

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: P256896

Luminaire Tested: **HGL-S-BA-60L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256896  
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-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11725.5 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

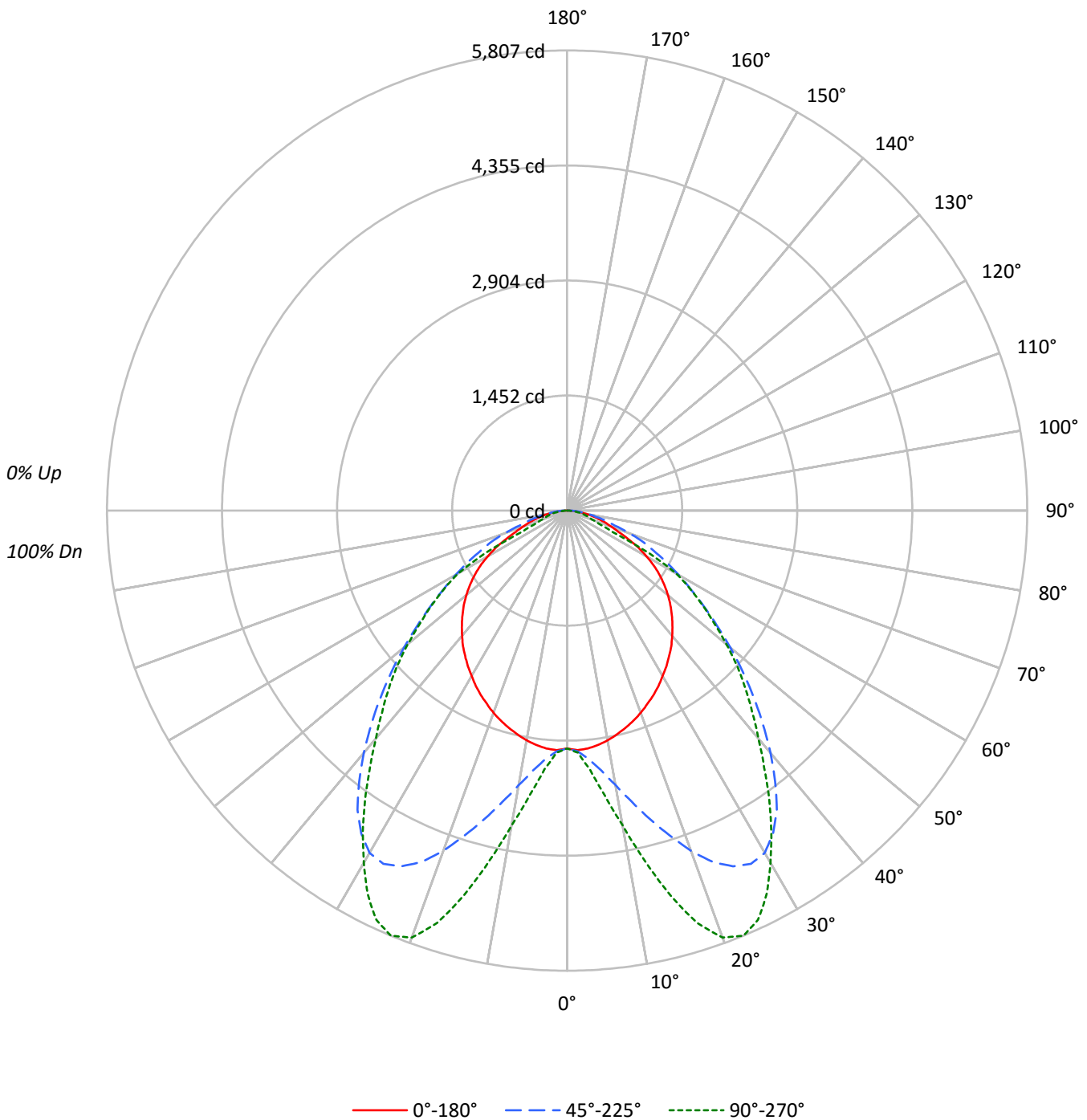
Input Watts (W): 94.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17762	18490	19246
10°	17545	20853	23879
15°	17251	24270	30187
20°	16964	28209	35262
25°	16653	31624	36187
30°	16323	33205	33937
35°	16068	32346	30910
40°	15792	29811	27776
45°	15501	26776	25347
50°	15144	23636	22785
55°	14583	20618	20140
60°	13594	18106	17357
65°	11780	15689	7759
70°	10135	13230	5363
75°	9287	10271	4850
80°	8346	8355	4242
85°	6934	7281	2899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.1	2.7
10°-20°	1135.1	9.7
20°-30°	2054.4	17.5
30°-40°	2465.5	21.0
40°-50°	2335.6	19.9
50°-60°	1830.0	15.6
60°-70°	1021.4	8.7
70°-80°	432.8	3.7
80°-90°	134.7	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°	3500.6	29.9
0°-40°	5966.1	50.9
0°-60°	10131.8	86.4
0°-90°	11720.6	100.0
90°-120°	4.8	0.0
90°-150°	4.8	0.0
90°-180°	5.0	0.0
0°-180°	11725.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3002	3002	3002	3002	3002	
5°	3014	3026	3146	3250	3278	285
15°	2839	3180	4027	4767	5024	801
25°	2572	3379	4954	5558	5700	1185
35°	2244	3456	4613	4420	4444	1404
45°	1869	3164	3327	3094	3186	1441
55°	1427	2299	2106	2038	2090	1271
65°	850	1062	1206	970	611	850
75°	411	427	506	359	249	438
85°	104	120	147	114	64	116
90°	0	25	46	31	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8
2.5°	3026.3	3023.3	3014.0	3001.8	3004.8	3007.9	3007.9	3011.0	3014.0	3023.3	3041.7
5°	3014.0	3007.9	3004.8	3001.8	3017.1	3026.3	3035.5	3054.0	3075.4	3109.2	3146.0
7.5°	2983.4	2983.4	2989.5	3001.8	3035.5	3057.0	3075.4	3121.5	3173.7	3238.1	3308.7
10°	2943.5	2949.6	2968.0	2995.6	3057.0	3090.8	3127.6	3204.3	3293.4	3400.8	3517.4
12.5°	2894.3	2906.6	2937.3	2989.5	3081.6	3133.8	3189.0	3305.6	3437.6	3591.1	3763.0
15°	2839.1	2854.4	2903.6	2980.3	3106.1	3179.8	3256.5	3416.1	3597.2	3802.9	4026.9
17.5°	2780.8	2802.3	2869.8	2977.2	3139.9	3232.0	3330.2	3538.9	3772.2	4020.8	4297.0
20°	2716.3	2747.0	2833.0	2971.1	3170.6	3284.1	3403.9	3664.7	3950.2	4244.8	4567.1
22.5°	2642.7	2682.6	2790.0	2958.8	3201.3	3336.3	3477.5	3781.4	4112.9	4447.4	4797.3
25°	2572.1	2615.0	2740.9	2943.5	3225.8	3379.3	3542.0	3888.8	4260.2	4613.2	4953.8
27.5°	2495.3	2544.4	2694.8	2928.1	3244.2	3416.1	3597.2	3977.8	4367.6	4717.5	5024.4
30°	2409.4	2473.9	2642.7	2903.6	3253.5	3443.8	3640.2	4048.4	4435.1	4742.1	4987.6
32.5°	2329.6	2400.2	2584.3	2875.9	3256.5	3459.1	3667.8	4069.9	4435.1	4686.8	4834.1
35°	2243.7	2320.4	2526.0	2842.2	3244.2	3456.0	3664.7	4063.7	4370.7	4542.6	4613.2
37.5°	2157.7	2240.6	2464.6	2796.1	3216.6	3434.5	3643.3	4002.4	4238.7	4330.8	4312.4
40°	2062.6	2154.6	2384.8	2737.8	3167.5	3379.3	3578.8	3894.9	4045.3	4060.7	3993.2
42.5°	1967.4	2062.6	2305.0	2661.1	3084.6	3287.2	3471.4	3723.1	3793.7	3759.9	3655.5
45°	1869.2	1967.4	2209.9	2569.0	2980.3	3164.4	3317.9	3499.0	3499.0	3437.6	3327.1
47.5°	1767.9	1863.1	2108.6	2461.6	2845.2	3004.8	3130.7	3238.1	3189.0	3112.3	3001.8
50°	1660.5	1755.6	1995.0	2332.7	2670.3	2802.3	2906.6	2946.5	2869.8	2783.9	2685.6
52.5°	1546.9	1642.1	1860.0	2170.0	2464.6	2562.9	2639.6	2636.5	2544.4	2467.7	2381.8
55°	1427.2	1513.2	1709.6	1976.6	2219.1	2298.9	2344.9	2308.1	2222.2	2151.6	2105.5
57.5°	1301.4	1372.0	1540.8	1758.7	1939.8	2001.2	2028.8	1979.7	1918.3	1875.3	1850.8
60°	1160.2	1218.5	1338.2	1507.0	1639.0	1682.0	1700.4	1666.6	1645.1	1632.9	1626.7
62.5°	1012.9	1040.5	1117.2	1227.7	1338.2	1368.9	1390.4	1396.5	1393.5	1399.6	1414.9
65°	850.2	859.4	884.0	939.2	1025.1	1062.0	1101.9	1144.8	1169.4	1194.0	1206.2
67.5°	699.8	702.9	715.1	733.6	767.3	807.2	841.0	905.4	960.7	1006.7	1037.4
70°	592.4	589.3	592.4	601.6	620.0	635.3	650.7	696.7	755.0	831.8	837.9
72.5°	500.3	497.2	500.3	506.4	512.6	518.7	527.9	546.3	580.1	626.1	635.3
75°	411.3	411.3	411.3	417.4	423.6	426.6	432.8	438.9	451.2	484.9	506.4
77.5°	328.4	325.3	331.5	334.6	337.6	343.8	346.8	353.0	359.1	371.4	386.7
80°	248.6	245.5	248.6	254.8	257.8	264.0	264.0	273.2	276.2	285.4	291.6
82.5°	174.9	171.9	174.9	181.1	181.1	187.2	190.3	196.4	202.6	208.7	214.9
85°	104.4	104.4	107.4	110.5	113.6	119.7	122.8	132.0	138.1	144.3	147.3
87.5°	46.0	46.0	49.1	52.2	58.3	64.5	67.5	73.7	79.8	89.0	89.0
90°	0.0	3.1	9.2	15.3	18.4	24.6	24.6	33.8	36.8	43.0	46.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	6.1	9.2	12.3
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°	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8
2.5°	3069.3	3050.9	3063.2	3066.2	3069.3	3063.2	3057.0	3063.2	3057.0	3057.0
5°	3192.1	3189.0	3219.7	3241.2	3250.4	3250.4	3268.8	3281.1	3284.1	3278.0
7.5°	3385.4	3403.9	3465.2	3508.2	3532.8	3545.0	3578.8	3597.2	3621.8	3618.7
10°	3640.2	3698.5	3790.6	3852.0	3894.9	3916.4	3965.5	3999.3	4039.2	4036.1
12.5°	3919.5	4026.9	4155.8	4254.0	4318.5	4358.4	4422.9	4484.2	4521.1	4524.1
15°	4235.6	4383.0	4557.9	4683.7	4766.6	4818.8	4907.8	4969.2	5030.6	5024.4
17.5°	4545.6	4723.6	4935.4	5101.2	5177.9	5227.0	5334.4	5398.9	5457.2	5457.2
20°	4821.9	5027.5	5242.4	5395.8	5469.5	5518.6	5610.7	5675.1	5718.1	5733.4
22.5°	5042.9	5233.2	5414.2	5546.2	5592.3	5632.2	5702.8	5754.9	5782.6	5807.1
25°	5165.6	5319.1	5441.9	5533.9	5558.5	5580.0	5619.9	5659.8	5665.9	5699.7
27.5°	5168.7	5282.3	5349.8	5383.5	5386.6	5386.6	5414.2	5429.6	5441.9	5454.1
30°	5058.2	5110.4	5122.7	5125.7	5110.4	5101.2	5119.6	5122.7	5131.9	5131.9
32.5°	4837.2	4849.5	4828.0	4794.2	4785.0	4766.6	4778.9	4772.8	4788.1	4797.3
35°	4554.8	4533.4	4478.1	4453.6	4419.8	4410.6	4419.8	4413.6	4422.9	4444.3
37.5°	4232.6	4186.5	4140.5	4097.5	4073.0	4048.4	4057.6	4066.8	4079.1	4085.2
40°	3901.1	3839.7	3790.6	3747.6	3723.1	3704.6	3720.0	3729.2	3756.8	3756.8
42.5°	3566.5	3499.0	3449.9	3422.3	3403.9	3388.5	3413.1	3419.2	3453.0	3459.1
45°	3235.0	3176.7	3136.8	3109.2	3093.9	3100.0	3124.5	3139.9	3170.6	3185.9
47.5°	2931.2	2882.1	2839.1	2826.8	2826.8	2833.0	2857.5	2872.9	2897.4	2915.8
50°	2633.5	2596.6	2569.0	2553.7	2556.7	2565.9	2587.4	2599.7	2624.2	2624.2
52.5°	2341.9	2317.3	2305.0	2286.6	2286.6	2283.6	2305.0	2317.3	2335.7	2338.8
55°	2087.1	2065.6	2053.4	2041.1	2038.0	2044.2	2056.4	2065.6	2087.1	2090.2
57.5°	1844.6	1835.4	1826.2	1817.0	1814.0	1817.0	1823.2	1829.3	1841.6	1844.6
60°	1623.7	1620.6	1608.3	1599.1	1596.0	1593.0	1589.9	1586.8	1593.0	1589.9
62.5°	1421.1	1411.9	1402.7	1384.3	1375.0	1350.5	1319.8	1252.3	1197.0	1166.3
65°	1221.6	1215.4	1172.5	1046.6	969.9	871.7	767.3	666.0	632.3	610.8
67.5°	1028.2	926.9	773.5	663.0	623.1	586.2	531.0	475.7	445.0	426.6
70°	739.7	653.8	583.2	521.8	494.2	472.7	429.7	389.8	362.2	349.9
72.5°	598.5	543.3	497.2	451.2	429.7	405.1	362.2	322.3	297.7	285.4
75°	500.3	466.5	420.5	377.5	359.1	340.7	310.0	279.3	257.8	248.6
77.5°	395.9	377.5	349.9	316.1	300.8	288.5	260.9	239.4	217.9	208.7
80°	291.6	285.4	267.0	242.5	230.2	221.0	199.5	181.1	162.7	156.5
82.5°	214.9	208.7	193.4	174.9	168.8	159.6	144.3	128.9	116.6	110.5
85°	147.3	144.3	132.0	119.7	113.6	107.4	92.1	79.8	70.6	64.5
87.5°	92.1	89.0	82.9	70.6	64.5	58.3	46.0	36.8	27.6	24.6
90°	46.0	46.0	43.0	33.8	30.7	27.6	18.4	9.2	3.1	0.0
92.5°	12.3	12.3	12.3	9.2	9.2	6.1	3.1	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: P256896

CATALOG NUMBER: HGL-S-BA-60L840-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)