

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: P257081

Luminaire Tested: **HGL-S-UF-60L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257081
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-60L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12164.7 lumens
Efficiency: N/A
Efficacy: 128.7 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

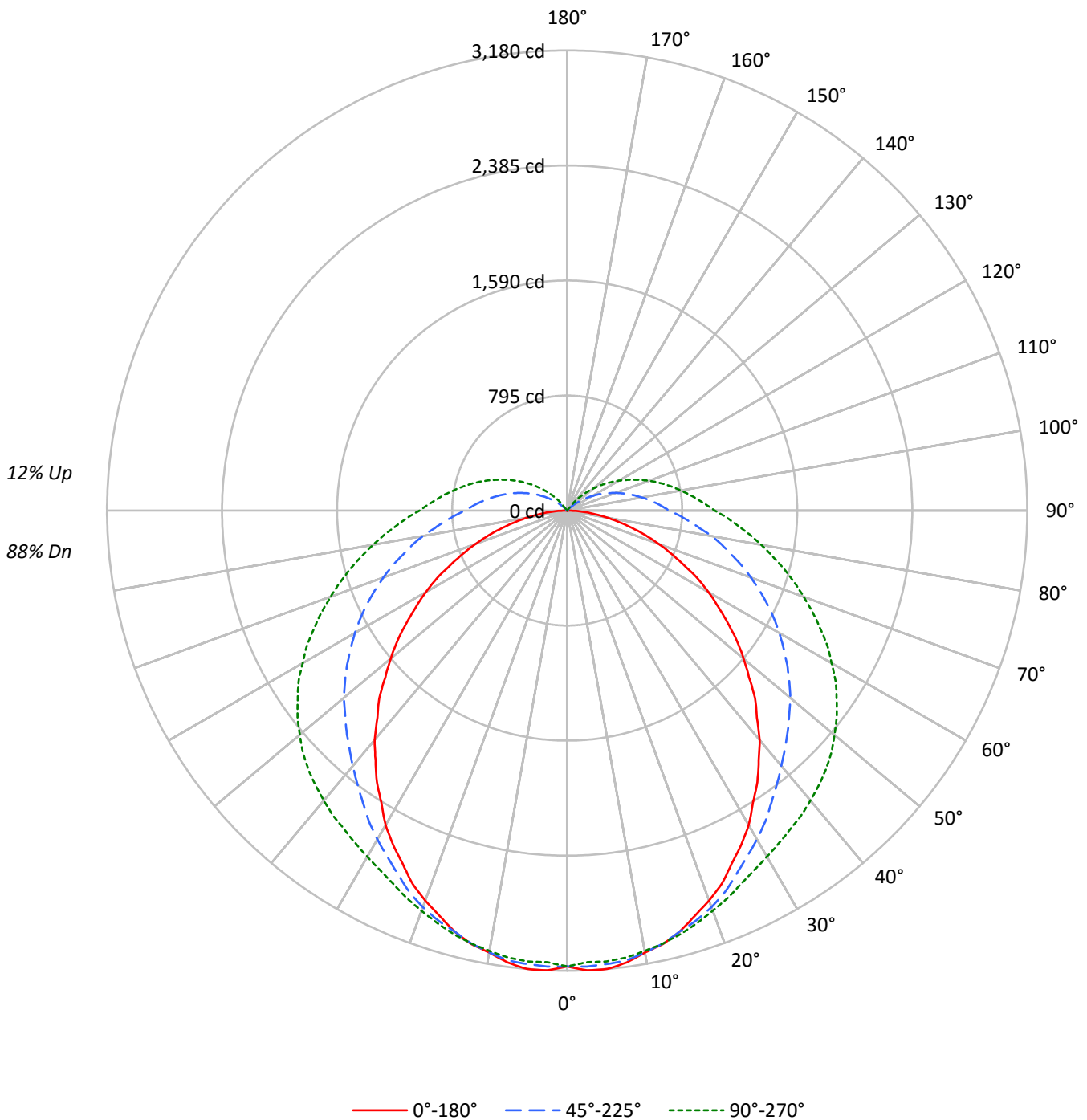
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18496	18496	18496
5°	18722	18022	17728
10°	18446	17470	17055
15°	18238	16812	16416
20°	17834	16267	15779
25°	17328	15548	15209
30°	16892	14934	14835
35°	16280	14326	14610
40°	15694	13820	14512
45°	15054	13457	14438
50°	14319	13194	14293
55°	13616	12901	14110
60°	12966	12646	13872
65°	12004	12391	13583
70°	11165	12153	13273
75°	10014	11925	13045
80°	8769	11906	12875
85°	7283	11936	12850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	2.5
10°-20°	848.4	7.0
20°-30°	1273.0	10.5
30°-40°	1545.6	12.7
40°-50°	1669.4	13.7
50°-60°	1635.0	13.4
60°-70°	1450.2	11.9
70°-80°	1161.7	9.5
80°-90°	841.9	6.9
90°-100°	593.4	4.9
100°-110°	413.9	3.4
110°-120°	256.2	2.1
120°-130°	130.3	1.1
130°-140°	45.1	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°	2419.8	19.9
0°-40°	3965.4	32.6
0°-60°	7269.8	59.8
0°-90°	10723.6	88.2
90°-120°	1263.5	10.4
90°-150°	1441.1	11.8
90°-180°	1441.0	11.8
0°-180°	12164.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3150	3150	3150	3150	3150	
5°	3180	3150	3146	3131	3128	301
15°	3011	2988	3011	3037	3030	847
25°	2691	2698	2770	2815	2845	1242
35°	2292	2307	2461	2608	2687	1431
45°	1837	1886	2157	2424	2529	1411
55°	1355	1468	1856	2160	2273	1214
65°	888	1099	1524	1818	1931	887
75°	463	756	1174	1456	1551	495
85°	124	463	847	1099	1182	134
90°	4	339	704	937	1020	9
95°	0	267	614	832	903	0
105°	0	143	440	636	700	0
115°	0	45	278	448	504	0
125°	0	0	136	275	324	0
135°	0	0	23	120	158	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°	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2
2.5°	3180.3	3176.5	3165.2	3153.9	3150.2	3150.2	3146.4	3142.6	3142.6	3138.9	3153.9
5°	3180.3	3176.5	3165.2	3150.2	3146.4	3150.2	3146.4	3138.9	3138.9	3135.1	3146.4
7.5°	3150.2	3142.6	3135.1	3123.8	3120.1	3120.1	3116.3	3116.3	3116.3	3116.3	3135.1
10°	3101.2	3097.5	3090.0	3078.7	3078.7	3074.9	3074.9	3078.7	3078.7	3082.4	3101.2
12.5°	3067.4	3059.8	3048.6	3037.3	3033.5	3033.5	3029.7	3026.0	3029.7	3033.5	3063.6
15°	3010.9	3007.2	2999.6	2988.3	2988.3	2988.3	2988.3	2984.6	2984.6	2988.3	3010.9
17.5°	2935.6	2928.1	2924.4	2916.8	2920.6	2924.4	2928.1	2924.4	2931.9	2943.2	2969.5
20°	2867.9	2860.4	2852.8	2841.6	2841.6	2845.3	2849.1	2849.1	2867.9	2883.0	2916.8
22.5°	2792.6	2788.9	2781.3	2777.6	2777.6	2781.3	2781.3	2773.8	2785.1	2807.7	2852.8
25°	2691.0	2687.2	2683.5	2683.5	2691.0	2698.5	2702.3	2706.1	2717.4	2732.4	2770.0
27.5°	2604.4	2600.7	2593.2	2585.6	2593.2	2600.7	2604.4	2612.0	2634.6	2664.7	2694.8
30°	2510.4	2506.6	2502.8	2502.8	2510.4	2514.1	2517.9	2514.1	2544.2	2589.4	2623.3
32.5°	2389.9	2386.2	2389.9	2389.9	2408.7	2420.0	2427.6	2431.3	2457.7	2499.1	2548.0
35°	2292.1	2292.1	2288.3	2295.8	2299.6	2307.1	2314.6	2333.5	2371.1	2412.5	2461.4
37.5°	2175.4	2175.4	2175.4	2194.2	2209.3	2213.0	2216.8	2239.4	2288.3	2329.7	2382.4
40°	2070.0	2070.0	2070.0	2077.5	2088.8	2100.1	2115.2	2141.5	2190.4	2250.7	2303.4
42.5°	1942.0	1945.8	1953.3	1972.2	1987.2	1994.7	2006.0	2047.4	2100.1	2171.6	2228.1
45°	1836.7	1832.9	1840.4	1855.5	1870.5	1885.6	1904.4	1949.6	2013.6	2092.6	2156.6
47.5°	1704.9	1708.7	1716.2	1742.6	1761.4	1780.2	1802.8	1855.5	1930.8	2009.8	2081.3
50°	1592.0	1595.8	1614.6	1629.7	1648.5	1671.1	1697.4	1765.2	1848.0	1927.0	2013.6
52.5°	1479.1	1482.9	1497.9	1509.2	1539.3	1565.7	1599.6	1674.8	1761.4	1848.0	1934.5
55°	1354.9	1362.4	1373.7	1400.1	1437.7	1467.8	1505.5	1588.3	1674.8	1768.9	1855.5
57.5°	1238.2	1242.0	1260.8	1287.2	1332.3	1370.0	1415.1	1501.7	1595.8	1686.1	1772.7
60°	1129.1	1136.6	1147.9	1181.8	1242.0	1279.6	1324.8	1415.1	1513.0	1603.3	1693.6
62.5°	1016.2	1023.7	1038.8	1076.4	1147.9	1189.3	1238.2	1332.3	1430.2	1520.5	1610.8
65°	888.2	895.7	918.3	967.3	1053.8	1099.0	1147.9	1245.8	1339.9	1433.9	1524.3
67.5°	779.1	782.8	812.9	865.6	956.0	1012.4	1065.1	1159.2	1253.3	1347.4	1437.7
70°	673.7	681.2	703.8	775.3	873.2	918.3	974.8	1076.4	1170.5	1264.6	1351.1
72.5°	568.3	575.8	609.7	688.7	790.4	839.3	884.5	993.6	1087.7	1178.0	1264.6
75°	462.9	474.2	519.4	609.7	707.6	756.5	805.4	903.3	1004.9	1091.5	1174.3
77.5°	368.8	380.1	436.6	530.7	628.5	677.5	726.4	820.5	914.6	1008.7	1095.2
80°	278.5	293.6	361.3	455.4	553.3	602.2	647.3	745.2	835.5	922.1	1012.4
82.5°	199.5	218.3	297.3	387.7	485.5	530.7	575.8	669.9	760.3	843.1	922.1
85°	124.2	158.1	237.1	323.7	417.8	462.9	508.1	602.2	688.7	771.5	846.8
87.5°	60.2	105.4	180.7	263.5	353.8	398.9	444.1	534.4	617.2	700.0	775.3
90°	3.8	60.2	128.0	207.0	297.3	338.7	383.9	470.5	553.3	632.3	703.8
92.5°	0.0	37.6	101.6	176.9	259.7	304.9	346.3	432.8	511.9	590.9	658.6
95°	0.0	18.8	79.0	150.5	229.6	267.2	308.6	391.4	470.5	545.7	613.5
97.5°	0.0	3.8	56.5	120.4	195.7	237.1	274.7	353.8	432.8	504.3	568.3
100°	0.0	0.0	37.6	97.9	165.6	203.2	240.9	316.1	391.4	459.2	523.1
102.5°	0.0	0.0	18.8	75.3	139.3	173.1	207.0	282.3	353.8	421.5	481.7
105°	0.0	0.0	3.8	52.7	112.9	143.0	176.9	244.6	316.1	380.1	440.3
107.5°	0.0	0.0	0.0	30.1	86.6	116.7	146.8	210.8	278.5	338.7	395.2
110°	0.0	0.0	0.0	15.1	64.0	90.3	120.4	180.7	240.9	301.1	357.5



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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	41.4	67.7	94.1	150.5	207.0	263.5	316.1
115°	0.0	0.0	0.0	0.0	22.6	45.2	67.7	120.4	173.1	229.6	278.5
117.5°	0.0	0.0	0.0	0.0	7.5	26.3	45.2	94.1	143.0	191.9	240.9
120°	0.0	0.0	0.0	0.0	0.0	11.3	26.3	67.7	112.9	158.1	203.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	41.4	82.8	128.0	169.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	56.5	97.9	135.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	33.9	67.7	101.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	41.4	71.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	22.6	45.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	22.6
137.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
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°	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2	3150.2
2.5°	3165.2	3150.2	3150.2	3146.4	3142.6	3138.9	3131.4	3127.6	3120.1	3123.8
5°	3157.7	3142.6	3142.6	3135.1	3131.4	3131.4	3127.6	3127.6	3123.8	3127.6
7.5°	3146.4	3127.6	3127.6	3120.1	3116.3	3112.5	3112.5	3112.5	3112.5	3116.3
10°	3116.3	3105.0	3105.0	3101.2	3097.5	3090.0	3086.2	3090.0	3086.2	3090.0
12.5°	3074.9	3063.6	3071.1	3071.1	3071.1	3063.6	3059.8	3063.6	3059.8	3063.6
15°	3022.2	3018.4	3029.7	3033.5	3037.3	3033.5	3029.7	3029.7	3029.7	3029.7
17.5°	2969.5	2965.8	2980.8	2988.3	2988.3	2988.3	2988.3	2984.6	2984.6	2988.3
20°	2924.4	2909.3	2916.8	2931.9	2935.6	2935.6	2939.4	2943.2	2943.2	2943.2
22.5°	2860.4	2852.8	2856.6	2867.9	2875.4	2879.2	2890.5	2890.5	2894.2	2898.0
25°	2785.1	2796.4	2800.2	2811.4	2815.2	2822.7	2837.8	2845.3	2845.3	2845.3
27.5°	2706.1	2728.6	2743.7	2751.2	2758.8	2766.3	2785.1	2800.2	2800.2	2800.2
30°	2630.8	2653.4	2683.5	2698.5	2706.1	2713.6	2739.9	2758.8	2762.5	2762.5
32.5°	2551.8	2581.9	2627.0	2649.6	2653.4	2664.7	2698.5	2721.1	2724.9	2724.9
35°	2484.0	2521.6	2570.6	2600.7	2608.2	2619.5	2657.1	2683.5	2687.2	2687.2
37.5°	2423.8	2461.4	2514.1	2555.5	2563.0	2578.1	2615.7	2649.6	2653.4	2657.1
40°	2356.0	2401.2	2453.9	2502.8	2517.9	2532.9	2574.3	2608.2	2615.7	2615.7
42.5°	2288.3	2344.8	2397.4	2453.9	2472.7	2487.8	2532.9	2566.8	2574.3	2574.3
45°	2216.8	2288.3	2341.0	2401.2	2423.8	2438.8	2480.2	2517.9	2529.2	2529.2
47.5°	2152.8	2228.1	2280.8	2341.0	2363.6	2386.2	2423.8	2461.4	2472.7	2476.5
50°	2081.3	2164.1	2216.8	2273.2	2303.4	2325.9	2363.6	2405.0	2416.3	2412.5
52.5°	2009.8	2088.8	2145.3	2205.5	2235.6	2258.2	2292.1	2337.2	2348.5	2348.5
55°	1934.5	2013.6	2073.8	2130.2	2160.3	2190.4	2224.3	2262.0	2277.0	2273.2
57.5°	1859.2	1930.8	1994.7	2055.0	2081.3	2111.4	2145.3	2182.9	2194.2	2201.7
60°	1780.2	1844.2	1915.7	1972.2	1998.5	2028.6	2062.5	2096.4	2115.2	2111.4
62.5°	1693.6	1765.2	1832.9	1885.6	1911.9	1942.0	1975.9	2006.0	2021.1	2028.6
65°	1607.1	1674.8	1738.8	1795.3	1817.8	1848.0	1885.6	1908.2	1927.0	1930.8
67.5°	1516.7	1584.5	1648.5	1708.7	1731.3	1757.6	1791.5	1814.1	1832.9	1836.7
70°	1426.4	1497.9	1561.9	1618.4	1641.0	1663.5	1697.4	1720.0	1738.8	1738.8
72.5°	1339.9	1411.4	1471.6	1528.0	1550.6	1569.4	1603.3	1625.9	1641.0	1644.7
75°	1253.3	1321.0	1381.3	1437.7	1456.5	1479.1	1509.2	1531.8	1546.9	1550.6
77.5°	1166.7	1238.2	1294.7	1347.4	1366.2	1385.0	1418.9	1437.7	1452.8	1452.8
80°	1083.9	1151.7	1208.1	1257.1	1272.1	1294.7	1324.8	1343.6	1354.9	1362.4
82.5°	1004.9	1068.9	1121.6	1166.7	1189.3	1204.4	1234.5	1253.3	1264.6	1272.1
85°	918.3	986.1	1038.8	1083.9	1099.0	1121.6	1147.9	1166.7	1178.0	1181.8
87.5°	839.3	899.5	952.2	1004.9	1023.7	1038.8	1065.1	1083.9	1095.2	1102.7
90°	771.5	828.0	876.9	918.3	937.1	956.0	986.1	1004.9	1016.2	1019.9
92.5°	722.6	779.1	824.2	865.6	884.5	899.5	925.9	944.7	956.0	959.7
95°	677.5	730.1	775.3	816.7	831.8	846.8	873.2	888.2	895.7	903.3
97.5°	628.5	685.0	726.4	764.0	782.8	794.1	820.5	835.5	846.8	850.6
100°	583.4	636.1	677.5	718.9	733.9	745.2	771.5	786.6	794.1	797.9
102.5°	538.2	590.9	632.3	669.9	685.0	696.3	718.9	733.9	745.2	749.0
105°	493.0	542.0	583.4	621.0	636.1	647.3	669.9	685.0	696.3	700.0
107.5°	451.6	496.8	538.2	572.1	587.1	598.4	621.0	636.1	647.3	651.1
110°	410.2	451.6	493.0	526.9	542.0	553.3	575.8	587.1	598.4	602.2



TEST NUMBER: P257081

CATALOG NUMBER: HGL-S-UF-60L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	365.1	410.2	447.9	481.7	493.0	508.1	526.9	542.0	549.5	553.3
115°	327.4	368.8	402.7	436.6	447.9	459.2	481.7	493.0	504.3	504.3
117.5°	286.0	323.7	361.3	391.4	402.7	414.0	436.6	447.9	455.4	459.2
120°	248.4	282.3	316.1	346.3	361.3	368.8	391.4	402.7	410.2	414.0
122.5°	210.8	244.6	278.5	304.9	316.1	327.4	346.3	357.5	365.1	368.8
125°	173.1	207.0	237.1	263.5	274.7	286.0	301.1	312.4	319.9	323.7
127.5°	139.3	169.4	199.5	222.1	233.3	244.6	259.7	271.0	278.5	282.3
130°	105.4	131.7	161.8	184.4	195.7	203.2	218.3	229.6	237.1	240.9
132.5°	71.5	97.9	124.2	146.8	158.1	165.6	180.7	188.2	195.7	199.5
135°	45.2	67.7	90.3	109.1	120.4	128.0	143.0	150.5	158.1	158.1
137.5°	22.6	41.4	60.2	75.3	82.8	94.1	105.4	112.9	116.7	120.4
140°	7.5	18.8	33.9	45.2	52.7	60.2	71.5	79.0	82.8	86.6
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)