

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: P256927

Luminaire Tested: **HGL-S-BA-80L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256927
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-80L930-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: 17347.5 lumens
Efficiency: N/A
Efficacy: 81.8 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

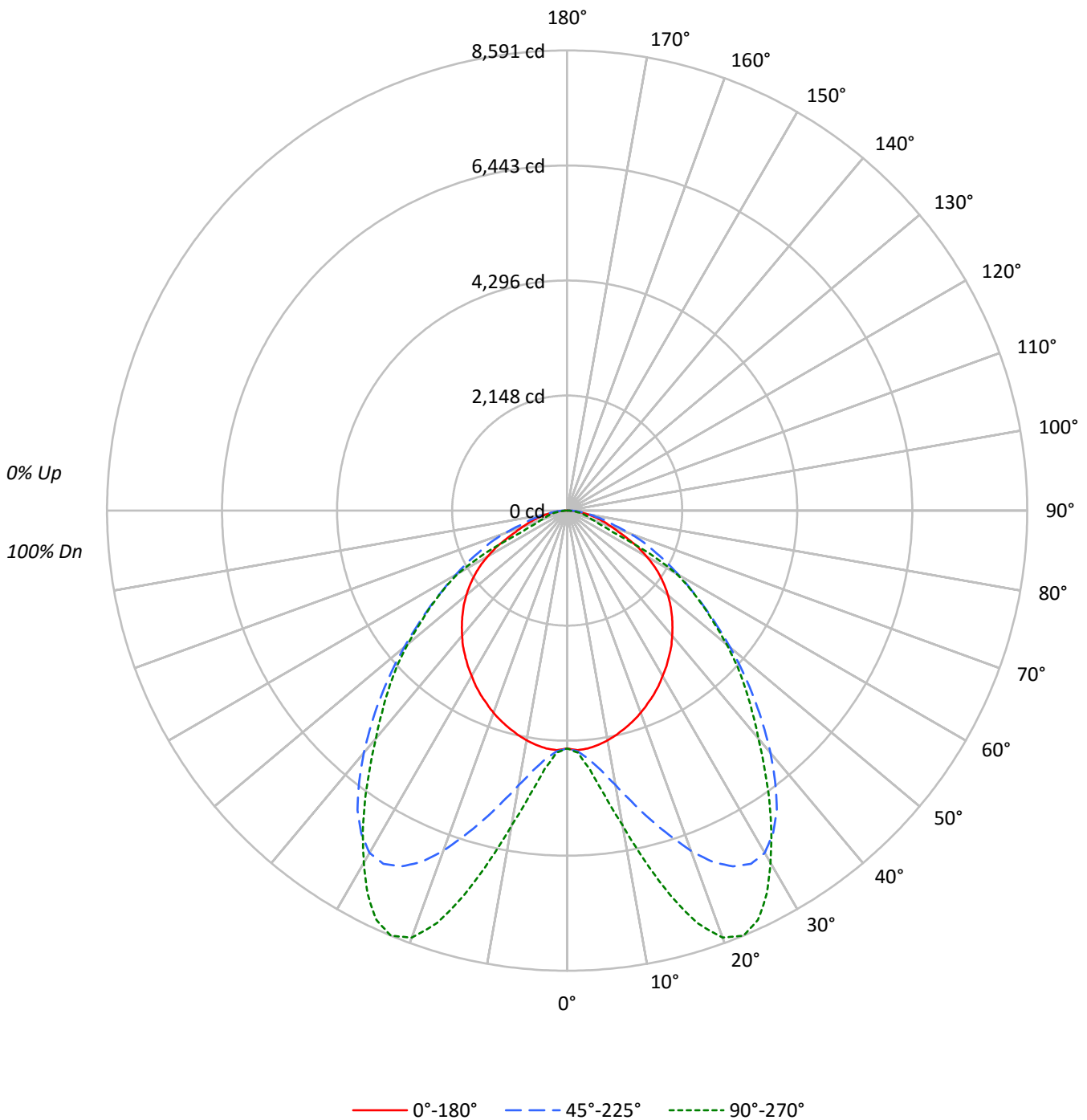
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17383	17383	17383
5°	17519	18237	18982
10°	17305	20569	23552
15°	17017	23940	29774
20°	16734	27826	34780
25°	16428	31195	35692
30°	16103	32756	33472
35°	15852	31909	30487
40°	15581	29410	27396
45°	15295	26417	25000
50°	14944	23321	22473
55°	14392	20344	19865
60°	13418	17867	17120
65°	11629	15484	7653
70°	10007	13059	5290
75°	9174	10142	4783
80°	8251	8252	4185
85°	6869	7202	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	2.7
10°-20°	1679.3	9.7
20°-30°	3039.5	17.5
30°-40°	3647.6	21.0
40°-50°	3455.5	19.9
50°-60°	2707.5	15.6
60°-70°	1511.1	8.7
70°-80°	640.3	3.7
80°-90°	199.2	1.1
90°-100°	7.2	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°	5179.0	29.9
0°-40°	8826.7	50.9
0°-60°	14989.6	86.4
0°-90°	17340.3	100.0
90°-120°	7.2	0.0
90°-150°	7.2	0.0
90°-180°	7.0	0.0
0°-180°	17347.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4441	4441	4441	4441	4441	
5°	4459	4477	4654	4809	4850	422
15°	4200	4704	5958	7052	7434	1185
25°	3805	5000	7329	8224	8432	1753
35°	3319	5113	6825	6539	6575	2077
45°	2765	4682	4922	4577	4714	2132
55°	2112	3401	3115	3015	3092	1880
65°	1258	1571	1785	1435	904	1257
75°	608	631	749	531	368	648
85°	154	177	218	168	95	172
90°	0	36	68	45	0	9
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°	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0
2.5°	4477.3	4472.8	4459.2	4441.0	4445.6	4450.1	4450.1	4454.6	4459.2	4472.8	4500.0
5°	4459.2	4450.1	4445.6	4441.0	4463.7	4477.3	4491.0	4518.2	4550.0	4599.9	4654.4
7.5°	4413.8	4413.8	4422.9	4441.0	4491.0	4522.8	4550.0	4618.1	4695.3	4790.7	4895.1
10°	4354.7	4363.8	4391.1	4431.9	4522.8	4572.7	4627.2	4740.7	4872.4	5031.3	5203.9
12.5°	4282.1	4300.2	4345.7	4422.9	4559.1	4636.3	4718.0	4890.6	5085.8	5312.9	5567.2
15°	4200.3	4223.1	4295.7	4409.2	4595.4	4704.4	4817.9	5054.0	5322.0	5626.2	5957.7
17.5°	4114.1	4145.9	4245.8	4404.7	4645.4	4781.6	4926.9	5235.7	5580.8	5948.6	6357.3
20°	4018.7	4064.1	4191.3	4395.6	4690.8	4858.8	5035.9	5421.9	5844.2	6280.1	6756.9
22.5°	3909.7	3968.8	4127.7	4377.4	4736.2	4936.0	5144.9	5594.4	6084.8	6579.8	7097.5
25°	3805.3	3868.9	4055.0	4354.7	4772.5	4999.5	5240.2	5753.3	6302.8	6825.0	7329.0
27.5°	3691.8	3764.4	3986.9	4332.0	4799.7	5054.0	5322.0	5885.0	6461.7	6979.4	7433.5
30°	3564.6	3660.0	3909.7	4295.7	4813.4	5094.9	5385.5	5989.5	6561.6	7015.7	7379.0
32.5°	3446.6	3551.0	3823.5	4254.8	4817.9	5117.6	5426.4	6021.3	6561.6	6934.0	7151.9
35°	3319.4	3432.9	3737.2	4204.9	4799.7	5113.1	5421.9	6012.2	6466.3	6720.6	6825.0
37.5°	3192.3	3314.9	3646.4	4136.8	4758.9	5081.3	5390.1	5921.4	6271.0	6407.2	6380.0
40°	3051.5	3187.7	3528.3	4050.5	4686.2	4999.5	5294.7	5762.4	5984.9	6007.6	5907.7
42.5°	2910.7	3051.5	3410.2	3937.0	4563.6	4863.3	5135.8	5508.1	5612.6	5562.6	5408.2
45°	2765.4	2910.7	3269.5	3800.7	4409.2	4681.7	4908.7	5176.6	5176.6	5085.8	4922.4
47.5°	2615.6	2756.3	3119.6	3641.8	4209.4	4445.6	4631.7	4790.7	4718.0	4604.5	4441.0
50°	2456.6	2597.4	2951.6	3451.1	3950.6	4145.9	4300.2	4359.3	4245.8	4118.6	3973.3
52.5°	2288.6	2429.4	2751.8	3210.4	3646.4	3791.7	3905.2	3900.6	3764.4	3650.9	3523.8
55°	2111.5	2238.7	2529.3	2924.4	3283.1	3401.1	3469.3	3414.8	3287.6	3183.2	3115.1
57.5°	1925.3	2029.8	2279.5	2601.9	2869.9	2960.7	3001.5	2928.9	2838.1	2774.5	2738.2
60°	1716.5	1802.7	1979.8	2229.6	2424.8	2488.4	2515.7	2465.7	2433.9	2415.8	2406.7
62.5°	1498.5	1539.4	1652.9	1816.4	1979.8	2025.2	2057.0	2066.1	2061.6	2070.7	2093.4
65°	1257.8	1271.5	1307.8	1389.5	1516.7	1571.2	1630.2	1693.8	1730.1	1766.4	1784.6
67.5°	1035.3	1039.9	1058.0	1085.3	1135.2	1194.3	1244.2	1339.6	1421.3	1489.4	1534.8
70°	876.4	871.9	876.4	890.0	917.3	940.0	962.7	1030.8	1117.1	1230.6	1239.7
72.5°	740.2	735.6	740.2	749.3	758.3	767.4	781.0	808.3	858.2	926.3	940.0
75°	608.5	608.5	608.5	617.6	626.6	631.2	640.3	649.4	667.5	717.5	749.3
77.5°	485.9	481.3	490.4	495.0	499.5	508.6	513.1	522.2	531.3	549.5	572.2
80°	367.8	363.3	367.8	376.9	381.4	390.5	390.5	404.1	408.7	422.3	431.4
82.5°	258.8	254.3	258.8	267.9	267.9	277.0	281.5	290.6	299.7	308.8	317.9
85°	154.4	154.4	158.9	163.5	168.0	177.1	181.6	195.3	204.3	213.4	218.0
87.5°	68.1	68.1	72.7	77.2	86.3	95.4	99.9	109.0	118.1	131.7	131.7
90°	0.0	4.5	13.6	22.7	27.2	36.3	36.3	50.0	54.5	63.6	68.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	9.1	13.6	18.2
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°	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0
2.5°	4540.9	4513.7	4531.8	4536.4	4540.9	4531.8	4522.8	4531.8	4522.8	4522.8
5°	4722.6	4718.0	4763.4	4795.2	4808.8	4808.8	4836.1	4854.2	4858.8	4849.7
7.5°	5008.6	5035.9	5126.7	5190.3	5226.6	5244.8	5294.7	5322.0	5358.3	5353.7
10°	5385.5	5471.8	5608.0	5698.9	5762.4	5794.2	5866.9	5916.8	5975.8	5971.3
12.5°	5798.8	5957.7	6148.4	6293.7	6389.1	6448.1	6543.5	6634.3	6688.8	6693.3
15°	6266.5	6484.4	6743.3	6929.4	7052.0	7129.2	7260.9	7351.7	7442.6	7433.5
17.5°	6725.1	6988.5	7301.8	7547.0	7660.5	7733.2	7892.1	7987.5	8073.8	8073.8
20°	7133.8	7438.0	7755.9	7982.9	8091.9	8164.6	8300.8	8396.2	8459.7	8482.4
22.5°	7460.7	7742.3	8010.2	8205.4	8273.6	8332.6	8437.0	8514.2	8555.1	8591.4
25°	7642.4	7869.4	8051.0	8187.3	8223.6	8255.4	8314.4	8373.5	8382.5	8432.5
27.5°	7646.9	7814.9	7914.8	7964.8	7969.3	7969.3	8010.2	8032.9	8051.0	8069.2
30°	7483.4	7560.6	7578.8	7583.3	7560.6	7547.0	7574.2	7578.8	7592.4	7592.4
32.5°	7156.5	7174.6	7142.9	7092.9	7079.3	7052.0	7070.2	7061.1	7083.8	7097.5
35°	6738.7	6706.9	6625.2	6588.9	6538.9	6525.3	6538.9	6529.8	6543.5	6575.2
37.5°	6261.9	6193.8	6125.7	6062.1	6025.8	5989.5	6003.1	6016.7	6034.9	6044.0
40°	5771.5	5680.7	5608.0	5544.5	5508.1	5480.9	5503.6	5517.2	5558.1	5558.1
42.5°	5276.5	5176.6	5104.0	5063.1	5035.9	5013.2	5049.5	5058.6	5108.5	5117.6
45°	4786.1	4699.8	4640.8	4599.9	4577.2	4586.3	4622.7	4645.4	4690.8	4713.5
47.5°	4336.6	4263.9	4200.3	4182.2	4182.2	4191.3	4227.6	4250.3	4286.6	4313.9
50°	3896.1	3841.6	3800.7	3778.0	3782.6	3796.2	3828.0	3846.2	3882.5	3882.5
52.5°	3464.7	3428.4	3410.2	3383.0	3383.0	3378.4	3410.2	3428.4	3455.6	3460.2
55°	3087.8	3056.0	3037.9	3019.7	3015.2	3024.3	3042.4	3056.0	3087.8	3092.4
57.5°	2729.1	2715.5	2701.8	2688.2	2683.7	2688.2	2697.3	2706.4	2724.6	2729.1
60°	2402.1	2397.6	2379.4	2365.8	2361.3	2356.7	2352.2	2347.7	2356.7	2352.2
62.5°	2102.4	2088.8	2075.2	2048.0	2034.3	1998.0	1952.6	1852.7	1771.0	1725.5
65°	1807.3	1798.2	1734.6	1548.5	1434.9	1289.6	1135.2	985.4	935.4	903.6
67.5°	1521.2	1371.4	1144.3	980.8	921.8	867.3	785.6	703.8	658.4	631.2
70°	1094.4	967.2	862.8	772.0	731.1	699.3	635.7	576.7	535.8	517.7
72.5°	885.5	803.7	735.6	667.5	635.7	599.4	535.8	476.8	440.5	422.3
75°	740.2	690.2	622.1	558.5	531.3	504.0	458.6	413.2	381.4	367.8
77.5°	585.8	558.5	517.7	467.7	445.0	426.8	386.0	354.2	322.4	308.8
80°	431.4	422.3	395.1	358.7	340.6	326.9	295.2	267.9	240.7	231.6
82.5°	317.9	308.8	286.1	258.8	249.8	236.1	213.4	190.7	172.6	163.5
85°	218.0	213.4	195.3	177.1	168.0	158.9	136.2	118.1	104.4	95.4
87.5°	136.2	131.7	122.6	104.4	95.4	86.3	68.1	54.5	40.9	36.3
90°	68.1	68.1	63.6	50.0	45.4	40.9	27.2	13.6	4.5	0.0
92.5°	18.2	18.2	18.2	13.6	13.6	9.1	4.5	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: P256927

CATALOG NUMBER: HGL-S-BA-80L930-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)