

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: P256912

Luminaire Tested: **HGL-S-BA-80L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256912  
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-80L830-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: 22577.5 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

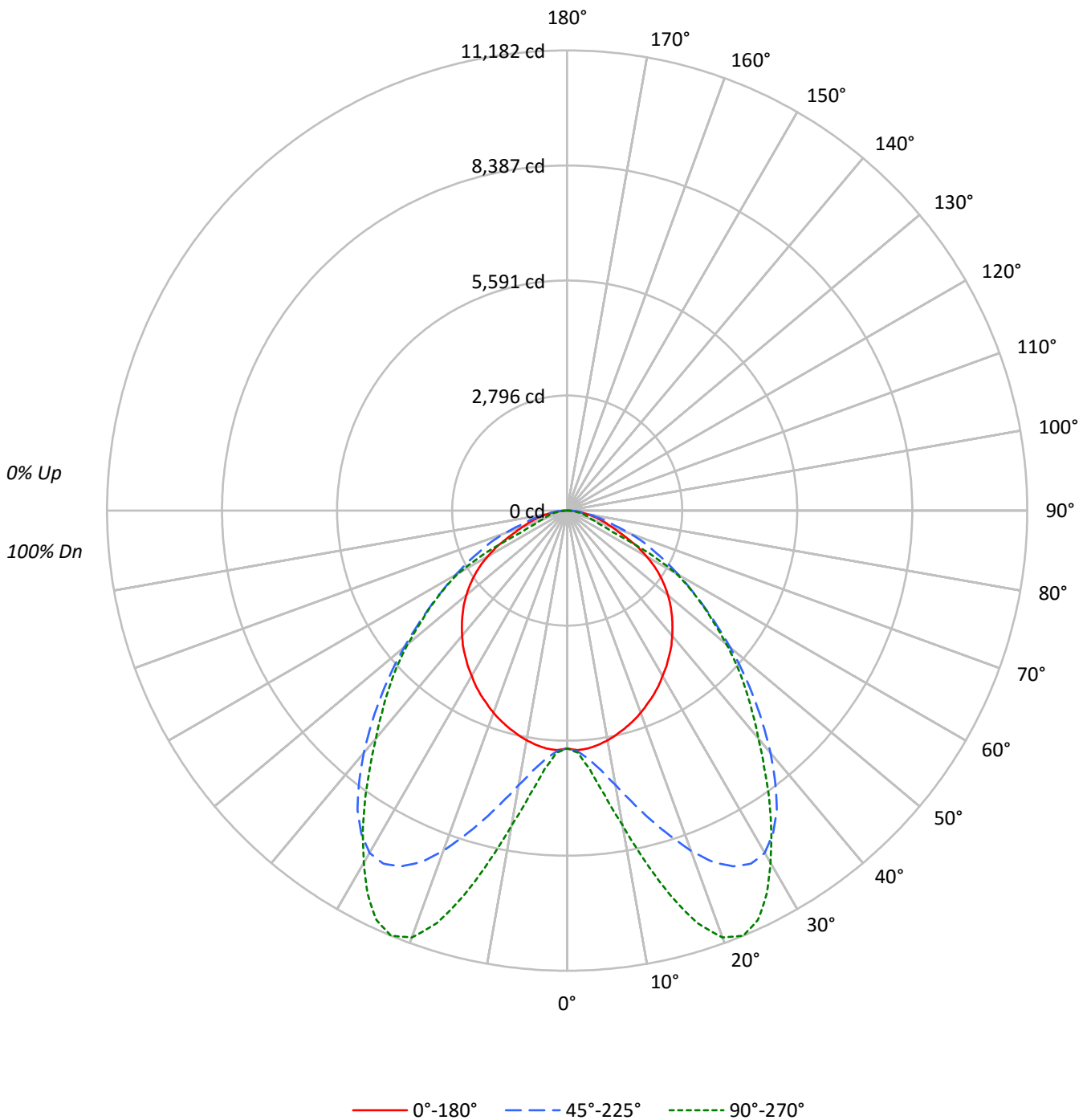
Input Watts (W): 212  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22623	22623	22623
5°	22801	23736	24705
10°	22523	26770	30653
15°	22147	31158	38751
20°	21779	36216	45266
25°	21380	40600	46453
30°	20958	42632	43563
35°	20631	41530	39678
40°	20278	38276	35656
45°	19907	34381	32537
50°	19450	30352	29248
55°	18731	26477	25854
60°	17463	23254	22281
65°	15135	20152	9961
70°	13023	16996	6885
75°	11939	13198	6226
80°	10739	10739	5446
85°	8937	9372	3719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.0	2.7
10°-20°	2185.6	9.7
20°-30°	3955.8	17.5
30°-40°	4747.4	21.0
40°-50°	4497.3	19.9
50°-60°	3523.8	15.6
60°-70°	1966.7	8.7
70°-80°	833.4	3.7
80°-90°	259.3	1.1
90°-100°	9.3	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°	6740.4	29.9
0°-40°	11487.8	50.9
0°-60°	19508.9	86.4
0°-90°	22568.2	100.0
90°-120°	9.3	0.0
90°-150°	9.3	0.0
90°-180°	9.0	0.0
0°-180°	22577.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5780	5780	5780	5780	5780	
5°	5804	5827	6058	6259	6312	549
15°	5467	6123	7754	9178	9675	1542
25°	4952	6507	9539	10703	10975	2281
35°	4320	6655	8883	8510	8558	2703
45°	3599	6093	6406	5957	6134	2775
55°	2748	4427	4054	3924	4025	2447
65°	1637	2045	2323	1868	1176	1636
75°	792	822	975	692	479	843
85°	201	230	284	219	124	223
90°	0	47	89	59	0	12
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°	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9
2.5°	5827.2	5821.3	5803.6	5779.9	5785.8	5791.8	5791.8	5797.7	5803.6	5821.3	5856.8
5°	5803.6	5791.8	5785.8	5779.9	5809.5	5827.2	5844.9	5880.4	5921.8	5986.8	6057.7
7.5°	5744.5	5744.5	5756.3	5779.9	5844.9	5886.3	5921.8	6010.4	6110.9	6235.0	6370.9
10°	5667.6	5679.5	5714.9	5768.1	5886.3	5951.3	6022.2	6170.0	6341.4	6548.2	6772.8
12.5°	5573.1	5596.7	5655.8	5756.3	5933.6	6034.1	6140.4	6365.0	6619.1	6914.6	7245.6
15°	5466.7	5496.3	5590.8	5738.6	5980.9	6122.7	6270.5	6577.8	6926.5	7322.4	7753.9
17.5°	5354.4	5395.8	5525.8	5732.7	6045.9	6223.2	6412.3	6814.2	7263.3	7742.0	8273.9
20°	5230.3	5289.4	5454.9	5720.8	6105.0	6323.6	6554.1	7056.5	7606.1	8173.5	8794.0
22.5°	5088.5	5165.3	5372.1	5697.2	6164.1	6424.1	6696.0	7281.1	7919.3	8563.5	9237.3
25°	4952.5	5035.3	5277.6	5667.6	6211.4	6506.9	6820.1	7487.9	8203.0	8882.7	9538.7
27.5°	4804.8	4899.3	5188.9	5638.1	6246.8	6577.8	6926.5	7659.3	8409.9	9083.6	9674.6
30°	4639.3	4763.4	5088.5	5590.8	6264.5	6631.0	7009.2	7795.2	8539.9	9130.9	9603.7
32.5°	4485.7	4621.6	4976.2	5537.6	6270.5	6660.5	7062.4	7836.6	8539.9	9024.5	9308.2
35°	4320.2	4467.9	4863.9	5472.6	6246.8	6654.6	7056.5	7824.8	8415.8	8746.7	8882.7
37.5°	4154.7	4314.3	4745.7	5384.0	6193.6	6613.2	7015.1	7706.6	8161.6	8338.9	8303.5
40°	3971.5	4148.8	4592.0	5271.7	6099.1	6506.9	6891.0	7499.7	7789.3	7818.9	7688.8
42.5°	3788.3	3971.5	4438.4	5123.9	5939.5	6329.6	6684.2	7168.8	7304.7	7239.7	7038.8
45°	3599.2	3788.3	4255.2	4946.6	5738.6	6093.2	6388.7	6737.3	6737.3	6619.1	6406.4
47.5°	3404.1	3587.3	4060.1	4739.8	5478.5	5785.8	6028.1	6235.0	6140.4	5992.7	5779.9
50°	3197.3	3380.5	3841.5	4491.6	5141.7	5395.8	5596.7	5673.6	5525.8	5360.3	5171.2
52.5°	2978.6	3161.8	3581.4	4178.3	4745.7	4934.8	5082.6	5076.6	4899.3	4751.6	4586.1
55°	2748.1	2913.6	3291.8	3806.0	4272.9	4426.6	4515.2	4444.3	4278.8	4142.9	4054.2
57.5°	2505.8	2641.7	2966.8	3386.4	3735.1	3853.3	3906.5	3811.9	3693.7	3611.0	3563.7
60°	2234.0	2346.3	2576.7	2901.8	3155.9	3238.7	3274.1	3209.1	3167.7	3144.1	3132.3
62.5°	1950.3	2003.5	2151.2	2364.0	2576.7	2635.8	2677.2	2689.0	2683.1	2694.9	2724.5
65°	1637.1	1654.8	1702.1	1808.4	1973.9	2044.8	2121.7	2204.4	2251.7	2299.0	2322.6
67.5°	1347.5	1353.4	1377.0	1412.5	1477.5	1554.3	1619.3	1743.4	1849.8	1938.5	1997.6
70°	1140.6	1134.7	1140.6	1158.4	1193.8	1223.4	1252.9	1341.6	1453.8	1601.6	1613.4
72.5°	963.3	957.4	963.3	975.1	987.0	998.8	1016.5	1052.0	1117.0	1205.6	1223.4
75°	791.9	791.9	791.9	803.8	815.6	821.5	833.3	845.1	868.8	933.8	975.1
77.5°	632.4	626.5	638.3	644.2	650.1	661.9	667.8	679.6	691.5	715.1	744.7
80°	478.7	472.8	478.7	490.5	496.4	508.3	508.3	526.0	531.9	549.6	561.4
82.5°	336.9	331.0	336.9	348.7	348.7	360.5	366.4	378.2	390.1	401.9	413.7
85°	200.9	200.9	206.8	212.8	218.7	230.5	236.4	254.1	265.9	277.8	283.7
87.5°	88.6	88.6	94.6	100.5	112.3	124.1	130.0	141.8	153.7	171.4	171.4
90°	0.0	5.9	17.7	29.5	35.5	47.3	47.3	65.0	70.9	82.7	88.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	5.9	11.8	17.7	23.6
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°	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9	5779.9
2.5°	5909.9	5874.5	5898.1	5904.0	5909.9	5898.1	5886.3	5898.1	5886.3	5886.3
5°	6146.3	6140.4	6199.5	6240.9	6258.6	6258.6	6294.1	6317.7	6323.6	6311.8
7.5°	6518.7	6554.1	6672.3	6755.1	6802.4	6826.0	6891.0	6926.5	6973.7	6967.8
10°	7009.2	7121.5	7298.8	7417.0	7499.7	7541.1	7635.7	7700.7	7777.5	7771.6
12.5°	7547.0	7753.9	8002.1	8191.2	8315.3	8392.1	8516.2	8634.4	8705.4	8711.3
15°	8155.7	8439.4	8776.3	9018.6	9178.2	9278.6	9450.0	9568.2	9686.4	9674.6
17.5°	8752.6	9095.4	9503.2	9822.3	9970.1	10064.6	10271.5	10395.6	10507.9	10507.9
20°	9284.5	9680.5	10094.2	10389.7	10531.5	10626.1	10803.4	10927.5	11010.2	11039.8
22.5°	9710.0	10076.5	10425.2	10679.3	10767.9	10844.8	10980.7	11081.2	11134.3	11181.6
25°	9946.4	10241.9	10478.3	10655.6	10702.9	10744.3	10821.1	10897.9	10909.8	10974.8
27.5°	9952.4	10171.0	10301.0	10366.1	10372.0	10372.0	10425.2	10454.7	10478.3	10502.0
30°	9739.6	9840.1	9863.7	9869.6	9840.1	9822.3	9857.8	9863.7	9881.4	9881.4
32.5°	9314.1	9337.7	9296.4	9231.3	9213.6	9178.2	9201.8	9190.0	9219.5	9237.3
35°	8770.4	8729.0	8622.6	8575.3	8510.3	8492.6	8510.3	8498.5	8516.2	8557.6
37.5°	8149.8	8061.2	7972.5	7889.8	7842.5	7795.2	7813.0	7830.7	7854.3	7866.1
40°	7511.5	7393.3	7298.8	7216.0	7168.8	7133.3	7162.9	7180.6	7233.8	7233.8
42.5°	6867.4	6737.3	6642.8	6589.6	6554.1	6524.6	6571.9	6583.7	6648.7	6660.5
45°	6229.1	6116.8	6040.0	5986.8	5957.2	5969.0	6016.3	6045.9	6105.0	6134.5
47.5°	5644.0	5549.4	5466.7	5443.1	5443.1	5454.9	5502.2	5531.7	5579.0	5614.5
50°	5070.7	4999.8	4946.6	4917.1	4923.0	4940.7	4982.1	5005.7	5053.0	5053.0
52.5°	4509.3	4462.0	4438.4	4402.9	4402.9	4397.0	4438.4	4462.0	4497.5	4503.4
55°	4018.8	3977.4	3953.8	3930.1	3924.2	3936.0	3959.7	3977.4	4018.8	4024.7
57.5°	3551.9	3534.2	3516.4	3498.7	3492.8	3498.7	3510.5	3522.3	3546.0	3551.9
60°	3126.4	3120.5	3096.8	3079.1	3073.2	3067.3	3061.4	3055.4	3067.3	3061.4
62.5°	2736.3	2718.6	2700.8	2665.4	2647.7	2600.4	2541.3	2411.3	2304.9	2245.8
65°	2352.2	2340.3	2257.6	2015.3	1867.5	1678.4	1477.5	1282.5	1217.4	1176.1
67.5°	1979.8	1784.8	1489.3	1276.5	1199.7	1128.8	1022.4	916.0	856.9	821.5
70°	1424.3	1258.8	1122.9	1004.7	951.5	910.1	827.4	750.6	697.4	673.7
72.5°	1152.4	1046.1	957.4	868.8	827.4	780.1	697.4	620.5	573.3	549.6
75°	963.3	898.3	809.7	726.9	691.5	656.0	596.9	537.8	496.4	478.7
77.5°	762.4	726.9	673.7	608.7	579.2	555.5	502.3	461.0	419.6	401.9
80°	561.4	549.6	514.2	466.9	443.2	425.5	384.1	348.7	313.2	301.4
82.5°	413.7	401.9	372.3	336.9	325.0	307.3	277.8	248.2	224.6	212.8
85°	283.7	277.8	254.1	230.5	218.7	206.8	177.3	153.7	135.9	124.1
87.5°	177.3	171.4	159.6	135.9	124.1	112.3	88.6	70.9	53.2	47.3
90°	88.6	88.6	82.7	65.0	59.1	53.2	35.5	17.7	5.9	0.0
92.5°	23.6	23.6	23.6	17.7	17.7	11.8	5.9	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: P256912

CATALOG NUMBER: HGL-S-BA-80L830-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)