

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: P256930

Luminaire Tested: **HGL-S-BA-50L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256930
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-50L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

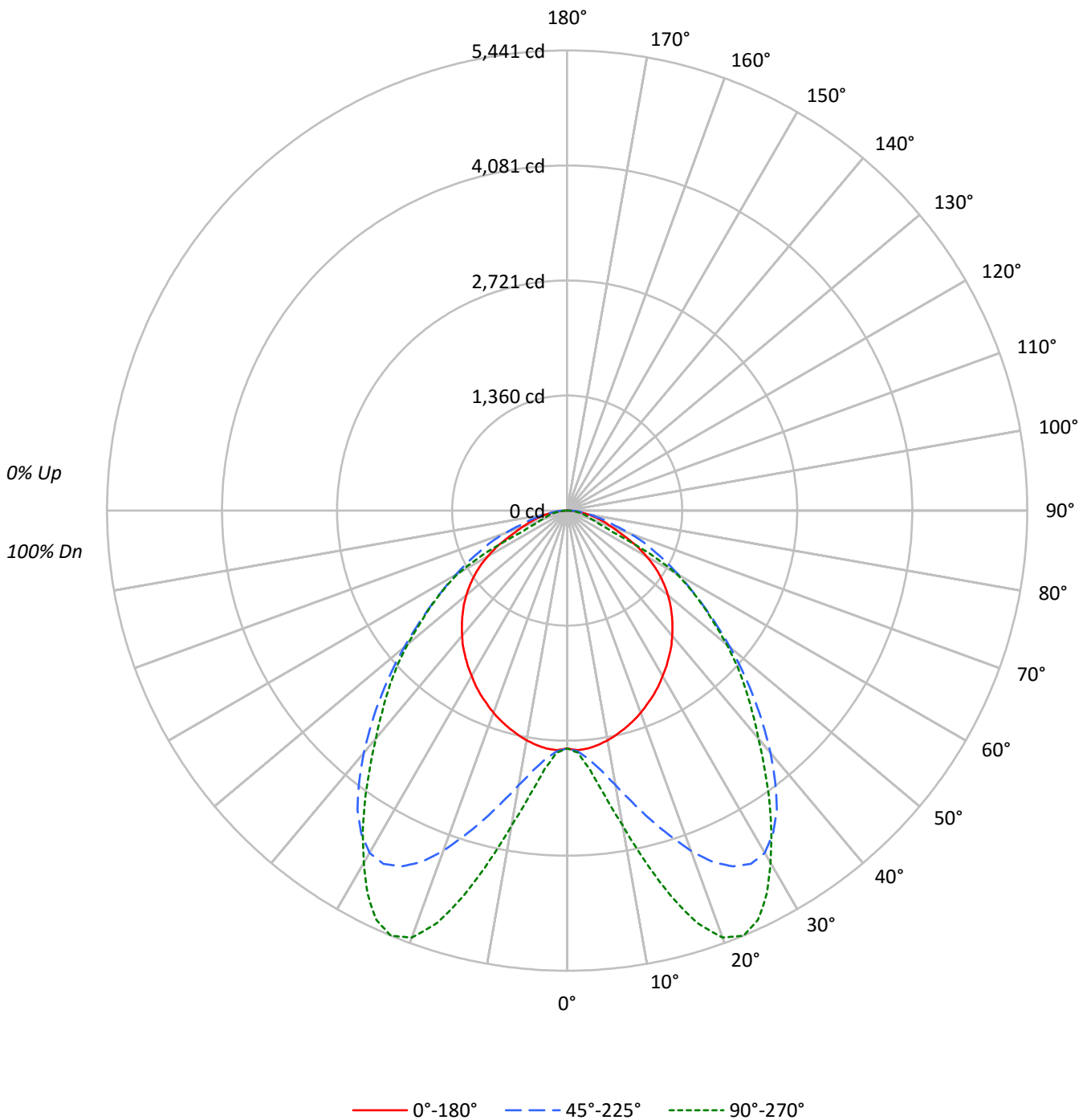
Lumens per Lamp: N/A
Luminaire Lumens: 10986.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

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°	11009	11009	11009
5°	11095	11550	12022
10°	10960	13027	14916
15°	10777	15162	18857
20°	10598	17623	22027
25°	10404	19757	22604
30°	10199	20745	21199
35°	10040	20209	19308
40°	9868	18626	17351
45°	9687	16730	15833
50°	9464	14770	14233
55°	9115	12884	12581
60°	8498	11316	10842
65°	7365	9806	4847
70°	6337	8270	3350
75°	5810	6422	3029
80°	5225	5226	2651
85°	4351	4559	1810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	2.7
10°-20°	1063.5	9.7
20°-30°	1925.0	17.5
30°-40°	2310.1	21.0
40°-50°	2188.4	19.9
50°-60°	1714.7	15.6
60°-70°	957.0	8.7
70°-80°	405.5	3.7
80°-90°	126.2	1.1
90°-100°	4.5	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°	3280.0	29.9
0°-40°	5590.1	50.9
0°-60°	9493.3	86.4
0°-90°	10982.0	100.0
90°-120°	4.5	0.0
90°-150°	4.5	0.0
90°-180°	5.0	0.0
0°-180°	10986.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2813	2813	2813	2813	2813	
5°	2824	2836	2948	3046	3071	267
15°	2660	2979	3773	4466	4708	750
25°	2410	3166	4642	5208	5340	1110
35°	2102	3238	4322	4141	4164	1316
45°	1751	2965	3117	2899	2985	1350
55°	1337	2154	1973	1910	1958	1191
65°	797	995	1130	909	572	796
75°	385	400	474	336	233	410
85°	98	112	138	106	60	109
90°	0	23	43	29	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°	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6
2.5°	2835.6	2832.7	2824.1	2812.6	2815.5	2818.4	2818.4	2821.2	2824.1	2832.7	2850.0
5°	2824.1	2818.4	2815.5	2812.6	2827.0	2835.6	2844.2	2861.5	2881.6	2913.3	2947.8
7.5°	2795.3	2795.3	2801.1	2812.6	2844.2	2864.4	2881.6	2924.8	2973.7	3034.0	3100.2
10°	2758.0	2763.7	2781.0	2806.9	2864.4	2896.0	2930.5	3002.4	3085.8	3186.5	3295.8
12.5°	2711.9	2723.5	2752.2	2801.1	2887.4	2936.3	2988.0	3097.3	3221.0	3364.8	3525.8
15°	2660.2	2674.6	2720.6	2792.5	2910.4	2979.4	3051.3	3200.8	3370.5	3563.2	3773.1
17.5°	2605.5	2625.7	2688.9	2789.6	2942.0	3028.3	3120.3	3315.9	3534.4	3767.4	4026.2
20°	2545.1	2573.9	2654.4	2783.8	2970.8	3077.2	3189.3	3433.8	3701.2	3977.3	4279.3
22.5°	2476.1	2513.5	2614.2	2772.3	2999.5	3126.1	3258.4	3543.1	3853.7	4167.1	4495.0
25°	2410.0	2450.2	2568.2	2758.0	3022.5	3166.3	3318.8	3643.7	3991.7	4322.4	4641.7
27.5°	2338.1	2384.1	2525.0	2743.6	3039.8	3200.8	3370.5	3727.1	4092.4	4420.2	4707.8
30°	2257.6	2318.0	2476.1	2720.6	3048.4	3226.7	3410.8	3793.3	4155.6	4443.2	4673.3
32.5°	2182.8	2248.9	2421.5	2694.7	3051.3	3241.1	3436.7	3813.4	4155.6	4391.5	4529.5
35°	2102.3	2174.2	2366.8	2663.1	3039.8	3238.2	3433.8	3807.7	4095.2	4256.3	4322.4
37.5°	2021.7	2099.4	2309.3	2619.9	3013.9	3218.1	3413.7	3750.1	3971.6	4057.9	4040.6
40°	1932.6	2018.9	2234.6	2565.3	2967.9	3166.3	3353.3	3649.5	3790.4	3804.8	3741.5
42.5°	1843.4	1932.6	2159.8	2493.4	2890.3	3080.1	3252.6	3488.4	3554.6	3522.9	3425.2
45°	1751.4	1843.4	2070.6	2407.1	2792.5	2965.0	3108.8	3278.5	3278.5	3221.0	3117.4
47.5°	1656.5	1745.7	1975.7	2306.5	2665.9	2815.5	2933.4	3034.0	2988.0	2916.1	2812.6
50°	1555.8	1645.0	1869.3	2185.7	2502.0	2625.7	2723.5	2760.8	2688.9	2608.4	2516.4
52.5°	1449.4	1538.6	1742.8	2033.2	2309.3	2401.4	2473.3	2470.4	2384.1	2312.2	2231.7
55°	1337.3	1417.8	1601.9	1852.1	2079.3	2154.0	2197.2	2162.7	2082.1	2016.0	1972.8
57.5°	1219.4	1285.5	1443.7	1647.9	1817.6	1875.1	1901.0	1854.9	1797.4	1757.2	1734.2
60°	1087.1	1141.7	1253.9	1412.1	1535.7	1576.0	1593.2	1561.6	1541.5	1530.0	1524.2
62.5°	949.0	974.9	1046.8	1150.3	1253.9	1282.6	1302.8	1308.5	1305.6	1311.4	1325.8
65°	796.6	805.2	828.3	880.0	960.5	995.1	1032.4	1072.7	1095.7	1118.7	1130.2
67.5°	655.7	658.6	670.1	687.3	719.0	756.4	788.0	848.4	900.1	943.3	972.0
70°	555.0	552.2	555.0	563.7	580.9	595.3	609.7	652.8	707.5	779.4	785.1
72.5°	468.8	465.9	468.8	474.5	480.3	486.0	494.7	511.9	543.5	586.7	595.3
75°	385.4	385.4	385.4	391.1	396.9	399.7	405.5	411.2	422.8	454.4	474.5
77.5°	307.7	304.8	310.6	313.5	316.3	322.1	325.0	330.7	336.5	348.0	362.4
80°	232.9	230.1	232.9	238.7	241.6	247.3	247.3	256.0	258.8	267.5	273.2
82.5°	163.9	161.0	163.9	169.7	169.7	175.4	178.3	184.1	189.8	195.6	201.3
85°	97.8	97.8	100.7	103.5	106.4	112.2	115.0	123.7	129.4	135.2	138.0
87.5°	43.1	43.1	46.0	48.9	54.6	60.4	63.3	69.0	74.8	83.4	83.4
90°	0.0	2.9	8.6	14.4	17.3	23.0	23.0	31.6	34.5	40.3	43.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	5.8	8.6	11.5
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°	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6	2812.6
2.5°	2875.9	2858.6	2870.1	2873.0	2875.9	2870.1	2864.4	2870.1	2864.4	2864.4
5°	2990.9	2988.0	3016.8	3036.9	3045.6	3045.6	3062.8	3074.3	3077.2	3071.4
7.5°	3172.1	3189.3	3246.9	3287.1	3310.1	3321.6	3353.3	3370.5	3393.5	3390.7
10°	3410.8	3465.4	3551.7	3609.2	3649.5	3669.6	3715.6	3747.3	3784.7	3781.8
12.5°	3672.5	3773.1	3893.9	3986.0	4046.4	4083.7	4144.1	4201.7	4236.2	4239.0
15°	3968.7	4106.7	4270.7	4388.6	4466.2	4515.1	4598.5	4656.0	4713.6	4707.8
17.5°	4259.2	4426.0	4624.4	4779.7	4851.6	4897.6	4998.3	5058.7	5113.3	5113.3
20°	4518.0	4710.7	4912.0	5055.8	5124.8	5170.8	5257.1	5317.5	5357.8	5372.1
22.5°	4725.1	4903.4	5073.0	5196.7	5239.8	5277.2	5343.4	5392.3	5418.1	5441.2
25°	4840.1	4983.9	5098.9	5185.2	5208.2	5228.3	5265.7	5303.1	5308.9	5340.5
27.5°	4843.0	4949.4	5012.6	5044.3	5047.2	5047.2	5073.0	5087.4	5098.9	5110.4
30°	4739.4	4788.3	4799.8	4802.7	4788.3	4779.7	4797.0	4799.8	4808.5	4808.5
32.5°	4532.4	4543.9	4523.7	4492.1	4483.5	4466.2	4477.7	4472.0	4486.4	4495.0
35°	4267.8	4247.7	4195.9	4172.9	4141.3	4132.6	4141.3	4135.5	4144.1	4164.3
37.5°	3965.8	3922.7	3879.6	3839.3	3816.3	3793.3	3801.9	3810.5	3822.0	3827.8
40°	3655.2	3597.7	3551.7	3511.4	3488.4	3471.2	3485.6	3494.2	3520.1	3520.1
42.5°	3341.8	3278.5	3232.5	3206.6	3189.3	3175.0	3198.0	3203.7	3235.4	3241.1
45°	3031.2	2976.5	2939.1	2913.3	2898.9	2904.6	2927.6	2942.0	2970.8	2985.2
47.5°	2746.5	2700.4	2660.2	2648.7	2648.7	2654.4	2677.4	2691.8	2714.8	2732.1
50°	2467.5	2433.0	2407.1	2392.7	2395.6	2404.2	2424.4	2435.9	2458.9	2458.9
52.5°	2194.3	2171.3	2159.8	2142.5	2142.5	2139.7	2159.8	2171.3	2188.5	2191.4
55°	1955.6	1935.5	1924.0	1912.5	1909.6	1915.3	1926.8	1935.5	1955.6	1958.5
57.5°	1728.4	1719.8	1711.1	1702.5	1699.6	1702.5	1708.3	1714.0	1725.5	1728.4
60°	1521.3	1518.5	1507.0	1498.3	1495.5	1492.6	1489.7	1486.8	1492.6	1489.7
62.5°	1331.5	1322.9	1314.3	1297.0	1288.4	1265.4	1236.6	1173.4	1121.6	1092.8
65°	1144.6	1138.8	1098.6	980.7	908.8	816.7	719.0	624.1	592.4	572.3
67.5°	963.4	868.5	724.7	621.2	583.8	549.3	497.5	445.8	417.0	399.7
70°	693.1	612.6	546.4	488.9	463.0	442.9	402.6	365.2	339.4	327.8
72.5°	560.8	509.0	465.9	422.8	402.6	379.6	339.4	302.0	279.0	267.5
75°	468.8	437.1	394.0	353.7	336.5	319.2	290.5	261.7	241.6	232.9
77.5°	371.0	353.7	327.8	296.2	281.8	270.3	244.4	224.3	204.2	195.6
80°	273.2	267.5	250.2	227.2	215.7	207.1	186.9	169.7	152.4	146.7
82.5°	201.3	195.6	181.2	163.9	158.2	149.5	135.2	120.8	109.3	103.5
85°	138.0	135.2	123.7	112.2	106.4	100.7	86.3	74.8	66.1	60.4
87.5°	86.3	83.4	77.6	66.1	60.4	54.6	43.1	34.5	25.9	23.0
90°	43.1	43.1	40.3	31.6	28.8	25.9	17.3	8.6	2.9	0.0
92.5°	11.5	11.5	11.5	8.6	8.6	5.8	2.9	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: P256930

CATALOG NUMBER: HGL-S-BA-50L940-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)