950.6	1890.2	1847.8	1823.6
60°	1143.2	1200.6	1318.6	1484.9	1615.0	1657.3	1675.4	1642.2	1621.0	1608.9	1602.9
62.5°	998.0	1025.2	1100.8	1209.7	1318.6	1348.8	1370.0	1376.0	1373.0	1379.1	1394.2
65°	837.7	846.8	871.0	925.4	1010.1	1046.4	1085.7	1128.0	1152.2	1176.4	1188.5
67.5°	689.5	692.6	704.7	722.8	756.1	795.4	828.6	892.2	946.6	992.0	1022.2
70°	583.7	580.7	583.7	592.8	610.9	626.0	641.1	686.5	744.0	819.6	825.6
72.5°	493.0	489.9	493.0	499.0	505.1	511.1	520.2	538.3	571.6	616.9	626.0
75°	405.3	405.3	405.3	411.3	417.3	420.4	426.4	432.5	444.6	477.8	499.0
77.5°	323.6	320.6	326.6	329.6	332.7	338.7	341.7	347.8	353.8	365.9	381.1
80°	245.0	241.9	245.0	251.0	254.0	260.1	260.1	269.2	272.2	281.3	287.3
82.5°	172.4	169.4	172.4	178.4	178.4	184.5	187.5	193.6	199.6	205.6	211.7
85°	102.8	102.8	105.8	108.9	111.9	117.9	121.0	130.0	136.1	142.1	145.2
87.5°	45.4	45.4	48.4	51.4	57.5	63.5	66.5	72.6	78.6	87.7	87.7
90°	0.0	3.0	9.1	15.1	18.1	24.2	24.2	33.3	36.3	42.3	45.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	6.0	9.1	12.1
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: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**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



TEST NUMBER: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	3024.3	3006.1	3018.2	3021.2	3024.3	3018.2	3012.2	3018.2	3012.2	3012.2
5°	3145.2	3142.2	3172.4	3193.6	3202.7	3202.7	3220.8	3232.9	3236.0	3229.9
7.5°	3335.8	3353.9	3414.4	3456.7	3480.9	3493.0	3526.3	3544.4	3568.6	3565.6
10°	3586.8	3644.2	3735.0	3795.4	3837.8	3859.0	3907.3	3940.6	3979.9	3976.9
12.5°	3862.0	3967.8	4094.8	4191.6	4255.1	4294.4	4358.0	4418.4	4454.7	4457.8
15°	4173.5	4318.6	4491.0	4615.0	4696.7	4748.1	4835.8	4896.3	4956.8	4950.7
17.5°	4478.9	4654.3	4863.0	5026.3	5101.9	5150.3	5256.2	5319.7	5377.1	5377.1
20°	4751.1	4953.7	5165.4	5316.6	5389.2	5437.6	5528.3	5591.9	5634.2	5649.3
22.5°	4968.9	5156.4	5334.8	5464.8	5510.2	5549.5	5619.1	5670.5	5697.7	5721.9
25°	5089.8	5241.0	5362.0	5452.7	5476.9	5498.1	5537.4	5576.7	5582.8	5616.1
27.5°	5092.9	5204.8	5271.3	5304.6	5307.6	5307.6	5334.8	5349.9	5362.0	5374.1
30°	4984.0	5035.4	5047.5	5050.5	5035.4	5026.3	5044.5	5047.5	5056.6	5056.6
32.5°	4766.2	4778.3	4757.2	4723.9	4714.8	4696.7	4708.8	4702.7	4717.8	4726.9
35°	4488.0	4466.8	4412.4	4388.2	4354.9	4345.9	4354.9	4348.9	4358.0	4379.1
37.5°	4170.5	4125.1	4079.7	4037.4	4013.2	3989.0	3998.1	4007.1	4019.2	4025.3
40°	3843.8	3783.3	3735.0	3692.6	3668.4	3650.3	3665.4	3674.5	3701.7	3701.7
42.5°	3514.2	3447.7	3399.3	3372.0	3353.9	3338.8	3363.0	3369.0	3402.3	3408.3
45°	3187.6	3130.1	3090.8	3063.6	3048.5	3054.5	3078.7	3093.8	3124.1	3139.2
47.5°	2888.2	2839.8	2797.4	2785.3	2785.3	2791.4	2815.6	2830.7	2854.9	2873.0
50°	2594.8	2558.5	2531.3	2516.2	2519.2	2528.3	2549.5	2561.5	2585.7	2585.7
52.5°	2307.5	2283.3	2271.2	2253.1	2253.1	2250.0	2271.2	2283.3	2301.5	2304.5
55°	2056.5	2035.3	2023.2	2011.1	2008.1	2014.2	2026.3	2035.3	2056.5	2059.5
57.5°	1817.6	1808.5	1799.4	1790.4	1787.3	1790.4	1796.4	1802.5	1814.6	1817.6
60°	1599.8	1596.8	1584.7	1575.6	1572.6	1569.6	1566.6	1563.5	1569.6	1566.6
62.5°	1400.2	1391.2	1382.1	1363.9	1354.9	1330.7	1300.4	1233.9	1179.5	1149.2
65°	1203.7	1197.6	1155.3	1031.3	955.7	858.9	756.1	656.3	623.0	601.8
67.5°	1013.1	913.3	762.1	653.2	613.9	577.6	523.2	468.8	438.5	420.4
70°	728.8	644.2	574.6	514.1	486.9	465.7	423.4	384.1	356.9	344.8
72.5°	589.7	535.3	489.9	444.6	423.4	399.2	356.9	317.5	293.4	281.3
75°	493.0	459.7	414.3	372.0	353.8	335.7	305.5	275.2	254.0	245.0
77.5°	390.1	372.0	344.8	311.5	296.4	284.3	257.1	235.9	214.7	205.6
80°	287.3	281.3	263.1	238.9	226.8	217.7	196.6	178.4	160.3	154.2
82.5°	211.7	205.6	190.5	172.4	166.3	157.3	142.1	127.0	114.9	108.9
85°	145.2	142.1	130.0	117.9	111.9	105.8	90.7	78.6	69.6	63.5
87.5°	90.7	87.7	81.7	69.6	63.5	57.5	45.4	36.3	27.2	24.2
90°	45.4	45.4	42.3	33.3	30.2	27.2	18.1	9.1	3.0	0.0
92.5°	12.1	12.1	12.1	9.1	9.1	6.0	3.0	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: P256891

CATALOG NUMBER: HGL-S-BA-60L835-UNV-8

**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)