

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: P256925

Luminaire Tested: **HGL-S-BA-50L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256925
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-50L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10622.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

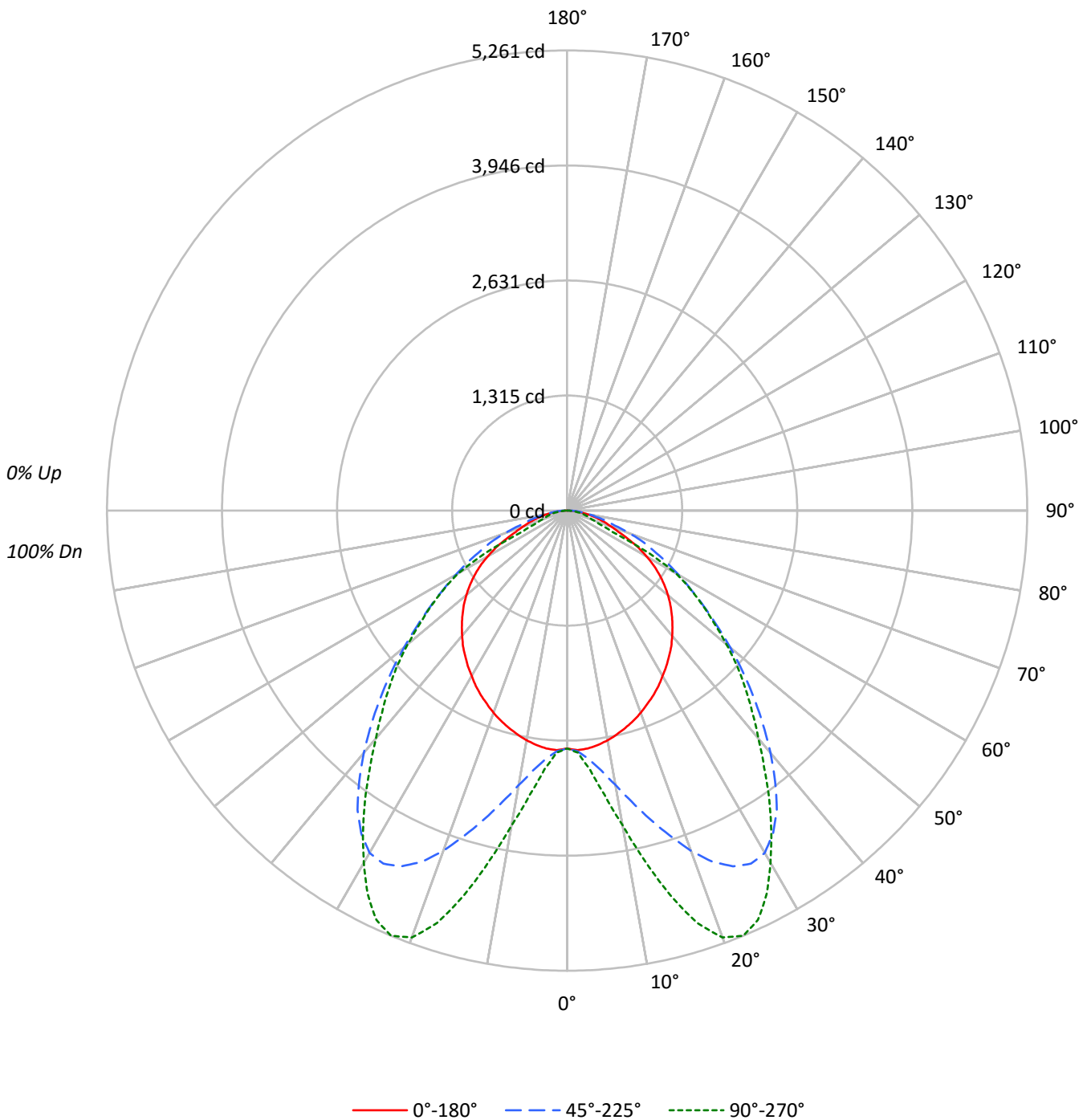
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10644	10644	10644
5°	10728	11167	11623
10°	10597	12595	14421
15°	10420	14659	18231
20°	10247	17039	21297
25°	10059	19102	21855
30°	9860	20058	20496
35°	9707	19539	18668
40°	9541	18009	16776
45°	9365	16176	15308
50°	9151	14280	13761
55°	8812	12457	12163
60°	8216	10941	10483
65°	7121	9482	4686
70°	6127	7996	3239
75°	5617	6210	2929
80°	5052	5054	2562
85°	4204	4410	1750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	2.7
10°-20°	1028.3	9.7
20°-30°	1861.1	17.5
30°-40°	2233.6	21.0
40°-50°	2115.9	19.9
50°-60°	1657.9	15.6
60°-70°	925.3	8.7
70°-80°	392.1	3.7
80°-90°	122.0	1.1
90°-100°	4.4	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°	3171.3	29.9
0°-40°	5404.8	50.9
0°-60°	9178.6	86.4
0°-90°	10618.0	100.0
90°-120°	4.4	0.0
90°-150°	4.4	0.0
90°-180°	4.0	0.0
0°-180°	10622.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2730	2742	2850	2945	2970	258
15°	2572	2881	3648	4318	4552	725
25°	2330	3061	4488	5036	5164	1073
35°	2033	3131	4179	4004	4026	1272
45°	1693	2867	3014	2803	2886	1306
55°	1293	2083	1907	1846	1894	1151
65°	770	962	1093	879	553	770
75°	373	386	459	325	225	397
85°	94	108	134	103	58	105
90°	0	22	42	28	0	6
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°	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4
2.5°	2741.6	2738.8	2730.5	2719.4	2722.1	2724.9	2724.9	2727.7	2730.5	2738.8	2755.5
5°	2730.5	2724.9	2722.1	2719.4	2733.3	2741.6	2749.9	2766.6	2786.1	2816.7	2850.0
7.5°	2702.7	2702.7	2708.2	2719.4	2749.9	2769.4	2786.1	2827.8	2875.1	2933.5	2997.4
10°	2666.5	2672.1	2688.8	2713.8	2769.4	2800.0	2833.4	2902.9	2983.5	3080.8	3186.5
12.5°	2622.0	2633.2	2661.0	2708.2	2791.7	2838.9	2889.0	2994.6	3114.2	3253.2	3408.9
15°	2572.0	2585.9	2630.4	2699.9	2813.9	2880.6	2950.1	3094.7	3258.8	3445.1	3648.1
17.5°	2519.2	2538.6	2599.8	2697.1	2844.5	2927.9	3016.9	3206.0	3417.3	3642.5	3892.7
20°	2460.8	2488.6	2566.4	2691.6	2872.3	2975.2	3083.6	3320.0	3578.5	3845.5	4137.4
22.5°	2394.0	2430.2	2527.5	2680.4	2900.1	3022.4	3150.3	3425.6	3725.9	4029.0	4346.0
25°	2330.1	2369.0	2483.0	2666.5	2922.3	3061.4	3208.7	3522.9	3859.4	4179.1	4487.8
27.5°	2260.6	2305.1	2441.3	2652.6	2939.0	3094.7	3258.8	3603.6	3956.7	4273.7	4551.7
30°	2182.7	2241.1	2394.0	2630.4	2947.4	3119.8	3297.7	3667.5	4017.9	4295.9	4518.4
32.5°	2110.4	2174.4	2341.2	2605.4	2950.1	3133.7	3322.7	3687.0	4017.9	4245.9	4379.3
35°	2032.6	2102.1	2288.4	2574.8	2939.0	3130.9	3320.0	3681.4	3959.5	4115.2	4179.1
37.5°	1954.7	2029.8	2232.8	2533.1	2914.0	3111.4	3300.5	3625.8	3839.9	3923.3	3906.7
40°	1868.5	1951.9	2160.5	2480.2	2869.5	3061.4	3242.1	3528.5	3664.7	3678.6	3617.5
42.5°	1782.3	1868.5	2088.2	2410.7	2794.4	2978.0	3144.8	3372.8	3436.7	3406.2	3311.6
45°	1693.3	1782.3	2002.0	2327.3	2699.9	2866.7	3005.8	3169.8	3169.8	3114.2	3014.1
47.5°	1601.6	1687.8	1910.2	2230.0	2577.6	2722.1	2836.1	2933.5	2889.0	2819.5	2719.4
50°	1504.3	1590.5	1807.3	2113.2	2419.1	2538.6	2633.2	2669.3	2599.8	2521.9	2433.0
52.5°	1401.4	1487.6	1685.0	1965.8	2232.8	2321.7	2391.3	2388.5	2305.1	2235.6	2157.7
55°	1292.9	1370.8	1548.8	1790.7	2010.3	2082.6	2124.3	2091.0	2013.1	1949.2	1907.4
57.5°	1178.9	1242.9	1395.8	1593.2	1757.3	1812.9	1837.9	1793.4	1737.8	1698.9	1676.7
60°	1051.0	1103.9	1212.3	1365.2	1484.8	1523.7	1540.4	1509.8	1490.4	1479.2	1473.7
62.5°	917.6	942.6	1012.1	1112.2	1212.3	1240.1	1259.6	1265.1	1262.4	1267.9	1281.8
65°	770.2	778.5	800.8	850.8	928.7	962.1	998.2	1037.1	1059.4	1081.6	1092.8
67.5°	634.0	636.7	647.9	664.5	695.1	731.3	761.9	820.3	870.3	912.0	939.8
70°	536.6	533.9	536.6	545.0	561.7	575.6	589.5	631.2	684.0	753.5	759.1
72.5°	453.2	450.4	453.2	458.8	464.3	469.9	478.3	494.9	525.5	567.2	575.6
75°	372.6	372.6	372.6	378.2	383.7	386.5	392.1	397.6	408.7	439.3	458.8
77.5°	297.5	294.7	300.3	303.1	305.9	311.4	314.2	319.8	325.3	336.4	350.3
80°	225.2	222.4	225.2	230.8	233.6	239.1	239.1	247.5	250.2	258.6	264.2
82.5°	158.5	155.7	158.5	164.1	164.1	169.6	172.4	178.0	183.5	189.1	194.6
85°	94.5	94.5	97.3	100.1	102.9	108.4	111.2	119.6	125.1	130.7	133.5
87.5°	41.7	41.7	44.5	47.3	52.8	58.4	61.2	66.7	72.3	80.6	80.6
90°	0.0	2.8	8.3	13.9	16.7	22.2	22.2	30.6	33.4	38.9	41.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	5.6	8.3	11.1
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°	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4
2.5°	2780.5	2763.9	2775.0	2777.8	2780.5	2775.0	2769.4	2775.0	2769.4	2769.4
5°	2891.8	2889.0	2916.8	2936.2	2944.6	2944.6	2961.3	2972.4	2975.2	2969.6
7.5°	3066.9	3083.6	3139.2	3178.2	3200.4	3211.5	3242.1	3258.8	3281.0	3278.3
10°	3297.7	3350.5	3434.0	3489.6	3528.5	3548.0	3592.5	3623.0	3659.2	3656.4
12.5°	3550.7	3648.1	3764.8	3853.8	3912.2	3948.4	4006.8	4062.4	4095.7	4098.5
15°	3837.1	3970.6	4129.1	4243.1	4318.2	4365.4	4446.1	4501.7	4557.3	4551.7
17.5°	4118.0	4279.2	4471.1	4621.3	4690.8	4735.3	4832.6	4891.0	4943.8	4943.8
20°	4368.2	4554.5	4749.2	4888.2	4954.9	4999.4	5082.8	5141.2	5180.1	5194.0
22.5°	4568.4	4740.8	4904.9	5024.4	5066.1	5102.3	5166.2	5213.5	5238.5	5260.8
25°	4679.6	4818.7	4929.9	5013.3	5035.5	5055.0	5091.2	5127.3	5132.9	5163.5
27.5°	4682.4	4785.3	4846.5	4877.1	4879.8	4879.8	4904.9	4918.8	4929.9	4941.0
30°	4582.3	4629.6	4640.7	4643.5	4629.6	4621.3	4637.9	4640.7	4649.1	4649.1
32.5°	4382.1	4393.2	4373.8	4343.2	4334.9	4318.2	4329.3	4323.7	4337.6	4346.0
35°	4126.3	4106.9	4056.8	4034.6	4004.0	3995.6	4004.0	3998.4	4006.8	4026.2
37.5°	3834.4	3792.7	3750.9	3712.0	3689.8	3667.5	3675.9	3684.2	3695.3	3700.9
40°	3534.1	3478.4	3434.0	3395.0	3372.8	3356.1	3370.0	3378.4	3403.4	3403.4
42.5°	3231.0	3169.8	3125.3	3100.3	3083.6	3069.7	3092.0	3097.5	3128.1	3133.7
45°	2930.7	2877.9	2841.7	2816.7	2802.8	2808.3	2830.6	2844.5	2872.3	2886.2
47.5°	2655.4	2610.9	2572.0	2560.9	2560.9	2566.4	2588.7	2602.6	2624.8	2641.5
50°	2385.7	2352.3	2327.3	2313.4	2316.2	2324.5	2344.0	2355.1	2377.4	2377.4
52.5°	2121.5	2099.3	2088.2	2071.5	2071.5	2068.7	2088.2	2099.3	2116.0	2118.8
55°	1890.8	1871.3	1860.2	1849.1	1846.3	1851.8	1863.0	1871.3	1890.8	1893.5
57.5°	1671.1	1662.8	1654.4	1646.1	1643.3	1646.1	1651.6	1657.2	1668.3	1671.1
60°	1470.9	1468.1	1457.0	1448.7	1445.9	1443.1	1440.3	1437.5	1443.1	1440.3
62.5°	1287.4	1279.0	1270.7	1254.0	1245.7	1223.4	1195.6	1134.5	1084.4	1056.6
65°	1106.7	1101.1	1062.2	948.2	878.6	789.7	695.1	603.4	572.8	553.3
67.5°	931.5	839.7	700.7	600.6	564.4	531.1	481.0	431.0	403.2	386.5
70°	670.1	592.3	528.3	472.7	447.7	428.2	389.3	353.1	328.1	317.0
72.5°	542.2	492.2	450.4	408.7	389.3	367.0	328.1	292.0	269.7	258.6
75°	453.2	422.6	380.9	342.0	325.3	308.6	280.8	253.0	233.6	225.2
77.5°	358.7	342.0	317.0	286.4	272.5	261.4	236.3	216.9	197.4	189.1
80°	264.2	258.6	241.9	219.7	208.5	200.2	180.7	164.1	147.4	141.8
82.5°	194.6	189.1	175.2	158.5	152.9	144.6	130.7	116.8	105.7	100.1
85°	133.5	130.7	119.6	108.4	102.9	97.3	83.4	72.3	64.0	58.4
87.5°	83.4	80.6	75.1	64.0	58.4	52.8	41.7	33.4	25.0	22.2
90°	41.7	41.7	38.9	30.6	27.8	25.0	16.7	8.3	2.8	0.0
92.5°	11.1	11.1	11.1	8.3	8.3	5.6	2.8	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: P256925

CATALOG NUMBER: HGL-S-BA-50L930-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)