

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: P256895

Luminaire Tested: **HGL-S-BA-50L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256895
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-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: 9704.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

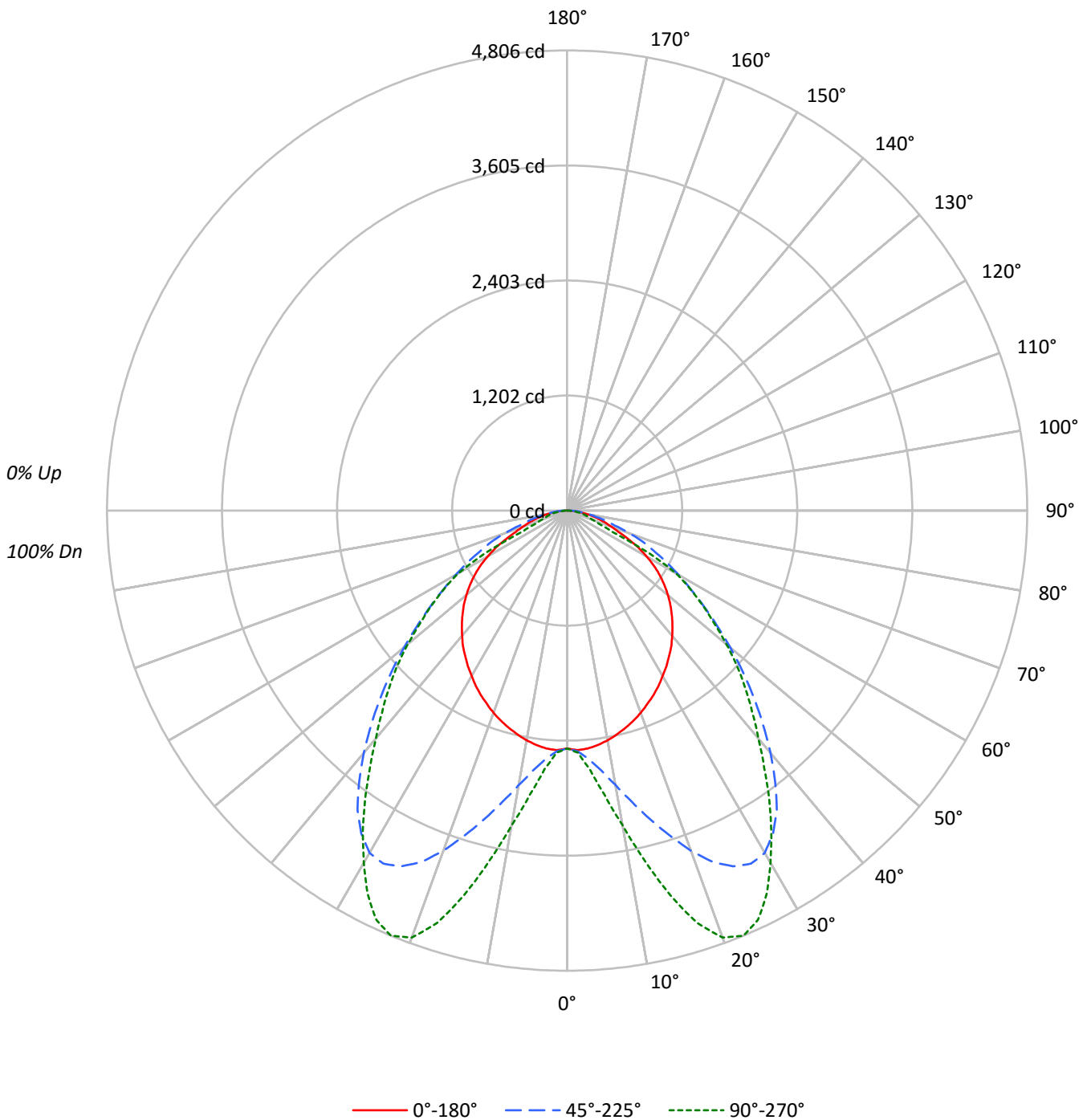
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14520	17258	19762
15°	14277	20086	24983
20°	14039	23346	29183
25°	13781	26172	29949
30°	13509	27480	28086
35°	13297	26769	25581
40°	13069	24671	22987
45°	12828	22159	20978
50°	12533	19561	18857
55°	12069	17063	16668
60°	11251	14985	14365
65°	9749	12985	6422
70°	8386	10950	4439
75°	7686	8500	4015
80°	6909	6914	3510
85°	5738	6026	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	2.7
10°-20°	939.4	9.7
20°-30°	1700.2	17.5
30°-40°	2040.5	21.0
40°-50°	1933.0	19.9
50°-60°	1514.5	15.6
60°-70°	845.3	8.7
70°-80°	358.2	3.7
80°-90°	111.4	1.1
90°-100°	4.0	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°	2897.1	29.9
0°-40°	4937.6	50.9
0°-60°	8385.1	86.4
0°-90°	9700.0	100.0
90°-120°	4.0	0.0
90°-150°	4.0	0.0
90°-180°	4.0	0.0
0°-180°	9704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2494	2505	2604	2690	2713	236
15°	2350	2632	3333	3945	4158	663
25°	2129	2797	4100	4600	4717	980
35°	1857	2860	3818	3658	3678	1162
45°	1547	2619	2754	2560	2637	1193
55°	1181	1903	1742	1687	1730	1052
65°	704	879	998	803	506	703
75°	340	353	419	297	206	362
85°	86	99	122	94	53	96
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3
2.5°	2504.6	2502.0	2494.4	2484.3	2486.8	2489.3	2489.3	2491.9	2494.4	2502.0	2517.3
5°	2494.4	2489.3	2486.8	2484.3	2497.0	2504.6	2512.2	2527.4	2545.2	2573.2	2603.7
7.5°	2469.0	2469.0	2474.1	2484.3	2512.2	2530.0	2545.2	2583.3	2626.5	2679.9	2738.3
10°	2436.0	2441.1	2456.3	2479.2	2530.0	2557.9	2588.4	2651.9	2725.6	2814.5	2911.0
12.5°	2395.4	2405.5	2430.9	2474.1	2550.3	2593.5	2639.2	2735.7	2845.0	2972.0	3114.2
15°	2349.6	2362.3	2403.0	2466.5	2570.6	2631.6	2695.1	2827.2	2977.1	3147.2	3332.7
17.5°	2301.4	2319.2	2375.0	2463.9	2598.6	2674.8	2756.1	2928.8	3121.8	3327.6	3556.2
20°	2248.0	2273.4	2344.6	2458.9	2624.0	2718.0	2817.0	3032.9	3269.2	3513.0	3779.7
22.5°	2187.1	2220.1	2309.0	2448.7	2649.4	2761.1	2878.0	3129.5	3403.8	3680.7	3970.2
25°	2128.6	2164.2	2268.4	2436.0	2669.7	2796.7	2931.3	3218.4	3525.7	3817.8	4099.8
27.5°	2065.1	2105.8	2230.2	2423.3	2684.9	2827.2	2977.1	3292.0	3614.6	3904.2	4158.2
30°	1994.0	2047.4	2187.1	2403.0	2692.6	2850.0	3012.6	3350.5	3670.5	3924.5	4127.7
32.5°	1928.0	1986.4	2138.8	2380.1	2695.1	2862.7	3035.5	3368.2	3670.5	3878.8	4000.7
35°	1856.8	1920.4	2090.5	2352.2	2684.9	2860.2	3032.9	3363.2	3617.2	3759.4	3817.8
37.5°	1785.7	1854.3	2039.7	2314.1	2662.1	2842.4	3015.2	3312.4	3507.9	3584.1	3568.9
40°	1707.0	1783.2	1973.7	2265.8	2621.4	2796.7	2961.8	3223.4	3347.9	3360.6	3304.7
42.5°	1628.2	1707.0	1907.7	2202.3	2552.8	2720.5	2872.9	3081.2	3139.6	3111.7	3025.3
45°	1546.9	1628.2	1828.9	2126.1	2466.5	2618.9	2745.9	2895.8	2895.8	2845.0	2753.5
47.5°	1463.1	1541.9	1745.1	2037.2	2354.7	2486.8	2591.0	2679.9	2639.2	2575.7	2484.3
50°	1374.2	1453.0	1651.1	1930.5	2209.9	2319.2	2405.5	2438.5	2375.0	2303.9	2222.6
52.5°	1280.2	1359.0	1539.3	1795.9	2039.7	2121.0	2184.5	2182.0	2105.8	2042.3	1971.2
55°	1181.2	1252.3	1414.9	1635.9	1836.5	1902.6	1940.7	1910.2	1839.1	1780.6	1742.5
57.5°	1077.0	1135.4	1275.2	1455.5	1605.4	1656.2	1679.0	1638.4	1587.6	1552.0	1531.7
60°	960.2	1008.4	1107.5	1247.2	1356.4	1392.0	1407.2	1379.3	1361.5	1351.4	1346.3
62.5°	838.2	861.1	924.6	1016.1	1107.5	1132.9	1150.7	1155.8	1153.2	1158.3	1171.0
65°	703.6	711.2	731.6	777.3	848.4	878.9	911.9	947.5	967.8	988.1	998.3
67.5°	579.2	581.7	591.9	607.1	635.0	668.1	696.0	749.3	795.1	833.2	858.6
70°	490.2	487.7	490.2	497.9	513.1	525.8	538.5	576.6	624.9	688.4	693.5
72.5°	414.0	411.5	414.0	419.1	424.2	429.3	436.9	452.1	480.1	518.2	525.8
75°	340.4	340.4	340.4	345.5	350.5	353.1	358.2	363.2	373.4	401.3	419.1
77.5°	271.8	269.3	274.3	276.9	279.4	284.5	287.0	292.1	297.2	307.4	320.1
80°	205.8	203.2	205.8	210.8	213.4	218.5	218.5	226.1	228.6	236.2	241.3
82.5°	144.8	142.2	144.8	149.9	149.9	154.9	157.5	162.6	167.6	172.7	177.8
85°	86.4	86.4	88.9	91.4	94.0	99.1	101.6	109.2	114.3	119.4	121.9
87.5°	38.1	38.1	40.6	43.2	48.3	53.3	55.9	61.0	66.0	73.7	73.7
90°	0.0	2.5	7.6	12.7	15.2	20.3	20.3	27.9	30.5	35.6	38.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	5.1	7.6	10.2
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°	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3
2.5°	2540.1	2524.9	2535.1	2537.6	2540.1	2535.1	2530.0	2535.1	2530.0	2530.0
5°	2641.8	2639.2	2664.6	2682.4	2690.0	2690.0	2705.3	2715.4	2718.0	2712.9
7.5°	2801.8	2817.0	2867.8	2903.4	2923.7	2933.9	2961.8	2977.1	2997.4	2994.8
10°	3012.6	3060.9	3137.1	3187.9	3223.4	3241.2	3281.9	3309.8	3342.8	3340.3
12.5°	3243.8	3332.7	3439.4	3520.6	3574.0	3607.0	3660.4	3711.2	3741.6	3744.2
15°	3505.4	3627.3	3772.1	3876.3	3944.8	3988.0	4061.7	4112.5	4163.3	4158.2
17.5°	3762.0	3909.3	4084.6	4221.7	4285.2	4325.9	4414.8	4468.1	4516.4	4516.4
20°	3990.6	4160.8	4338.6	4465.6	4526.5	4567.2	4643.4	4696.7	4732.3	4745.0
22.5°	4173.5	4331.0	4480.8	4590.0	4628.1	4661.2	4719.6	4762.8	4785.6	4806.0
25°	4275.1	4402.1	4503.7	4579.9	4600.2	4618.0	4651.0	4684.0	4689.1	4717.1
27.5°	4277.6	4371.6	4427.5	4455.4	4458.0	4458.0	4480.8	4493.5	4503.7	4513.8
30°	4186.2	4229.3	4239.5	4242.0	4229.3	4221.7	4237.0	4239.5	4247.1	4247.1
32.5°	4003.3	4013.4	3995.7	3967.7	3960.1	3944.8	3955.0	3949.9	3962.6	3970.2
35°	3769.6	3751.8	3706.1	3685.8	3657.8	3650.2	3657.8	3652.7	3660.4	3678.1
37.5°	3502.9	3464.8	3426.7	3391.1	3370.8	3350.5	3358.1	3365.7	3375.9	3380.9
40°	3228.5	3177.7	3137.1	3101.5	3081.2	3066.0	3078.7	3086.3	3109.1	3109.1
42.5°	2951.7	2895.8	2855.1	2832.3	2817.0	2804.3	2824.6	2829.7	2857.7	2862.7
45°	2677.3	2629.1	2596.0	2573.2	2560.5	2565.5	2585.9	2598.6	2624.0	2636.7
47.5°	2425.8	2385.2	2349.6	2339.5	2339.5	2344.6	2364.9	2377.6	2397.9	2413.1
50°	2179.4	2149.0	2126.1	2113.4	2115.9	2123.6	2141.3	2151.5	2171.8	2171.8
52.5°	1938.1	1917.8	1907.7	1892.4	1892.4	1889.9	1907.7	1917.8	1933.1	1935.6
55°	1727.3	1709.5	1699.4	1689.2	1686.7	1691.7	1701.9	1709.5	1727.3	1729.8
57.5°	1526.6	1519.0	1511.4	1503.8	1501.2	1503.8	1508.8	1513.9	1524.1	1526.6
60°	1343.7	1341.2	1331.0	1323.4	1320.9	1318.3	1315.8	1313.3	1318.3	1315.8
62.5°	1176.1	1168.5	1160.8	1145.6	1138.0	1117.7	1092.3	1036.4	990.7	965.3
65°	1011.0	1005.9	970.3	866.2	802.7	721.4	635.0	551.2	523.3	505.5
67.5°	850.9	767.1	640.1	548.7	515.6	485.2	439.4	393.7	368.3	353.1
70°	612.2	541.1	482.6	431.8	409.0	391.2	355.6	322.6	299.7	289.6
72.5°	495.3	449.6	411.5	373.4	355.6	335.3	299.7	266.7	246.4	236.2
75°	414.0	386.1	348.0	312.4	297.2	282.0	256.6	231.2	213.4	205.8
77.5°	327.7	312.4	289.6	261.6	248.9	238.8	215.9	198.1	180.4	172.7
80°	241.3	236.2	221.0	200.7	190.5	182.9	165.1	149.9	134.6	129.5
82.5°	177.8	172.7	160.0	144.8	139.7	132.1	119.4	106.7	96.5	91.4
85°	121.9	119.4	109.2	99.1	94.0	88.9	76.2	66.0	58.4	53.3
87.5°	76.2	73.7	68.6	58.4	53.3	48.3	38.1	30.5	22.9	20.3
90°	38.1	38.1	35.6	27.9	25.4	22.9	15.2	7.6	2.5	0.0
92.5°	10.2	10.2	10.2	7.6	7.6	5.1	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: P256895

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