

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: P256885

Luminaire Tested: **HGL-S-BA-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256885
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-50L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9216.6 lumens
Efficiency: N/A
Efficacy: 123.5 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

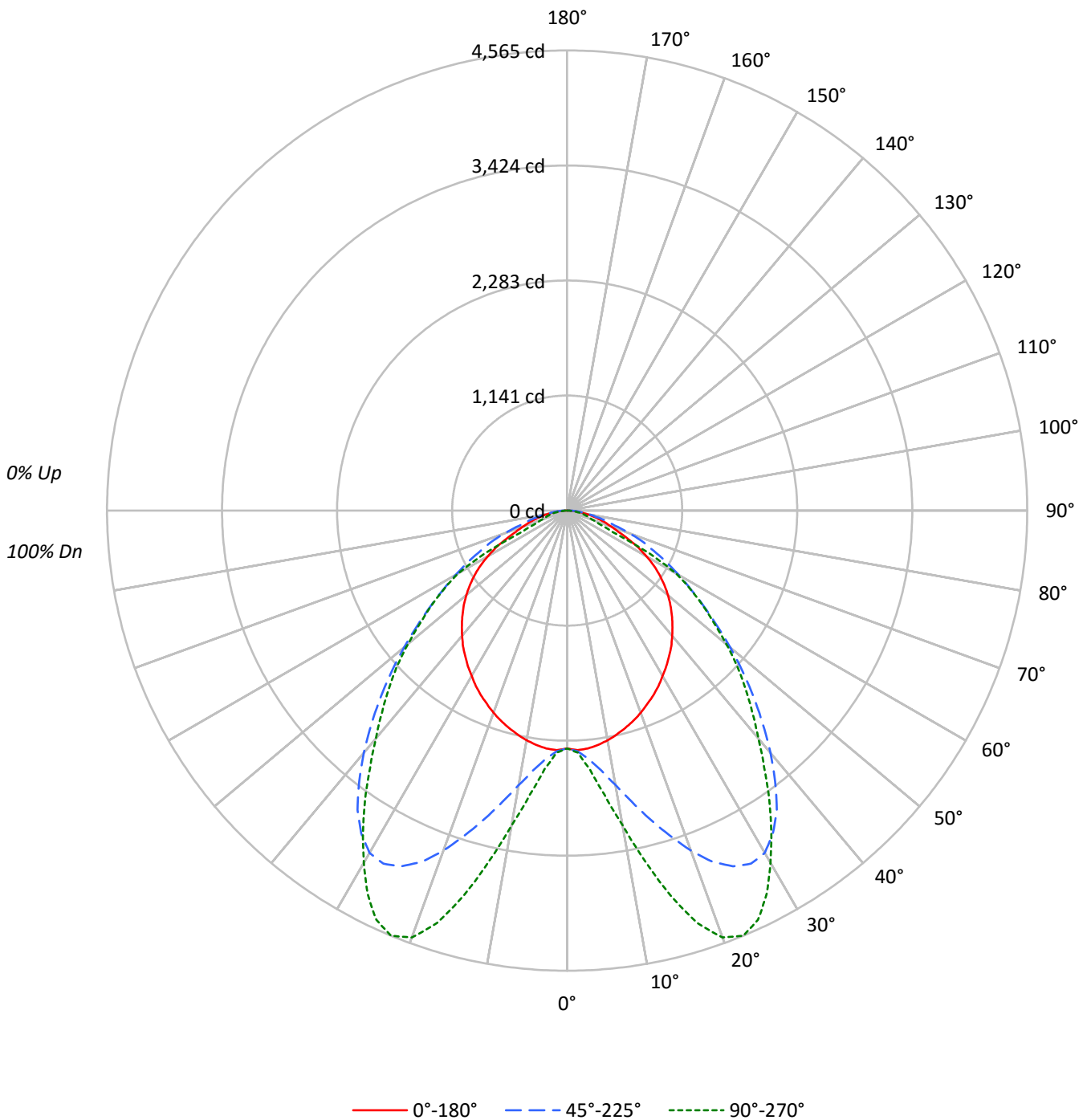
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-50L830-UNV-8

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°	13853	13853	13853
5°	13961	14534	15128
10°	13790	16391	18769
15°	13560	19077	23728
20°	13334	22174	27718
25°	13089	24857	28444
30°	12830	26100	26675
35°	12629	25425	24296
40°	12412	23432	21833
45°	12184	21046	19923
50°	11904	18579	17909
55°	11462	16206	15831
60°	10685	14233	13643
65°	9260	12332	6099
70°	7965	10399	4215
75°	7300	8074	3812
80°	6560	6567	3334
85°	5446	5724	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	2.7
10°-20°	892.2	9.7
20°-30°	1614.8	17.5
30°-40°	1938.0	21.0
40°-50°	1835.9	19.9
50°-60°	1438.5	15.6
60°-70°	802.8	8.7
70°-80°	340.2	3.7
80°-90°	105.8	1.1
90°-100°	3.8	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°	2751.6	29.9
0°-40°	4689.5	50.9
0°-60°	7963.9	86.4
0°-90°	9212.8	100.0
90°-120°	3.8	0.0
90°-150°	3.8	0.0
90°-180°	4.0	0.0
0°-180°	9216.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2369	2379	2473	2555	2577	224
15°	2232	2499	3165	3747	3949	629
25°	2022	2656	3894	4369	4480	931
35°	1764	2716	3626	3474	3493	1104
45°	1469	2487	2615	2432	2504	1133
55°	1122	1807	1655	1602	1643	999
65°	668	835	948	762	480	668
75°	323	335	398	282	195	344
85°	82	94	116	89	51	91
90°	0	19	36	24	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°	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5
2.5°	2378.8	2376.4	2369.1	2359.5	2361.9	2364.3	2364.3	2366.7	2369.1	2376.4	2390.8
5°	2369.1	2364.3	2361.9	2359.5	2371.5	2378.8	2386.0	2400.5	2417.4	2443.9	2472.9
7.5°	2345.0	2345.0	2349.8	2359.5	2386.0	2402.9	2417.4	2453.6	2494.6	2545.2	2600.7
10°	2313.6	2318.5	2332.9	2354.7	2402.9	2429.4	2458.4	2518.7	2588.7	2673.1	2764.8
12.5°	2275.0	2284.7	2308.8	2349.8	2422.2	2463.2	2506.6	2598.3	2702.1	2822.7	2957.8
15°	2231.6	2243.7	2282.3	2342.6	2441.5	2499.4	2559.7	2685.2	2827.5	2989.2	3165.3
17.5°	2185.8	2202.7	2255.7	2340.2	2468.0	2540.4	2617.6	2781.7	2965.0	3160.4	3377.6
20°	2135.1	2159.2	2226.8	2335.4	2492.2	2581.4	2675.5	2880.6	3105.0	3336.6	3589.9
22.5°	2077.2	2108.6	2193.0	2325.7	2516.3	2622.4	2733.4	2972.3	3232.8	3495.8	3770.8
25°	2021.7	2055.5	2154.4	2313.6	2535.6	2656.2	2784.1	3056.7	3348.6	3626.1	3893.9
27.5°	1961.4	2000.0	2118.2	2301.6	2550.1	2685.2	2827.5	3126.7	3433.1	3708.1	3949.4
30°	1893.9	1944.5	2077.2	2282.3	2557.3	2706.9	2861.3	3182.2	3486.1	3727.4	3920.4
32.5°	1831.1	1886.6	2031.4	2260.6	2559.7	2719.0	2883.0	3199.0	3486.1	3684.0	3799.8
35°	1763.6	1823.9	1985.5	2234.0	2550.1	2716.5	2880.6	3194.2	3435.5	3570.6	3626.1
37.5°	1696.0	1761.2	1937.3	2197.8	2528.4	2699.7	2863.7	3146.0	3331.7	3404.1	3389.6
40°	1621.2	1693.6	1874.6	2152.0	2489.8	2656.2	2813.0	3061.5	3179.7	3191.8	3138.7
42.5°	1546.4	1621.2	1811.8	2091.7	2424.6	2583.8	2728.6	2926.4	2981.9	2955.4	2873.4
45°	1469.2	1546.4	1737.0	2019.3	2342.6	2487.3	2608.0	2750.3	2750.3	2702.1	2615.2
47.5°	1389.6	1464.4	1657.4	1934.9	2236.4	2361.9	2460.8	2545.2	2506.6	2446.3	2359.5
50°	1305.2	1380.0	1568.2	1833.5	2098.9	2202.7	2284.7	2316.1	2255.7	2188.2	2111.0
52.5°	1215.9	1290.7	1462.0	1705.7	1937.3	2014.5	2074.8	2072.4	2000.0	1939.7	1872.1
55°	1121.8	1189.4	1343.8	1553.7	1744.3	1807.0	1843.2	1814.2	1746.7	1691.2	1655.0
57.5°	1022.9	1078.4	1211.1	1382.4	1524.7	1573.0	1594.7	1556.1	1507.8	1474.1	1454.8
60°	911.9	957.8	1051.9	1184.6	1288.3	1322.1	1336.6	1310.0	1293.1	1283.5	1278.7
62.5°	796.1	817.9	878.2	965.0	1051.9	1076.0	1092.9	1097.7	1095.3	1100.1	1112.2
65°	668.3	675.5	694.8	738.2	805.8	834.7	866.1	899.9	919.2	938.5	948.1
67.5°	550.1	552.5	562.1	576.6	603.1	634.5	661.0	711.7	755.1	791.3	815.4
70°	465.6	463.2	465.6	472.9	487.3	499.4	511.5	547.7	593.5	653.8	658.6
72.5°	393.2	390.8	393.2	398.1	402.9	407.7	415.0	429.4	456.0	492.2	499.4
75°	323.3	323.3	323.3	328.1	332.9	335.3	340.2	345.0	354.6	381.2	398.1
77.5°	258.1	255.7	260.6	263.0	265.4	270.2	272.6	277.4	282.3	291.9	304.0
80°	195.4	193.0	195.4	200.2	202.7	207.5	207.5	214.7	217.1	224.4	229.2
82.5°	137.5	135.1	137.5	142.3	142.3	147.2	149.6	154.4	159.2	164.1	168.9
85°	82.0	82.0	84.4	86.9	89.3	94.1	96.5	103.7	108.6	113.4	115.8
87.5°	36.2	36.2	38.6	41.0	45.8	50.7	53.1	57.9	62.7	70.0	70.0
90°	0.0	2.4	7.2	12.1	14.5	19.3	19.3	26.5	29.0	33.8	36.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	4.8	7.2	9.7
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°	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5
2.5°	2412.6	2398.1	2407.7	2410.1	2412.6	2407.7	2402.9	2407.7	2402.9	2402.9
5°	2509.1	2506.6	2530.8	2547.7	2554.9	2554.9	2569.4	2579.0	2581.4	2576.6
7.5°	2661.0	2675.5	2723.8	2757.6	2776.9	2786.5	2813.0	2827.5	2846.8	2844.4
10°	2861.3	2907.1	2979.5	3027.8	3061.5	3078.4	3117.0	3143.6	3174.9	3172.5
12.5°	3080.8	3165.3	3266.6	3343.8	3394.5	3425.8	3476.5	3524.7	3553.7	3556.1
15°	3329.3	3445.1	3582.6	3681.6	3746.7	3787.7	3857.7	3905.9	3954.2	3949.4
17.5°	3573.0	3712.9	3879.4	4009.7	4070.0	4108.6	4193.0	4243.7	4289.5	4289.5
20°	3790.1	3951.8	4120.6	4241.3	4299.2	4337.8	4410.2	4460.8	4494.6	4506.7
22.5°	3963.8	4113.4	4255.7	4359.5	4395.7	4427.0	4482.5	4523.5	4545.3	4564.6
25°	4060.3	4181.0	4277.5	4349.8	4369.1	4386.0	4417.4	4448.8	4453.6	4480.1
27.5°	4062.7	4152.0	4205.1	4231.6	4234.0	4234.0	4255.7	4267.8	4277.5	4287.1
30°	3975.9	4016.9	4026.6	4029.0	4016.9	4009.7	4024.1	4026.6	4033.8	4033.8
32.5°	3802.2	3811.8	3795.0	3768.4	3761.2	3746.7	3756.3	3751.5	3763.6	3770.8
35°	3580.2	3563.3	3519.9	3500.6	3474.1	3466.8	3474.1	3469.3	3476.5	3493.4
37.5°	3326.9	3290.7	3254.5	3220.8	3201.5	3182.2	3189.4	3196.6	3206.3	3211.1
40°	3066.4	3018.1	2979.5	2945.7	2926.4	2912.0	2924.0	2931.3	2953.0	2953.0
42.5°	2803.4	2750.3	2711.7	2690.0	2675.5	2663.5	2682.8	2687.6	2714.1	2719.0
45°	2542.8	2497.0	2465.6	2443.9	2431.9	2436.7	2456.0	2468.0	2492.2	2504.2
47.5°	2304.0	2265.4	2231.6	2222.0	2222.0	2226.8	2246.1	2258.2	2277.5	2291.9
50°	2070.0	2041.0	2019.3	2007.2	2009.7	2016.9	2033.8	2043.4	2062.7	2062.7
52.5°	1840.8	1821.5	1811.8	1797.4	1797.4	1794.9	1811.8	1821.5	1836.0	1838.4
55°	1640.5	1623.7	1614.0	1604.3	1601.9	1606.8	1616.4	1623.7	1640.5	1643.0
57.5°	1449.9	1442.7	1435.5	1428.2	1425.8	1428.2	1433.1	1437.9	1447.5	1449.9
60°	1276.2	1273.8	1264.2	1256.9	1254.5	1252.1	1249.7	1247.3	1252.1	1249.7
62.5°	1117.0	1109.8	1102.5	1088.1	1080.8	1061.5	1037.4	984.3	940.9	916.8
65°	960.2	955.4	921.6	822.7	762.4	685.2	603.1	523.5	497.0	480.1
67.5°	808.2	728.6	608.0	521.1	489.7	460.8	417.4	373.9	349.8	335.3
70°	581.4	513.9	458.4	410.1	388.4	371.5	337.8	306.4	284.7	275.0
72.5°	470.4	427.0	390.8	354.6	337.8	318.5	284.7	253.3	234.0	224.4
75°	393.2	366.7	330.5	296.7	282.3	267.8	243.7	219.5	202.7	195.4
77.5°	311.2	296.7	275.0	248.5	236.4	226.8	205.1	188.2	171.3	164.1
80°	229.2	224.4	209.9	190.6	180.9	173.7	156.8	142.3	127.9	123.0
82.5°	168.9	164.1	152.0	137.5	132.7	125.5	113.4	101.3	91.7	86.9
85°	115.8	113.4	103.7	94.1	89.3	84.4	72.4	62.7	55.5	50.7
87.5°	72.4	70.0	65.1	55.5	50.7	45.8	36.2	29.0	21.7	19.3
90°	36.2	36.2	33.8	26.5	24.1	21.7	14.5	7.2	2.4	0.0
92.5°	9.7	9.7	9.7	7.2	7.2	4.8	2.4	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: P256885

CATALOG NUMBER: HGL-S-BA-50L830-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)