

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: P256886

Luminaire Tested: **HGL-S-BA-60L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256886
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-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11136.5 lumens
Efficiency: N/A
Efficacy: 117.8 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

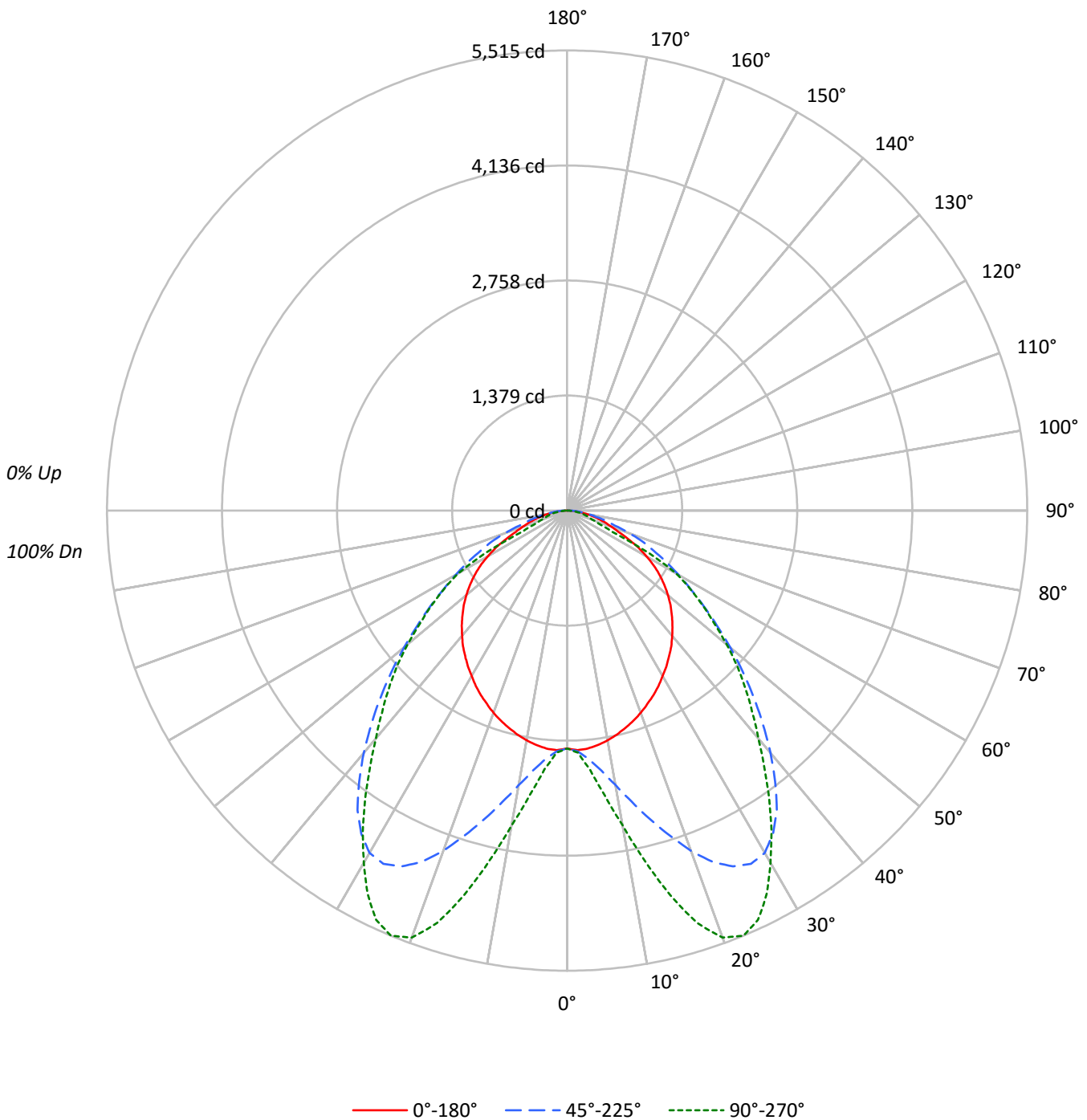
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256886

CATALOG NUMBER: HGL-S-BA-60L830-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P256886

CATALOG NUMBER: HGL-S-BA-60L830-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°	16739	16739	16739
5°	16870	17561	18279
10°	16663	19806	22679
15°	16385	23051	28671
20°	16112	26793	33492
25°	15816	30035	34370
30°	15503	31537	32232
35°	15260	30721	29357
40°	14999	28314	26381
45°	14722	25431	24074
50°	14384	22449	21640
55°	13850	19583	19129
60°	12911	17197	16485
65°	11188	14901	7369
70°	9625	12565	5094
75°	8819	9756	4606
80°	7927	7934	4030
85°	6582	6915	2751



TEST NUMBER: P256886

CATALOG NUMBER: HGL-S-BA-60L830-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	2.7
10°-20°	1078.1	9.7
20°-30°	1951.2	17.5
30°-40°	2341.7	21.0
40°-50°	2218.3	19.9
50°-60°	1738.1	15.6
60°-70°	970.1	8.7
70°-80°	411.1	3.7
80°-90°	127.9	1.1
90°-100°	4.6	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°	3324.8	29.9
0°-40°	5666.4	50.9
0°-60°	9622.9	86.4
0°-90°	11131.9	100.0
90°-120°	4.6	0.0
90°-150°	4.6	0.0
90°-180°	5.0	0.0
0°-180°	11136.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2851	2851	2851	2851	2851	
5°	2863	2874	2988	3087	3113	271
15°	2696	3020	3825	4527	4772	760
25°	2443	3210	4705	5279	5413	1125
35°	2131	3282	4381	4198	4221	1334
45°	1775	3006	3160	2938	3026	1369
55°	1356	2183	2000	1936	1985	1207
65°	808	1009	1146	921	580	807
75°	391	405	481	341	236	416
85°	99	114	140	108	61	110
90°	0	23	44	29	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: P256886

CATALOG NUMBER: HGL-S-BA-60L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0
2.5°	2874.3	2871.4	2862.7	2851.0	2853.9	2856.8	2856.8	2859.7	2862.7	2871.4	2888.9
5°	2862.7	2856.8	2853.9	2851.0	2865.6	2874.3	2883.1	2900.6	2921.0	2953.0	2988.0
7.5°	2833.5	2833.5	2839.3	2851.0	2883.1	2903.5	2921.0	2964.7	3014.2	3075.5	3142.5
10°	2795.6	2801.4	2818.9	2845.2	2903.5	2935.5	2970.5	3043.4	3127.9	3230.0	3340.7
12.5°	2749.0	2760.6	2789.8	2839.3	2926.8	2976.3	3028.8	3139.6	3264.9	3410.7	3573.9
15°	2696.5	2711.1	2757.7	2830.6	2950.1	3020.1	3092.9	3244.5	3416.5	3611.8	3824.6
17.5°	2641.1	2661.5	2725.6	2827.7	2982.2	3069.6	3162.9	3361.1	3582.7	3818.8	4081.2
20°	2579.9	2609.0	2690.7	2821.8	3011.3	3119.2	3232.9	3480.7	3751.8	4031.6	4337.7
22.5°	2509.9	2547.8	2649.9	2810.2	3040.5	3168.7	3302.8	3591.4	3906.3	4224.0	4556.3
25°	2442.9	2483.7	2603.2	2795.6	3063.8	3209.6	3364.1	3693.5	4046.2	4381.4	4705.0
27.5°	2370.0	2416.6	2559.5	2781.0	3081.3	3244.5	3416.5	3778.0	4148.2	4480.6	4772.1
30°	2288.4	2349.6	2509.9	2757.7	3090.0	3270.8	3457.3	3845.1	4212.4	4503.9	4737.1
32.5°	2212.6	2279.6	2454.5	2731.5	3092.9	3285.3	3483.6	3865.5	4212.4	4451.4	4591.3
35°	2131.0	2203.8	2399.1	2699.4	3081.3	3282.4	3480.7	3859.6	4151.1	4314.4	4381.4
37.5°	2049.3	2128.0	2340.8	2655.7	3055.1	3262.0	3460.3	3801.3	4025.8	4113.2	4095.8
40°	1959.0	2046.4	2265.1	2600.3	3008.4	3209.6	3399.0	3699.3	3842.1	3856.7	3792.6
42.5°	1868.6	1959.0	2189.3	2527.4	2929.7	3122.1	3297.0	3536.0	3603.1	3571.0	3471.9
45°	1775.3	1868.6	2098.9	2440.0	2830.6	3005.5	3151.3	3323.2	3323.2	3264.9	3160.0
47.5°	1679.1	1769.5	2002.7	2337.9	2702.3	2853.9	2973.4	3075.5	3028.8	2955.9	2851.0
50°	1577.1	1667.5	1894.8	2215.5	2536.2	2661.5	2760.6	2798.5	2725.6	2644.0	2550.7
52.5°	1469.2	1559.6	1766.6	2061.0	2340.8	2434.1	2507.0	2504.1	2416.6	2343.8	2262.1
55°	1355.5	1437.2	1623.7	1877.3	2107.6	2183.4	2227.2	2192.2	2110.6	2043.5	1999.8
57.5°	1236.0	1303.1	1463.4	1670.4	1842.4	1900.7	1926.9	1880.3	1822.0	1781.1	1757.8
60°	1101.9	1157.3	1271.0	1431.3	1556.7	1597.5	1615.0	1582.9	1562.5	1550.8	1545.0
62.5°	962.0	988.2	1061.1	1166.1	1271.0	1300.1	1320.6	1326.4	1323.5	1329.3	1343.9
65°	807.5	816.2	839.6	892.0	973.7	1008.6	1046.5	1087.3	1110.7	1134.0	1145.6
67.5°	664.6	667.6	679.2	696.7	728.8	766.7	798.7	860.0	912.4	956.2	985.3
70°	562.6	559.7	562.6	571.4	588.9	603.4	618.0	661.7	717.1	790.0	795.8
72.5°	475.2	472.3	475.2	481.0	486.8	492.7	501.4	518.9	551.0	594.7	603.4
75°	390.6	390.6	390.6	396.5	402.3	405.2	411.0	416.9	428.5	460.6	481.0
77.5°	311.9	309.0	314.8	317.7	320.7	326.5	329.4	335.2	341.1	352.7	367.3
80°	236.1	233.2	236.1	242.0	244.9	250.7	250.7	259.4	262.4	271.1	276.9
82.5°	166.2	163.2	166.2	172.0	172.0	177.8	180.7	186.6	192.4	198.2	204.1
85°	99.1	99.1	102.0	104.9	107.9	113.7	116.6	125.4	131.2	137.0	139.9
87.5°	43.7	43.7	46.6	49.6	55.4	61.2	64.1	70.0	75.8	84.5	84.5
90°	0.0	2.9	8.7	14.6	17.5	23.3	23.3	32.1	35.0	40.8	43.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	5.8	8.7	11.7
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: P256886

CATALOG NUMBER: HGL-S-BA-60L830-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: P256886

CATALOG NUMBER: HGL-S-BA-60L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0	2851.0
2.5°	2915.1	2897.6	2909.3	2912.2	2915.1	2909.3	2903.5	2909.3	2903.5	2903.5
5°	3031.7	3028.8	3058.0	3078.4	3087.1	3087.1	3104.6	3116.3	3119.2	3113.4
7.5°	3215.4	3232.9	3291.2	3332.0	3355.3	3367.0	3399.0	3416.5	3439.9	3436.9
10°	3457.3	3512.7	3600.2	3658.5	3699.3	3719.7	3766.3	3798.4	3836.3	3833.4
12.5°	3722.6	3824.6	3947.1	4040.4	4101.6	4139.5	4200.7	4259.0	4294.0	4296.9
15°	4022.9	4162.8	4329.0	4448.5	4527.2	4576.7	4661.3	4719.6	4777.9	4772.1
17.5°	4317.3	4486.4	4687.5	4844.9	4917.8	4964.5	5066.5	5127.7	5183.1	5183.1
20°	4579.7	4775.0	4979.0	5124.8	5194.8	5241.4	5328.9	5390.1	5430.9	5445.5
22.5°	4789.6	4970.3	5142.3	5267.6	5311.4	5349.3	5416.3	5465.9	5492.1	5515.4
25°	4906.2	5051.9	5168.5	5256.0	5279.3	5299.7	5337.6	5375.5	5381.3	5413.4
27.5°	4909.1	5016.9	5081.1	5113.1	5116.0	5116.0	5142.3	5156.9	5168.5	5180.2
30°	4804.1	4853.7	4865.3	4868.3	4853.7	4844.9	4862.4	4865.3	4874.1	4874.1
32.5°	4594.2	4605.9	4585.5	4553.4	4544.7	4527.2	4538.9	4533.0	4547.6	4556.3
35°	4326.0	4305.6	4253.2	4229.8	4197.8	4189.0	4197.8	4192.0	4200.7	4221.1
37.5°	4020.0	3976.2	3932.5	3891.7	3868.4	3845.1	3853.8	3862.5	3874.2	3880.0
40°	3705.1	3646.8	3600.2	3559.4	3536.0	3518.6	3533.1	3541.9	3568.1	3568.1
42.5°	3387.4	3323.2	3276.6	3250.4	3232.9	3218.3	3241.6	3247.5	3279.5	3285.3
45°	3072.5	3017.2	2979.3	2953.0	2938.4	2944.3	2967.6	2982.2	3011.3	3025.9
47.5°	2783.9	2737.3	2696.5	2684.8	2684.8	2690.7	2714.0	2728.6	2751.9	2769.4
50°	2501.2	2466.2	2440.0	2425.4	2428.3	2437.0	2457.5	2469.1	2492.4	2492.4
52.5°	2224.2	2200.9	2189.3	2171.8	2171.8	2168.9	2189.3	2200.9	2218.4	2221.3
55°	1982.3	1961.9	1950.2	1938.6	1935.6	1941.5	1953.1	1961.9	1982.3	1985.2
57.5°	1752.0	1743.2	1734.5	1725.8	1722.8	1725.8	1731.6	1737.4	1749.1	1752.0
60°	1542.1	1539.2	1527.5	1518.8	1515.9	1513.0	1510.0	1507.1	1513.0	1510.0
62.5°	1349.7	1341.0	1332.2	1314.7	1306.0	1282.7	1253.5	1189.4	1136.9	1107.7
65°	1160.2	1154.4	1113.6	994.1	921.2	827.9	728.8	632.6	600.5	580.1
67.5°	976.6	880.4	734.6	629.7	591.8	556.8	504.3	451.8	422.7	405.2
70°	702.5	620.9	553.9	495.6	469.3	448.9	408.1	370.2	344.0	332.3
72.5°	568.4	516.0	472.3	428.5	408.1	384.8	344.0	306.1	282.8	271.1
75°	475.2	443.1	399.4	358.6	341.1	323.6	294.4	265.3	244.9	236.1
77.5°	376.1	358.6	332.3	300.3	285.7	274.0	247.8	227.4	207.0	198.2
80°	276.9	271.1	253.6	230.3	218.6	209.9	189.5	172.0	154.5	148.7
82.5°	204.1	198.2	183.7	166.2	160.3	151.6	137.0	122.4	110.8	104.9
85°	139.9	137.0	125.4	113.7	107.9	102.0	87.5	75.8	67.0	61.2
87.5°	87.5	84.5	78.7	67.0	61.2	55.4	43.7	35.0	26.2	23.3
90°	43.7	43.7	40.8	32.1	29.2	26.2	17.5	8.7	2.9	0.0
92.5°	11.7	11.7	11.7	8.7	8.7	5.8	2.9	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: P256886

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