

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: P256932

Luminaire Tested: **HGL-S-BA-80L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256932
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-80L940-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

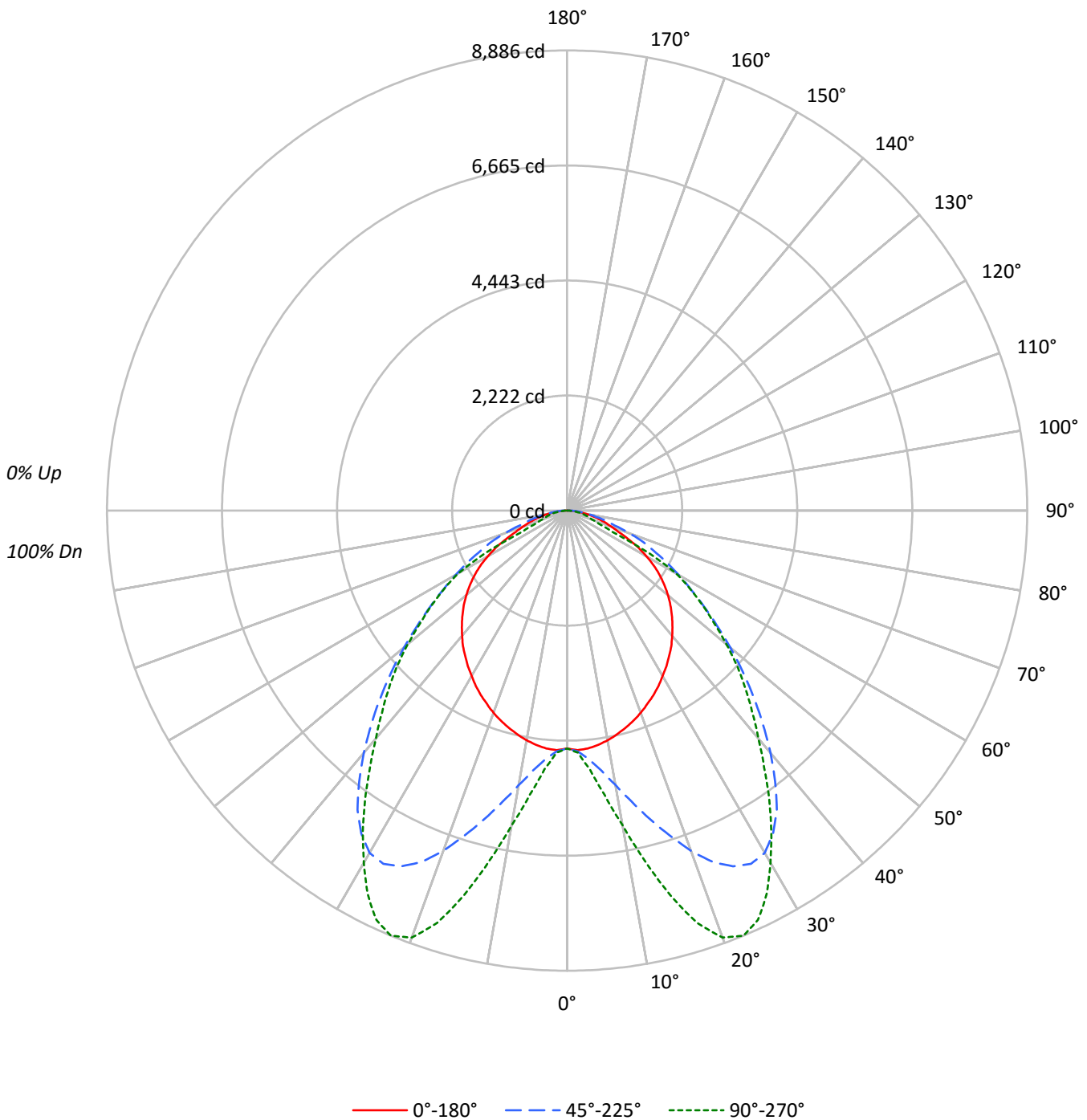
Lumens per Lamp: N/A
Luminaire Lumens: 17942.3 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

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	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°	17979	17979	17979
5°	18120	18863	19633
10°	17899	21274	24359
15°	17601	24761	30795
20°	17308	28781	35973
25°	16991	32265	36916
30°	16655	33879	34619
35°	16395	33003	31532
40°	16115	30418	28336
45°	15819	27322	25857
50°	15457	24120	23244
55°	14885	21042	20546
60°	13878	18480	17706
65°	12028	16015	7915
70°	10349	13507	5471
75°	9487	10488	4947
80°	8534	8535	4328
85°	7104	7446	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.0	2.7
10°-20°	1736.9	9.7
20°-30°	3143.7	17.5
30°-40°	3772.7	21.0
40°-50°	3574.0	19.9
50°-60°	2800.3	15.6
60°-70°	1562.9	8.7
70°-80°	662.3	3.7
80°-90°	206.0	1.1
90°-100°	7.4	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°	5356.6	29.9
0°-40°	9129.3	50.9
0°-60°	15503.6	86.4
0°-90°	17934.8	100.0
90°-120°	7.4	0.0
90°-150°	7.4	0.0
90°-180°	7.0	0.0
0°-180°	17942.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4593	4593	4593	4593	4593	
5°	4612	4631	4814	4974	5016	436
15°	4344	4866	6162	7294	7688	1225
25°	3936	5171	7580	8506	8722	1813
35°	3433	5288	7059	6763	6801	2148
45°	2860	4842	5091	4734	4875	2205
55°	2184	3518	3222	3119	3198	1945
65°	1301	1625	1846	1484	935	1300
75°	629	653	775	550	380	670
85°	160	183	225	174	99	178
90°	0	38	70	47	0	10
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°	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3
2.5°	4630.9	4626.2	4612.1	4593.3	4598.0	4602.7	4602.7	4607.4	4612.1	4626.2	4654.3
5°	4612.1	4602.7	4598.0	4593.3	4616.8	4630.9	4645.0	4673.1	4706.0	4757.7	4814.0
7.5°	4565.1	4565.1	4574.5	4593.3	4645.0	4677.8	4706.0	4776.5	4856.3	4954.9	5063.0
10°	4504.1	4513.4	4541.6	4583.9	4677.8	4729.5	4785.9	4903.3	5039.5	5203.8	5382.3
12.5°	4428.9	4447.7	4494.7	4574.5	4715.4	4795.2	4879.8	5058.3	5260.2	5495.0	5758.0
15°	4344.4	4367.9	4443.0	4560.4	4753.0	4865.7	4983.1	5227.3	5504.4	5819.1	6162.0
17.5°	4255.1	4288.0	4391.3	4555.7	4804.6	4945.5	5095.8	5415.2	5772.1	6152.6	6575.3
20°	4156.5	4203.5	4335.0	4546.3	4851.6	5025.4	5208.5	5607.8	6044.5	6495.4	6988.6
22.5°	4043.8	4104.8	4269.2	4527.5	4898.6	5105.2	5321.3	5786.2	6293.5	6805.4	7340.8
25°	3935.8	4001.5	4194.1	4504.1	4936.1	5171.0	5419.9	5950.6	6518.9	7059.0	7580.3
27.5°	3818.3	3893.5	4123.6	4480.6	4964.3	5227.3	5504.4	6086.8	6683.3	7218.7	7688.4
30°	3686.8	3785.5	4043.8	4443.0	4978.4	5269.6	5570.2	6194.8	6786.6	7256.3	7632.0
32.5°	3564.7	3672.8	3954.5	4400.7	4983.1	5293.1	5612.5	6227.7	6786.6	7171.7	7397.2
35°	3433.2	3550.6	3865.3	4349.1	4964.3	5288.4	5607.8	6218.3	6688.0	6951.0	7059.0
37.5°	3301.7	3428.5	3771.4	4278.6	4922.1	5255.5	5574.9	6124.4	6486.0	6626.9	6598.7
40°	3156.1	3297.0	3649.3	4189.4	4846.9	5171.0	5476.3	5960.0	6190.1	6213.6	6110.3
42.5°	3010.5	3156.1	3527.2	4072.0	4720.1	5030.1	5311.9	5697.0	5805.0	5753.4	5593.7
45°	2860.2	3010.5	3381.6	3931.1	4560.4	4842.2	5077.0	5354.1	5354.1	5260.2	5091.1
47.5°	2705.3	2850.8	3226.6	3766.7	4353.8	4598.0	4790.5	4954.9	4879.8	4762.4	4593.3
50°	2540.9	2686.5	3052.8	3569.4	4086.1	4288.0	4447.7	4508.8	4391.3	4259.8	4109.5
52.5°	2367.1	2512.7	2846.1	3320.5	3771.4	3921.7	4039.1	4034.4	3893.5	3776.1	3644.6
55°	2183.9	2315.4	2616.0	3024.6	3395.7	3517.8	3588.2	3531.9	3400.3	3292.3	3221.9
57.5°	1991.4	2099.4	2357.7	2691.2	2968.3	3062.2	3104.5	3029.3	2935.4	2869.6	2832.1
60°	1775.3	1864.6	2047.7	2306.0	2508.0	2573.7	2601.9	2550.3	2517.4	2498.6	2489.2
62.5°	1549.9	1592.2	1709.6	1878.6	2047.7	2094.7	2127.6	2137.0	2132.3	2141.7	2165.1
65°	1301.0	1315.1	1352.6	1437.2	1568.7	1625.0	1686.1	1751.8	1789.4	1827.0	1845.8
67.5°	1070.8	1075.5	1094.3	1122.5	1174.2	1235.2	1286.9	1385.5	1470.0	1540.5	1587.5
70°	906.4	901.8	906.4	920.5	948.7	972.2	995.7	1066.1	1155.4	1272.8	1282.2
72.5°	765.5	760.9	765.5	774.9	784.3	793.7	807.8	836.0	887.7	958.1	972.2
75°	629.3	629.3	629.3	638.7	648.1	652.8	662.2	671.6	690.4	742.1	774.9
77.5°	502.5	497.8	507.2	511.9	516.6	526.0	530.7	540.1	549.5	568.3	591.8
80°	380.4	375.7	380.4	389.8	394.5	403.9	403.9	418.0	422.7	436.8	446.2
82.5°	267.7	263.0	267.7	277.1	277.1	286.5	291.2	300.6	310.0	319.4	328.8
85°	159.7	159.7	164.4	169.1	173.8	183.2	187.9	202.0	211.3	220.7	225.4
87.5°	70.4	70.4	75.1	79.8	89.2	98.6	103.3	112.7	122.1	136.2	136.2
90°	0.0	4.7	14.1	23.5	28.2	37.6	37.6	51.7	56.4	65.8	70.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	9.4	14.1	18.8
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°	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3
2.5°	4696.6	4668.4	4687.2	4691.9	4696.6	4687.2	4677.8	4687.2	4677.8	4677.8
5°	4884.5	4879.8	4926.7	4959.6	4973.7	4973.7	5001.9	5020.7	5025.4	5016.0
7.5°	5180.4	5208.5	5302.5	5368.2	5405.8	5424.6	5476.3	5504.4	5542.0	5537.3
10°	5570.2	5659.4	5800.3	5894.3	5960.0	5992.9	6068.0	6119.7	6180.7	6176.0
12.5°	5997.6	6162.0	6359.2	6509.5	6608.1	6669.2	6767.8	6861.8	6918.1	6922.8
15°	6481.3	6706.8	6974.5	7167.0	7293.8	7373.7	7509.9	7603.8	7697.8	7688.4
17.5°	6955.7	7228.1	7552.2	7805.8	7923.2	7998.3	8162.7	8261.3	8350.6	8350.6
20°	7378.4	7693.1	8021.8	8256.6	8369.4	8444.5	8585.4	8684.0	8749.8	8773.3
22.5°	7716.5	8007.7	8284.8	8486.8	8557.2	8618.3	8726.3	8806.2	8848.4	8886.0
25°	7904.4	8139.2	8327.1	8468.0	8505.6	8538.4	8599.5	8660.6	8670.0	8721.6
27.5°	7909.1	8082.9	8186.2	8237.9	8242.6	8242.6	8284.8	8308.3	8327.1	8345.9
30°	7740.0	7819.9	7838.7	7843.3	7819.9	7805.8	7834.0	7838.7	7852.7	7852.7
32.5°	7401.9	7420.7	7387.8	7336.1	7322.0	7293.8	7312.6	7303.2	7326.7	7340.8
35°	6969.8	6936.9	6852.4	6814.8	6763.1	6749.0	6763.1	6753.7	6767.8	6800.7
37.5°	6476.6	6406.2	6335.7	6270.0	6232.4	6194.8	6208.9	6223.0	6241.8	6251.2
40°	5969.4	5875.5	5800.3	5734.6	5697.0	5668.8	5692.3	5706.4	5748.7	5748.7
42.5°	5457.5	5354.1	5279.0	5236.7	5208.5	5185.1	5222.6	5232.0	5283.7	5293.1
45°	4950.2	4861.0	4799.9	4757.7	4734.2	4743.6	4781.2	4804.6	4851.6	4875.1
47.5°	4485.3	4410.1	4344.4	4325.6	4325.6	4335.0	4372.5	4396.0	4433.6	4461.8
50°	4029.7	3973.3	3931.1	3907.6	3912.3	3926.4	3959.2	3978.0	4015.6	4015.6
52.5°	3583.5	3545.9	3527.2	3499.0	3499.0	3494.3	3527.2	3545.9	3574.1	3578.8
55°	3193.7	3160.8	3142.0	3123.2	3118.6	3127.9	3146.7	3160.8	3193.7	3198.4
57.5°	2822.7	2808.6	2794.5	2780.4	2775.7	2780.4	2789.8	2799.2	2818.0	2822.7
60°	2484.5	2479.8	2461.0	2446.9	2442.2	2437.5	2432.8	2428.1	2437.5	2432.8
62.5°	2174.5	2160.4	2146.4	2118.2	2104.1	2066.5	2019.5	1916.2	1831.7	1784.7
65°	1869.3	1859.9	1794.1	1601.5	1484.1	1333.8	1174.2	1019.2	967.5	934.6
67.5°	1573.4	1418.4	1183.5	1014.5	953.4	897.1	812.5	728.0	681.0	652.8
70°	1131.9	1000.4	892.4	798.4	756.2	723.3	657.5	596.5	554.2	535.4
72.5°	915.8	831.3	760.9	690.4	657.5	620.0	554.2	493.1	455.6	436.8
75°	765.5	713.9	643.4	577.7	549.5	521.3	474.4	427.4	394.5	380.4
77.5°	605.9	577.7	535.4	483.8	460.3	441.5	399.2	366.3	333.5	319.4
80°	446.2	436.8	408.6	371.0	352.2	338.2	305.3	277.1	248.9	239.5
82.5°	328.8	319.4	295.9	267.7	258.3	244.2	220.7	197.3	178.5	169.1
85°	225.4	220.7	202.0	183.2	173.8	164.4	140.9	122.1	108.0	98.6
87.5°	140.9	136.2	126.8	108.0	98.6	89.2	70.4	56.4	42.3	37.6
90°	70.4	70.4	65.8	51.7	47.0	42.3	28.2	14.1	4.7	0.0
92.5°	18.8	18.8	18.8	14.1	14.1	9.4	4.7	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: P256932

CATALOG NUMBER: HGL-S-BA-80L940-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)