

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: P256902

Luminaire Tested: **HGL-S-BA-80L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256902
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-80L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11565.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

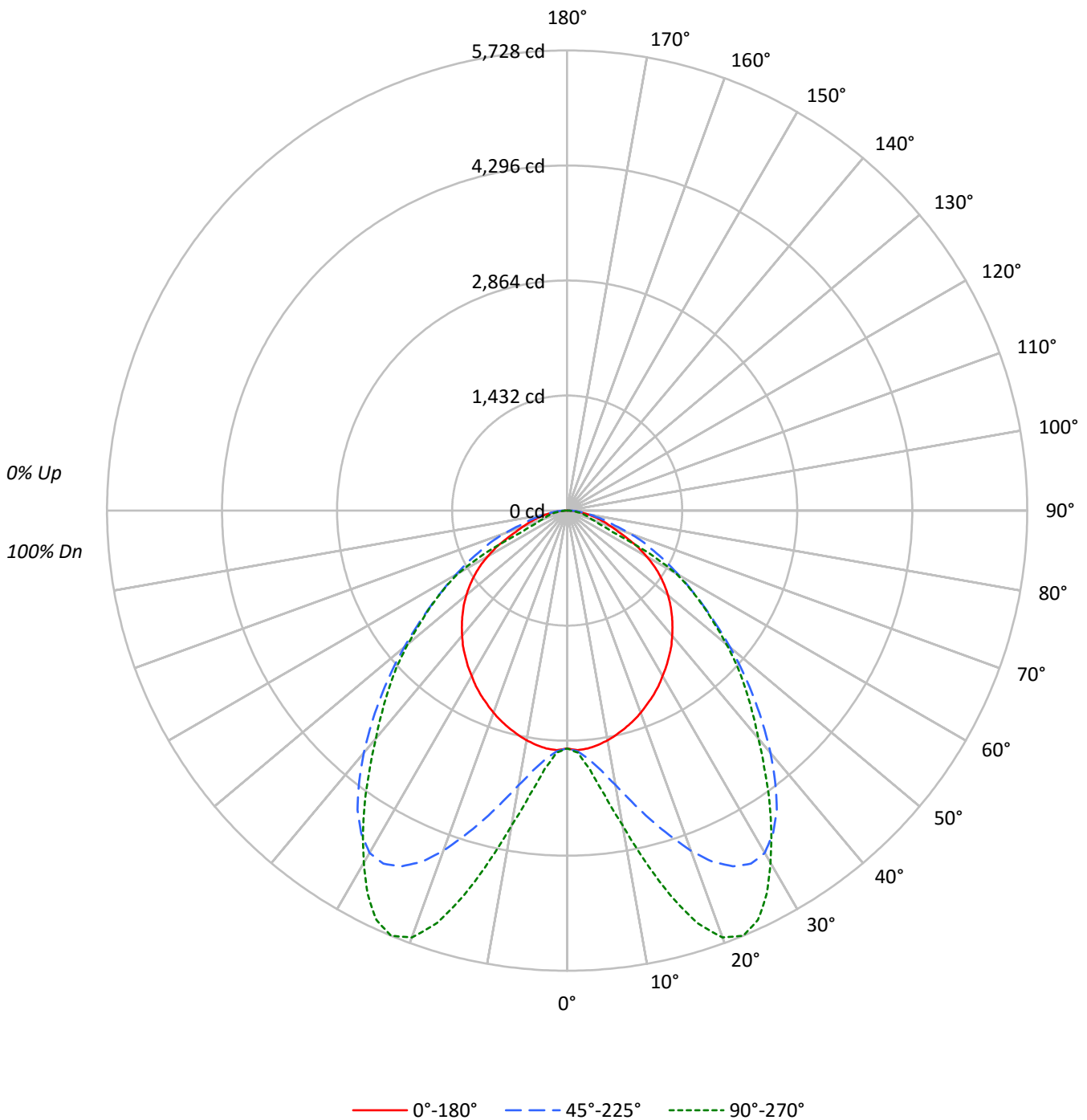
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17383	17383	17383
5°	17519	18237	18982
10°	17304	20568	23552
15°	17015	23938	29774
20°	16731	27823	34780
25°	16425	31191	35692
30°	16099	32750	33472
35°	15847	31903	30487
40°	15575	29403	27396
45°	15289	26409	25000
50°	14937	23313	22473
55°	14384	20336	19865
60°	13408	17859	17119
65°	11619	15475	7653
70°	9996	13048	5290
75°	9160	10131	4783
80°	8232	8241	4185
85°	6834	7182	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	2.7
10°-20°	1119.5	9.7
20°-30°	2026.3	17.5
30°-40°	2431.8	21.0
40°-50°	2303.7	19.9
50°-60°	1805.0	15.6
60°-70°	1007.4	8.7
70°-80°	426.9	3.7
80°-90°	132.8	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°	3452.7	29.9
0°-40°	5884.4	50.9
0°-60°	9993.1	86.4
0°-90°	11560.2	100.0
90°-120°	4.8	0.0
90°-150°	4.8	0.0
90°-180°	5.0	0.0
0°-180°	11565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2961	2961	2961	2961	2961	
5°	2973	2985	3103	3206	3233	281
15°	2800	3136	3972	4701	4956	790
25°	2537	3333	4886	5482	5622	1168
35°	2213	3409	4550	4359	4384	1385
45°	1844	3121	3282	3052	3142	1422
55°	1408	2267	2077	2010	2062	1254
65°	839	1047	1190	957	602	838
75°	406	421	500	354	245	432
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	2984.9	2981.9	2972.8	2960.7	2963.7	2966.7	2966.7	2969.8	2972.8	2981.9	3000.0
5°	2972.8	2966.7	2963.7	2960.7	2975.8	2984.9	2994.0	3012.1	3033.3	3066.6	3103.0
7.5°	2942.5	2942.5	2948.6	2960.7	2994.0	3015.2	3033.3	3078.7	3130.2	3193.8	3263.4
10°	2903.2	2909.2	2927.4	2954.6	3015.2	3048.5	3084.8	3160.5	3248.3	3354.2	3469.3
12.5°	2854.7	2866.8	2897.1	2948.6	3039.4	3090.9	3145.3	3260.4	3390.6	3541.9	3711.4
15°	2800.2	2815.4	2863.8	2939.5	3063.6	3136.3	3211.9	3369.4	3548.0	3750.8	3971.8
17.5°	2742.7	2763.9	2830.5	2936.5	3096.9	3187.7	3284.6	3490.5	3720.5	3965.7	4238.2
20°	2679.1	2709.4	2794.2	2930.4	3127.2	3239.2	3357.3	3614.6	3896.1	4186.7	4504.6
22.5°	2606.5	2645.8	2751.8	2918.3	3157.5	3290.7	3429.9	3729.6	4056.6	4386.5	4731.6
25°	2536.9	2579.2	2703.4	2903.2	3181.7	3333.0	3493.5	3835.6	4201.9	4550.0	4886.0
27.5°	2461.2	2509.6	2658.0	2888.0	3199.8	3369.4	3548.0	3923.4	4307.8	4652.9	4955.7
30°	2376.4	2440.0	2606.5	2863.8	3208.9	3396.6	3590.4	3993.0	4374.4	4677.1	4919.3
32.5°	2297.7	2367.3	2549.0	2836.6	3211.9	3411.7	3617.6	4014.2	4374.4	4622.7	4768.0
35°	2212.9	2288.6	2491.4	2803.3	3199.8	3408.7	3614.6	4008.1	4310.8	4480.4	4550.0
37.5°	2128.2	2209.9	2430.9	2757.9	3172.6	3387.5	3593.4	3947.6	4180.7	4271.5	4253.3
40°	2034.3	2125.1	2352.2	2700.3	3124.2	3333.0	3529.8	3841.6	3990.0	4005.1	3938.5
42.5°	1940.5	2034.3	2273.5	2624.7	3042.4	3242.2	3423.9	3672.1	3741.7	3708.4	3605.5
45°	1843.6	1940.5	2179.6	2533.8	2939.5	3121.1	3272.5	3451.1	3451.1	3390.6	3281.6
47.5°	1743.7	1837.6	2079.7	2427.9	2806.3	2963.7	3087.8	3193.8	3145.3	3069.7	2960.7
50°	1637.8	1731.6	1967.7	2300.7	2633.7	2763.9	2866.8	2906.2	2830.5	2745.7	2648.9
52.5°	1525.7	1619.6	1834.5	2140.3	2430.9	2527.8	2603.5	2600.4	2509.6	2433.9	2349.2
55°	1407.7	1492.4	1686.2	1949.6	2188.7	2267.4	2312.8	2276.5	2191.7	2122.1	2076.7
57.5°	1283.6	1353.2	1519.7	1734.6	1913.2	1973.8	2001.0	1952.6	1892.0	1849.7	1825.4
60°	1144.3	1201.8	1319.9	1486.4	1616.6	1658.9	1677.1	1643.8	1622.6	1610.5	1604.5
62.5°	999.0	1026.2	1101.9	1210.9	1319.9	1350.2	1371.4	1377.4	1374.4	1380.4	1395.6
65°	838.6	847.6	871.9	926.3	1011.1	1047.4	1086.8	1129.2	1153.4	1177.6	1189.7
67.5°	690.2	693.2	705.4	723.5	756.8	796.2	829.5	893.0	947.5	992.9	1023.2
70°	584.3	581.2	584.3	593.3	611.5	626.6	641.8	687.2	744.7	820.4	826.4
72.5°	493.4	490.4	493.4	499.5	505.6	511.6	520.7	538.9	572.2	617.6	626.6
75°	405.7	405.7	405.7	411.7	417.8	420.8	426.8	432.9	445.0	478.3	499.5
77.5°	323.9	320.9	326.9	330.0	333.0	339.1	342.1	348.1	354.2	366.3	381.4
80°	245.2	242.2	245.2	251.3	254.3	260.3	260.3	269.4	272.5	281.5	287.6
82.5°	172.6	169.5	172.6	178.6	178.6	184.7	187.7	193.7	199.8	205.9	211.9
85°	102.9	102.9	106.0	109.0	112.0	118.1	121.1	130.2	136.2	142.3	145.3
87.5°	45.4	45.4	48.4	51.5	57.5	63.6	66.6	72.7	78.7	87.8	87.8
90°	0.0	3.0	9.1	15.1	18.2	24.2	24.2	33.3	36.3	42.4	45.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	6.1	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



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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°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	3027.3	3009.1	3021.2	3024.3	3027.3	3021.2	3015.2	3021.2	3015.2	3015.2
5°	3148.4	3145.3	3175.6	3196.8	3205.9	3205.9	3224.1	3236.2	3239.2	3233.1
7.5°	3339.1	3357.3	3417.8	3460.2	3484.4	3496.5	3529.8	3548.0	3572.2	3569.2
10°	3590.4	3647.9	3738.7	3799.2	3841.6	3862.8	3911.2	3944.5	3983.9	3980.9
12.5°	3865.8	3971.8	4098.9	4195.8	4259.4	4298.7	4362.3	4422.9	4459.2	4462.2
15°	4177.6	4323.0	4495.5	4619.6	4701.4	4752.8	4840.6	4901.2	4961.7	4955.7
17.5°	4483.4	4659.0	4867.9	5031.3	5107.0	5155.5	5261.4	5325.0	5382.5	5382.5
20°	4755.9	4958.7	5170.6	5322.0	5394.6	5443.0	5533.9	5597.4	5639.8	5655.0
22.5°	4973.8	5161.5	5340.1	5470.3	5515.7	5555.1	5624.7	5676.1	5703.4	5727.6
25°	5094.9	5246.3	5367.4	5458.2	5482.4	5503.6	5542.9	5582.3	5588.4	5621.7
27.5°	5097.9	5209.9	5276.5	5309.8	5312.9	5312.9	5340.1	5355.3	5367.4	5379.5
30°	4989.0	5040.4	5052.5	5055.6	5040.4	5031.3	5049.5	5052.5	5061.6	5061.6
32.5°	4771.0	4783.1	4761.9	4728.6	4719.5	4701.4	4713.5	4707.4	4722.6	4731.6
35°	4492.5	4471.3	4416.8	4392.6	4359.3	4350.2	4359.3	4353.2	4362.3	4383.5
37.5°	4174.6	4129.2	4083.8	4041.4	4017.2	3993.0	4002.1	4011.1	4023.3	4029.3
40°	3847.7	3787.1	3738.7	3696.3	3672.1	3653.9	3669.1	3678.1	3705.4	3705.4
42.5°	3517.7	3451.1	3402.7	3375.4	3357.3	3342.1	3366.3	3372.4	3405.7	3411.7
45°	3190.8	3133.2	3093.9	3066.6	3051.5	3057.6	3081.8	3096.9	3127.2	3142.3
47.5°	2891.1	2842.6	2800.2	2788.1	2788.1	2794.2	2818.4	2833.5	2857.8	2875.9
50°	2597.4	2561.1	2533.8	2518.7	2521.7	2530.8	2552.0	2564.1	2588.3	2588.3
52.5°	2309.8	2285.6	2273.5	2255.3	2255.3	2252.3	2273.5	2285.6	2303.8	2306.8
55°	2058.5	2037.4	2025.2	2013.1	2010.1	2016.2	2028.3	2037.4	2058.5	2061.6
57.5°	1819.4	1810.3	1801.2	1792.1	1789.1	1792.1	1798.2	1804.3	1816.4	1819.4
60°	1601.4	1598.4	1586.3	1577.2	1574.2	1571.2	1568.1	1565.1	1571.2	1568.1
62.5°	1401.6	1392.5	1383.5	1365.3	1356.2	1332.0	1301.7	1235.1	1180.6	1150.4
65°	1204.9	1198.8	1156.4	1032.3	956.6	859.7	756.8	656.9	623.6	602.4
67.5°	1014.1	914.2	762.9	653.9	614.5	578.2	523.7	469.2	439.0	420.8
70°	729.6	644.8	575.2	514.6	487.4	466.2	423.8	384.5	357.2	345.1
72.5°	590.3	535.8	490.4	445.0	423.8	399.6	357.2	317.9	293.6	281.5
75°	493.4	460.1	414.7	372.4	354.2	336.0	305.8	275.5	254.3	245.2
77.5°	390.5	372.4	345.1	311.8	296.7	284.6	257.3	236.1	214.9	205.9
80°	287.6	281.5	263.4	239.2	227.0	218.0	196.8	178.6	160.4	154.4
82.5°	211.9	205.9	190.7	172.6	166.5	157.4	142.3	127.1	115.0	109.0
85°	145.3	142.3	130.2	118.1	112.0	106.0	90.8	78.7	69.6	63.6
87.5°	90.8	87.8	81.7	69.6	63.6	57.5	45.4	36.3	27.2	24.2
90°	45.4	45.4	42.4	33.3	30.3	27.2	18.2	9.1	3.0	0.0
92.5°	12.1	12.1	12.1	9.1	9.1	6.1	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: P256902

CATALOG NUMBER: HGL-S-BA-80L930-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)