

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: P257076

Luminaire Tested: **HGL-S-UF-60L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257076
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-60L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11725.8 lumens
Efficiency: N/A
Efficacy: 124.1 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

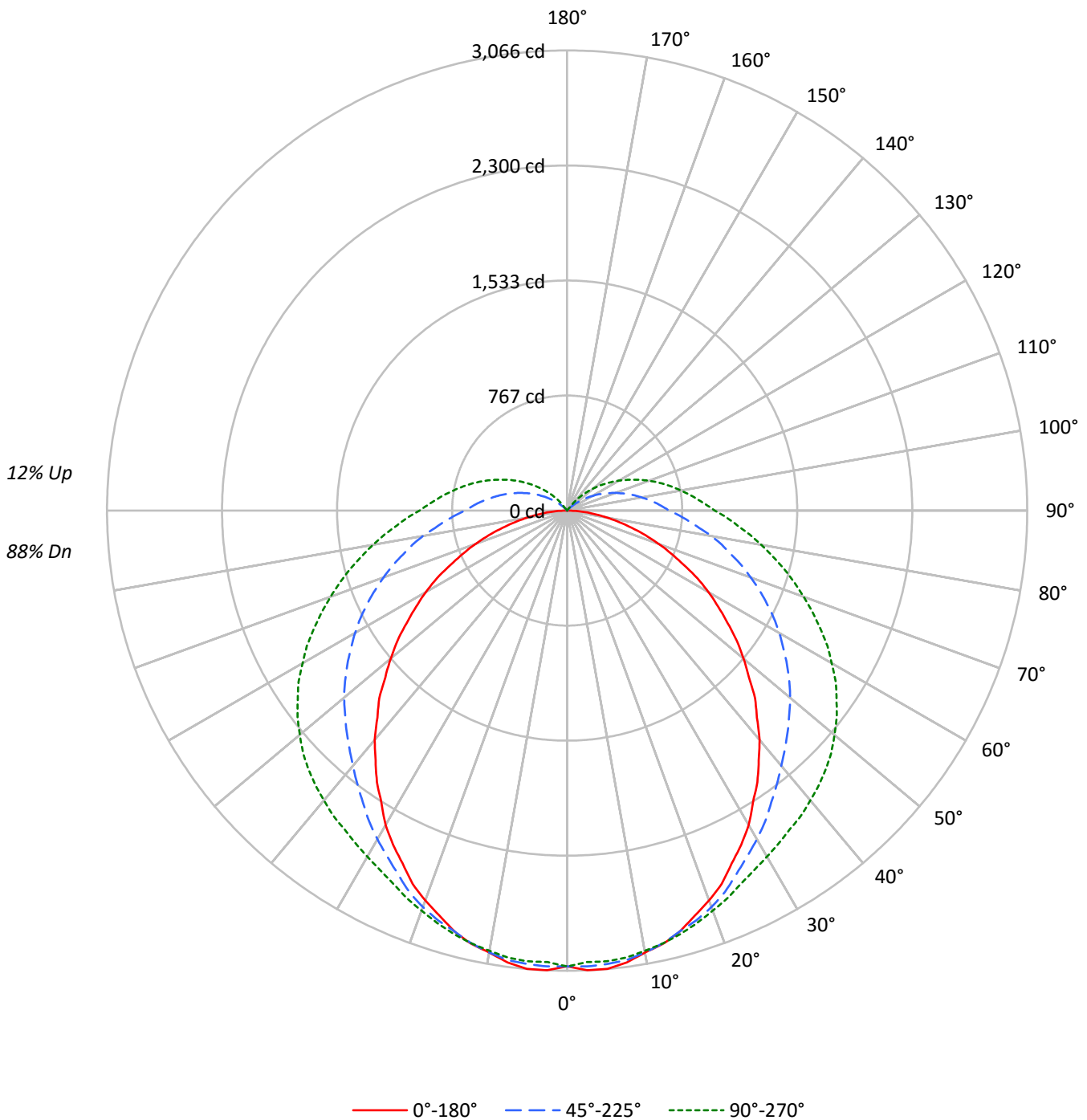
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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°	17828	17828	17828
5°	18046	17372	17088
10°	17781	16840	16440
15°	17580	16206	15824
20°	17191	15680	15209
25°	16702	14987	14660
30°	16283	14395	14300
35°	15693	13809	14083
40°	15127	13321	13989
45°	14511	12971	13917
50°	13803	12717	13777
55°	13124	12436	13601
60°	12499	12189	13371
65°	11572	11944	13093
70°	10763	11715	12794
75°	9653	11494	12575
80°	8454	11477	12411
85°	7019	11507	12386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	2.5
10°-20°	817.8	7.0
20°-30°	1227.1	10.5
30°-40°	1489.8	12.7
40°-50°	1609.2	13.7
50°-60°	1576.0	13.4
60°-70°	1397.9	11.9
70°-80°	1119.7	9.5
80°-90°	811.5	6.9
90°-100°	571.9	4.9
100°-110°	399.0	3.4
110°-120°	247.0	2.1
120°-130°	125.6	1.1
130°-140°	43.5	0.4
140°-150°	2.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2332.5	19.9
0°-40°	3822.3	32.6
0°-60°	7007.5	59.8
0°-90°	10336.7	88.2
90°-120°	1217.9	10.4
90°-150°	1389.1	11.8
90°-180°	1389.0	11.8
0°-180°	11725.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	3066	3036	3033	3018	3015	290
15°	2902	2880	2902	2928	2920	816
25°	2594	2601	2670	2714	2743	1197
35°	2209	2224	2373	2514	2590	1380
45°	1770	1818	2079	2336	2438	1360
55°	1306	1415	1788	2082	2191	1171
65°	856	1059	1469	1752	1861	855
75°	446	729	1132	1404	1495	477
85°	120	446	816	1059	1139	129
90°	4	326	678	903	983	9
95°	0	258	591	802	871	0
105°	0	138	424	613	675	0
115°	0	44	268	432	486	0
125°	0	0	131	265	312	0
135°	0	0	22	116	152	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	3065.5	3061.9	3051.0	3040.1	3036.5	3036.5	3032.9	3029.2	3029.2	3025.6	3040.1
5°	3065.5	3061.9	3051.0	3036.5	3032.9	3036.5	3032.9	3025.6	3025.6	3022.0	3032.9
7.5°	3036.5	3029.2	3022.0	3011.1	3007.5	3007.5	3003.8	3003.8	3003.8	3003.8	3022.0
10°	2989.3	2985.7	2978.5	2967.6	2967.6	2963.9	2963.9	2967.6	2967.6	2971.2	2989.3
12.5°	2956.7	2949.4	2938.5	2927.7	2924.0	2924.0	2920.4	2916.8	2920.4	2924.0	2953.1
15°	2902.3	2898.6	2891.4	2880.5	2880.5	2880.5	2880.5	2876.9	2876.9	2880.5	2902.3
17.5°	2829.7	2822.5	2818.8	2811.6	2815.2	2818.8	2822.5	2818.8	2826.1	2837.0	2862.4
20°	2764.4	2757.2	2749.9	2739.0	2739.0	2742.6	2746.3	2746.3	2764.4	2778.9	2811.6
22.5°	2691.9	2688.2	2681.0	2677.3	2677.3	2681.0	2681.0	2673.7	2684.6	2706.4	2749.9
25°	2593.9	2590.3	2586.6	2586.6	2593.9	2601.2	2604.8	2608.4	2619.3	2633.8	2670.1
27.5°	2510.5	2506.8	2499.6	2492.3	2499.6	2506.8	2510.5	2517.7	2539.5	2568.5	2597.5
30°	2419.8	2416.1	2412.5	2412.5	2419.8	2423.4	2427.0	2423.4	2452.4	2495.9	2528.6
32.5°	2303.7	2300.0	2303.7	2303.7	2321.8	2332.7	2340.0	2343.6	2369.0	2408.9	2456.0
35°	2209.4	2209.4	2205.7	2213.0	2216.6	2223.9	2231.1	2249.3	2285.5	2325.4	2372.6
37.5°	2096.9	2096.9	2096.9	2115.0	2129.5	2133.2	2136.8	2158.6	2205.7	2245.6	2296.4
40°	1995.3	1995.3	1995.3	2002.6	2013.4	2024.3	2038.8	2064.2	2111.4	2169.4	2220.2
42.5°	1872.0	1875.6	1882.8	1901.0	1915.5	1922.8	1933.6	1973.5	2024.3	2093.3	2147.7
45°	1770.4	1766.8	1774.0	1788.5	1803.0	1817.5	1835.7	1879.2	1940.9	2017.1	2078.7
47.5°	1643.4	1647.0	1654.3	1679.7	1697.8	1716.0	1737.7	1788.5	1861.1	1937.3	2006.2
50°	1534.6	1538.2	1556.3	1570.9	1589.0	1610.8	1636.2	1701.5	1781.3	1857.5	1940.9
52.5°	1425.7	1429.4	1443.9	1454.8	1483.8	1509.2	1541.8	1614.4	1697.8	1781.3	1864.7
55°	1306.0	1313.3	1324.2	1349.6	1385.8	1414.9	1451.1	1530.9	1614.4	1705.1	1788.5
57.5°	1193.6	1197.2	1215.3	1240.7	1284.3	1320.5	1364.1	1447.5	1538.2	1625.3	1708.7
60°	1088.4	1095.6	1106.5	1139.1	1197.2	1233.5	1277.0	1364.1	1458.4	1545.5	1632.5
62.5°	979.5	986.8	1001.3	1037.6	1106.5	1146.4	1193.6	1284.3	1378.6	1465.6	1552.7
65°	856.2	863.4	885.2	932.4	1015.8	1059.3	1106.5	1200.8	1291.5	1382.2	1469.3
67.5°	751.0	754.6	783.6	834.4	921.5	975.9	1026.7	1117.4	1208.1	1298.8	1385.8
70°	649.4	656.6	678.4	747.3	841.7	885.2	939.6	1037.6	1128.3	1219.0	1302.4
72.5°	547.8	555.1	587.7	663.9	761.8	809.0	852.5	957.7	1048.4	1135.5	1219.0
75°	446.2	457.1	500.6	587.7	682.0	729.2	776.4	870.7	968.6	1052.1	1131.9
77.5°	355.5	366.4	420.8	511.5	605.8	653.0	700.2	790.9	881.6	972.3	1055.7
80°	268.5	283.0	348.3	439.0	533.3	580.5	624.0	718.3	805.4	888.8	975.9
82.5°	192.3	210.4	286.6	373.7	468.0	511.5	555.1	645.8	732.8	812.6	888.8
85°	119.7	152.4	228.6	312.0	402.7	446.2	489.8	580.5	663.9	743.7	816.3
87.5°	58.0	101.6	174.1	253.9	341.0	384.6	428.1	515.2	595.0	674.8	747.3
90°	3.6	58.0	123.3	199.5	286.6	326.5	370.0	453.5	533.3	609.5	678.4
92.5°	0.0	36.3	98.0	170.5	250.3	293.9	333.8	417.2	493.4	569.6	634.9
95°	0.0	18.1	76.2	145.1	221.3	257.6	297.5	377.3	453.5	526.0	591.3
97.5°	0.0	3.6	54.4	116.1	188.6	228.6	264.8	341.0	417.2	486.1	547.8
100°	0.0	0.0	36.3	94.3	159.6	195.9	232.2	304.7	377.3	442.6	504.3
102.5°	0.0	0.0	18.1	72.6	134.2	166.9	199.5	272.1	341.0	406.3	464.4
105°	0.0	0.0	3.6	50.8	108.8	137.9	170.5	235.8	304.7	366.4	424.5
107.5°	0.0	0.0	0.0	29.0	83.4	112.5	141.5	203.2	268.5	326.5	380.9
110°	0.0	0.0	0.0	14.5	61.7	87.1	116.1	174.1	232.2	290.2	344.6



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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	3.6	39.9	65.3	90.7	145.1	199.5	253.9	304.7
115°	0.0	0.0	0.0	0.0	21.8	43.5	65.3	116.1	166.9	221.3	268.5
117.5°	0.0	0.0	0.0	0.0	7.3	25.4	43.5	90.7	137.9	185.0	232.2
120°	0.0	0.0	0.0	0.0	0.0	10.9	25.4	65.3	108.8	152.4	195.9
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	39.9	79.8	123.3	163.3
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	54.4	94.3	130.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	32.7	65.3	98.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	39.9	68.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	21.8	43.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	21.8
137.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
140°	3.6	3.6	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°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	3051.0	3036.5	3036.5	3032.9	3029.2	3025.6	3018.4	3014.7	3007.5	3011.1
5°	3043.8	3029.2	3029.2	3022.0	3018.4	3018.4	3014.7	3014.7	3011.1	3014.7
7.5°	3032.9	3014.7	3014.7	3007.5	3003.8	3000.2	3000.2	3000.2	3000.2	3003.8
10°	3003.8	2993.0	2993.0	2989.3	2985.7	2978.5	2974.8	2978.5	2974.8	2978.5
12.5°	2963.9	2953.1	2960.3	2960.3	2960.3	2953.1	2949.4	2953.1	2949.4	2953.1
15°	2913.2	2909.5	2920.4	2924.0	2927.7	2924.0	2920.4	2920.4	2920.4	2920.4
17.5°	2862.4	2858.7	2873.2	2880.5	2880.5	2880.5	2880.5	2876.9	2876.9	2880.5
20°	2818.8	2804.3	2811.6	2826.1	2829.7	2829.7	2833.3	2837.0	2837.0	2837.0
22.5°	2757.2	2749.9	2753.5	2764.4	2771.7	2775.3	2786.2	2786.2	2789.8	2793.4
25°	2684.6	2695.5	2699.1	2710.0	2713.6	2720.9	2735.4	2742.6	2742.6	2742.6
27.5°	2608.4	2630.2	2644.7	2651.9	2659.2	2666.5	2684.6	2699.1	2699.1	2699.1
30°	2535.9	2557.6	2586.6	2601.2	2608.4	2615.7	2641.1	2659.2	2662.8	2662.8
32.5°	2459.7	2488.7	2532.2	2554.0	2557.6	2568.5	2601.2	2622.9	2626.6	2626.6
35°	2394.4	2430.6	2477.8	2506.8	2514.1	2525.0	2561.3	2586.6	2590.3	2590.3
37.5°	2336.3	2372.6	2423.4	2463.3	2470.6	2485.1	2521.3	2554.0	2557.6	2561.3
40°	2271.0	2314.6	2365.3	2412.5	2427.0	2441.5	2481.4	2514.1	2521.3	2521.3
42.5°	2205.7	2260.1	2310.9	2365.3	2383.5	2398.0	2441.5	2474.2	2481.4	2481.4
45°	2136.8	2205.7	2256.5	2314.6	2336.3	2350.8	2390.7	2427.0	2437.9	2437.9
47.5°	2075.1	2147.7	2198.5	2256.5	2278.3	2300.0	2336.3	2372.6	2383.5	2387.1
50°	2006.2	2086.0	2136.8	2191.2	2220.2	2242.0	2278.3	2318.2	2329.1	2325.4
52.5°	1937.3	2013.4	2067.9	2125.9	2154.9	2176.7	2209.4	2252.9	2263.8	2263.8
55°	1864.7	1940.9	1998.9	2053.4	2082.4	2111.4	2144.0	2180.3	2194.8	2191.2
57.5°	1792.1	1861.1	1922.8	1980.8	2006.2	2035.2	2067.9	2104.1	2115.0	2122.3
60°	1716.0	1777.6	1846.6	1901.0	1926.4	1955.4	1988.1	2020.7	2038.8	2035.2
62.5°	1632.5	1701.5	1766.8	1817.5	1842.9	1872.0	1904.6	1933.6	1948.1	1955.4
65°	1549.1	1614.4	1676.1	1730.5	1752.2	1781.3	1817.5	1839.3	1857.5	1861.1
67.5°	1462.0	1527.3	1589.0	1647.0	1668.8	1694.2	1726.8	1748.6	1766.8	1770.4
70°	1374.9	1443.9	1505.6	1560.0	1581.7	1603.5	1636.2	1657.9	1676.1	1676.1
72.5°	1291.5	1360.4	1418.5	1472.9	1494.7	1512.8	1545.5	1567.2	1581.7	1585.4
75°	1208.1	1273.4	1331.4	1385.8	1404.0	1425.7	1454.8	1476.5	1491.0	1494.7
77.5°	1124.6	1193.6	1248.0	1298.8	1316.9	1335.0	1367.7	1385.8	1400.3	1400.3
80°	1044.8	1110.1	1164.5	1211.7	1226.2	1248.0	1277.0	1295.1	1306.0	1313.3
82.5°	968.6	1030.3	1081.1	1124.6	1146.4	1160.9	1189.9	1208.1	1219.0	1226.2
85°	885.2	950.5	1001.3	1044.8	1059.3	1081.1	1106.5	1124.6	1135.5	1139.1
87.5°	809.0	867.1	917.8	968.6	986.8	1001.3	1026.7	1044.8	1055.7	1063.0
90°	743.7	798.1	845.3	885.2	903.3	921.5	950.5	968.6	979.5	983.1
92.5°	696.5	751.0	794.5	834.4	852.5	867.1	892.4	910.6	921.5	925.1
95°	653.0	703.8	747.3	787.2	801.8	816.3	841.7	856.2	863.4	870.7
97.5°	605.8	660.3	700.2	736.5	754.6	765.5	790.9	805.4	816.3	819.9
100°	562.3	613.1	653.0	692.9	707.4	718.3	743.7	758.2	765.5	769.1
102.5°	518.8	569.6	609.5	645.8	660.3	671.1	692.9	707.4	718.3	721.9
105°	475.2	522.4	562.3	598.6	613.1	624.0	645.8	660.3	671.1	674.8
107.5°	435.3	478.9	518.8	551.4	565.9	576.8	598.6	613.1	624.0	627.6
110°	395.4	435.3	475.2	507.9	522.4	533.3	555.1	565.9	576.8	580.5



TEST NUMBER: P257076

CATALOG NUMBER: HGL-S-UF-60L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	351.9	395.4	431.7	464.4	475.2	489.8	507.9	522.4	529.7	533.3
115°	315.6	355.5	388.2	420.8	431.7	442.6	464.4	475.2	486.1	486.1
117.5°	275.7	312.0	348.3	377.3	388.2	399.1	420.8	431.7	439.0	442.6
120°	239.4	272.1	304.7	333.8	348.3	355.5	377.3	388.2	395.4	399.1
122.5°	203.2	235.8	268.5	293.9	304.7	315.6	333.8	344.6	351.9	355.5
125°	166.9	199.5	228.6	253.9	264.8	275.7	290.2	301.1	308.4	312.0
127.5°	134.2	163.3	192.3	214.0	224.9	235.8	250.3	261.2	268.5	272.1
130°	101.6	127.0	156.0	177.8	188.6	195.9	210.4	221.3	228.6	232.2
132.5°	68.9	94.3	119.7	141.5	152.4	159.6	174.1	181.4	188.6	192.3
135°	43.5	65.3	87.1	105.2	116.1	123.3	137.9	145.1	152.4	152.4
137.5°	21.8	39.9	58.0	72.6	79.8	90.7	101.6	108.8	112.5	116.1
140°	7.3	18.1	32.7	43.5	50.8	58.0	68.9	76.2	79.8	83.4
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)