

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: P256892

Luminaire Tested: **HGL-S-BA-80L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256892  
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-80L835-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15615.2 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

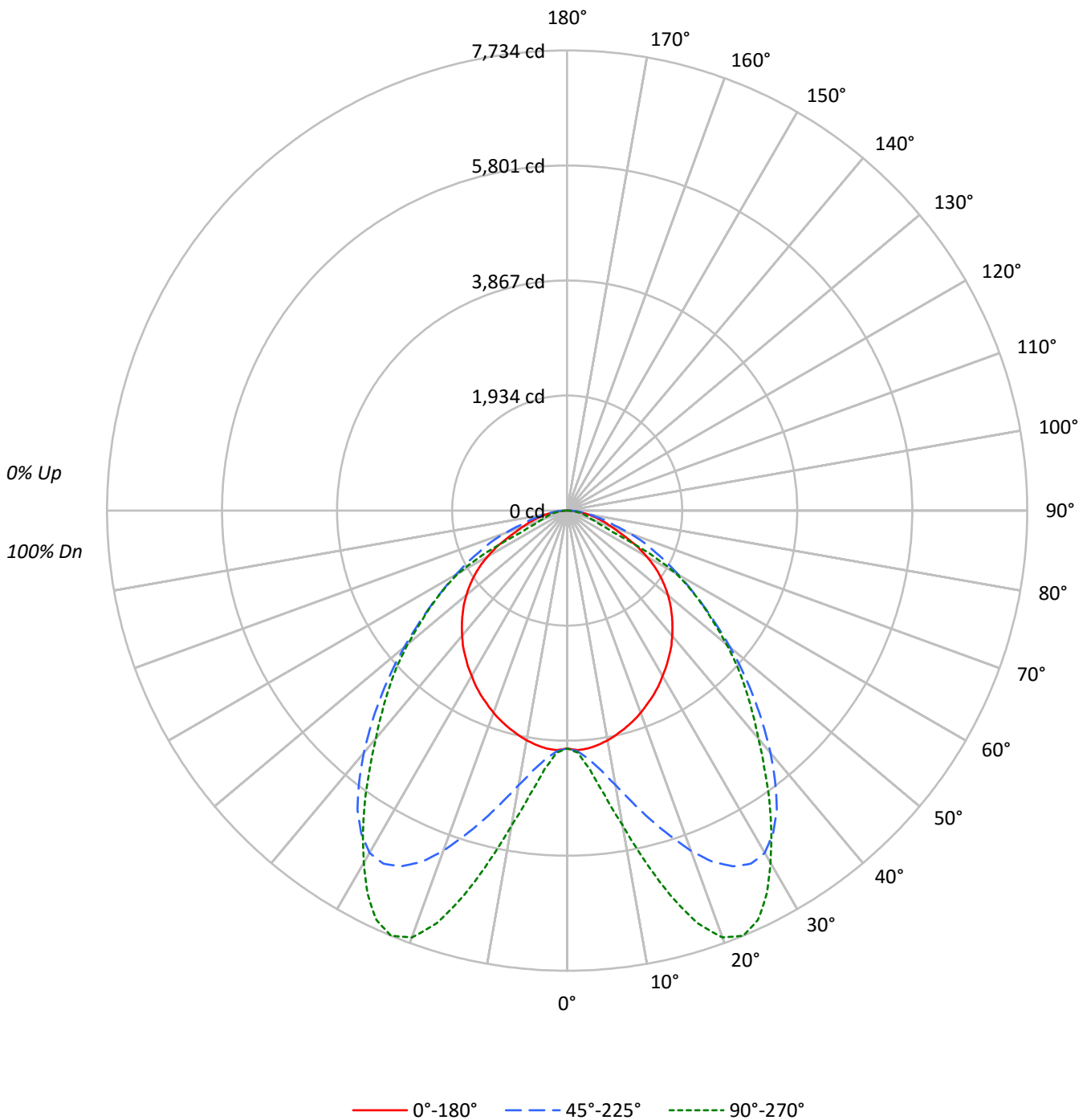
Input Watts (W): 141  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-80L835-UNV-8

### 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°	23470	23470	23470
5°	23654	24624	25630
10°	23364	27771	31800
15°	22974	32322	40201
20°	22591	37567	46960
25°	22177	42114	48191
30°	21738	44220	45194
35°	21397	43076	41164
40°	21030	39700	36991
45°	20643	35658	33756
50°	20168	31477	30344
55°	19421	27458	26822
60°	18104	24113	23115
65°	15687	20895	10333
70°	13496	17619	7143
75°	12367	13678	6459
80°	11116	11126	5651
85°	9232	9698	3856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.3	2.7
10°-20°	1511.6	9.7
20°-30°	2735.9	17.5
30°-40°	3283.4	21.0
40°-50°	3110.4	19.9
50°-60°	2437.1	15.6
60°-70°	1360.2	8.7
70°-80°	576.4	3.7
80°-90°	179.3	1.1
90°-100°	6.5	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°	4661.9	29.9
0°-40°	7945.2	50.9
0°-60°	13492.8	86.4
0°-90°	15608.7	100.0
90°-120°	6.5	0.0
90°-150°	6.5	0.0
90°-180°	6.0	0.0
0°-180°	15615.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3998	3998	3998	3998	3998	
5°	4014	4030	4190	4329	4365	380
15°	3781	4235	5363	6348	6691	1066
25°	3425	4500	6597	7402	7590	1578
35°	2988	4602	6144	5886	5919	1870
45°	2489	4214	4431	4120	4243	1919
55°	1901	3062	2804	2714	2784	1693
65°	1132	1414	1606	1292	813	1132
75°	548	568	674	478	331	583
85°	139	159	196	151	86	155
90°	0	33	61	41	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: P256892

CATALOG NUMBER: HGL-S-BA-80L835-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5
2.5°	4030.2	4026.2	4013.9	3997.5	4001.6	4005.7	4005.7	4009.8	4013.9	4026.2	4050.7
5°	4013.9	4005.7	4001.6	3997.5	4018.0	4030.2	4042.5	4067.0	4095.6	4140.6	4189.7
7.5°	3973.0	3973.0	3981.2	3997.5	4042.5	4071.1	4095.6	4157.0	4226.4	4312.3	4406.3
10°	3919.9	3928.1	3952.6	3989.4	4071.1	4116.1	4165.1	4267.3	4385.9	4528.9	4684.2
12.5°	3854.5	3870.8	3911.7	3981.2	4103.8	4173.3	4246.9	4402.2	4578.0	4782.3	5011.2
15°	3780.9	3801.3	3866.7	3968.9	4136.5	4234.6	4336.8	4549.3	4790.5	5064.4	5362.8
17.5°	3703.2	3731.9	3821.8	3964.8	4181.5	4304.1	4434.9	4712.8	5023.5	5354.6	5722.5
20°	3617.4	3658.3	3772.7	3956.7	4222.4	4373.6	4533.0	4880.4	5260.6	5653.0	6082.1
22.5°	3519.3	3572.4	3715.5	3940.3	4263.2	4443.1	4631.1	5035.8	5477.2	5922.7	6388.7
25°	3425.3	3482.5	3650.1	3919.9	4295.9	4500.3	4716.9	5178.8	5673.4	6143.5	6597.2
27.5°	3323.1	3388.5	3588.8	3899.4	4320.5	4549.3	4790.5	5297.4	5816.5	6282.4	6691.2
30°	3208.7	3294.5	3519.3	3866.7	4332.7	4586.1	4847.7	5391.4	5906.4	6315.1	6642.1
32.5°	3102.4	3196.4	3441.6	3830.0	4336.8	4606.6	4884.5	5420.0	5906.4	6241.6	6437.8
35°	2987.9	3090.1	3364.0	3785.0	4320.5	4602.5	4880.4	5411.8	5820.6	6049.4	6143.5
37.5°	2873.5	2983.9	3282.2	3723.7	4283.7	4573.9	4851.8	5330.1	5644.8	5767.4	5742.9
40°	2746.8	2869.4	3176.0	3646.0	4218.3	4500.3	4766.0	5187.0	5387.3	5407.7	5317.8
42.5°	2620.1	2746.8	3069.7	3543.8	4107.9	4377.7	4622.9	4958.1	5052.1	5007.1	4868.2
45°	2489.3	2620.1	2943.0	3421.2	3968.9	4214.2	4418.6	4659.7	4659.7	4578.0	4430.8
47.5°	2354.4	2481.1	2808.1	3278.1	3789.1	4001.6	4169.2	4312.3	4246.9	4144.7	3997.5
50°	2211.3	2338.0	2656.9	3106.5	3556.1	3731.9	3870.8	3924.0	3821.8	3707.3	3576.5
52.5°	2060.1	2186.8	2477.0	2889.8	3282.2	3413.0	3515.2	3511.1	3388.5	3286.3	3171.9
55°	1900.7	2015.1	2276.7	2632.3	2955.2	3061.5	3122.8	3073.8	2959.3	2865.3	2804.0
57.5°	1733.1	1827.1	2051.9	2342.1	2583.3	2665.0	2701.8	2636.4	2554.7	2497.4	2464.7
60°	1545.1	1622.7	1782.1	2006.9	2182.7	2239.9	2264.5	2219.5	2190.9	2174.5	2166.4
62.5°	1348.9	1385.7	1487.8	1635.0	1782.1	1823.0	1851.6	1859.8	1855.7	1863.9	1884.3
65°	1132.2	1144.5	1177.2	1250.8	1365.2	1414.3	1467.4	1524.6	1557.3	1590.0	1606.4
67.5°	931.9	936.0	952.4	976.9	1021.9	1075.0	1120.0	1205.8	1279.4	1340.7	1381.6
70°	788.9	784.8	788.9	801.1	825.7	846.1	866.5	927.9	1005.5	1107.7	1115.9
72.5°	666.3	662.2	666.3	674.4	682.6	690.8	703.0	727.6	772.5	833.8	846.1
75°	547.7	547.7	547.7	555.9	564.1	568.2	576.3	584.5	600.9	645.8	674.4
77.5°	437.4	433.3	441.4	445.5	449.6	457.8	461.9	470.1	478.2	494.6	515.0
80°	331.1	327.0	331.1	339.3	343.3	351.5	351.5	363.8	367.9	380.1	388.3
82.5°	233.0	228.9	233.0	241.2	241.2	249.3	253.4	261.6	269.8	277.9	286.1
85°	139.0	139.0	143.1	147.1	151.2	159.4	163.5	175.8	183.9	192.1	196.2
87.5°	61.3	61.3	65.4	69.5	77.7	85.8	89.9	98.1	106.3	118.5	118.5
90°	0.0	4.1	12.3	20.4	24.5	32.7	32.7	45.0	49.0	57.2	61.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	8.2	12.3	16.3
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°	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5	3997.5
2.5°	4087.5	4062.9	4079.3	4083.4	4087.5	4079.3	4071.1	4079.3	4071.1	4071.1
5°	4251.0	4246.9	4287.8	4316.4	4328.6	4328.6	4353.2	4369.5	4373.6	4365.4
7.5°	4508.5	4533.0	4614.7	4672.0	4704.7	4721.0	4766.0	4790.5	4823.2	4819.1
10°	4847.7	4925.4	5048.0	5129.8	5187.0	5215.6	5281.0	5326.0	5379.1	5375.0
12.5°	5219.7	5362.8	5534.4	5665.2	5751.1	5804.2	5890.0	5971.8	6020.8	6024.9
15°	5640.7	5836.9	6069.9	6237.5	6347.8	6417.3	6535.9	6617.6	6699.4	6691.2
17.5°	6053.5	6290.6	6572.6	6793.4	6895.6	6961.0	7104.0	7189.9	7267.5	7267.5
20°	6421.4	6695.3	6981.4	7185.8	7283.9	7349.3	7471.9	7557.7	7614.9	7635.4
22.5°	6715.7	6969.1	7210.3	7386.1	7447.4	7500.5	7594.5	7664.0	7700.8	7733.5
25°	6879.2	7083.6	7247.1	7369.7	7402.4	7431.0	7484.1	7537.3	7545.5	7590.4
27.5°	6883.3	7034.5	7124.5	7169.4	7173.5	7173.5	7210.3	7230.7	7247.1	7263.4
30°	6736.1	6805.6	6822.0	6826.1	6805.6	6793.4	6817.9	6822.0	6834.2	6834.2
32.5°	6441.8	6458.2	6429.6	6384.6	6372.4	6347.8	6364.2	6356.0	6376.4	6388.7
35°	6065.8	6037.2	5963.6	5930.9	5886.0	5873.7	5886.0	5877.8	5890.0	5918.7
37.5°	5636.6	5575.3	5514.0	5456.8	5424.1	5391.4	5403.6	5415.9	5432.2	5440.4
40°	5195.2	5113.4	5048.0	4990.8	4958.1	4933.6	4954.0	4966.3	5003.1	5003.1
42.5°	4749.6	4659.7	4594.3	4557.5	4533.0	4512.6	4545.3	4553.4	4598.4	4606.6
45°	4308.2	4230.5	4177.4	4140.6	4120.2	4128.3	4161.0	4181.5	4222.4	4242.8
47.5°	3903.5	3838.1	3780.9	3764.6	3764.6	3772.7	3805.4	3825.9	3858.6	3883.1
50°	3507.0	3458.0	3421.2	3400.8	3404.9	3417.1	3445.7	3462.1	3494.8	3494.8
52.5°	3118.7	3086.0	3069.7	3045.2	3045.2	3041.1	3069.7	3086.0	3110.6	3114.6
55°	2779.5	2750.9	2734.5	2718.2	2714.1	2722.3	2738.6	2750.9	2779.5	2783.6
57.5°	2456.6	2444.3	2432.0	2419.8	2415.7	2419.8	2428.0	2436.1	2452.5	2456.6
60°	2162.3	2158.2	2141.8	2129.6	2125.5	2121.4	2117.3	2113.2	2121.4	2117.3
62.5°	1892.5	1880.2	1868.0	1843.4	1831.2	1798.5	1757.6	1667.7	1594.1	1553.2
65°	1626.8	1618.6	1561.4	1393.8	1291.6	1160.8	1021.9	887.0	842.0	813.4
67.5°	1369.3	1234.4	1030.0	882.9	829.8	780.7	707.1	633.6	592.7	568.2
70°	985.1	870.6	776.6	694.9	658.1	629.5	572.2	519.1	482.3	466.0
72.5°	797.1	723.5	662.2	600.9	572.2	539.5	482.3	429.2	396.5	380.1
75°	666.3	621.3	560.0	502.8	478.2	453.7	412.8	372.0	343.3	331.1
77.5°	527.3	502.8	466.0	421.0	400.6	384.2	347.4	318.8	290.2	277.9
80°	388.3	380.1	355.6	322.9	306.6	294.3	265.7	241.2	216.6	208.5
82.5°	286.1	277.9	257.5	233.0	224.8	212.5	192.1	171.7	155.3	147.1
85°	196.2	192.1	175.8	159.4	151.2	143.1	122.6	106.3	94.0	85.8
87.5°	122.6	118.5	110.4	94.0	85.8	77.7	61.3	49.0	36.8	32.7
90°	61.3	61.3	57.2	45.0	40.9	36.8	24.5	12.3	4.1	0.0
92.5°	16.3	16.3	16.3	12.3	12.3	8.2	4.1	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: P256892

CATALOG NUMBER: HGL-S-BA-80L835-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)