

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: P256920

Luminaire Tested: **HGL-S-BA-50L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256920
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-50L840-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

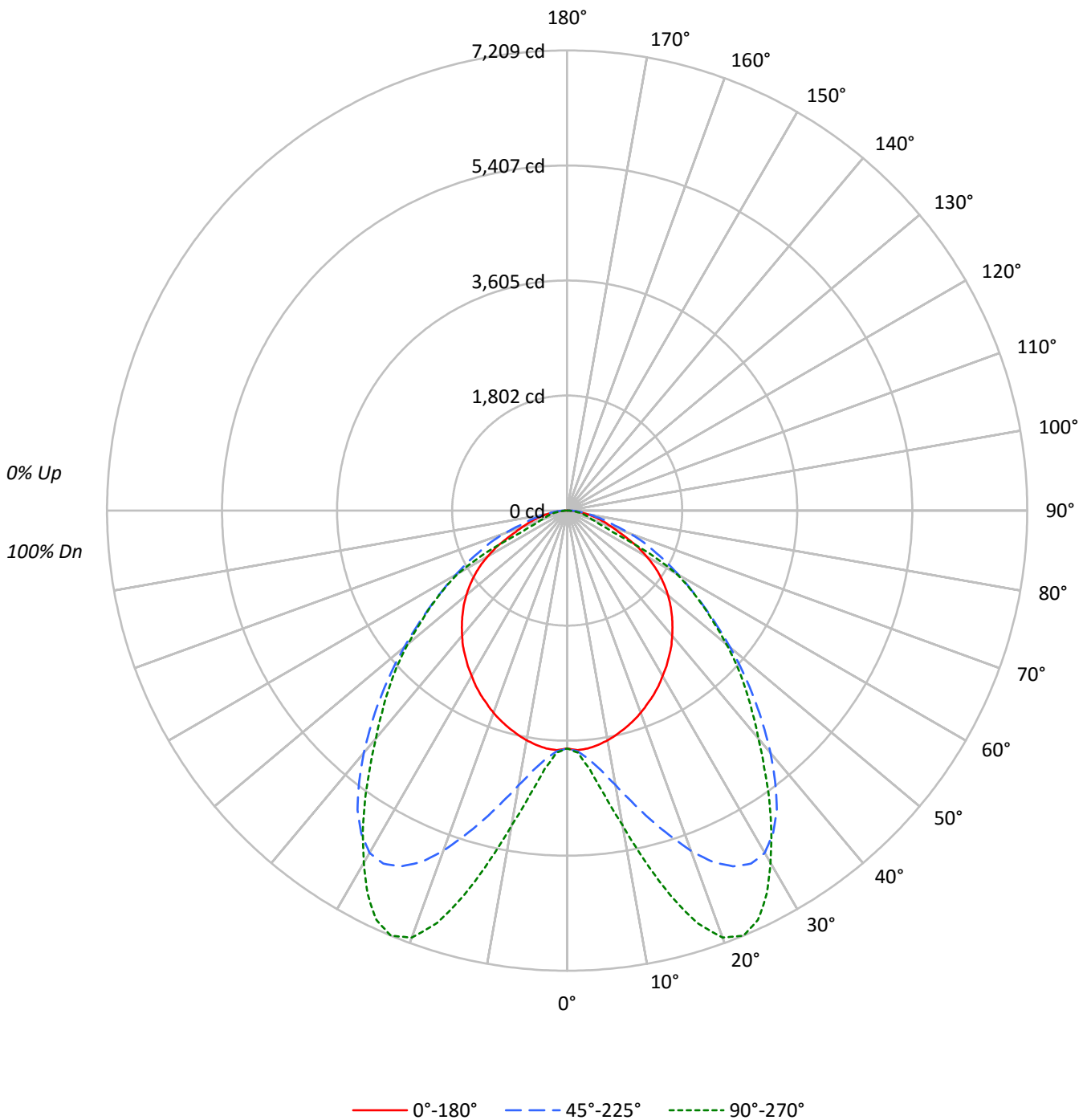
Lumens per Lamp: N/A
Luminaire Lumens: 14556.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 112
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°	14586	14586	14586
5°	14700	15303	15928
10°	14521	17259	19762
15°	14279	20088	24983
20°	14041	23349	29183
25°	13785	26175	29949
30°	13512	27485	28086
35°	13301	26775	25581
40°	13074	24677	22988
45°	12834	22166	20977
50°	12539	19568	18857
55°	12077	17070	16668
60°	11259	14992	14365
65°	9757	12992	6421
70°	8397	10958	4439
75°	7698	8509	4013
80°	6923	6925	3511
85°	5761	6042	2397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	2.7
10°-20°	1409.1	9.7
20°-30°	2550.4	17.5
30°-40°	3060.7	21.0
40°-50°	2899.5	19.9
50°-60°	2271.8	15.6
60°-70°	1267.9	8.7
70°-80°	537.3	3.7
80°-90°	167.2	1.1
90°-100°	6.0	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°	4345.6	29.9
0°-40°	7406.3	50.9
0°-60°	12577.6	86.4
0°-90°	14550.0	100.0
90°-120°	6.0	0.0
90°-150°	6.0	0.0
90°-180°	6.0	0.0
0°-180°	14556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3726	3726	3726	3726	3726	
5°	3742	3757	3906	4035	4069	354
15°	3524	3947	4999	5917	6237	994
25°	3193	4195	6150	6900	7076	1471
35°	2785	4290	5727	5487	5517	1743
45°	2320	3928	4130	3841	3955	1789
55°	1772	2854	2614	2530	2595	1578
65°	1055	1318	1497	1204	758	1055
75°	511	530	629	446	309	544
85°	130	149	183	141	80	144
90°	0	30	57	38	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3756.9	3753.1	3741.6	3726.4	3730.2	3734.0	3734.0	3737.8	3741.6	3753.1	3775.9
5°	3741.6	3734.0	3730.2	3726.4	3745.4	3756.9	3768.3	3791.2	3817.8	3859.8	3905.5
7.5°	3703.5	3703.5	3711.2	3726.4	3768.3	3795.0	3817.8	3875.0	3939.8	4019.8	4107.4
10°	3654.0	3661.6	3684.5	3718.8	3795.0	3836.9	3882.6	3977.9	4088.4	4221.7	4366.5
12.5°	3593.0	3608.3	3646.4	3711.2	3825.5	3890.2	3958.8	4103.6	4267.4	4458.0	4671.3
15°	3524.5	3543.5	3604.5	3699.7	3855.9	3947.4	4042.6	4240.8	4465.6	4720.9	4999.0
17.5°	3452.1	3478.7	3562.6	3695.9	3897.9	4012.2	4134.1	4393.2	4682.8	4991.4	5334.3
20°	3372.0	3410.1	3516.8	3688.3	3936.0	4076.9	4225.5	4549.4	4903.8	5269.5	5669.6
22.5°	3280.6	3330.1	3463.5	3673.1	3974.1	4141.7	4317.0	4694.2	5105.7	5521.0	5955.4
25°	3193.0	3246.3	3402.5	3654.0	4004.5	4195.1	4397.0	4827.5	5288.6	5726.8	6149.7
27.5°	3097.7	3158.7	3345.4	3635.0	4027.4	4240.8	4465.6	4938.0	5421.9	5856.3	6237.3
30°	2991.0	3071.0	3280.6	3604.5	4038.8	4275.1	4518.9	5025.7	5505.8	5886.8	6191.6
32.5°	2892.0	2979.6	3208.2	3570.2	4042.6	4294.1	4553.2	5052.4	5505.8	5818.2	6001.1
35°	2785.3	2880.5	3135.8	3528.3	4027.4	4290.3	4549.4	5044.7	5425.8	5639.1	5726.8
37.5°	2678.6	2781.5	3059.6	3471.1	3993.1	4263.6	4522.7	4968.5	5261.9	5376.2	5353.4
40°	2560.5	2674.8	2960.5	3398.7	3932.1	4195.1	4442.7	4835.2	5021.9	5040.9	4957.1
42.5°	2442.4	2560.5	2861.5	3303.5	3829.3	4080.7	4309.4	4621.8	4709.4	4667.5	4538.0
45°	2320.4	2442.4	2743.4	3189.2	3699.7	3928.3	4118.8	4343.7	4343.7	4267.4	4130.3
47.5°	2194.7	2312.8	2617.6	3055.8	3532.1	3730.2	3886.4	4019.8	3958.8	3863.6	3726.4
50°	2061.3	2179.4	2476.6	2895.8	3314.9	3478.7	3608.3	3657.8	3562.6	3455.9	3333.9
52.5°	1920.4	2038.5	2309.0	2693.8	3059.6	3181.5	3276.8	3273.0	3158.7	3063.4	2956.7
55°	1771.8	1878.4	2122.3	2453.8	2754.8	2853.9	2911.0	2865.3	2758.6	2671.0	2613.8
57.5°	1615.5	1703.2	1912.7	2183.3	2408.1	2484.3	2518.6	2457.6	2381.4	2328.0	2297.6
60°	1440.3	1512.7	1661.3	1870.8	2034.7	2088.0	2110.9	2068.9	2042.3	2027.0	2019.4
62.5°	1257.4	1291.7	1386.9	1524.1	1661.3	1699.4	1726.0	1733.7	1729.8	1737.5	1756.5
65°	1055.4	1066.9	1097.3	1165.9	1272.6	1318.3	1367.9	1421.2	1451.7	1482.2	1497.4
67.5°	868.7	872.5	887.8	910.6	952.6	1002.1	1044.0	1124.0	1192.6	1249.8	1287.9
70°	735.4	731.6	735.4	746.8	769.7	788.7	807.8	864.9	937.3	1032.6	1040.2
72.5°	621.1	617.3	621.1	628.7	636.3	643.9	655.4	678.2	720.1	777.3	788.7
75°	510.6	510.6	510.6	518.2	525.8	529.6	537.2	544.9	560.1	602.0	628.7
77.5°	407.7	403.9	411.5	415.3	419.1	426.7	430.6	438.2	445.8	461.0	480.1
80°	308.6	304.8	308.6	316.2	320.1	327.7	327.7	339.1	342.9	354.4	362.0
82.5°	217.2	213.4	217.2	224.8	224.8	232.4	236.2	243.9	251.5	259.1	266.7
85°	129.5	129.5	133.4	137.2	141.0	148.6	152.4	163.8	171.5	179.1	182.9
87.5°	57.2	57.2	61.0	64.8	72.4	80.0	83.8	91.4	99.1	110.5	110.5
90°	0.0	3.8	11.4	19.1	22.9	30.5	30.5	41.9	45.7	53.3	57.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	7.6	11.4	15.2
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°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3810.2	3787.4	3802.6	3806.4	3810.2	3802.6	3795.0	3802.6	3795.0	3795.0
5°	3962.6	3958.8	3996.9	4023.6	4035.0	4035.0	4057.9	4073.1	4076.9	4069.3
7.5°	4202.7	4225.5	4301.7	4355.1	4385.6	4400.8	4442.7	4465.6	4496.1	4492.3
10°	4518.9	4591.3	4705.6	4781.8	4835.2	4861.8	4922.8	4964.7	5014.3	5010.4
12.5°	4865.7	4999.0	5159.0	5281.0	5361.0	5410.5	5490.5	5566.7	5612.5	5616.3
15°	5258.1	5441.0	5658.2	5814.4	5917.3	5982.0	6092.5	6168.7	6245.0	6237.3
17.5°	5642.9	5863.9	6126.8	6332.6	6427.8	6488.8	6622.2	6702.2	6774.6	6774.6
20°	5985.9	6241.1	6507.9	6698.4	6789.8	6850.8	6965.1	7045.1	7098.4	7117.5
22.5°	6260.2	6496.4	6721.2	6885.1	6942.2	6991.8	7079.4	7144.2	7178.5	7208.9
25°	6412.6	6603.1	6755.5	6869.8	6900.3	6927.0	6976.5	7026.0	7033.7	7075.6
27.5°	6416.4	6557.4	6641.2	6683.1	6686.9	6686.9	6721.2	6740.3	6755.5	6770.8
30°	6279.2	6344.0	6359.3	6363.1	6344.0	6332.6	6355.4	6359.3	6370.7	6370.7
32.5°	6004.9	6020.1	5993.5	5951.6	5940.1	5917.3	5932.5	5924.9	5943.9	5955.4
35°	5654.4	5627.7	5559.1	5528.6	5486.7	5475.3	5486.7	5479.1	5490.5	5517.2
37.5°	5254.3	5197.1	5140.0	5086.6	5056.2	5025.7	5037.1	5048.5	5063.8	5071.4
40°	4842.8	4766.6	4705.6	4652.3	4621.8	4598.9	4618.0	4629.4	4663.7	4663.7
42.5°	4427.5	4343.7	4282.7	4248.4	4225.5	4206.5	4237.0	4244.6	4286.5	4294.1
45°	4016.0	3943.6	3894.0	3859.8	3840.7	3848.3	3878.8	3897.9	3936.0	3955.0
47.5°	3638.8	3577.8	3524.5	3509.2	3509.2	3516.8	3547.3	3566.4	3596.8	3619.7
50°	3269.2	3223.4	3189.2	3170.1	3173.9	3185.3	3212.0	3227.3	3257.7	3257.7
52.5°	2907.2	2876.7	2861.5	2838.6	2838.6	2834.8	2861.5	2876.7	2899.6	2903.4
55°	2591.0	2564.3	2549.0	2533.8	2530.0	2537.6	2552.8	2564.3	2591.0	2594.8
57.5°	2289.9	2278.5	2267.1	2255.7	2251.8	2255.7	2263.3	2270.9	2286.1	2289.9
60°	2015.6	2011.8	1996.6	1985.1	1981.3	1977.5	1973.7	1969.9	1977.5	1973.7
62.5°	1764.1	1752.7	1741.3	1718.4	1707.0	1676.5	1638.4	1554.6	1486.0	1447.9
65°	1516.5	1508.8	1455.5	1299.3	1204.0	1082.1	952.6	826.8	784.9	758.2
67.5°	1276.4	1150.7	960.2	823.0	773.5	727.8	659.2	590.6	552.5	529.6
70°	918.3	811.6	723.9	647.7	613.4	586.8	533.4	483.9	449.6	434.4
72.5°	743.0	674.4	617.3	560.1	533.4	502.9	449.6	400.1	369.6	354.4
75°	621.1	579.2	522.0	468.7	445.8	422.9	384.8	346.7	320.1	308.6
77.5°	491.5	468.7	434.4	392.5	373.4	358.2	323.9	297.2	270.5	259.1
80°	362.0	354.4	331.5	301.0	285.8	274.3	247.7	224.8	201.9	194.3
82.5°	266.7	259.1	240.0	217.2	209.6	198.1	179.1	160.0	144.8	137.2
85°	182.9	179.1	163.8	148.6	141.0	133.4	114.3	99.1	87.6	80.0
87.5°	114.3	110.5	102.9	87.6	80.0	72.4	57.2	45.7	34.3	30.5
90°	57.2	57.2	53.3	41.9	38.1	34.3	22.9	11.4	3.8	0.0
92.5°	15.2	15.2	15.2	11.4	11.4	7.6	3.8	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: P256920

CATALOG NUMBER: HGL-S-BA-50L840-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)