

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: P257086

Luminaire Tested: **HGL-S-UF-60L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257086  
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-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12345.9 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct

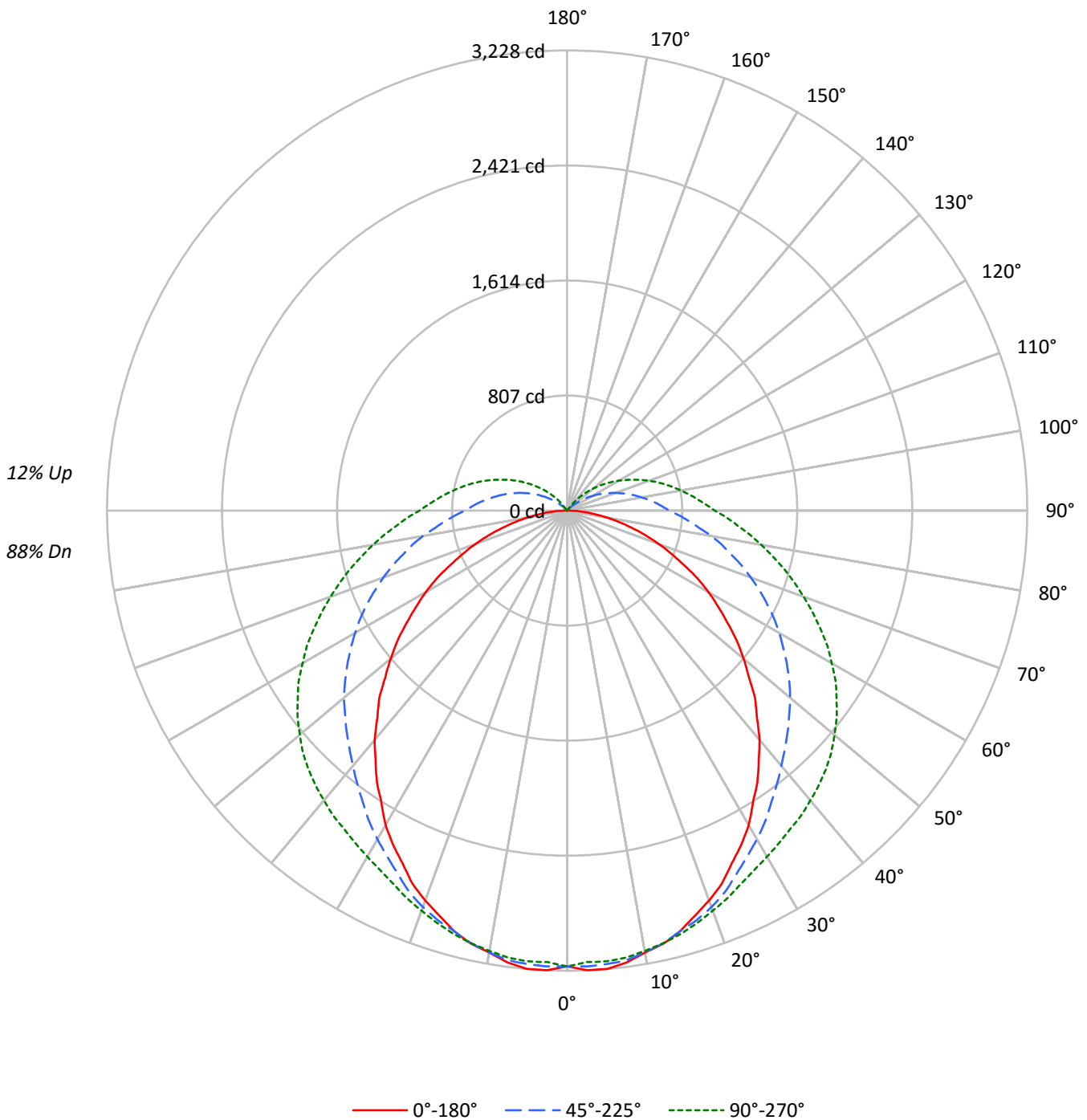
Input Watts (W): 94.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									70									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	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°	19001	18291	17992
10°	18721	17731	17309
15°	18510	17063	16661
20°	18100	16509	16014
25°	17586	15779	15435
30°	17143	15156	15056
35°	16522	14539	14828
40°	15927	14026	14729
45°	15278	13658	14652
50°	14532	13390	14506
55°	13819	13093	14320
60°	13159	12834	14078
65°	12183	12575	13785
70°	11331	12335	13471
75°	10163	12101	13239
80°	8901	12084	13067
85°	7388	12114	13041



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.8	2.5
10°-20°	861.1	7.0
20°-30°	1292.0	10.5
30°-40°	1568.6	12.7
40°-50°	1694.3	13.7
50°-60°	1659.4	13.4
60°-70°	1471.8	11.9
70°-80°	1179.0	9.5
80°-90°	854.4	6.9
90°-100°	602.2	4.9
100°-110°	420.1	3.4
110°-120°	260.1	2.1
120°-130°	132.3	1.1
130°-140°	45.8	0.4
140°-150°	2.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2455.8	19.9
0°-40°	4024.5	32.6
0°-60°	7378.1	59.8
0°-90°	10883.4	88.2
90°-120°	1282.3	10.4
90°-150°	1462.5	11.8
90°-180°	1463.0	11.9
0°-180°	12345.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3197	3197	3197	3197	3197	
5°	3228	3197	3193	3178	3174	305
15°	3056	3033	3056	3082	3075	859
25°	2731	2739	2811	2857	2888	1261
35°	2326	2342	2498	2647	2727	1453
45°	1864	1914	2189	2460	2567	1432
55°	1375	1490	1883	2192	2307	1233
65°	901	1115	1547	1845	1960	900
75°	470	768	1192	1478	1574	502
85°	126	470	859	1115	1199	136
90°	4	344	714	951	1035	9
95°	0	271	623	844	917	0
105°	0	145	447	646	710	0
115°	0	46	283	454	512	0
125°	0	0	138	279	328	0
135°	0	0	23	122	160	2
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



TEST NUMBER: P257086

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3227.6	3223.8	3212.4	3200.9	3197.1	3197.1	3193.3	3189.4	3189.4	3185.6	3200.9
5°	3227.6	3223.8	3212.4	3197.1	3193.3	3197.1	3193.3	3185.6	3185.6	3181.8	3193.3
7.5°	3197.1	3189.4	3181.8	3170.3	3166.5	3166.5	3162.7	3162.7	3162.7	3162.7	3181.8
10°	3147.4	3143.6	3136.0	3124.5	3124.5	3120.7	3120.7	3124.5	3124.5	3128.3	3147.4
12.5°	3113.1	3105.4	3094.0	3082.5	3078.7	3078.7	3074.9	3071.0	3074.9	3078.7	3109.2
15°	3055.8	3051.9	3044.3	3032.8	3032.8	3032.8	3032.8	3029.0	3029.0	3032.8	3055.8
17.5°	2979.4	2971.7	2967.9	2960.3	2964.1	2967.9	2971.7	2967.9	2975.5	2987.0	3013.7
20°	2910.6	2903.0	2895.3	2883.9	2883.9	2887.7	2891.5	2891.5	2910.6	2925.9	2960.3
22.5°	2834.2	2830.4	2822.8	2818.9	2818.9	2822.8	2822.8	2815.1	2826.6	2849.5	2895.3
25°	2731.1	2727.3	2723.4	2723.4	2731.1	2738.7	2742.5	2746.4	2757.8	2773.1	2811.3
27.5°	2643.2	2639.4	2631.8	2624.1	2631.8	2639.4	2643.2	2650.9	2673.8	2704.3	2734.9
30°	2547.7	2543.9	2540.1	2540.1	2547.7	2551.6	2555.4	2551.6	2582.1	2628.0	2662.3
32.5°	2425.5	2421.7	2425.5	2425.5	2444.6	2456.1	2463.7	2467.5	2494.3	2536.3	2585.9
35°	2326.2	2326.2	2322.4	2330.0	2333.8	2341.5	2349.1	2368.2	2406.4	2448.4	2498.1
37.5°	2207.8	2207.8	2207.8	2226.9	2242.2	2246.0	2249.8	2272.7	2322.4	2364.4	2417.9
40°	2100.8	2100.8	2100.8	2108.5	2119.9	2131.4	2146.7	2173.4	2223.1	2284.2	2337.7
42.5°	1971.0	1974.8	1982.4	2001.5	2016.8	2024.4	2035.9	2077.9	2131.4	2204.0	2261.3
45°	1864.0	1860.2	1867.8	1883.1	1898.4	1913.7	1932.8	1978.6	2043.5	2123.8	2188.7
47.5°	1730.3	1734.1	1741.8	1768.5	1787.6	1806.7	1829.6	1883.1	1959.5	2039.7	2112.3
50°	1615.7	1619.6	1638.6	1653.9	1673.0	1695.9	1722.7	1791.4	1875.5	1955.7	2043.5
52.5°	1501.1	1505.0	1520.2	1531.7	1562.3	1589.0	1623.4	1699.8	1787.6	1875.5	1963.3
55°	1375.1	1382.7	1394.2	1420.9	1459.1	1489.7	1527.9	1611.9	1699.8	1795.3	1883.1
57.5°	1256.7	1260.5	1279.6	1306.3	1352.2	1390.4	1436.2	1524.1	1619.6	1711.2	1799.1
60°	1145.9	1153.5	1165.0	1199.4	1260.5	1298.7	1344.5	1436.2	1535.5	1627.2	1718.9
62.5°	1031.3	1039.0	1054.2	1092.4	1165.0	1207.0	1256.7	1352.2	1451.5	1543.2	1634.8
65°	901.4	909.1	932.0	981.7	1069.5	1115.4	1165.0	1264.3	1359.8	1455.3	1547.0
67.5°	790.7	794.5	825.1	878.5	970.2	1027.5	1081.0	1176.5	1272.0	1367.5	1459.1
70°	683.7	691.4	714.3	786.9	886.2	932.0	989.3	1092.4	1187.9	1283.4	1371.3
72.5°	576.8	584.4	618.8	699.0	802.1	851.8	897.6	1008.4	1103.9	1195.6	1283.4
75°	469.8	481.3	527.1	618.8	718.1	767.8	817.4	916.7	1019.9	1107.7	1191.7
77.5°	374.3	385.8	443.1	538.6	637.9	687.5	737.2	832.7	928.2	1023.7	1111.5
80°	282.7	297.9	366.7	462.2	561.5	611.2	657.0	756.3	848.0	935.8	1027.5
82.5°	202.4	221.5	301.8	393.4	492.7	538.6	584.4	679.9	771.6	855.6	935.8
85°	126.0	160.4	240.6	328.5	424.0	469.8	515.7	611.2	699.0	783.0	859.4
87.5°	61.1	107.0	183.3	267.4	359.1	404.9	450.7	542.4	626.4	710.5	786.9
90°	3.8	61.1	129.9	210.1	301.8	343.8	389.6	477.5	561.5	641.7	714.3
92.5°	0.0	38.2	103.1	179.5	263.6	309.4	351.4	439.3	519.5	599.7	668.4
95°	0.0	19.1	80.2	152.8	233.0	271.2	313.2	397.2	477.5	553.9	622.6
97.5°	0.0	3.8	57.3	122.2	198.6	240.6	278.8	359.1	439.3	511.8	576.8
100°	0.0	0.0	38.2	99.3	168.1	206.3	244.5	320.9	397.2	466.0	530.9
102.5°	0.0	0.0	19.1	76.4	141.3	175.7	210.1	286.5	359.1	427.8	488.9
105°	0.0	0.0	3.8	53.5	114.6	145.1	179.5	248.3	320.9	385.8	446.9
107.5°	0.0	0.0	0.0	30.6	87.9	118.4	149.0	213.9	282.7	343.8	401.1
110°	0.0	0.0	0.0	15.3	64.9	91.7	122.2	183.3	244.5	305.6	362.9



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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	3.8	42.0	68.8	95.5	152.8	210.1	267.4	320.9
115°	0.0	0.0	0.0	0.0	22.9	45.8	68.8	122.2	175.7	233.0	282.7
117.5°	0.0	0.0	0.0	0.0	7.6	26.7	45.8	95.5	145.1	194.8	244.5
120°	0.0	0.0	0.0	0.0	0.0	11.5	26.7	68.8	114.6	160.4	206.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	42.0	84.0	129.9	171.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	57.3	99.3	137.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	34.4	68.8	103.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	42.0	72.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	22.9	45.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	22.9
137.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
140°	3.8	3.8	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°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3212.4	3197.1	3197.1	3193.3	3189.4	3185.6	3178.0	3174.2	3166.5	3170.3
5°	3204.7	3189.4	3189.4	3181.8	3178.0	3178.0	3174.2	3174.2	3170.3	3174.2
7.5°	3193.3	3174.2	3174.2	3166.5	3162.7	3158.9	3158.9	3158.9	3158.9	3162.7
10°	3162.7	3151.2	3151.2	3147.4	3143.6	3136.0	3132.2	3136.0	3132.2	3136.0
12.5°	3120.7	3109.2	3116.9	3116.9	3116.9	3109.2	3105.4	3109.2	3105.4	3109.2
15°	3067.2	3063.4	3074.9	3078.7	3082.5	3078.7	3074.9	3074.9	3074.9	3074.9
17.5°	3013.7	3009.9	3025.2	3032.8	3032.8	3032.8	3032.8	3029.0	3029.0	3032.8
20°	2967.9	2952.6	2960.3	2975.5	2979.4	2979.4	2983.2	2987.0	2987.0	2987.0
22.5°	2903.0	2895.3	2899.1	2910.6	2918.2	2922.1	2933.5	2933.5	2937.3	2941.2
25°	2826.6	2838.0	2841.9	2853.3	2857.1	2864.8	2880.1	2887.7	2887.7	2887.7
27.5°	2746.4	2769.3	2784.6	2792.2	2799.8	2807.5	2826.6	2841.9	2841.9	2841.9
30°	2670.0	2692.9	2723.4	2738.7	2746.4	2754.0	2780.7	2799.8	2803.7	2803.7
32.5°	2589.8	2620.3	2666.1	2689.1	2692.9	2704.3	2738.7	2761.6	2765.5	2765.5
35°	2521.0	2559.2	2608.9	2639.4	2647.0	2658.5	2696.7	2723.4	2727.3	2727.3
37.5°	2459.9	2498.1	2551.6	2593.6	2601.2	2616.5	2654.7	2689.1	2692.9	2696.7
40°	2391.1	2437.0	2490.4	2540.1	2555.4	2570.7	2612.7	2647.0	2654.7	2654.7
42.5°	2322.4	2379.7	2433.1	2490.4	2509.5	2524.8	2570.7	2605.0	2612.7	2612.7
45°	2249.8	2322.4	2375.9	2437.0	2459.9	2475.2	2517.2	2555.4	2566.8	2566.8
47.5°	2184.9	2261.3	2314.7	2375.9	2398.8	2421.7	2459.9	2498.1	2509.5	2513.4
50°	2112.3	2196.3	2249.8	2307.1	2337.7	2360.6	2398.8	2440.8	2452.2	2448.4
52.5°	2039.7	2119.9	2177.2	2238.3	2268.9	2291.8	2326.2	2372.0	2383.5	2383.5
55°	1963.3	2043.5	2104.7	2161.9	2192.5	2223.1	2257.4	2295.6	2310.9	2307.1
57.5°	1886.9	1959.5	2024.4	2085.6	2112.3	2142.8	2177.2	2215.4	2226.9	2234.5
60°	1806.7	1871.7	1944.2	2001.5	2028.3	2058.8	2093.2	2127.6	2146.7	2142.8
62.5°	1718.9	1791.4	1860.2	1913.7	1940.4	1971.0	2005.3	2035.9	2051.2	2058.8
65°	1631.0	1699.8	1764.7	1822.0	1844.9	1875.5	1913.7	1936.6	1955.7	1959.5
67.5°	1539.3	1608.1	1673.0	1734.1	1757.1	1783.8	1818.2	1841.1	1860.2	1864.0
70°	1447.7	1520.2	1585.2	1642.5	1665.4	1688.3	1722.7	1745.6	1764.7	1764.7
72.5°	1359.8	1432.4	1493.5	1550.8	1573.7	1592.8	1627.2	1650.1	1665.4	1669.2
75°	1272.0	1340.7	1401.8	1459.1	1478.2	1501.1	1531.7	1554.6	1569.9	1573.7
77.5°	1184.1	1256.7	1314.0	1367.5	1386.5	1405.6	1440.0	1459.1	1474.4	1474.4
80°	1100.1	1168.8	1226.1	1275.8	1291.1	1314.0	1344.5	1363.6	1375.1	1382.7
82.5°	1019.9	1084.8	1138.3	1184.1	1207.0	1222.3	1252.9	1272.0	1283.4	1291.1
85°	932.0	1000.8	1054.2	1100.1	1115.4	1138.3	1165.0	1184.1	1195.6	1199.4
87.5°	851.8	912.9	966.4	1019.9	1039.0	1054.2	1081.0	1100.1	1111.5	1119.2
90°	783.0	840.3	890.0	932.0	951.1	970.2	1000.8	1019.9	1031.3	1035.1
92.5°	733.4	790.7	836.5	878.5	897.6	912.9	939.6	958.7	970.2	974.0
95°	687.5	741.0	786.9	828.9	844.2	859.4	886.2	901.4	909.1	916.7
97.5°	637.9	695.2	737.2	775.4	794.5	806.0	832.7	848.0	859.4	863.3
100°	592.1	645.5	687.5	729.6	744.8	756.3	783.0	798.3	806.0	809.8
102.5°	546.2	599.7	641.7	679.9	695.2	706.6	729.6	744.8	756.3	760.1
105°	500.4	550.0	592.1	630.2	645.5	657.0	679.9	695.2	706.6	710.5
107.5°	458.4	504.2	546.2	580.6	595.9	607.3	630.2	645.5	657.0	660.8
110°	416.3	458.4	500.4	534.8	550.0	561.5	584.4	595.9	607.3	611.2





TEST NUMBER: P257086

CATALOG NUMBER: HGL-S-UF-60L840-UNV-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	370.5	416.3	454.5	488.9	500.4	515.7	534.8	550.0	557.7	561.5
115°	332.3	374.3	408.7	443.1	454.5	466.0	488.9	500.4	511.8	511.8
117.5°	290.3	328.5	366.7	397.2	408.7	420.2	443.1	454.5	462.2	466.0
120°	252.1	286.5	320.9	351.4	366.7	374.3	397.2	408.7	416.3	420.2
122.5°	213.9	248.3	282.7	309.4	320.9	332.3	351.4	362.9	370.5	374.3
125°	175.7	210.1	240.6	267.4	278.8	290.3	305.6	317.0	324.7	328.5
127.5°	141.3	171.9	202.4	225.4	236.8	248.3	263.6	275.0	282.7	286.5
130°	107.0	133.7	164.2	187.2	198.6	206.3	221.5	233.0	240.6	244.5
132.5°	72.6	99.3	126.0	149.0	160.4	168.1	183.3	191.0	198.6	202.4
135°	45.8	68.8	91.7	110.8	122.2	129.9	145.1	152.8	160.4	160.4
137.5°	22.9	42.0	61.1	76.4	84.0	95.5	107.0	114.6	118.4	122.2
140°	7.6	19.1	34.4	45.8	53.5	61.1	72.6	80.2	84.0	87.9
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)