

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: P256890

Luminaire Tested: **HGL-S-BA-50L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256890
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-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: 9561.6 lumens
Efficiency: N/A
Efficacy: 128.2 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

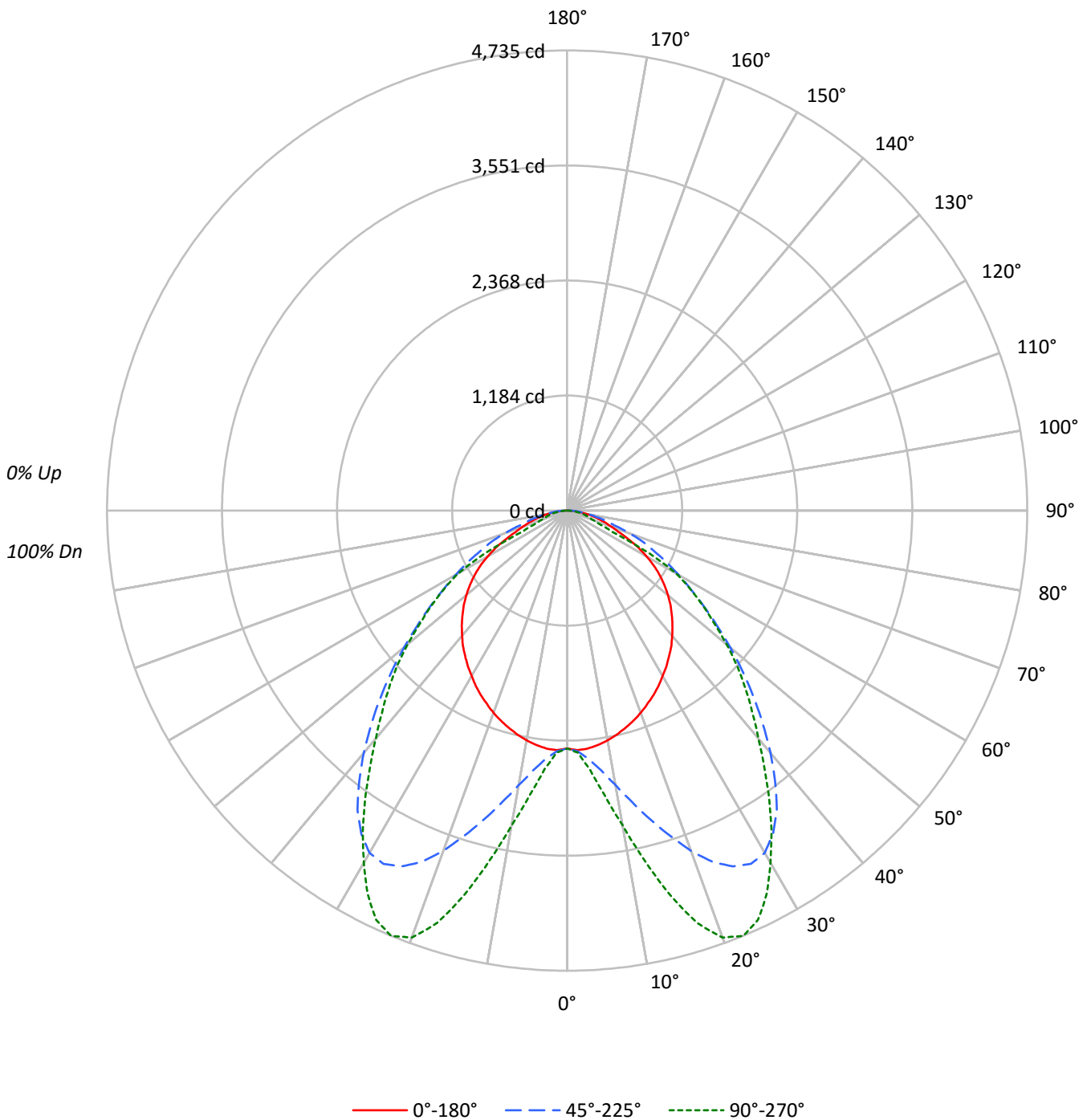
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14372	14372	14372
5°	14484	15078	15694
10°	14307	17005	19472
15°	14068	19792	24616
20°	13833	23004	28755
25°	13579	25788	29509
30°	13311	27077	27674
35°	13102	26376	25206
40°	12877	24309	22650
45°	12641	21834	20670
50°	12350	19274	18580
55°	11892	16813	16424
60°	11086	14765	14154
65°	9606	12794	6328
70°	8265	10789	4373
75°	7573	8377	3954
80°	6805	6814	3458
85°	5652	5937	2364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	2.7
10°-20°	925.6	9.7
20°-30°	1675.3	17.5
30°-40°	2010.5	21.0
40°-50°	1904.6	19.9
50°-60°	1492.3	15.6
60°-70°	832.9	8.7
70°-80°	353.0	3.7
80°-90°	109.8	1.1
90°-100°	3.9	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°	2854.6	29.9
0°-40°	4865.1	50.9
0°-60°	8262.0	86.4
0°-90°	9557.7	100.0
90°-120°	3.9	0.0
90°-150°	3.9	0.0
90°-180°	4.0	0.0
0°-180°	9561.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2458	2468	2565	2650	2673	233
15°	2315	2593	3284	3887	4097	653
25°	2097	2756	4040	4533	4648	966
35°	1830	2818	3762	3604	3624	1145
45°	1524	2580	2713	2523	2598	1175
55°	1164	1875	1717	1662	1704	1036
65°	693	866	984	791	498	693
75°	335	348	413	293	203	357
85°	85	98	120	93	53	95
90°	0	20	38	25	0	5
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: P256890

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2.5°	2467.8	2465.3	2457.8	2447.8	2450.3	2452.8	2452.8	2455.3	2457.8	2465.3	2480.3
5°	2457.8	2452.8	2450.3	2447.8	2460.3	2467.8	2475.3	2490.4	2507.9	2535.4	2565.4
7.5°	2432.8	2432.8	2437.8	2447.8	2475.3	2492.9	2507.9	2545.4	2588.0	2640.5	2698.1
10°	2400.3	2405.3	2420.3	2442.8	2492.9	2520.4	2550.4	2613.0	2685.6	2773.2	2868.3
12.5°	2360.2	2370.2	2395.3	2437.8	2512.9	2555.4	2600.5	2695.6	2803.2	2928.4	3068.5
15°	2315.2	2327.7	2367.7	2430.3	2532.9	2593.0	2655.5	2785.7	2933.4	3101.1	3283.8
17.5°	2267.6	2285.1	2340.2	2427.8	2560.4	2635.5	2715.6	2885.8	3076.0	3278.8	3504.0
20°	2215.0	2240.1	2310.2	2422.8	2585.5	2678.1	2775.7	2988.4	3221.2	3461.5	3724.3
22.5°	2155.0	2187.5	2275.1	2412.8	2610.5	2720.6	2835.8	3083.5	3353.9	3626.7	3912.0
25°	2097.4	2132.4	2235.1	2400.3	2630.5	2755.7	2888.3	3171.1	3474.0	3761.8	4039.6
27.5°	2034.8	2074.9	2197.5	2387.7	2645.5	2785.7	2933.4	3243.7	3561.6	3846.9	4097.2
30°	1964.8	2017.3	2155.0	2367.7	2653.0	2808.2	2968.4	3301.3	3616.7	3866.9	4067.2
32.5°	1899.7	1957.2	2107.4	2345.2	2655.5	2820.7	2990.9	3318.8	3616.7	3821.9	3942.0
35°	1829.6	1892.2	2059.9	2317.7	2645.5	2818.2	2988.4	3313.8	3564.1	3704.3	3761.8
37.5°	1759.5	1827.1	2009.8	2280.1	2623.0	2800.7	2970.9	3263.7	3456.5	3531.6	3516.5
40°	1681.9	1757.0	1944.7	2232.6	2583.0	2755.7	2918.4	3176.1	3298.8	3311.3	3256.2
42.5°	1604.3	1681.9	1879.7	2170.0	2515.4	2680.6	2830.8	3036.0	3093.6	3066.0	2980.9
45°	1524.3	1604.3	1802.1	2094.9	2430.3	2580.5	2705.6	2853.3	2853.3	2803.2	2713.1
47.5°	1441.7	1519.2	1719.5	2007.3	2320.2	2450.3	2552.9	2640.5	2600.5	2537.9	2447.8
50°	1354.1	1431.6	1626.9	1902.2	2177.5	2285.1	2370.2	2402.8	2340.2	2270.1	2190.0
52.5°	1261.4	1339.0	1516.7	1769.5	2009.8	2089.9	2152.5	2150.0	2074.9	2012.3	1942.2
55°	1163.8	1233.9	1394.1	1611.9	1809.6	1874.7	1912.2	1882.2	1812.1	1754.5	1717.0
57.5°	1061.2	1118.8	1256.4	1434.1	1581.8	1631.9	1654.4	1614.4	1564.3	1529.3	1509.2
60°	946.1	993.6	1091.3	1228.9	1336.5	1371.6	1386.6	1359.1	1341.5	1331.5	1326.5
62.5°	825.9	848.5	911.0	1001.1	1091.3	1116.3	1133.8	1138.8	1136.3	1141.3	1153.8
65°	693.3	700.8	720.8	765.9	836.0	866.0	898.5	933.6	953.6	973.6	983.6
67.5°	570.7	573.2	583.2	598.2	625.7	658.3	685.8	738.3	783.4	820.9	846.0
70°	483.1	480.6	483.1	490.6	505.6	518.1	530.6	568.2	615.7	678.3	683.3
72.5°	408.0	405.5	408.0	413.0	418.0	423.0	430.5	445.5	473.0	510.6	518.1
75°	335.4	335.4	335.4	340.4	345.4	347.9	352.9	357.9	367.9	395.5	413.0
77.5°	267.8	265.3	270.3	272.8	275.3	280.3	282.8	287.8	292.8	302.8	315.4
80°	202.7	200.2	202.7	207.7	210.2	215.2	215.2	222.8	225.3	232.8	237.8
82.5°	142.7	140.2	142.7	147.7	147.7	152.7	155.2	160.2	165.2	170.2	175.2
85°	85.1	85.1	87.6	90.1	92.6	97.6	100.1	107.6	112.6	117.6	120.1
87.5°	37.5	37.5	40.0	42.5	47.6	52.6	55.1	60.1	65.1	72.6	72.6
90°	0.0	2.5	7.5	12.5	15.0	20.0	20.0	27.5	30.0	35.0	37.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	5.0	7.5	10.0
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°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2.5°	2502.9	2487.9	2497.9	2500.4	2502.9	2497.9	2492.9	2497.9	2492.9	2492.9
5°	2603.0	2600.5	2625.5	2643.0	2650.5	2650.5	2665.6	2675.6	2678.1	2673.1
7.5°	2760.7	2775.7	2825.7	2860.8	2880.8	2890.8	2918.4	2933.4	2953.4	2950.9
10°	2968.4	3016.0	3091.0	3141.1	3176.1	3193.7	3233.7	3261.2	3293.8	3291.3
12.5°	3196.2	3283.8	3388.9	3469.0	3521.5	3554.1	3606.6	3656.7	3686.7	3689.2
15°	3454.0	3574.1	3716.8	3819.4	3887.0	3929.5	4002.1	4052.2	4102.2	4097.2
17.5°	3706.8	3851.9	4024.6	4159.8	4222.3	4262.4	4350.0	4402.6	4450.1	4450.1
20°	3932.0	4099.7	4274.9	4400.1	4460.1	4500.2	4575.3	4627.8	4662.9	4675.4
22.5°	4112.2	4267.4	4415.1	4522.7	4560.2	4592.8	4650.3	4692.9	4715.4	4735.4
25°	4212.3	4337.5	4437.6	4512.7	4532.7	4550.2	4582.8	4615.3	4620.3	4647.8
27.5°	4214.8	4307.4	4362.5	4390.0	4392.5	4392.5	4415.1	4427.6	4437.6	4447.6
30°	4124.7	4167.3	4177.3	4179.8	4167.3	4159.8	4174.8	4177.3	4184.8	4184.8
32.5°	3944.5	3954.5	3937.0	3909.5	3902.0	3887.0	3897.0	3892.0	3904.5	3912.0
35°	3714.3	3696.7	3651.7	3631.7	3604.1	3596.6	3604.1	3599.1	3606.6	3624.2
37.5°	3451.5	3413.9	3376.4	3341.3	3321.3	3301.3	3308.8	3316.3	3326.3	3331.3
40°	3181.2	3131.1	3091.0	3056.0	3036.0	3021.0	3033.5	3041.0	3063.5	3063.5
42.5°	2908.3	2853.3	2813.2	2790.7	2775.7	2763.2	2783.2	2788.2	2815.7	2820.7
45°	2638.0	2590.5	2557.9	2535.4	2522.9	2527.9	2547.9	2560.4	2585.5	2598.0
47.5°	2390.2	2350.2	2315.2	2305.1	2305.1	2310.2	2330.2	2342.7	2362.7	2377.7
50°	2147.5	2117.4	2094.9	2082.4	2084.9	2092.4	2109.9	2119.9	2140.0	2140.0
52.5°	1909.7	1889.7	1879.7	1864.6	1864.6	1862.1	1879.7	1889.7	1904.7	1907.2
55°	1702.0	1684.4	1674.4	1664.4	1661.9	1666.9	1676.9	1684.4	1702.0	1704.5
57.5°	1504.2	1496.7	1489.2	1481.7	1479.2	1481.7	1486.7	1491.7	1501.7	1504.2
60°	1324.0	1321.5	1311.5	1304.0	1301.5	1299.0	1296.5	1294.0	1299.0	1296.5
62.5°	1158.8	1151.3	1143.8	1128.8	1121.3	1101.3	1076.2	1021.2	976.1	951.1
65°	996.1	991.1	956.1	853.5	790.9	710.8	625.7	543.1	515.6	498.1
67.5°	838.5	755.9	630.7	540.6	508.1	478.0	433.0	387.9	362.9	347.9
70°	603.2	533.1	475.5	425.5	403.0	385.4	350.4	317.9	295.3	285.3
72.5°	488.1	443.0	405.5	367.9	350.4	330.4	295.3	262.8	242.8	232.8
75°	408.0	380.4	342.9	307.9	292.8	277.8	252.8	227.8	210.2	202.7
77.5°	322.9	307.9	285.3	257.8	245.3	235.3	212.7	195.2	177.7	170.2
80°	237.8	232.8	217.8	197.7	187.7	180.2	162.7	147.7	132.7	127.6
82.5°	175.2	170.2	157.7	142.7	137.7	130.1	117.6	105.1	95.1	90.1
85°	120.1	117.6	107.6	97.6	92.6	87.6	75.1	65.1	57.6	52.6
87.5°	75.1	72.6	67.6	57.6	52.6	47.6	37.5	30.0	22.5	20.0
90°	37.5	37.5	35.0	27.5	25.0	22.5	15.0	7.5	2.5	0.0
92.5°	10.0	10.0	10.0	7.5	7.5	5.0	2.5	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: P256890

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