

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: P256897

Luminaire Tested: **HGL-S-BA-80L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256897
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-80L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15847.7 lumens
Efficiency: N/A
Efficacy: 112.4 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

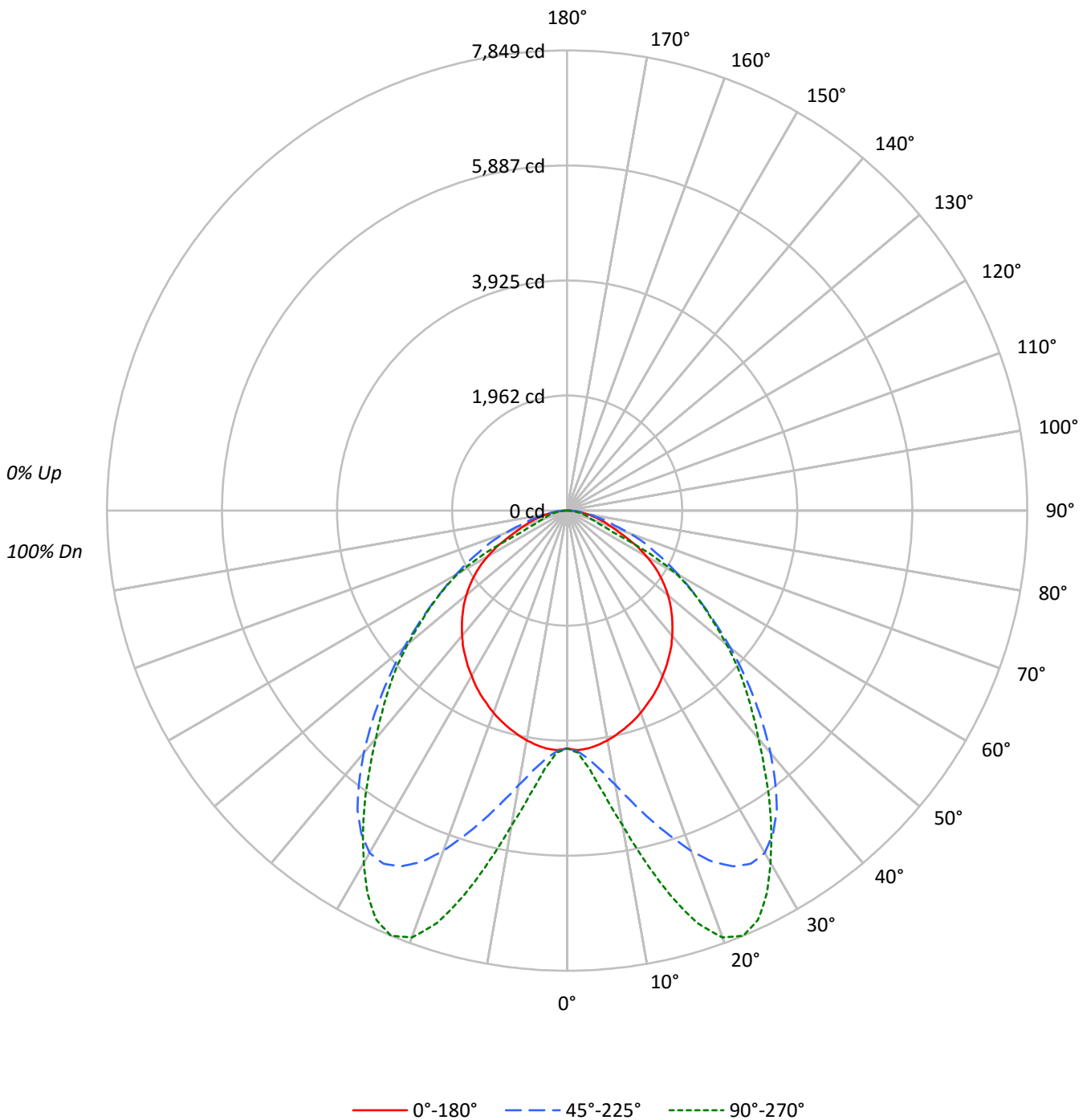
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23820	23820	23820
5°	24006	24990	26012
10°	23713	28185	32274
15°	23316	32803	40800
20°	22928	38127	47660
25°	22507	42741	48909
30°	22061	44878	45867
35°	21716	43717	41777
40°	21343	40291	37542
45°	20950	36189	34258
50°	20469	31946	30795
55°	19710	27867	27221
60°	18374	24472	23459
65°	15921	21206	10487
70°	13696	17882	7249
75°	12552	13883	6555
80°	11281	11292	5735
85°	9365	9842	3915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.5	2.7
10°-20°	1534.1	9.7
20°-30°	2776.7	17.5
30°-40°	3332.3	21.0
40°-50°	3156.7	19.9
50°-60°	2473.4	15.6
60°-70°	1380.4	8.7
70°-80°	585.0	3.7
80°-90°	182.0	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°	4731.3	29.9
0°-40°	8063.6	50.9
0°-60°	13693.7	86.4
0°-90°	15841.1	100.0
90°-120°	6.5	0.0
90°-150°	6.5	0.0
90°-180°	7.0	0.0
0°-180°	15847.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4057	4057	4057	4057	4057	
5°	4074	4090	4252	4393	4430	386
15°	3837	4298	5443	6442	6791	1082
25°	3476	4567	6695	7513	7704	1601
35°	3032	4671	6235	5974	6007	1898
45°	2526	4277	4497	4182	4306	1948
55°	1929	3107	2846	2754	2825	1718
65°	1149	1435	1630	1311	826	1148
75°	556	577	684	485	336	592
85°	141	162	199	154	87	157
90°	0	33	62	42	0	9
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°	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1
2.5°	4090.3	4086.1	4073.7	4057.1	4061.2	4065.4	4065.4	4069.5	4073.7	4086.1	4111.0
5°	4073.7	4065.4	4061.2	4057.1	4077.8	4090.3	4102.7	4127.6	4156.6	4202.3	4252.0
7.5°	4032.2	4032.2	4040.5	4057.1	4102.7	4131.7	4156.6	4218.9	4289.4	4376.5	4471.9
10°	3978.3	3986.6	4011.4	4048.8	4131.7	4177.4	4227.2	4330.9	4451.2	4596.4	4754.0
12.5°	3911.9	3928.5	3970.0	4040.5	4164.9	4235.5	4310.1	4467.8	4646.1	4853.6	5085.9
15°	3837.2	3858.0	3924.3	4028.0	4198.1	4297.7	4401.4	4617.1	4861.9	5139.8	5442.6
17.5°	3758.4	3787.4	3878.7	4023.9	4243.7	4368.2	4500.9	4783.0	5098.3	5434.3	5807.7
20°	3671.3	3712.8	3828.9	4015.6	4285.2	4438.7	4600.5	4953.1	5338.9	5737.1	6172.7
22.5°	3571.7	3625.6	3770.8	3999.0	4326.7	4509.2	4700.1	5110.8	5558.8	6010.9	6483.9
25°	3476.3	3534.4	3704.5	3978.3	4359.9	4567.3	4787.2	5255.9	5757.9	6234.9	6695.4
27.5°	3372.6	3439.0	3642.2	3957.5	4384.8	4617.1	4861.9	5376.2	5903.1	6376.0	6790.8
30°	3256.4	3343.6	3571.7	3924.3	4397.2	4654.4	4919.9	5471.7	5994.3	6409.2	6741.0
32.5°	3148.6	3244.0	3492.9	3887.0	4401.4	4675.2	4957.3	5500.7	5994.3	6334.5	6533.6
35°	3032.4	3136.1	3414.1	3841.4	4384.8	4671.0	4953.1	5492.4	5907.2	6139.5	6234.9
37.5°	2916.3	3028.3	3331.1	3779.1	4347.5	4642.0	4924.1	5409.4	5728.9	5853.3	5828.4
40°	2787.7	2912.1	3223.3	3700.3	4281.1	4567.3	4837.0	5264.2	5467.5	5488.2	5397.0
42.5°	2659.1	2787.7	3115.4	3596.6	4169.1	4442.9	4691.8	5031.9	5127.3	5081.7	4940.7
45°	2526.3	2659.1	2986.8	3472.2	4028.0	4276.9	4484.4	4729.1	4729.1	4646.1	4496.8
47.5°	2389.4	2518.0	2849.9	3327.0	3845.5	4061.2	4231.3	4376.5	4310.1	4206.4	4057.1
50°	2244.3	2372.8	2696.4	3152.7	3609.1	3787.4	3928.5	3982.4	3878.7	3762.5	3629.8
52.5°	2090.8	2219.4	2513.9	2932.9	3331.1	3463.9	3567.6	3563.4	3439.0	3335.3	3219.1
55°	1929.0	2045.1	2310.6	2671.5	2999.2	3107.1	3169.3	3119.5	3003.4	2908.0	2845.8
57.5°	1758.9	1854.3	2082.5	2377.0	2621.7	2704.7	2742.1	2675.7	2592.7	2534.6	2501.4
60°	1568.1	1646.9	1808.7	2036.8	2215.2	2273.3	2298.2	2252.5	2223.5	2206.9	2198.6
62.5°	1369.0	1406.3	1510.0	1659.3	1808.7	1850.2	1879.2	1887.5	1883.3	1891.6	1912.4
65°	1149.1	1161.5	1194.7	1269.4	1385.5	1435.3	1489.3	1547.3	1580.5	1613.7	1630.3
67.5°	945.8	950.0	966.6	991.5	1037.1	1091.0	1136.6	1223.8	1298.4	1360.7	1402.1
70°	800.6	796.5	800.6	813.1	838.0	858.7	879.4	941.7	1020.5	1124.2	1132.5
72.5°	676.2	672.0	676.2	684.5	692.8	701.1	713.5	738.4	784.0	846.3	858.7
75°	555.9	555.9	555.9	564.2	572.5	576.6	584.9	593.2	609.8	655.4	684.5
77.5°	443.9	439.7	448.0	452.2	456.3	464.6	468.8	477.1	485.4	501.9	522.7
80°	336.0	331.9	336.0	344.3	348.5	356.8	356.8	369.2	373.4	385.8	394.1
82.5°	236.5	232.3	236.5	244.8	244.8	253.0	257.2	265.5	273.8	282.1	290.4
85°	141.0	141.0	145.2	149.3	153.5	161.8	165.9	178.4	186.7	195.0	199.1
87.5°	62.2	62.2	66.4	70.5	78.8	87.1	91.3	99.6	107.9	120.3	120.3
90°	0.0	4.1	12.4	20.7	24.9	33.2	33.2	45.6	49.8	58.1	62.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	8.3	12.4	16.6
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°	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1	4057.1
2.5°	4148.3	4123.4	4140.0	4144.2	4148.3	4140.0	4131.7	4140.0	4131.7	4131.7
5°	4314.3	4310.1	4351.6	4380.6	4393.1	4393.1	4418.0	4434.6	4438.7	4430.4
7.5°	4575.6	4600.5	4683.5	4741.5	4774.7	4791.3	4837.0	4861.9	4895.0	4890.9
10°	4919.9	4998.7	5123.2	5206.2	5264.2	5293.3	5359.7	5405.3	5459.2	5455.1
12.5°	5297.4	5442.6	5616.8	5749.6	5836.7	5890.6	5977.8	6060.7	6110.5	6114.6
15°	5724.7	5923.8	6160.3	6330.4	6442.4	6512.9	6633.2	6716.2	6799.1	6790.8
17.5°	6143.7	6384.3	6670.5	6894.5	6998.2	7064.6	7209.8	7296.9	7375.7	7375.7
20°	6517.0	6795.0	7085.4	7292.8	7392.3	7458.7	7583.2	7670.3	7728.4	7749.1
22.5°	6815.7	7072.9	7317.7	7496.0	7558.3	7612.2	7707.6	7778.1	7815.5	7848.7
25°	6981.7	7189.1	7355.0	7479.5	7512.6	7541.7	7595.6	7649.5	7657.8	7703.5
27.5°	6985.8	7139.3	7230.6	7276.2	7280.3	7280.3	7317.7	7338.4	7355.0	7371.6
30°	6836.5	6907.0	6923.6	6927.7	6907.0	6894.5	6919.4	6923.6	6936.0	6936.0
32.5°	6537.8	6554.4	6525.3	6479.7	6467.3	6442.4	6459.0	6450.7	6471.4	6483.9
35°	6156.1	6127.1	6052.4	6019.2	5973.6	5961.2	5973.6	5965.3	5977.8	6006.8
37.5°	5720.6	5658.3	5596.1	5538.0	5504.8	5471.7	5484.1	5496.5	5513.1	5521.4
40°	5272.5	5189.6	5123.2	5065.1	5031.9	5007.0	5027.8	5040.2	5077.6	5077.6
42.5°	4820.4	4729.1	4662.7	4625.4	4600.5	4579.8	4613.0	4621.2	4666.9	4675.2
45°	4372.3	4293.5	4239.6	4202.3	4181.5	4189.8	4223.0	4243.7	4285.2	4306.0
47.5°	3961.7	3895.3	3837.2	3820.6	3820.6	3828.9	3862.1	3882.8	3916.0	3940.9
50°	3559.3	3509.5	3472.2	3451.4	3455.6	3468.0	3497.0	3513.6	3546.8	3546.8
52.5°	3165.2	3132.0	3115.4	3090.5	3090.5	3086.4	3115.4	3132.0	3156.9	3161.0
55°	2820.9	2791.8	2775.2	2758.6	2754.5	2762.8	2779.4	2791.8	2820.9	2825.0
57.5°	2493.2	2480.7	2468.3	2455.8	2451.7	2455.8	2464.1	2472.4	2489.0	2493.2
60°	2194.5	2190.3	2173.7	2161.3	2157.1	2153.0	2148.8	2144.7	2153.0	2148.8
62.5°	1920.7	1908.2	1895.8	1870.9	1858.5	1825.3	1783.8	1692.5	1617.9	1576.4
65°	1651.0	1642.7	1584.7	1414.6	1310.9	1178.1	1037.1	900.2	854.6	825.5
67.5°	1389.7	1252.8	1045.4	896.0	842.1	792.3	717.7	643.0	601.5	576.6
70°	999.7	883.6	788.2	705.2	667.9	638.8	580.8	526.8	489.5	472.9
72.5°	808.9	734.3	672.0	609.8	580.8	547.6	489.5	435.6	402.4	385.8
75°	676.2	630.5	568.3	510.2	485.4	460.5	419.0	377.5	348.5	336.0
77.5°	535.1	510.2	472.9	427.3	406.5	389.9	352.6	323.6	294.5	282.1
80°	394.1	385.8	360.9	327.7	311.1	298.7	269.6	244.8	219.9	211.6
82.5°	290.4	282.1	261.3	236.5	228.2	215.7	195.0	174.2	157.6	149.3
85°	199.1	195.0	178.4	161.8	153.5	145.2	124.5	107.9	95.4	87.1
87.5°	124.5	120.3	112.0	95.4	87.1	78.8	62.2	49.8	37.3	33.2
90°	62.2	62.2	58.1	45.6	41.5	37.3	24.9	12.4	4.1	0.0
92.5°	16.6	16.6	16.6	12.4	12.4	8.3	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: P256897

CATALOG NUMBER: HGL-S-BA-80L840-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)