

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: P256922

Luminaire Tested: **HGL-S-BA-80L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256922
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

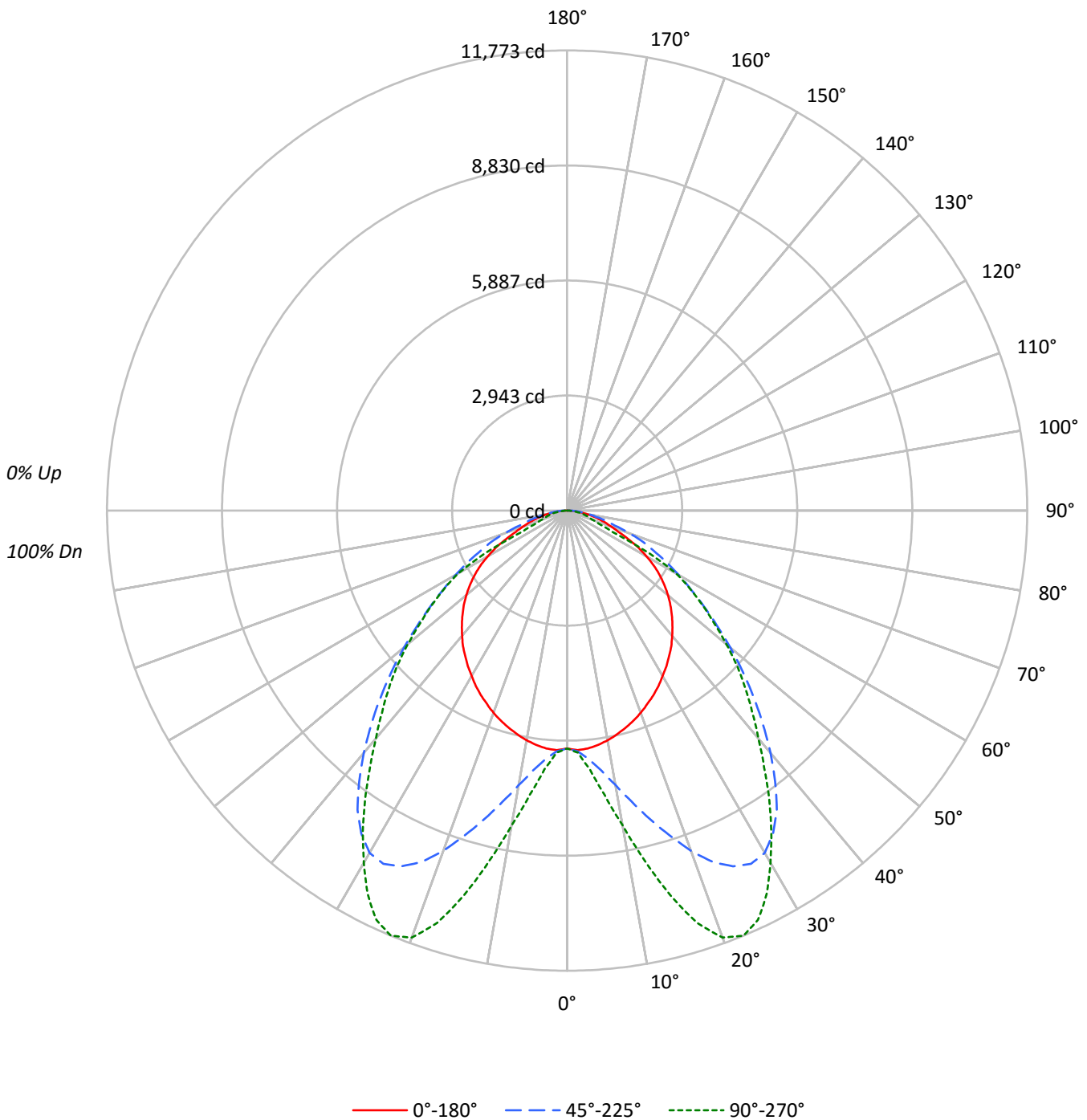
Lumens per Lamp: N/A
Luminaire Lumens: 23771.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

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	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°	23820	23820	23820
5°	24007	24991	26012
10°	23714	28186	32274
15°	23319	32806	40800
20°	22931	38131	47659
25°	22512	42747	48909
30°	22067	44886	45867
35°	21722	43726	41777
40°	21351	40301	37541
45°	20959	36199	34258
50°	20479	31957	30795
55°	19722	27877	27221
60°	18386	24483	23460
65°	15935	21218	10487
70°	13712	17894	7249
75°	12571	13896	6555
80°	11307	11307	5733
85°	9413	9868	3916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.7	2.7
10°-20°	2301.2	9.7
20°-30°	4165.0	17.5
30°-40°	4998.4	21.0
40°-50°	4735.1	19.9
50°-60°	3710.1	15.6
60°-70°	2070.7	8.7
70°-80°	877.5	3.7
80°-90°	273.0	1.1
90°-100°	9.8	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°	7096.9	29.9
0°-40°	12095.3	50.9
0°-60°	20540.6	86.4
0°-90°	23761.7	100.0
90°-120°	9.8	0.0
90°-150°	9.8	0.0
90°-180°	10.0	0.0
0°-180°	23771.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6086	6086	6086	6086	6086	
5°	6110	6135	6378	6590	6646	578
15°	5756	6446	8164	9664	10186	1623
25°	5214	6851	10043	11269	11555	2402
35°	4549	7006	9352	8960	9010	2846
45°	3790	6415	6745	6272	6459	2922
55°	2894	4661	4269	4132	4238	2577
65°	1724	2153	2445	1966	1238	1723
75°	834	865	1027	728	504	888
85°	212	243	299	230	131	235
90°	0	50	93	62	0	13
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°	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6
2.5°	6135.4	6129.2	6110.5	6085.6	6091.8	6098.1	6098.1	6104.3	6110.5	6129.2	6166.5
5°	6110.5	6098.1	6091.8	6085.6	6116.7	6135.4	6154.1	6191.4	6234.9	6303.4	6378.1
7.5°	6048.3	6048.3	6060.7	6085.6	6154.1	6197.6	6234.9	6328.3	6434.1	6564.7	6707.9
10°	5967.4	5979.8	6017.2	6073.2	6197.6	6266.1	6340.7	6496.3	6676.7	6894.5	7131.0
12.5°	5867.8	5892.7	5954.9	6060.7	6247.4	6353.2	6465.2	6701.6	6969.2	7280.3	7628.8
15°	5755.8	5786.9	5886.5	6042.1	6297.2	6446.5	6602.1	6925.6	7292.8	7709.7	8163.9
17.5°	5637.6	5681.1	5818.0	6035.8	6365.6	6552.3	6751.4	7174.5	7647.5	8151.5	8711.5
20°	5506.9	5569.1	5743.4	6023.4	6427.8	6658.1	6900.8	7429.7	8008.4	8605.7	9259.1
22.5°	5357.6	5438.5	5656.3	5998.5	6490.1	6763.9	7050.1	7666.1	8338.2	9016.4	9725.8
25°	5214.5	5301.6	5556.7	5967.4	6539.9	6851.0	7180.8	7883.9	8636.8	9352.4	10043.1
27.5°	5058.9	5158.5	5463.4	5936.3	6577.2	6925.6	7292.8	8064.4	8854.6	9564.0	10186.2
30°	4884.7	5015.3	5357.6	5886.5	6595.9	6981.7	7379.9	8207.5	8991.5	9613.8	10111.6
32.5°	4722.9	4866.0	5239.3	5830.5	6602.1	7012.8	7435.9	8251.0	8991.5	9501.8	9800.4
35°	4548.7	4704.2	5121.1	5762.0	6577.2	7006.5	7429.7	8238.6	8860.8	9209.3	9352.4
37.5°	4374.4	4542.4	4996.7	5668.7	6521.2	6963.0	7386.1	8114.1	8593.3	8780.0	8742.6
40°	4181.5	4368.2	4834.9	5550.5	6421.6	6851.0	7255.4	7896.4	8201.3	8232.4	8095.5
42.5°	3988.6	4181.5	4673.1	5394.9	6253.6	6664.3	7037.7	7547.9	7691.0	7622.6	7411.0
45°	3789.5	3988.6	4480.2	5208.2	6042.1	6415.4	6726.5	7093.7	7093.7	6969.2	6745.2
47.5°	3584.2	3777.1	4274.9	4990.4	5768.3	6091.8	6347.0	6564.7	6465.2	6309.6	6085.6
50°	3366.4	3559.3	4044.6	4729.1	5413.6	5681.1	5892.7	5973.6	5818.0	5643.8	5444.7
52.5°	3136.1	3329.0	3770.8	4399.3	4996.7	5195.8	5351.4	5345.1	5158.5	5002.9	4828.7
55°	2893.5	3067.7	3465.9	4007.3	4498.9	4660.7	4754.0	4679.3	4505.1	4362.0	4268.6
57.5°	2638.3	2781.5	3123.7	3565.5	3932.6	4057.1	4113.1	4013.5	3889.1	3802.0	3752.2
60°	2352.1	2470.3	2713.0	3055.2	3322.8	3409.9	3447.3	3378.8	3335.3	3310.4	3297.9
62.5°	2053.4	2109.4	2265.0	2489.0	2713.0	2775.2	2818.8	2831.2	2825.0	2837.5	2868.6
65°	1723.6	1742.3	1792.1	1904.1	2078.3	2153.0	2233.9	2321.0	2370.8	2420.6	2445.4
67.5°	1418.7	1425.0	1449.8	1487.2	1555.6	1636.5	1705.0	1835.6	1947.6	2041.0	2103.2
70°	1200.9	1194.7	1200.9	1219.6	1256.9	1288.1	1319.2	1412.5	1530.7	1686.3	1698.7
72.5°	1014.3	1008.0	1014.3	1026.7	1039.2	1051.6	1070.3	1107.6	1176.1	1269.4	1288.1
75°	833.8	833.8	833.8	846.3	858.7	864.9	877.4	889.8	914.7	983.2	1026.7
77.5°	665.8	659.6	672.0	678.3	684.5	696.9	703.1	715.6	728.0	752.9	784.0
80°	504.0	497.8	504.0	516.5	522.7	535.1	535.1	553.8	560.0	578.7	591.1
82.5°	354.7	348.5	354.7	367.1	367.1	379.6	385.8	398.2	410.7	423.1	435.6
85°	211.6	211.6	217.8	224.0	230.2	242.7	248.9	267.6	280.0	292.5	298.7
87.5°	93.3	93.3	99.6	105.8	118.2	130.7	136.9	149.3	161.8	180.5	180.5
90°	0.0	6.2	18.7	31.1	37.3	49.8	49.8	68.4	74.7	87.1	93.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	12.4	18.7	24.9
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°	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6
2.5°	6222.5	6185.2	6210.1	6216.3	6222.5	6210.1	6197.6	6210.1	6197.6	6197.6
5°	6471.4	6465.2	6527.4	6571.0	6589.6	6589.6	6627.0	6651.9	6658.1	6645.6
7.5°	6863.4	6900.8	7025.2	7112.3	7162.1	7187.0	7255.4	7292.8	7342.6	7336.3
10°	7379.9	7498.1	7684.8	7809.2	7896.4	7939.9	8039.5	8107.9	8188.8	8182.6
12.5°	7946.1	8163.9	8425.3	8624.4	8755.1	8836.0	8966.6	9091.1	9165.7	9172.0
15°	8587.1	8885.7	9240.4	9495.5	9663.6	9769.3	9949.8	10074.2	10198.7	10186.2
17.5°	9215.5	9576.4	10005.8	10341.8	10497.4	10596.9	10814.7	10945.4	11063.6	11063.6
20°	9775.6	10192.5	10628.0	10939.2	11088.5	11188.1	11374.7	11505.4	11592.5	11623.6
22.5°	10223.6	10609.4	10976.5	11244.1	11337.4	11418.3	11561.4	11667.2	11723.2	11773.0
25°	10472.5	10783.6	11032.5	11219.2	11269.0	11312.5	11393.4	11474.3	11486.7	11555.2
27.5°	10478.7	10708.9	10845.8	10914.3	10920.5	10920.5	10976.5	11007.6	11032.5	11057.4
30°	10254.7	10360.5	10385.4	10391.6	10360.5	10341.8	10379.1	10385.4	10404.0	10404.0
32.5°	9806.7	9831.6	9788.0	9719.6	9700.9	9663.6	9688.4	9676.0	9707.1	9725.8
35°	9234.2	9190.6	9078.6	9028.9	8960.4	8941.7	8960.4	8948.0	8966.6	9010.2
37.5°	8580.8	8487.5	8394.2	8307.0	8257.3	8207.5	8226.2	8244.8	8269.7	8282.2
40°	7908.8	7784.4	7684.8	7597.7	7547.9	7510.6	7541.7	7560.3	7616.3	7616.3
42.5°	7230.6	7093.7	6994.1	6938.1	6900.8	6869.6	6919.4	6931.9	7000.3	7012.8
45°	6558.5	6440.3	6359.4	6303.4	6272.3	6284.7	6334.5	6365.6	6427.8	6459.0
47.5°	5942.5	5842.9	5755.8	5730.9	5730.9	5743.4	5793.2	5824.3	5874.0	5911.4
50°	5338.9	5264.2	5208.2	5177.1	5183.3	5202.0	5245.6	5270.5	5320.2	5320.2
52.5°	4747.8	4698.0	4673.1	4635.8	4635.8	4629.5	4673.1	4698.0	4735.3	4741.5
55°	4231.3	4187.7	4162.9	4138.0	4131.7	4144.2	4169.1	4187.7	4231.3	4237.5
57.5°	3739.7	3721.1	3702.4	3683.7	3677.5	3683.7	3696.2	3708.6	3733.5	3739.7
60°	3291.7	3285.5	3260.6	3241.9	3235.7	3229.5	3223.3	3217.0	3229.5	3223.3
62.5°	2881.0	2862.4	2843.7	2806.3	2787.7	2737.9	2675.7	2538.8	2426.8	2364.6
65°	2476.6	2464.1	2377.0	2121.9	1966.3	1767.2	1555.6	1350.3	1281.8	1238.3
67.5°	2084.5	1879.2	1568.1	1344.1	1263.2	1188.5	1076.5	964.5	902.3	864.9
70°	1499.6	1325.4	1182.3	1057.8	1001.8	958.3	871.2	790.3	734.3	709.4
72.5°	1213.4	1101.4	1008.0	914.7	871.2	821.4	734.3	653.4	603.6	578.7
75°	1014.3	945.8	852.5	765.4	728.0	690.7	628.5	566.2	522.7	504.0
77.5°	802.7	765.4	709.4	640.9	609.8	584.9	528.9	485.4	441.8	423.1
80°	591.1	578.7	541.4	491.6	466.7	448.0	404.5	367.1	329.8	317.3
82.5°	435.6	423.1	392.0	354.7	342.2	323.6	292.5	261.3	236.5	224.0
85°	298.7	292.5	267.6	242.7	230.2	217.8	186.7	161.8	143.1	130.7
87.5°	186.7	180.5	168.0	143.1	130.7	118.2	93.3	74.7	56.0	49.8
90°	93.3	93.3	87.1	68.4	62.2	56.0	37.3	18.7	6.2	0.0
92.5°	24.9	24.9	24.9	18.7	18.7	12.4	6.2	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: P256922

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