

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: P257104

Luminaire Tested: **HGL-S-UF-40L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257104  
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-40L835-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (504) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12067.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 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

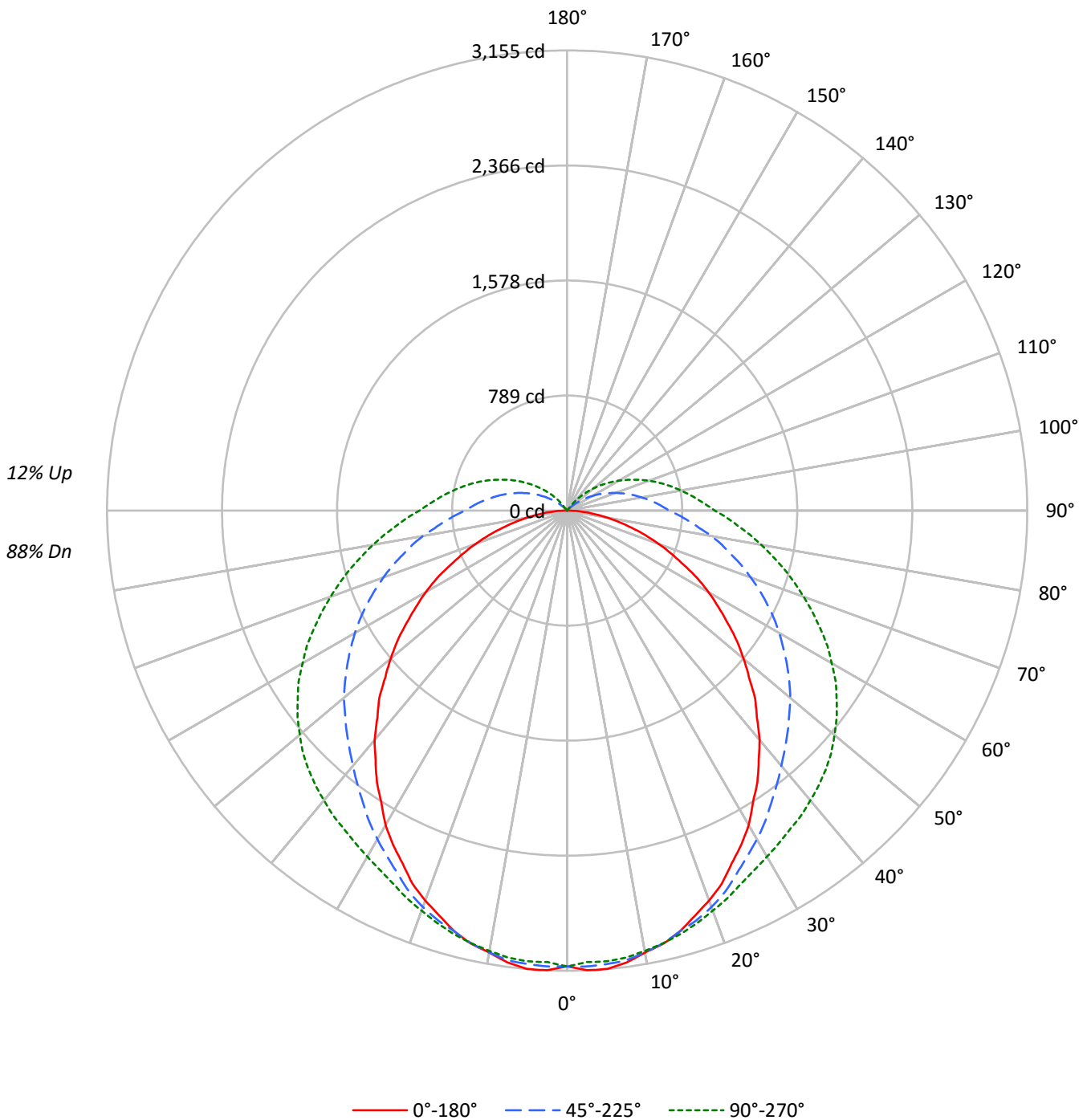
Input Watts (W): 85.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	12231	12231	12231
5°	12386	11922	11724
10°	12209	11560	11279
15°	12075	11127	10856
20°	11813	10768	10435
25°	11482	10295	10058
30°	11199	9891	9811
35°	10799	9490	9662
40°	10416	9158	9597
45°	9998	8920	9548
50°	9518	8748	9452
55°	9059	8557	9331
60°	8638	8392	9174
65°	8011	8226	8983
70°	7470	8073	8778
75°	6727	7926	8627
80°	5936	7922	8515
85°	5033	7952	8498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.9	2.5
10°-20°	841.6	7.0
20°-30°	1262.8	10.5
30°-40°	1533.2	12.7
40°-50°	1656.0	13.7
50°-60°	1621.9	13.4
60°-70°	1438.6	11.9
70°-80°	1152.3	9.5
80°-90°	835.1	6.9
90°-100°	588.6	4.9
100°-110°	410.6	3.4
110°-120°	254.2	2.1
120°-130°	129.3	1.1
130°-140°	44.8	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°	2400.4	19.9
0°-40°	3933.6	32.6
0°-60°	7211.5	59.8
0°-90°	10637.6	88.2
90°-120°	1253.4	10.4
90°-150°	1429.5	11.8
90°-180°	1430.0	11.9
0°-180°	12067.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3125	3125	3125	3125	3125	
5°	3155	3125	3121	3106	3102	298
15°	2987	2964	2987	3013	3005	840
25°	2669	2677	2748	2793	2822	1232
35°	2274	2289	2442	2587	2666	1420
45°	1822	1870	2139	2404	2509	1400
55°	1344	1456	1841	2143	2255	1205
65°	881	1090	1512	1803	1915	880
75°	459	750	1165	1445	1538	491
85°	123	459	840	1090	1172	133
90°	4	336	698	930	1012	9
95°	0	265	609	825	896	0
105°	0	142	437	631	694	0
115°	0	45	276	444	500	0
125°	0	0	134	272	321	0
135°	0	0	22	120	157	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: P257104

CATALOG NUMBER: HGL-S-UF-40L835-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9
2.5°	3154.8	3151.0	3139.8	3128.6	3124.9	3124.9	3121.2	3117.4	3117.4	3113.7	3128.6
5°	3154.8	3151.0	3139.8	3124.9	3121.2	3124.9	3121.2	3113.7	3113.7	3110.0	3121.2
7.5°	3124.9	3117.4	3110.0	3098.8	3095.0	3095.0	3091.3	3091.3	3091.3	3091.3	3110.0
10°	3076.4	3072.6	3065.2	3054.0	3054.0	3050.2	3050.2	3054.0	3054.0	3057.7	3076.4
12.5°	3042.8	3035.3	3024.1	3012.9	3009.2	3009.2	3005.4	3001.7	3005.4	3009.2	3039.0
15°	2986.8	2983.0	2975.6	2964.4	2964.4	2964.4	2964.4	2960.6	2960.6	2964.4	2986.8
17.5°	2912.1	2904.6	2900.9	2893.4	2897.2	2900.9	2904.6	2900.9	2908.4	2919.6	2945.7
20°	2844.9	2837.4	2830.0	2818.8	2818.8	2822.5	2826.2	2826.2	2844.9	2859.8	2893.4
22.5°	2770.2	2766.5	2759.0	2755.3	2755.3	2759.0	2759.0	2751.6	2762.8	2785.2	2830.0
25°	2669.4	2665.7	2662.0	2662.0	2669.4	2676.9	2680.6	2684.4	2695.6	2710.5	2747.8
27.5°	2583.5	2579.8	2572.3	2564.9	2572.3	2579.8	2583.5	2591.0	2613.4	2643.3	2673.2
30°	2490.2	2486.5	2482.7	2482.7	2490.2	2493.9	2497.7	2493.9	2523.8	2568.6	2602.2
32.5°	2370.7	2367.0	2370.7	2370.7	2389.4	2400.6	2408.1	2411.8	2437.9	2479.0	2527.5
35°	2273.7	2273.7	2269.9	2277.4	2281.1	2288.6	2296.1	2314.7	2352.1	2393.1	2441.7
37.5°	2157.9	2157.9	2157.9	2176.6	2191.5	2195.3	2199.0	2221.4	2269.9	2311.0	2363.3
40°	2053.4	2053.4	2053.4	2060.9	2072.1	2083.3	2098.2	2124.3	2172.9	2232.6	2284.9
42.5°	1926.5	1930.2	1937.7	1956.3	1971.3	1978.7	1989.9	2031.0	2083.3	2154.2	2210.2
45°	1821.9	1818.2	1825.7	1840.6	1855.5	1870.5	1889.1	1933.9	1997.4	2075.8	2139.3
47.5°	1691.3	1695.0	1702.5	1728.6	1747.3	1765.9	1788.3	1840.6	1915.3	1993.7	2064.6
50°	1579.3	1583.0	1601.7	1616.6	1635.3	1657.7	1683.8	1751.0	1833.1	1911.5	1997.4
52.5°	1467.2	1471.0	1485.9	1497.1	1527.0	1553.1	1586.7	1661.4	1747.3	1833.1	1919.0
55°	1344.0	1351.5	1362.7	1388.8	1426.2	1456.0	1493.4	1575.5	1661.4	1754.7	1840.6
57.5°	1228.3	1232.0	1250.7	1276.8	1321.6	1359.0	1403.8	1489.6	1583.0	1672.6	1758.5
60°	1120.0	1127.5	1138.7	1172.3	1232.0	1269.4	1314.2	1403.8	1500.8	1590.5	1680.1
62.5°	1008.0	1015.5	1030.4	1067.8	1138.7	1179.8	1228.3	1321.6	1418.7	1508.3	1597.9
65°	881.1	888.6	911.0	959.5	1045.4	1090.2	1138.7	1235.8	1329.1	1422.4	1512.0
67.5°	772.8	776.6	806.4	858.7	948.3	1004.3	1056.6	1149.9	1243.2	1336.6	1426.2
70°	668.3	675.8	698.2	769.1	866.2	911.0	967.0	1067.8	1161.1	1254.4	1340.3
72.5°	563.8	571.2	604.8	683.2	784.0	832.6	877.4	985.6	1079.0	1168.6	1254.4
75°	459.2	470.4	515.2	604.8	701.9	750.4	799.0	896.0	996.8	1082.7	1164.8
77.5°	365.9	377.1	433.1	526.4	623.5	672.0	720.6	813.9	907.2	1000.6	1086.4
80°	276.3	291.2	358.4	451.7	548.8	597.4	642.2	739.2	828.8	914.7	1004.3
82.5°	197.9	216.5	294.9	384.5	481.6	526.4	571.2	664.6	754.2	836.3	914.7
85°	123.2	156.8	235.2	321.1	414.4	459.2	504.0	597.4	683.2	765.4	840.0
87.5°	59.7	104.5	179.2	261.3	350.9	395.7	440.5	530.2	612.3	694.4	769.1
90°	3.7	59.7	126.9	205.3	294.9	336.0	380.8	466.7	548.8	627.2	698.2
92.5°	0.0	37.3	100.8	175.5	257.6	302.4	343.5	429.3	507.7	586.2	653.4
95°	0.0	18.7	78.4	149.3	227.7	265.1	306.1	388.3	466.7	541.4	608.6
97.5°	0.0	3.7	56.0	119.5	194.1	235.2	272.5	350.9	429.3	500.3	563.8
100°	0.0	0.0	37.3	97.1	164.3	201.6	238.9	313.6	388.3	455.5	518.9
102.5°	0.0	0.0	18.7	74.7	138.1	171.7	205.3	280.0	350.9	418.1	477.9
105°	0.0	0.0	3.7	52.3	112.0	141.9	175.5	242.7	313.6	377.1	436.8
107.5°	0.0	0.0	0.0	29.9	85.9	115.7	145.6	209.1	276.3	336.0	392.0
110°	0.0	0.0	0.0	14.9	63.5	89.6	119.5	179.2	238.9	298.7	354.7



TEST NUMBER: P257104

CATALOG NUMBER: HGL-S-UF-40L835-UNV-12

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	3.7	41.1	67.2	93.3	149.3	205.3	261.3	313.6
115°	0.0	0.0	0.0	0.0	22.4	44.8	67.2	119.5	171.7	227.7	276.3
117.5°	0.0	0.0	0.0	0.0	7.5	26.1	44.8	93.3	141.9	190.4	238.9
120°	0.0	0.0	0.0	0.0	0.0	11.2	26.1	67.2	112.0	156.8	201.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	41.1	82.1	126.9	168.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	56.0	97.1	134.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	33.6	67.2	100.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	41.1	70.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	22.4	44.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	22.4
137.5°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
140°	3.7	3.7	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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CATALOG NUMBER: HGL-S-UF-40L835-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9
2.5°	3139.8	3124.9	3124.9	3121.2	3117.4	3113.7	3106.2	3102.5	3095.0	3098.8
5°	3132.4	3117.4	3117.4	3110.0	3106.2	3106.2	3102.5	3102.5	3098.8	3102.5
7.5°	3121.2	3102.5	3102.5	3095.0	3091.3	3087.6	3087.6	3087.6	3087.6	3091.3
10°	3091.3	3080.1	3080.1	3076.4	3072.6	3065.2	3061.4	3065.2	3061.4	3065.2
12.5°	3050.2	3039.0	3046.5	3046.5	3046.5	3039.0	3035.3	3039.0	3035.3	3039.0
15°	2998.0	2994.2	3005.4	3009.2	3012.9	3009.2	3005.4	3005.4	3005.4	3005.4
17.5°	2945.7	2942.0	2956.9	2964.4	2964.4	2964.4	2964.4	2960.6	2960.6	2964.4
20°	2900.9	2886.0	2893.4	2908.4	2912.1	2912.1	2915.8	2919.6	2919.6	2919.6
22.5°	2837.4	2830.0	2833.7	2844.9	2852.4	2856.1	2867.3	2867.3	2871.0	2874.8
25°	2762.8	2774.0	2777.7	2788.9	2792.6	2800.1	2815.0	2822.5	2822.5	2822.5
27.5°	2684.4	2706.8	2721.7	2729.2	2736.6	2744.1	2762.8	2777.7	2777.7	2777.7
30°	2609.7	2632.1	2662.0	2676.9	2684.4	2691.8	2718.0	2736.6	2740.4	2740.4
32.5°	2531.3	2561.1	2605.9	2628.4	2632.1	2643.3	2676.9	2699.3	2703.0	2703.0
35°	2464.1	2501.4	2549.9	2579.8	2587.3	2598.5	2635.8	2662.0	2665.7	2665.7
37.5°	2404.3	2441.7	2493.9	2535.0	2542.5	2557.4	2594.7	2628.4	2632.1	2635.8
40°	2337.1	2381.9	2434.2	2482.7	2497.7	2512.6	2553.7	2587.3	2594.7	2594.7
42.5°	2269.9	2325.9	2378.2	2434.2	2452.9	2467.8	2512.6	2546.2	2553.7	2553.7
45°	2199.0	2269.9	2322.2	2381.9	2404.3	2419.3	2460.3	2497.7	2508.9	2508.9
47.5°	2135.5	2210.2	2262.5	2322.2	2344.6	2367.0	2404.3	2441.7	2452.9	2456.6
50°	2064.6	2146.7	2199.0	2255.0	2284.9	2307.3	2344.6	2385.7	2396.9	2393.1
52.5°	1993.7	2072.1	2128.1	2187.8	2217.7	2240.1	2273.7	2318.5	2329.7	2329.7
55°	1919.0	1997.4	2057.1	2113.1	2143.0	2172.9	2206.5	2243.8	2258.7	2255.0
57.5°	1844.3	1915.3	1978.7	2038.5	2064.6	2094.5	2128.1	2165.4	2176.6	2184.1
60°	1765.9	1829.4	1900.3	1956.3	1982.5	2012.3	2045.9	2079.5	2098.2	2094.5
62.5°	1680.1	1751.0	1818.2	1870.5	1896.6	1926.5	1960.1	1989.9	2004.9	2012.3
65°	1594.2	1661.4	1724.9	1780.9	1803.3	1833.1	1870.5	1892.9	1911.5	1915.3
67.5°	1504.6	1571.8	1635.3	1695.0	1717.4	1743.5	1777.1	1799.5	1818.2	1821.9
70°	1415.0	1485.9	1549.4	1605.4	1627.8	1650.2	1683.8	1706.2	1724.9	1724.9
72.5°	1329.1	1400.0	1459.8	1515.8	1538.2	1556.8	1590.5	1612.9	1627.8	1631.5
75°	1243.2	1310.4	1370.2	1426.2	1444.8	1467.2	1497.1	1519.5	1534.4	1538.2
77.5°	1157.4	1228.3	1284.3	1336.6	1355.2	1373.9	1407.5	1426.2	1441.1	1441.1
80°	1075.2	1142.4	1198.4	1247.0	1261.9	1284.3	1314.2	1332.8	1344.0	1351.5
82.5°	996.8	1060.3	1112.6	1157.4	1179.8	1194.7	1224.6	1243.2	1254.4	1261.9
85°	911.0	978.2	1030.4	1075.2	1090.2	1112.6	1138.7	1157.4	1168.6	1172.3
87.5°	832.6	892.3	944.6	996.8	1015.5	1030.4	1056.6	1075.2	1086.4	1093.9
90°	765.4	821.4	869.9	911.0	929.6	948.3	978.2	996.8	1008.0	1011.8
92.5°	716.8	772.8	817.6	858.7	877.4	892.3	918.4	937.1	948.3	952.0
95°	672.0	724.3	769.1	810.2	825.1	840.0	866.2	881.1	888.6	896.0
97.5°	623.5	679.5	720.6	757.9	776.6	787.8	813.9	828.8	840.0	843.8
100°	578.7	631.0	672.0	713.1	728.0	739.2	765.4	780.3	787.8	791.5
102.5°	533.9	586.2	627.2	664.6	679.5	690.7	713.1	728.0	739.2	743.0
105°	489.1	537.6	578.7	616.0	631.0	642.2	664.6	679.5	690.7	694.4
107.5°	448.0	492.8	533.9	567.5	582.4	593.6	616.0	631.0	642.2	645.9
110°	406.9	448.0	489.1	522.7	537.6	548.8	571.2	582.4	593.6	597.4





TEST NUMBER: P257104

CATALOG NUMBER: HGL-S-UF-40L835-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	362.1	406.9	444.3	477.9	489.1	504.0	522.7	537.6	545.1	548.8
115°	324.8	365.9	399.5	433.1	444.3	455.5	477.9	489.1	500.3	500.3
117.5°	283.7	321.1	358.4	388.3	399.5	410.7	433.1	444.3	451.7	455.5
120°	246.4	280.0	313.6	343.5	358.4	365.9	388.3	399.5	406.9	410.7
122.5°	209.1	242.7	276.3	302.4	313.6	324.8	343.5	354.7	362.1	365.9
125°	171.7	205.3	235.2	261.3	272.5	283.7	298.7	309.9	317.3	321.1
127.5°	138.1	168.0	197.9	220.3	231.5	242.7	257.6	268.8	276.3	280.0
130°	104.5	130.7	160.5	182.9	194.1	201.6	216.5	227.7	235.2	238.9
132.5°	70.9	97.1	123.2	145.6	156.8	164.3	179.2	186.7	194.1	197.9
135°	44.8	67.2	89.6	108.3	119.5	126.9	141.9	149.3	156.8	156.8
137.5°	22.4	41.1	59.7	74.7	82.1	93.3	104.5	112.0	115.7	119.5
140°	7.5	18.7	33.6	44.8	52.3	59.7	70.9	78.4	82.1	85.9
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)