

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: P256887

Luminaire Tested: **HGL-S-BA-80L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256887
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-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: 15051.7 lumens
Efficiency: N/A
Efficacy: 106.7 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

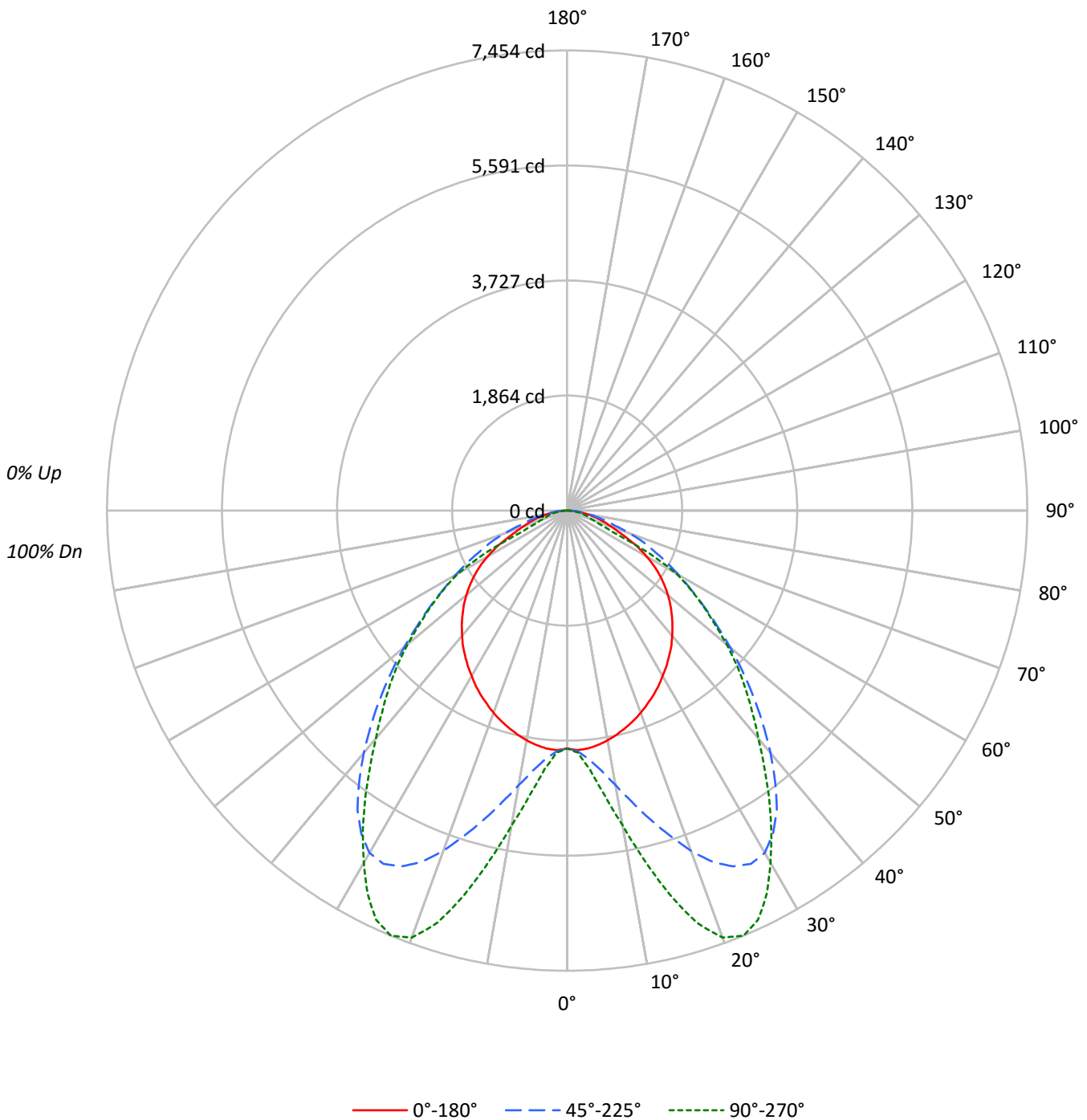
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256887

CATALOG NUMBER: HGL-S-BA-80L830-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P256887

CATALOG NUMBER: HGL-S-BA-80L830-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	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				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54				54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47				47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22624	22624	22624
5°	22800	23736	24706
10°	22521	26769	30653
15°	22145	31155	38750
20°	21776	36212	45266
25°	21377	40595	46452
30°	20953	42624	43563
35°	20625	41521	39679
40°	20272	38267	35656
45°	19898	34371	32538
50°	19440	30342	29249
55°	18720	26467	25853
60°	17450	23243	22281
65°	15122	20140	9961
70°	13009	16983	6886
75°	11922	13185	6225
80°	10713	10725	5445
85°	8900	9348	3717



TEST NUMBER: P256887

CATALOG NUMBER: HGL-S-BA-80L830-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	2.7
10°-20°	1457.1	9.7
20°-30°	2637.2	17.5
30°-40°	3164.9	21.0
40°-50°	2998.2	19.9
50°-60°	2349.2	15.6
60°-70°	1311.1	8.7
70°-80°	555.6	3.7
80°-90°	172.8	1.1
90°-100°	6.2	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°	4493.6	29.9
0°-40°	7658.5	50.9
0°-60°	13005.9	86.4
0°-90°	15045.5	100.0
90°-120°	6.2	0.0
90°-150°	6.2	0.0
90°-180°	6.0	0.0
0°-180°	15051.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3853	3853	3853	3853	3853	
5°	3869	3885	4038	4172	4208	366
15°	3644	4082	5169	6119	6450	1028
25°	3302	4338	6359	7135	7316	1521
35°	2880	4436	5922	5674	5705	1802
45°	2399	4062	4271	3972	4090	1850
55°	1832	2951	2703	2616	2683	1632
65°	1091	1363	1548	1245	784	1091
75°	528	548	650	461	319	562
85°	134	154	189	146	83	149
90°	0	32	59	39	0	8
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: P256887

CATALOG NUMBER: HGL-S-BA-80L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3
2.5°	3884.8	3880.9	3869.0	3853.3	3857.2	3861.2	3861.2	3865.1	3869.0	3880.9	3904.5
5°	3869.0	3861.2	3857.2	3853.3	3873.0	3884.8	3896.6	3920.3	3947.8	3991.2	4038.5
7.5°	3829.6	3829.6	3837.5	3853.3	3896.6	3924.2	3947.8	4006.9	4073.9	4156.7	4247.3
10°	3778.4	3786.3	3809.9	3845.4	3924.2	3967.5	4014.8	4113.3	4227.6	4365.5	4515.2
12.5°	3715.4	3731.1	3770.5	3837.5	3955.7	4022.7	4093.6	4243.3	4412.8	4609.8	4830.4
15°	3644.5	3664.2	3727.2	3825.7	3987.2	4081.8	4180.3	4385.2	4617.6	4881.6	5169.2
17.5°	3569.6	3597.2	3683.9	3821.8	4030.6	4148.8	4274.9	4542.8	4842.2	5161.4	5516.0
20°	3486.9	3526.3	3636.6	3813.9	4070.0	4215.8	4369.4	4704.3	5070.7	5449.0	5862.7
22.5°	3392.3	3443.5	3581.4	3798.1	4109.4	4282.7	4464.0	4854.0	5279.6	5709.0	6158.2
25°	3301.7	3356.9	3518.4	3778.4	4140.9	4337.9	4546.7	4991.9	5468.7	5921.8	6359.1
27.5°	3203.2	3266.2	3459.3	3758.7	4164.5	4385.2	4617.6	5106.2	5606.6	6055.7	6449.7
30°	3092.9	3175.6	3392.3	3727.2	4176.4	4420.6	4672.8	5196.8	5693.3	6087.2	6402.4
32.5°	2990.4	3081.1	3317.5	3691.7	4180.3	4440.3	4708.3	5224.4	5693.3	6016.3	6205.4
35°	2880.1	2978.6	3242.6	3648.4	4164.5	4436.4	4704.3	5216.5	5610.5	5831.2	5921.8
37.5°	2769.8	2876.2	3163.8	3589.3	4129.1	4408.8	4676.7	5137.7	5441.1	5559.3	5535.7
40°	2647.7	2765.9	3061.4	3514.5	4066.0	4337.9	4594.0	4999.8	5192.9	5212.6	5125.9
42.5°	2525.5	2647.7	2958.9	3416.0	3959.7	4219.7	4456.1	4779.2	4869.8	4826.5	4692.5
45°	2399.4	2525.5	2836.8	3297.8	3825.7	4062.1	4259.1	4491.6	4491.6	4412.8	4270.9
47.5°	2269.4	2391.6	2706.8	3159.9	3652.3	3857.2	4018.8	4156.7	4093.6	3995.1	3853.3
50°	2131.5	2253.7	2561.0	2994.4	3427.8	3597.2	3731.1	3782.4	3683.9	3573.5	3447.5
52.5°	1985.7	2107.9	2387.6	2785.6	3163.8	3289.9	3388.4	3384.4	3266.2	3167.7	3057.4
55°	1832.1	1942.4	2194.6	2537.3	2848.6	2951.0	3010.1	2962.9	2852.5	2761.9	2702.8
57.5°	1670.5	1761.2	1977.9	2257.6	2490.1	2568.9	2604.3	2541.3	2462.5	2407.3	2375.8
60°	1489.3	1564.2	1717.8	1934.5	2103.9	2159.1	2182.7	2139.4	2111.8	2096.1	2088.2
62.5°	1300.2	1335.6	1434.1	1576.0	1717.8	1757.2	1784.8	1792.7	1788.7	1796.6	1816.3
65°	1091.4	1103.2	1134.7	1205.6	1315.9	1363.2	1414.4	1469.6	1501.1	1532.6	1548.4
67.5°	898.3	902.3	918.0	941.7	985.0	1036.2	1079.6	1162.3	1233.2	1292.3	1331.7
70°	760.4	756.5	760.4	772.2	795.9	815.6	835.3	894.4	969.2	1067.7	1075.6
72.5°	642.2	638.3	642.2	650.1	658.0	665.9	677.7	701.3	744.7	803.8	815.6
75°	528.0	528.0	528.0	535.8	543.7	547.7	555.5	563.4	579.2	622.5	650.1
77.5°	421.6	417.6	425.5	429.5	433.4	441.3	445.2	453.1	461.0	476.7	496.4
80°	319.1	315.2	319.1	327.0	331.0	338.8	338.8	350.7	354.6	366.4	374.3
82.5°	224.6	220.6	224.6	232.5	232.5	240.3	244.3	252.2	260.0	267.9	275.8
85°	134.0	134.0	137.9	141.8	145.8	153.7	157.6	169.4	177.3	185.2	189.1
87.5°	59.1	59.1	63.0	67.0	74.9	82.7	86.7	94.6	102.4	114.3	114.3
90°	0.0	3.9	11.8	19.7	23.6	31.5	31.5	43.3	47.3	55.2	59.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	7.9	11.8	15.8
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: P256887

CATALOG NUMBER: HGL-S-BA-80L830-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: P256887

CATALOG NUMBER: HGL-S-BA-80L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3	3853.3
2.5°	3940.0	3916.3	3932.1	3936.0	3940.0	3932.1	3924.2	3932.1	3924.2	3924.2
5°	4097.6	4093.6	4133.0	4160.6	4172.4	4172.4	4196.1	4211.8	4215.8	4207.9
7.5°	4345.8	4369.4	4448.2	4503.4	4534.9	4550.7	4594.0	4617.6	4649.2	4645.2
10°	4672.8	4747.7	4865.9	4944.7	4999.8	5027.4	5090.4	5133.8	5185.0	5181.1
12.5°	5031.3	5169.2	5334.7	5460.8	5543.5	5594.8	5677.5	5756.3	5803.6	5807.5
15°	5437.2	5626.3	5850.9	6012.4	6118.8	6185.7	6300.0	6378.8	6457.6	6449.7
17.5°	5835.1	6063.6	6335.5	6548.2	6646.7	6709.8	6847.7	6930.4	7005.3	7005.3
20°	6189.7	6453.7	6729.5	6926.5	7021.0	7084.1	7202.3	7285.0	7340.2	7359.9
22.5°	6473.4	6717.6	6950.1	7119.5	7178.6	7229.8	7320.5	7387.4	7422.9	7454.4
25°	6631.0	6828.0	6985.6	7103.8	7135.3	7162.9	7214.1	7265.3	7273.2	7316.5
27.5°	6634.9	6780.7	6867.4	6910.7	6914.6	6914.6	6950.1	6969.8	6985.6	7001.3
30°	6493.1	6560.0	6575.8	6579.7	6560.0	6548.2	6571.9	6575.8	6587.6	6587.6
32.5°	6209.4	6225.1	6197.6	6154.2	6142.4	6118.8	6134.5	6126.6	6146.3	6158.2
35°	5846.9	5819.3	5748.4	5716.9	5673.6	5661.7	5673.6	5665.7	5677.5	5705.1
37.5°	5433.2	5374.1	5315.0	5259.9	5228.3	5196.8	5208.6	5220.5	5236.2	5244.1
40°	5007.7	4928.9	4865.9	4810.7	4779.2	4755.5	4775.2	4787.1	4822.5	4822.5
42.5°	4578.2	4491.6	4428.5	4393.1	4369.4	4349.7	4381.2	4389.1	4432.5	4440.3
45°	4152.7	4077.9	4026.6	3991.2	3971.5	3979.4	4010.9	4030.6	4070.0	4089.7
47.5°	3762.7	3699.6	3644.5	3628.7	3628.7	3636.6	3668.1	3687.8	3719.3	3743.0
50°	3380.5	3333.2	3297.8	3278.1	3282.0	3293.8	3321.4	3337.2	3368.7	3368.7
52.5°	3006.2	2974.7	2958.9	2935.3	2935.3	2931.3	2958.9	2974.7	2998.3	3002.3
55°	2679.2	2651.6	2635.8	2620.1	2616.1	2624.0	2639.8	2651.6	2679.2	2683.1
57.5°	2367.9	2356.1	2344.3	2332.5	2328.5	2332.5	2340.3	2348.2	2364.0	2367.9
60°	2084.2	2080.3	2064.5	2052.7	2048.8	2044.8	2040.9	2037.0	2044.8	2040.9
62.5°	1824.2	1812.4	1800.6	1776.9	1765.1	1733.6	1694.2	1607.5	1536.6	1497.2
65°	1568.1	1560.2	1505.1	1343.5	1245.0	1119.0	985.0	855.0	811.6	784.1
67.5°	1319.9	1189.9	992.9	851.0	799.8	752.5	681.6	610.7	571.3	547.7
70°	949.5	839.2	748.6	669.8	634.3	606.8	551.6	500.4	464.9	449.2
72.5°	768.3	697.4	638.3	579.2	551.6	520.1	464.9	413.7	382.2	366.4
75°	642.2	598.9	539.8	484.6	461.0	437.3	397.9	358.5	331.0	319.1
77.5°	508.3	484.6	449.2	405.8	386.1	370.4	334.9	307.3	279.7	267.9
80°	374.3	366.4	342.8	311.3	295.5	283.7	256.1	232.5	208.8	200.9
82.5°	275.8	267.9	248.2	224.6	216.7	204.9	185.2	165.5	149.7	141.8
85°	189.1	185.2	169.4	153.7	145.8	137.9	118.2	102.4	90.6	82.7
87.5°	118.2	114.3	106.4	90.6	82.7	74.9	59.1	47.3	35.5	31.5
90°	59.1	59.1	55.2	43.3	39.4	35.5	23.6	11.8	3.9	0.0
92.5°	15.8	15.8	15.8	11.8	11.8	7.9	3.9	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: P256887

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