

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: P256915

Luminaire Tested: **HGL-S-BA-50L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256915
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-50L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

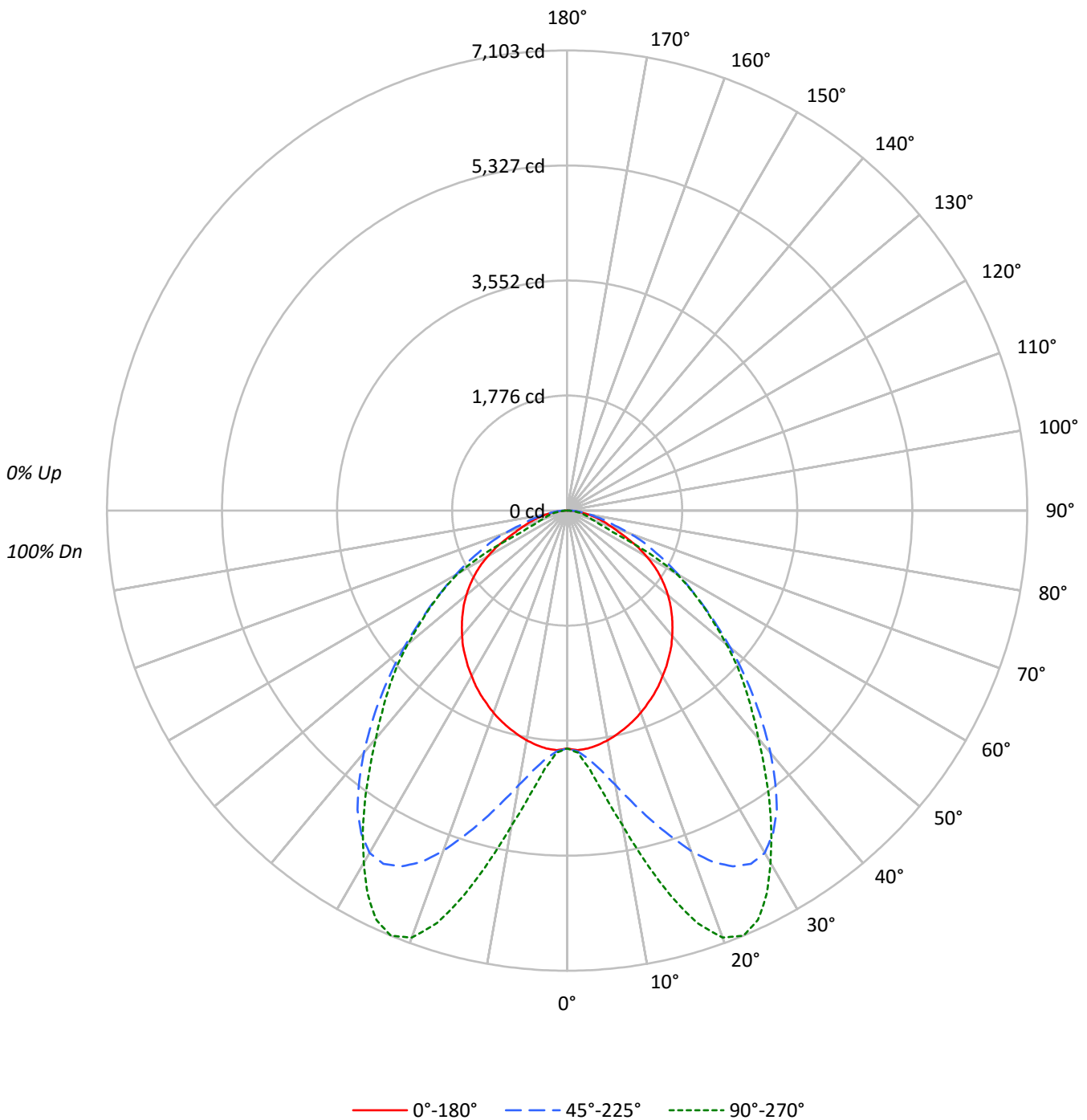
Lumens per Lamp: N/A
Luminaire Lumens: 14342.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 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°	14372	14372	14372
5°	14484	15078	15694
10°	14308	17006	19472
15°	14069	19793	24616
20°	13836	23006	28755
25°	13582	25791	29509
30°	13314	27082	27674
35°	13106	26382	25206
40°	12882	24316	22651
45°	12646	21841	20670
50°	12356	19281	18580
55°	11899	16820	16424
60°	11093	14772	14154
65°	9614	12801	6327
70°	8274	10796	4374
75°	7585	8385	3955
80°	6822	6823	3460
85°	5676	5953	2361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	2.7
10°-20°	1388.4	9.7
20°-30°	2512.9	17.5
30°-40°	3015.8	21.0
40°-50°	2856.9	19.9
50°-60°	2238.5	15.6
60°-70°	1249.3	8.7
70°-80°	529.4	3.7
80°-90°	164.7	1.1
90°-100°	5.9	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°	4281.9	29.9
0°-40°	7297.7	50.9
0°-60°	12393.0	86.4
0°-90°	14336.5	100.0
90°-120°	5.9	0.0
90°-150°	5.9	0.0
90°-180°	6.0	0.0
0°-180°	14342.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3672	3672	3672	3672	3672	
5°	3687	3702	3848	3976	4010	349
15°	3473	3890	4926	5830	6146	979
25°	3146	4134	6060	6799	6972	1449
35°	2744	4227	5643	5406	5436	1717
45°	2286	3871	4070	3784	3897	1763
55°	1746	2812	2576	2493	2557	1555
65°	1040	1299	1475	1186	747	1039
75°	503	522	620	439	304	536
85°	128	146	180	139	79	142
90°	0	30	56	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°	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7
2.5°	3701.8	3698.0	3686.7	3671.7	3675.5	3679.2	3679.2	3683.0	3686.7	3698.0	3720.5
5°	3686.7	3679.2	3675.5	3671.7	3690.5	3701.8	3713.0	3735.5	3761.8	3803.1	3848.2
7.5°	3649.2	3649.2	3656.7	3671.7	3713.0	3739.3	3761.8	3818.1	3882.0	3960.8	4047.1
10°	3600.4	3607.9	3630.4	3664.2	3739.3	3780.6	3825.6	3919.5	4028.4	4159.8	4302.4
12.5°	3540.3	3555.3	3592.9	3656.7	3769.3	3833.2	3900.7	4043.4	4204.8	4392.5	4602.8
15°	3472.7	3491.5	3551.6	3645.4	3799.4	3889.5	3983.3	4178.5	4400.1	4651.6	4925.7
17.5°	3401.4	3427.7	3510.3	3641.7	3840.7	3953.3	4073.4	4328.7	4614.0	4918.1	5256.0
20°	3322.6	3360.1	3465.2	3634.2	3878.2	4017.1	4163.5	4482.6	4831.8	5192.2	5586.4
22.5°	3232.5	3281.3	3412.7	3619.2	3915.7	4080.9	4253.6	4625.3	5030.8	5440.0	5868.0
25°	3146.1	3198.7	3352.6	3600.4	3945.8	4133.5	4332.5	4756.7	5211.0	5642.7	6059.5
27.5°	3052.3	3112.3	3296.3	3581.6	3968.3	4178.5	4400.1	4865.6	5342.4	5770.4	6145.8
30°	2947.1	3026.0	3232.5	3551.6	3979.6	4212.3	4452.6	4951.9	5425.0	5800.4	6100.8
32.5°	2849.5	2935.9	3161.1	3517.8	3983.3	4231.1	4486.4	4978.2	5425.0	5732.8	5913.0
35°	2744.4	2838.3	3089.8	3476.5	3968.3	4227.4	4482.6	4970.7	5346.1	5556.4	5642.7
37.5°	2639.3	2740.6	3014.7	3420.2	3934.5	4201.1	4456.4	4895.6	5184.7	5297.3	5274.8
40°	2522.9	2635.5	2917.1	3348.8	3874.4	4133.5	4377.5	4764.2	4948.2	4967.0	4884.4
42.5°	2406.5	2522.9	2819.5	3255.0	3773.1	4020.9	4246.1	4554.0	4640.3	4599.0	4471.4
45°	2286.4	2406.5	2703.1	3142.4	3645.4	3870.7	4058.4	4279.9	4279.9	4204.8	4069.7
47.5°	2162.5	2278.9	2579.2	3011.0	3480.2	3675.5	3829.4	3960.8	3900.7	3806.9	3671.7
50°	2031.1	2147.5	2440.3	2853.3	3266.3	3427.7	3555.3	3604.1	3510.3	3405.2	3285.0
52.5°	1892.2	2008.6	2275.1	2654.3	3014.7	3134.8	3228.7	3225.0	3112.3	3018.5	2913.3
55°	1745.8	1850.9	2091.2	2417.8	2714.4	2812.0	2868.3	2823.2	2718.1	2631.8	2575.5
57.5°	1591.8	1678.2	1884.7	2151.2	2372.7	2447.8	2481.6	2421.5	2346.4	2293.9	2263.8
60°	1419.1	1490.5	1636.9	1843.4	2004.8	2057.4	2079.9	2038.6	2012.3	1997.3	1989.8
62.5°	1238.9	1272.7	1366.6	1501.7	1636.9	1674.4	1700.7	1708.2	1704.5	1712.0	1730.7
65°	1039.9	1051.2	1081.2	1148.8	1253.9	1299.0	1347.8	1400.4	1430.4	1460.4	1475.4
67.5°	856.0	859.7	874.8	897.3	938.6	987.4	1028.7	1107.5	1175.1	1231.4	1269.0
70°	724.6	720.8	724.6	735.8	758.4	777.1	795.9	852.2	923.6	1017.4	1024.9
72.5°	612.0	608.2	612.0	619.5	627.0	634.5	645.7	668.3	709.6	765.9	777.1
75°	503.1	503.1	503.1	510.6	518.1	521.8	529.4	536.9	551.9	593.2	619.5
77.5°	401.7	398.0	405.5	409.2	413.0	420.5	424.2	431.7	439.3	454.3	473.0
80°	304.1	300.3	304.1	311.6	315.4	322.9	322.9	334.1	337.9	349.2	356.7
82.5°	214.0	210.2	214.0	221.5	221.5	229.0	232.8	240.3	247.8	255.3	262.8
85°	127.6	127.6	131.4	135.2	138.9	146.4	150.2	161.4	168.9	176.5	180.2
87.5°	56.3	56.3	60.1	63.8	71.3	78.8	82.6	90.1	97.6	108.9	108.9
90°	0.0	3.8	11.3	18.8	22.5	30.0	30.0	41.3	45.1	52.6	56.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	7.5	11.3	15.0
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°	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7	3671.7
2.5°	3754.3	3731.8	3746.8	3750.6	3754.3	3746.8	3739.3	3746.8	3739.3	3739.3
5°	3904.5	3900.7	3938.3	3964.6	3975.8	3975.8	3998.3	4013.4	4017.1	4009.6
7.5°	4141.0	4163.5	4238.6	4291.2	4321.2	4336.2	4377.5	4400.1	4430.1	4426.3
10°	4452.6	4523.9	4636.6	4711.7	4764.2	4790.5	4850.6	4891.9	4940.7	4936.9
12.5°	4794.3	4925.7	5083.3	5203.5	5282.3	5331.1	5410.0	5485.0	5530.1	5533.9
15°	5180.9	5361.2	5575.2	5729.1	5830.4	5894.3	6003.1	6078.2	6153.3	6145.8
17.5°	5560.1	5777.9	6036.9	6239.7	6333.5	6393.6	6525.0	6603.8	6675.2	6675.2
20°	5898.0	6149.6	6412.4	6600.1	6690.2	6750.3	6862.9	6941.7	6994.3	7013.1
22.5°	6168.3	6401.1	6622.6	6784.0	6840.4	6889.2	6975.5	7039.3	7073.1	7103.2
25°	6318.5	6506.2	6656.4	6769.0	6799.1	6825.3	6874.1	6922.9	6930.5	6971.8
27.5°	6322.3	6461.2	6543.8	6585.1	6588.8	6588.8	6622.6	6641.4	6656.4	6671.4
30°	6187.1	6250.9	6265.9	6269.7	6250.9	6239.7	6262.2	6265.9	6277.2	6277.2
32.5°	5916.8	5931.8	5905.5	5864.2	5853.0	5830.4	5845.5	5838.0	5856.7	5868.0
35°	5571.4	5545.1	5477.5	5447.5	5406.2	5394.9	5406.2	5398.7	5410.0	5436.2
37.5°	5177.2	5120.9	5064.6	5012.0	4982.0	4951.9	4963.2	4974.5	4989.5	4997.0
40°	4771.7	4696.6	4636.6	4584.0	4554.0	4531.5	4550.2	4561.5	4595.3	4595.3
42.5°	4362.5	4279.9	4219.8	4186.1	4163.5	4144.8	4174.8	4182.3	4223.6	4231.1
45°	3957.0	3885.7	3836.9	3803.1	3784.3	3791.9	3821.9	3840.7	3878.2	3897.0
47.5°	3585.4	3525.3	3472.7	3457.7	3457.7	3465.2	3495.3	3514.0	3544.1	3566.6
50°	3221.2	3176.1	3142.4	3123.6	3127.3	3138.6	3164.9	3179.9	3209.9	3209.9
52.5°	2864.5	2834.5	2819.5	2797.0	2797.0	2793.2	2819.5	2834.5	2857.0	2860.8
55°	2552.9	2526.7	2511.6	2496.6	2492.9	2500.4	2515.4	2526.7	2552.9	2556.7
57.5°	2256.3	2245.1	2233.8	2222.6	2218.8	2222.6	2230.1	2237.6	2252.6	2256.3
60°	1986.0	1982.3	1967.3	1956.0	1952.2	1948.5	1944.7	1941.0	1948.5	1944.7
62.5°	1738.2	1727.0	1715.7	1693.2	1681.9	1651.9	1614.4	1531.8	1464.2	1426.6
65°	1494.2	1486.7	1434.1	1280.2	1186.4	1066.2	938.6	814.7	773.4	747.1
67.5°	1257.7	1133.8	946.1	810.9	762.1	717.1	649.5	581.9	544.4	521.8
70°	904.8	799.7	713.3	638.2	604.4	578.2	525.6	476.8	443.0	428.0
72.5°	732.1	664.5	608.2	551.9	525.6	495.6	443.0	394.2	364.2	349.2
75°	612.0	570.7	514.3	461.8	439.3	416.7	379.2	341.6	315.4	304.1
77.5°	484.3	461.8	428.0	386.7	367.9	352.9	319.1	292.8	266.6	255.3
80°	356.7	349.2	326.6	296.6	281.6	270.3	244.0	221.5	199.0	191.5
82.5°	262.8	255.3	236.5	214.0	206.5	195.2	176.5	157.7	142.7	135.2
85°	180.2	176.5	161.4	146.4	138.9	131.4	112.6	97.6	86.3	78.8
87.5°	112.6	108.9	101.4	86.3	78.8	71.3	56.3	45.1	33.8	30.0
90°	56.3	56.3	52.6	41.3	37.5	33.8	22.5	11.3	3.8	0.0
92.5°	15.0	15.0	15.0	11.3	11.3	7.5	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: P256915

CATALOG NUMBER: HGL-S-BA-50L835-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)