

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: P257111

Luminaire Tested: **HGL-S-UF-60L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: HGL-S-UF-60L840-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (504) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

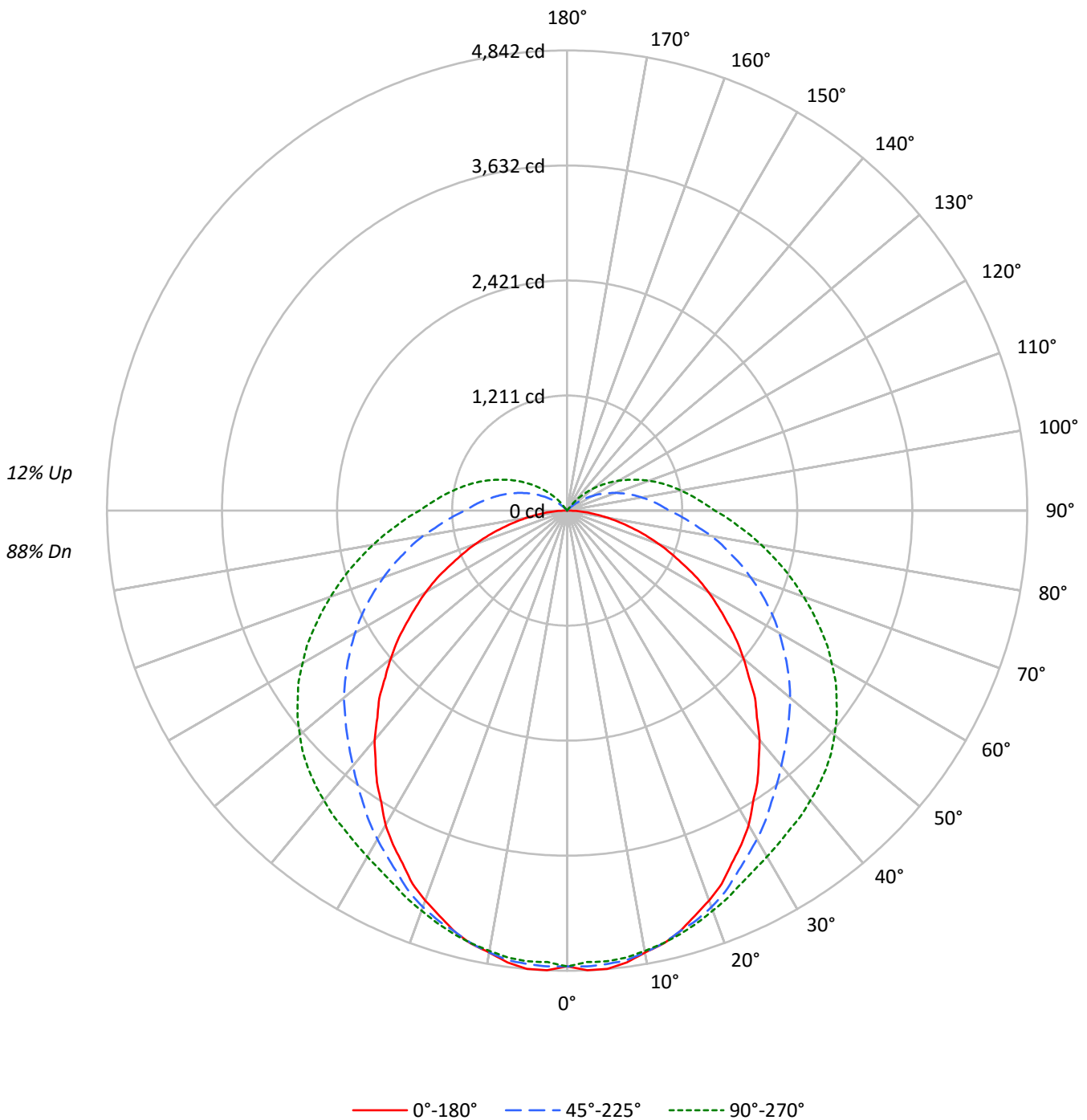
Lumens per Lamp: N/A  
Luminaire Lumens: 18518.8 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 142  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	103	97	92	87	99	94	89	85	87	84	80	81	78	75	76	73	71	68
2	93	84	76	69	89	81	73	67	75	69	64	70	65	61	65	61	58	55
3	84	73	64	56	81	70	62	55	65	58	53	61	55	50	57	52	48	45
4	77	64	54	47	73	62	53	46	58	50	44	54	48	42	50	45	41	38
5	70	57	47	40	67	55	46	39	51	44	38	48	42	36	45	39	35	32
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	34	29	39	33	28	37	31	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18771	18771	18771
5°	19008	18296	17992
10°	18735	17740	17309
15°	18531	17075	16661
20°	18128	16526	16014
25°	17621	15799	15435
30°	17186	15179	15056
35°	16572	14564	14828
40°	15985	14054	14729
45°	15344	13689	14653
50°	14607	13425	14506
55°	13903	13133	14320
60°	13257	12878	14079
65°	12295	12624	13785
70°	11464	12390	13470
75°	10323	12164	13240
80°	9109	12157	13067
85°	7726	12204	13041



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.2	2.5
10°-20°	1291.6	7.0
20°-30°	1938.0	10.5
30°-40°	2352.9	12.7
40°-50°	2541.4	13.7
50°-60°	2489.0	13.4
60°-70°	2207.8	11.9
70°-80°	1768.4	9.5
80°-90°	1281.7	6.9
90°-100°	903.3	4.9
100°-110°	630.1	3.4
110°-120°	390.1	2.1
120°-130°	198.4	1.1
130°-140°	68.7	0.4
140°-150°	3.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3683.8	19.9
0°-40°	6036.7	32.6
0°-60°	11067.2	59.8
0°-90°	16325.0	88.2
90°-120°	1923.5	10.4
90°-150°	2193.8	11.8
90°-180°	2194.0	11.8
0°-180°	18518.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4796	4796	4796	4796	4796	
5°	4842	4796	4790	4767	4761	458
15°	4584	4549	4584	4624	4612	1289
25°	4097	4108	4217	4286	4332	1891
35°	3489	3512	3747	3971	4091	2179
45°	2796	2870	3283	3690	3850	2148
55°	2063	2234	2825	3289	3461	1849
65°	1352	1673	2320	2767	2939	1350
75°	705	1152	1788	2217	2361	753
85°	189	705	1289	1673	1799	204
90°	6	516	1071	1427	1553	14
95°	0	407	934	1266	1375	0
105°	0	218	670	968	1066	0
115°	0	69	424	682	768	0
125°	0	0	206	418	493	0
135°	0	0	34	183	241	3
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°	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6
2.5°	4841.5	4835.7	4818.5	4801.4	4795.6	4795.6	4789.9	4784.2	4784.2	4778.4	4801.4
5°	4841.5	4835.7	4818.5	4795.6	4789.9	4795.6	4789.9	4778.4	4778.4	4772.7	4789.9
7.5°	4795.6	4784.2	4772.7	4755.5	4749.8	4749.8	4744.1	4744.1	4744.1	4744.1	4772.7
10°	4721.1	4715.4	4704.0	4686.8	4686.8	4681.0	4681.0	4686.8	4686.8	4692.5	4721.1
12.5°	4669.6	4658.1	4640.9	4623.7	4618.0	4618.0	4612.3	4606.6	4612.3	4618.0	4663.8
15°	4583.6	4577.9	4566.4	4549.3	4549.3	4549.3	4549.3	4543.5	4543.5	4549.3	4583.6
17.5°	4469.0	4457.6	4451.9	4440.4	4446.1	4451.9	4457.6	4451.9	4463.3	4480.5	4520.6
20°	4365.9	4354.5	4343.0	4325.8	4325.8	4331.5	4337.3	4337.3	4365.9	4388.8	4440.4
22.5°	4251.3	4245.6	4234.1	4228.4	4228.4	4234.1	4234.1	4222.7	4239.9	4274.2	4343.0
25°	4096.6	4090.9	4085.2	4085.2	4096.6	4108.1	4113.8	4119.5	4136.7	4159.6	4216.9
27.5°	3964.8	3959.1	3947.7	3936.2	3947.7	3959.1	3964.8	3976.3	4010.7	4056.5	4102.4
30°	3821.6	3815.9	3810.1	3810.1	3821.6	3827.3	3833.1	3827.3	3873.2	3941.9	3993.5
32.5°	3638.3	3632.5	3638.3	3638.3	3666.9	3684.1	3695.6	3701.3	3741.4	3804.4	3878.9
35°	3489.3	3489.3	3483.6	3495.0	3500.8	3512.2	3523.7	3552.3	3609.6	3672.6	3747.1
37.5°	3311.7	3311.7	3311.7	3340.3	3363.2	3369.0	3374.7	3409.1	3483.6	3546.6	3626.8
40°	3151.2	3151.2	3151.2	3162.7	3179.9	3197.1	3220.0	3260.1	3334.6	3426.3	3506.5
42.5°	2956.4	2962.2	2973.6	3002.3	3025.2	3036.7	3053.8	3116.9	3197.1	3305.9	3391.9
45°	2796.0	2790.3	2801.7	2824.7	2847.6	2870.5	2899.1	2967.9	3065.3	3185.6	3283.0
47.5°	2595.5	2601.2	2612.7	2652.8	2681.4	2710.1	2744.5	2824.7	2939.3	3059.6	3168.4
50°	2423.6	2429.3	2458.0	2480.9	2509.5	2543.9	2584.0	2687.2	2813.2	2933.5	3065.3
52.5°	2251.7	2257.4	2280.4	2297.5	2343.4	2383.5	2435.1	2549.6	2681.4	2813.2	2945.0
55°	2062.6	2074.1	2091.3	2131.4	2188.7	2234.5	2291.8	2417.9	2549.6	2692.9	2824.7
57.5°	1885.0	1890.7	1919.4	1959.5	2028.3	2085.6	2154.3	2286.1	2429.3	2566.8	2698.6
60°	1718.9	1730.3	1747.5	1799.1	1890.7	1948.0	2016.8	2154.3	2303.3	2440.8	2578.3
62.5°	1547.0	1558.4	1581.4	1638.6	1747.5	1810.5	1885.0	2028.3	2177.2	2314.7	2452.2
65°	1352.2	1363.6	1398.0	1472.5	1604.3	1673.0	1747.5	1896.5	2039.7	2183.0	2320.5
67.5°	1186.0	1191.7	1237.6	1317.8	1455.3	1541.2	1621.5	1764.7	1907.9	2051.2	2188.7
70°	1025.6	1037.0	1071.4	1180.3	1329.3	1398.0	1484.0	1638.6	1781.9	1925.1	2056.9
72.5°	865.2	876.6	928.2	1048.5	1203.2	1277.7	1346.4	1512.6	1655.8	1793.3	1925.1
75°	704.7	721.9	790.7	928.2	1077.2	1151.6	1226.1	1375.1	1529.8	1661.6	1787.6
77.5°	561.5	578.7	664.6	807.9	956.8	1031.3	1105.8	1249.0	1392.3	1535.5	1667.3
80°	424.0	446.9	550.0	693.3	842.2	916.7	985.5	1134.4	1272.0	1403.7	1541.2
82.5°	303.7	332.3	452.6	590.1	739.1	807.9	876.6	1019.9	1157.4	1283.4	1403.7
85°	189.1	240.6	361.0	492.7	636.0	704.7	773.5	916.7	1048.5	1174.6	1289.1
87.5°	91.7	160.4	275.0	401.1	538.6	607.3	676.1	813.6	939.6	1065.7	1180.3
90°	5.7	91.7	194.8	315.1	452.6	515.7	584.4	716.2	842.2	962.6	1071.4
92.5°	0.0	57.3	154.7	269.3	395.3	464.1	527.1	658.9	779.2	899.5	1002.7
95°	0.0	28.6	120.3	229.2	349.5	406.8	469.8	595.9	716.2	830.8	933.9
97.5°	0.0	5.7	85.9	183.3	297.9	361.0	418.3	538.6	658.9	767.8	865.2
100°	0.0	0.0	57.3	149.0	252.1	309.4	366.7	481.3	595.9	699.0	796.4
102.5°	0.0	0.0	28.6	114.6	212.0	263.6	315.1	429.7	538.6	641.7	733.4
105°	0.0	0.0	5.7	80.2	171.9	217.7	269.3	372.4	481.3	578.7	670.4
107.5°	0.0	0.0	0.0	45.8	131.8	177.6	223.5	320.9	424.0	515.7	601.6
110°	0.0	0.0	0.0	22.9	97.4	137.5	183.3	275.0	366.7	458.4	544.3



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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	5.7	63.0	103.1	143.2	229.2	315.1	401.1	481.3
115°	0.0	0.0	0.0	0.0	34.4	68.8	103.1	183.3	263.6	349.5	424.0
117.5°	0.0	0.0	0.0	0.0	11.5	40.1	68.8	143.2	217.7	292.2	366.7
120°	0.0	0.0	0.0	0.0	0.0	17.2	40.1	103.1	171.9	240.6	309.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.5	63.0	126.0	194.8	257.8
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	85.9	149.0	206.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	51.6	103.1	154.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	63.0	108.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	34.4	68.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	34.4
137.5°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
140°	5.7	5.7	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°	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6	4795.6
2.5°	4818.5	4795.6	4795.6	4789.9	4784.2	4778.4	4767.0	4761.3	4749.8	4755.5
5°	4807.1	4784.2	4784.2	4772.7	4767.0	4767.0	4761.3	4761.3	4755.5	4761.3
7.5°	4789.9	4761.3	4761.3	4749.8	4744.1	4738.3	4738.3	4738.3	4738.3	4744.1
10°	4744.1	4726.9	4726.9	4721.1	4715.4	4704.0	4698.2	4704.0	4698.2	4704.0
12.5°	4681.0	4663.8	4675.3	4675.3	4675.3	4663.8	4658.1	4663.8	4658.1	4663.8
15°	4600.8	4595.1	4612.3	4618.0	4623.7	4618.0	4612.3	4612.3	4612.3	4612.3
17.5°	4520.6	4514.9	4537.8	4549.3	4549.3	4549.3	4549.3	4543.5	4543.5	4549.3
20°	4451.9	4428.9	4440.4	4463.3	4469.0	4469.0	4474.8	4480.5	4480.5	4480.5
22.5°	4354.5	4343.0	4348.7	4365.9	4377.4	4383.1	4400.3	4400.3	4406.0	4411.7
25°	4239.9	4257.1	4262.8	4280.0	4285.7	4297.2	4320.1	4331.5	4331.5	4331.5
27.5°	4119.5	4153.9	4176.8	4188.3	4199.8	4211.2	4239.9	4262.8	4262.8	4262.8
30°	4005.0	4039.3	4085.2	4108.1	4119.5	4131.0	4171.1	4199.8	4205.5	4205.5
32.5°	3884.6	3930.5	3999.2	4033.6	4039.3	4056.5	4108.1	4142.5	4148.2	4148.2
35°	3781.5	3838.8	3913.3	3959.1	3970.6	3987.8	4045.1	4085.2	4090.9	4090.9
37.5°	3689.8	3747.1	3827.3	3890.4	3901.8	3924.7	3982.0	4033.6	4039.3	4045.1
40°	3586.7	3655.4	3735.7	3810.1	3833.1	3856.0	3919.0	3970.6	3982.0	3982.0
42.5°	3483.6	3569.5	3649.7	3735.7	3764.3	3787.2	3856.0	3907.5	3919.0	3919.0
45°	3374.7	3483.6	3563.8	3655.4	3689.8	3712.7	3775.8	3833.1	3850.3	3850.3
47.5°	3277.3	3391.9	3472.1	3563.8	3598.2	3632.5	3689.8	3747.1	3764.3	3770.0
50°	3168.4	3294.5	3374.7	3460.6	3506.5	3540.9	3598.2	3661.2	3678.4	3672.6
52.5°	3059.6	3179.9	3265.8	3357.5	3403.3	3437.7	3489.3	3558.0	3575.2	3575.2
55°	2945.0	3065.3	3157.0	3242.9	3288.8	3334.6	3386.2	3443.5	3466.4	3460.6
57.5°	2830.4	2939.3	3036.7	3128.3	3168.4	3214.3	3265.8	3323.1	3340.3	3351.8
60°	2710.1	2807.5	2916.3	3002.3	3042.4	3088.2	3139.8	3191.4	3220.0	3214.3
62.5°	2578.3	2687.2	2790.3	2870.5	2910.6	2956.4	3008.0	3053.8	3076.8	3088.2
65°	2446.5	2549.6	2647.0	2733.0	2767.4	2813.2	2870.5	2904.9	2933.5	2939.3
67.5°	2309.0	2412.1	2509.5	2601.2	2635.6	2675.7	2727.3	2761.6	2790.3	2796.0
70°	2171.5	2280.4	2377.8	2463.7	2498.1	2532.5	2584.0	2618.4	2647.0	2647.0
72.5°	2039.7	2148.6	2240.3	2326.2	2360.6	2389.2	2440.8	2475.2	2498.1	2503.8
75°	1907.9	2011.1	2102.7	2188.7	2217.3	2251.7	2297.5	2331.9	2354.8	2360.6
77.5°	1776.2	1885.0	1971.0	2051.2	2079.8	2108.5	2160.0	2188.7	2211.6	2211.6
80°	1650.1	1753.2	1839.2	1913.7	1936.6	1971.0	2016.8	2045.4	2062.6	2074.1
82.5°	1529.8	1627.2	1707.4	1776.2	1810.5	1833.5	1879.3	1907.9	1925.1	1936.6
85°	1398.0	1501.1	1581.4	1650.1	1673.0	1707.4	1747.5	1776.2	1793.3	1799.1
87.5°	1277.7	1369.4	1449.6	1529.8	1558.4	1581.4	1621.5	1650.1	1667.3	1678.8
90°	1174.6	1260.5	1335.0	1398.0	1426.7	1455.3	1501.1	1529.8	1547.0	1552.7
92.5°	1100.1	1186.0	1254.8	1317.8	1346.4	1369.4	1409.5	1438.1	1455.3	1461.0
95°	1031.3	1111.5	1180.3	1243.3	1266.2	1289.1	1329.3	1352.2	1363.6	1375.1
97.5°	956.8	1042.8	1105.8	1163.1	1191.7	1208.9	1249.0	1272.0	1289.1	1294.9
100°	888.1	968.3	1031.3	1094.3	1117.3	1134.4	1174.6	1197.5	1208.9	1214.7
102.5°	819.3	899.5	962.6	1019.9	1042.8	1060.0	1094.3	1117.3	1134.4	1140.2
105°	750.6	825.1	888.1	945.4	968.3	985.5	1019.9	1042.8	1060.0	1065.7
107.5°	687.5	756.3	819.3	870.9	893.8	911.0	945.4	968.3	985.5	991.2
110°	624.5	687.5	750.6	802.1	825.1	842.2	876.6	893.8	911.0	916.7





TEST NUMBER: P257111

CATALOG NUMBER: HGL-S-UF-60L840-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	555.8	624.5	681.8	733.4	750.6	773.5	802.1	825.1	836.5	842.2
115°	498.5	561.5	613.1	664.6	681.8	699.0	733.4	750.6	767.8	767.8
117.5°	435.4	492.7	550.0	595.9	613.1	630.2	664.6	681.8	693.3	699.0
120°	378.1	429.7	481.3	527.1	550.0	561.5	595.9	613.1	624.5	630.2
122.5°	320.9	372.4	424.0	464.1	481.3	498.5	527.1	544.3	555.8	561.5
125°	263.6	315.1	361.0	401.1	418.3	435.4	458.4	475.6	487.0	492.7
127.5°	212.0	257.8	303.7	338.0	355.2	372.4	395.3	412.5	424.0	429.7
130°	160.4	200.5	246.4	280.7	297.9	309.4	332.3	349.5	361.0	366.7
132.5°	108.9	149.0	189.1	223.5	240.6	252.1	275.0	286.5	297.9	303.7
135°	68.8	103.1	137.5	166.2	183.3	194.8	217.7	229.2	240.6	240.6
137.5°	34.4	63.0	91.7	114.6	126.0	143.2	160.4	171.9	177.6	183.3
140°	11.5	28.6	51.6	68.8	80.2	91.7	108.9	120.3	126.0	131.8
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)