

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: P256906

Luminaire Tested: **HGL-S-BA-60L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256906
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-60L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8850.1 lumens
Efficiency: N/A
Efficacy: 93.7 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

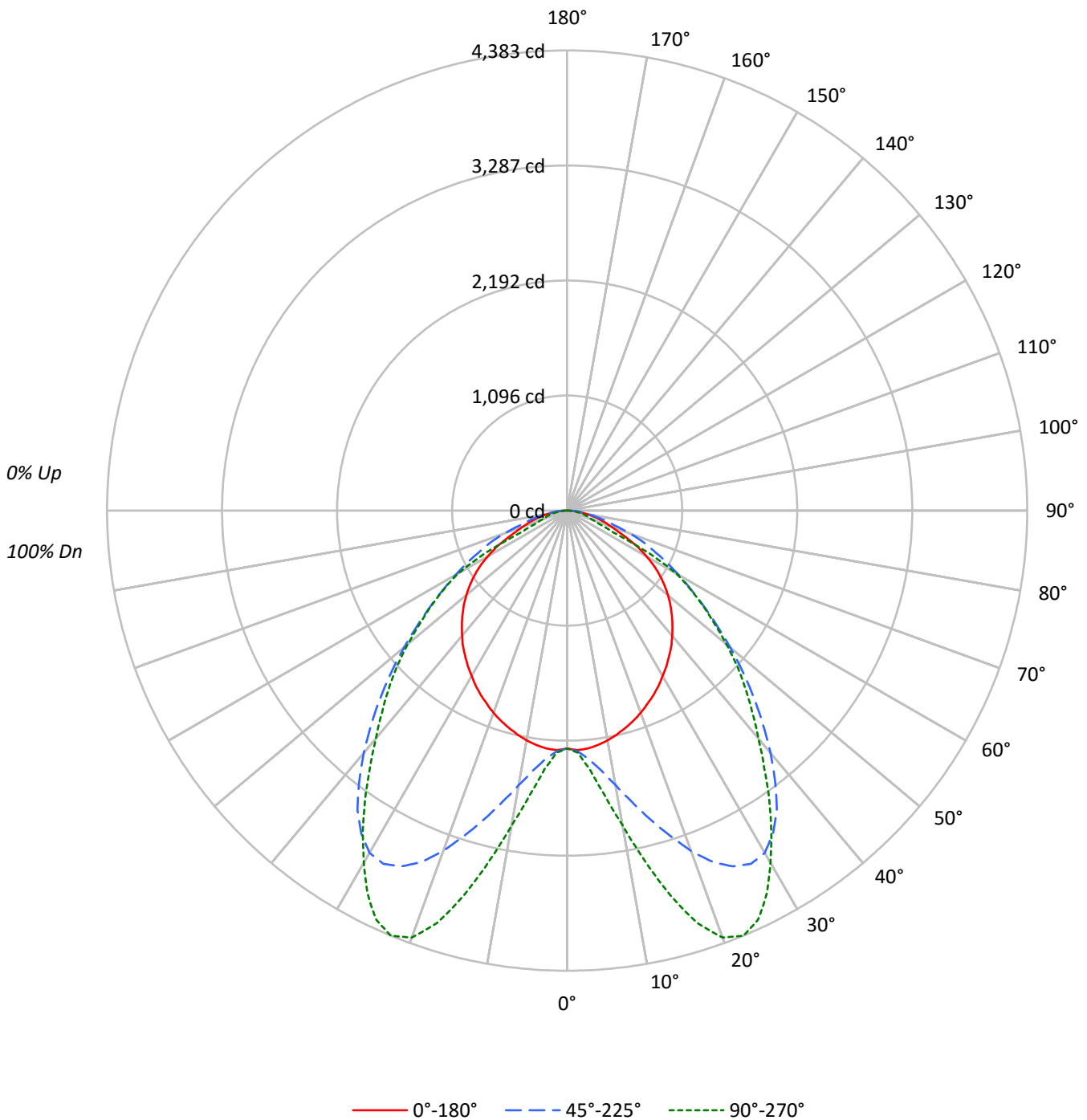
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-60L940-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	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				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54				54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47				47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13302	13302	13302
5°	13406	13956	14527
10°	13242	15740	18023
15°	13021	18319	22784
20°	12804	21292	26616
25°	12569	23869	27313
30°	12320	25062	25614
35°	12127	24414	23330
40°	11919	22500	20965
45°	11699	20209	19132
50°	11431	17841	17197
55°	11007	15562	15201
60°	10261	13666	13101
65°	8891	11842	5856
70°	7649	9985	4048
75°	7009	7752	3660
80°	6298	6307	3201
85°	5234	5497	2184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	2.7
10°-20°	856.7	9.7
20°-30°	1550.6	17.5
30°-40°	1860.9	21.0
40°-50°	1762.9	19.9
50°-60°	1381.3	15.6
60°-70°	770.9	8.7
70°-80°	326.7	3.7
80°-90°	101.6	1.1
90°-100°	3.7	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°	2642.2	29.9
0°-40°	4503.1	50.9
0°-60°	7647.3	86.4
0°-90°	8846.5	100.0
90°-120°	3.7	0.0
90°-150°	3.7	0.0
90°-180°	4.0	0.0
0°-180°	8850.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2266	2266	2266	2266	2266	
5°	2275	2284	2375	2453	2474	215
15°	2143	2400	3039	3598	3792	604
25°	1941	2551	3739	4195	4302	894
35°	1694	2608	3482	3336	3354	1060
45°	1411	2388	2511	2335	2405	1088
55°	1077	1735	1589	1538	1578	959
65°	642	802	910	732	461	641
75°	310	322	382	271	188	330
85°	79	90	111	86	49	88
90°	0	18	35	23	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°	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7
2.5°	2284.2	2281.9	2274.9	2265.7	2268.0	2270.3	2270.3	2272.6	2274.9	2281.9	2295.8
5°	2274.9	2270.3	2268.0	2265.7	2277.3	2284.2	2291.2	2305.1	2321.3	2346.8	2374.6
7.5°	2251.8	2251.8	2256.4	2265.7	2291.2	2307.4	2321.3	2356.0	2395.4	2444.1	2497.3
10°	2221.7	2226.3	2240.2	2261.0	2307.4	2332.9	2360.7	2418.6	2485.8	2566.8	2654.9
12.5°	2184.6	2193.9	2217.0	2256.4	2325.9	2365.3	2407.0	2495.0	2594.6	2710.5	2840.2
15°	2142.9	2154.5	2191.5	2249.5	2344.4	2400.0	2458.0	2578.4	2715.1	2870.3	3039.4
17.5°	2098.9	2115.1	2166.1	2247.1	2369.9	2439.4	2513.6	2671.1	2847.2	3034.8	3243.3
20°	2050.2	2073.4	2138.3	2242.5	2393.1	2478.8	2569.2	2766.1	2981.5	3203.9	3447.2
22.5°	1994.6	2024.7	2105.8	2233.2	2416.3	2518.2	2624.8	2854.1	3104.3	3356.8	3620.9
25°	1941.3	1973.8	2068.8	2221.7	2434.8	2550.6	2673.4	2935.2	3215.5	3481.9	3739.1
27.5°	1883.4	1920.5	2034.0	2210.1	2448.7	2578.4	2715.1	3002.4	3296.6	3560.7	3792.3
30°	1818.6	1867.2	1994.6	2191.5	2455.6	2599.3	2747.5	3055.6	3347.5	3579.2	3764.5
32.5°	1758.3	1811.6	1950.6	2170.7	2458.0	2610.9	2768.4	3071.9	3347.5	3537.5	3648.7
35°	1693.5	1751.4	1906.6	2145.2	2448.7	2608.5	2766.1	3067.2	3298.9	3428.6	3481.9
37.5°	1628.6	1691.1	1860.3	2110.5	2427.8	2592.3	2749.9	3020.9	3199.3	3268.8	3254.9
40°	1556.8	1626.3	1800.0	2066.4	2390.8	2550.6	2701.2	2939.8	3053.3	3064.9	3013.9
42.5°	1485.0	1556.8	1739.8	2008.5	2328.2	2481.1	2620.1	2810.1	2863.4	2837.9	2759.1
45°	1410.8	1485.0	1668.0	1939.0	2249.5	2388.5	2504.3	2641.0	2641.0	2594.6	2511.2
47.5°	1334.4	1406.2	1591.5	1857.9	2147.5	2268.0	2363.0	2444.1	2407.0	2349.1	2265.7
50°	1253.3	1325.1	1505.8	1760.6	2015.5	2115.1	2193.9	2224.0	2166.1	2101.2	2027.1
52.5°	1167.6	1239.4	1403.9	1637.9	1860.3	1934.4	1992.3	1990.0	1920.5	1862.6	1797.7
55°	1077.2	1142.1	1290.4	1491.9	1674.9	1735.2	1769.9	1742.1	1677.2	1624.0	1589.2
57.5°	982.3	1035.5	1163.0	1327.4	1464.1	1510.4	1531.3	1494.2	1447.9	1415.5	1396.9
60°	875.7	919.7	1010.1	1137.5	1237.1	1269.5	1283.4	1257.9	1241.7	1232.5	1227.8
62.5°	764.5	785.3	843.3	926.7	1010.1	1033.2	1049.4	1054.1	1051.8	1056.4	1068.0
65°	641.7	648.7	667.2	708.9	773.8	801.6	831.7	864.1	882.6	901.2	910.4
67.5°	528.2	530.5	539.8	553.7	579.2	609.3	634.8	683.4	725.1	759.9	783.0
70°	447.1	444.8	447.1	454.1	468.0	479.5	491.1	525.9	569.9	627.8	632.4
72.5°	377.6	375.3	377.6	382.2	386.9	391.5	398.5	412.4	437.8	472.6	479.5
75°	310.4	310.4	310.4	315.1	319.7	322.0	326.6	331.3	340.5	366.0	382.2
77.5°	247.9	245.6	250.2	252.5	254.8	259.5	261.8	266.4	271.0	280.3	291.9
80°	187.6	185.3	187.6	192.3	194.6	199.2	199.2	206.2	208.5	215.4	220.1
82.5°	132.0	129.7	132.0	136.7	136.7	141.3	143.6	148.3	152.9	157.5	162.2
85°	78.8	78.8	81.1	83.4	85.7	90.3	92.7	99.6	104.2	108.9	111.2
87.5°	34.7	34.7	37.1	39.4	44.0	48.6	51.0	55.6	60.2	67.2	67.2
90°	0.0	2.3	6.9	11.6	13.9	18.5	18.5	25.5	27.8	32.4	34.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	4.6	6.9	9.3
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°	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7	2265.7
2.5°	2316.6	2302.7	2312.0	2314.3	2316.6	2312.0	2307.4	2312.0	2307.4	2307.4
5°	2409.3	2407.0	2430.2	2446.4	2453.3	2453.3	2467.2	2476.5	2478.8	2474.2
7.5°	2555.3	2569.2	2615.5	2647.9	2666.5	2675.7	2701.2	2715.1	2733.6	2731.3
10°	2747.5	2791.6	2861.1	2907.4	2939.8	2956.0	2993.1	3018.6	3048.7	3046.4
12.5°	2958.4	3039.4	3136.7	3210.9	3259.5	3289.6	3338.3	3384.6	3412.4	3414.7
15°	3197.0	3308.2	3440.2	3535.2	3597.7	3637.1	3704.3	3750.6	3797.0	3792.3
17.5°	3430.9	3565.3	3725.2	3850.3	3908.2	3945.2	4026.3	4075.0	4119.0	4119.0
20°	3639.4	3794.7	3956.8	4072.7	4128.3	4165.3	4234.8	4283.5	4315.9	4327.5
22.5°	3806.2	3949.9	4086.6	4186.2	4220.9	4251.0	4304.3	4343.7	4364.6	4383.1
25°	3898.9	4014.7	4107.4	4176.9	4195.4	4211.7	4241.8	4271.9	4276.5	4302.0
27.5°	3901.2	3986.9	4037.9	4063.4	4065.7	4065.7	4086.6	4098.1	4107.4	4116.7
30°	3817.8	3857.2	3866.5	3868.8	3857.2	3850.3	3864.2	3866.5	3873.4	3873.4
32.5°	3651.0	3660.3	3644.1	3618.6	3611.6	3597.7	3607.0	3602.4	3614.0	3620.9
35°	3437.9	3421.7	3380.0	3361.4	3336.0	3329.0	3336.0	3331.3	3338.3	3354.5
37.5°	3194.6	3159.9	3125.1	3092.7	3074.2	3055.6	3062.6	3069.5	3078.8	3083.4
40°	2944.5	2898.1	2861.1	2828.6	2810.1	2796.2	2807.8	2814.7	2835.6	2835.6
42.5°	2691.9	2641.0	2603.9	2583.1	2569.2	2557.6	2576.1	2580.7	2606.2	2610.9
45°	2441.7	2397.7	2367.6	2346.8	2335.2	2339.8	2358.3	2369.9	2393.1	2404.7
47.5°	2212.4	2175.3	2142.9	2133.6	2133.6	2138.3	2156.8	2168.4	2186.9	2200.8
50°	1987.7	1959.9	1939.0	1927.4	1929.8	1936.7	1952.9	1962.2	1980.7	1980.7
52.5°	1767.6	1749.1	1739.8	1725.9	1725.9	1723.6	1739.8	1749.1	1763.0	1765.3
55°	1575.3	1559.1	1549.8	1540.6	1538.2	1542.9	1552.1	1559.1	1575.3	1577.6
57.5°	1392.3	1385.4	1378.4	1371.5	1369.1	1371.5	1376.1	1380.7	1390.0	1392.3
60°	1225.5	1223.2	1213.9	1207.0	1204.7	1202.3	1200.0	1197.7	1202.3	1200.0
62.5°	1072.6	1065.7	1058.7	1044.8	1037.9	1019.3	996.2	945.2	903.5	880.3
65°	922.0	917.4	885.0	790.0	732.1	657.9	579.2	502.7	477.2	461.0
67.5°	776.1	699.6	583.8	500.4	470.3	442.5	400.8	359.1	335.9	322.0
70°	558.3	493.4	440.2	393.8	373.0	356.8	324.3	294.2	273.4	264.1
72.5°	451.7	410.0	375.3	340.5	324.3	305.8	273.4	243.2	224.7	215.4
75°	377.6	352.1	317.4	284.9	271.0	257.1	234.0	210.8	194.6	187.6
77.5°	298.8	284.9	264.1	238.6	227.0	217.8	196.9	180.7	164.5	157.5
80°	220.1	215.4	201.5	183.0	173.7	166.8	150.6	136.7	122.8	118.1
82.5°	162.2	157.5	145.9	132.0	127.4	120.5	108.9	97.3	88.0	83.4
85°	111.2	108.9	99.6	90.3	85.7	81.1	69.5	60.2	53.3	48.6
87.5°	69.5	67.2	62.5	53.3	48.6	44.0	34.7	27.8	20.8	18.5
90°	34.7	34.7	32.4	25.5	23.2	20.8	13.9	6.9	2.3	0.0
92.5°	9.3	9.3	9.3	6.9	6.9	4.6	2.3	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: P256906

CATALOG NUMBER: HGL-S-BA-60L940-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)