

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: P257085

Luminaire Tested: **HGL-S-UF-50L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257085
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-50L840-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: 10217.4 lumens
Efficiency: N/A
Efficacy: 137.0 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

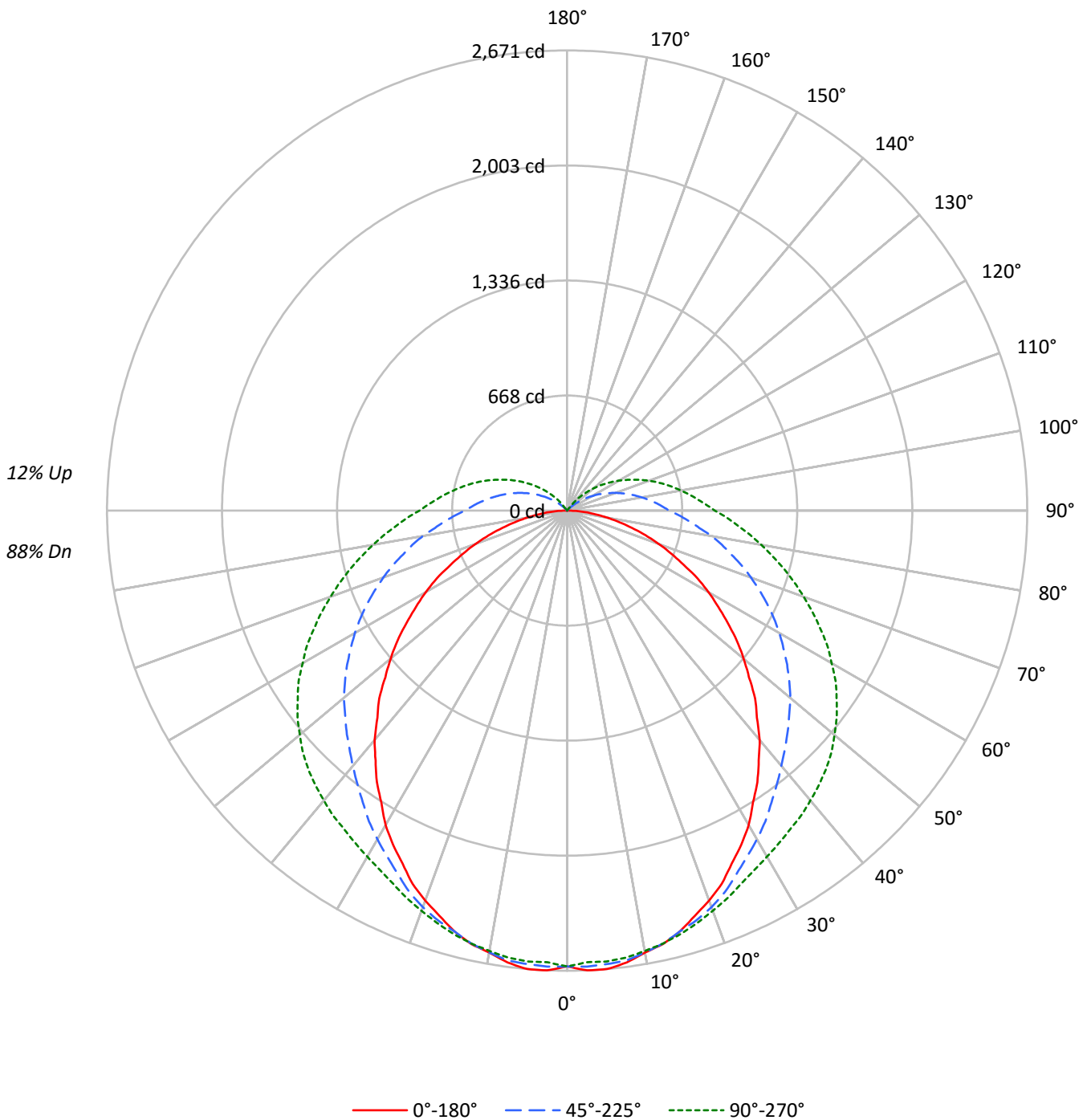
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

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°	15535	15535	15535
5°	15725	15137	14890
10°	15494	14674	14325
15°	15318	14121	13788
20°	14979	13663	13253
25°	14554	13059	12774
30°	14188	12543	12460
35°	13674	12032	12272
40°	13181	11607	12189
45°	12645	11303	12126
50°	12027	11081	12005
55°	11436	10836	11851
60°	10891	10621	11651
65°	10082	10407	11409
70°	9379	10209	11149
75°	8411	10016	10957
80°	7365	10001	10814
85°	6116	10026	10793



TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	2.5
10°-20°	712.6	7.0
20°-30°	1069.2	10.5
30°-40°	1298.2	12.7
40°-50°	1402.2	13.7
50°-60°	1373.3	13.4
60°-70°	1218.1	11.9
70°-80°	975.7	9.5
80°-90°	707.1	6.9
90°-100°	498.4	4.9
100°-110°	347.6	3.4
110°-120°	215.2	2.1
120°-130°	109.5	1.1
130°-140°	37.9	0.4
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2032.5	19.9
0°-40°	3330.7	32.6
0°-60°	6106.1	59.8
0°-90°	9007.0	88.2
90°-120°	1061.2	10.4
90°-150°	1210.4	11.8
90°-180°	1210.0	11.8
0°-180°	10217.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2671	2646	2643	2630	2627	253
15°	2529	2510	2529	2551	2545	711
25°	2260	2267	2327	2365	2390	1043
35°	1925	1938	2067	2191	2257	1202
45°	1543	1584	1811	2036	2124	1185
55°	1138	1233	1558	1814	1909	1020
65°	746	923	1280	1527	1622	745
75°	389	635	986	1223	1302	415
85°	104	389	711	923	993	113
90°	3	284	591	787	857	8
95°	0	224	515	699	759	0
105°	0	120	370	534	588	0
115°	0	38	234	376	424	0
125°	0	0	114	231	272	0
135°	0	0	19	101	133	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: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9
2.5°	2671.2	2668.0	2658.5	2649.1	2645.9	2645.9	2642.7	2639.6	2639.6	2636.4	2649.1
5°	2671.2	2668.0	2658.5	2645.9	2642.7	2645.9	2642.7	2636.4	2636.4	2633.3	2642.7
7.5°	2645.9	2639.6	2633.3	2623.8	2620.6	2620.6	2617.5	2617.5	2617.5	2617.5	2633.3
10°	2604.8	2601.6	2595.3	2585.8	2585.8	2582.7	2582.7	2585.8	2585.8	2589.0	2604.8
12.5°	2576.4	2570.0	2560.6	2551.1	2547.9	2547.9	2544.7	2541.6	2544.7	2547.9	2573.2
15°	2528.9	2525.8	2519.5	2510.0	2510.0	2510.0	2510.0	2506.8	2506.8	2510.0	2528.9
17.5°	2465.7	2459.4	2456.2	2449.9	2453.1	2456.2	2459.4	2456.2	2462.6	2472.0	2494.2
20°	2408.8	2402.5	2396.2	2386.7	2386.7	2389.8	2393.0	2393.0	2408.8	2421.5	2449.9
22.5°	2345.6	2342.4	2336.1	2332.9	2332.9	2336.1	2336.1	2329.8	2339.3	2358.2	2396.2
25°	2260.2	2257.1	2253.9	2253.9	2260.2	2266.6	2269.7	2272.9	2282.4	2295.0	2326.6
27.5°	2187.5	2184.4	2178.1	2171.7	2178.1	2184.4	2187.5	2193.9	2212.8	2238.1	2263.4
30°	2108.5	2105.3	2102.2	2102.2	2108.5	2111.7	2114.8	2111.7	2137.0	2174.9	2203.3
32.5°	2007.3	2004.2	2007.3	2007.3	2023.2	2032.6	2039.0	2042.1	2064.2	2099.0	2140.1
35°	1925.2	1925.2	1922.0	1928.3	1931.5	1937.8	1944.1	1959.9	1991.5	2026.3	2067.4
37.5°	1827.2	1827.2	1827.2	1843.0	1855.6	1858.8	1861.9	1880.9	1922.0	1956.8	2001.0
40°	1738.6	1738.6	1738.6	1745.0	1754.5	1763.9	1776.6	1798.7	1839.8	1890.4	1934.6
42.5°	1631.2	1634.3	1640.7	1656.5	1669.1	1675.4	1684.9	1719.7	1763.9	1824.0	1871.4
45°	1542.7	1539.5	1545.8	1558.5	1571.1	1583.7	1599.6	1637.5	1691.2	1757.6	1811.4
47.5°	1432.0	1435.2	1441.5	1463.6	1479.4	1495.2	1514.2	1558.5	1621.7	1688.1	1748.1
50°	1337.2	1340.3	1356.1	1368.8	1384.6	1403.6	1425.7	1482.6	1552.1	1618.5	1691.2
52.5°	1242.3	1245.5	1258.1	1267.6	1292.9	1315.0	1343.5	1406.7	1479.4	1552.1	1624.8
55°	1138.0	1144.3	1153.8	1176.0	1207.6	1232.9	1264.5	1334.0	1406.7	1485.8	1558.5
57.5°	1040.0	1043.2	1059.0	1081.1	1119.1	1150.7	1188.6	1261.3	1340.3	1416.2	1488.9
60°	948.4	954.7	964.2	992.6	1043.2	1074.8	1112.7	1188.6	1270.8	1346.7	1422.5
62.5°	853.5	859.8	872.5	904.1	964.2	998.9	1040.0	1119.1	1201.2	1277.1	1353.0
65°	746.0	752.4	771.3	812.4	885.1	923.1	964.2	1046.3	1125.4	1204.4	1280.3
67.5°	654.4	657.5	682.8	727.1	802.9	850.4	894.6	973.6	1052.7	1131.7	1207.6
70°	565.9	572.2	591.1	651.2	733.4	771.3	818.7	904.1	983.1	1062.2	1134.9
72.5°	477.3	483.7	512.1	578.5	663.8	704.9	742.9	834.6	913.6	989.4	1062.2
75°	388.8	398.3	436.2	512.1	594.3	635.4	676.5	758.7	844.0	916.7	986.3
77.5°	309.8	319.3	366.7	445.7	527.9	569.0	610.1	689.1	768.2	847.2	919.9
80°	233.9	246.6	303.5	382.5	464.7	505.8	543.7	625.9	701.8	774.5	850.4
82.5°	167.5	183.3	249.7	325.6	407.8	445.7	483.7	562.7	638.6	708.1	774.5
85°	104.3	132.8	199.2	271.9	350.9	388.8	426.8	505.8	578.5	648.0	711.3
87.5°	50.6	88.5	151.7	221.3	297.2	335.1	373.0	448.9	518.4	588.0	651.2
90°	3.2	50.6	107.5	173.9	249.7	284.5	322.4	395.1	464.7	531.1	591.1
92.5°	0.0	31.6	85.4	148.6	218.1	256.1	290.8	363.5	429.9	496.3	553.2
95°	0.0	15.8	66.4	126.4	192.8	224.4	259.2	328.8	395.1	458.4	515.3
97.5°	0.0	3.2	47.4	101.2	164.4	199.2	230.8	297.2	363.5	423.6	477.3
100°	0.0	0.0	31.6	82.2	139.1	170.7	202.3	265.5	328.8	385.7	439.4
102.5°	0.0	0.0	15.8	63.2	117.0	145.4	173.9	237.1	297.2	354.1	404.6
105°	0.0	0.0	3.2	44.3	94.8	120.1	148.6	205.5	265.5	319.3	369.9
107.5°	0.0	0.0	0.0	25.3	72.7	98.0	123.3	177.0	233.9	284.5	331.9
110°	0.0	0.0	0.0	12.6	53.7	75.9	101.2	151.7	202.3	252.9	300.3



TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	3.2	34.8	56.9	79.0	126.4	173.9	221.3	265.5
115°	0.0	0.0	0.0	0.0	19.0	37.9	56.9	101.2	145.4	192.8	233.9
117.5°	0.0	0.0	0.0	0.0	6.3	22.1	37.9	79.0	120.1	161.2	202.3
120°	0.0	0.0	0.0	0.0	0.0	9.5	22.1	56.9	94.8	132.8	170.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	34.8	69.5	107.5	142.3
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	47.4	82.2	113.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	28.5	56.9	85.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	34.8	60.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	19.0	37.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	19.0
137.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
140°	3.2	3.2	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



TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9
2.5°	2658.5	2645.9	2645.9	2642.7	2639.6	2636.4	2630.1	2626.9	2620.6	2623.8
5°	2652.2	2639.6	2639.6	2633.3	2630.1	2630.1	2626.9	2626.9	2623.8	2626.9
7.5°	2642.7	2626.9	2626.9	2620.6	2617.5	2614.3	2614.3	2614.3	2614.3	2617.5
10°	2617.5	2608.0	2608.0	2604.8	2601.6	2595.3	2592.2	2595.3	2592.2	2595.3
12.5°	2582.7	2573.2	2579.5	2579.5	2579.5	2573.2	2570.0	2573.2	2570.0	2573.2
15°	2538.4	2535.3	2544.7	2547.9	2551.1	2547.9	2544.7	2544.7	2544.7	2544.7
17.5°	2494.2	2491.0	2503.7	2510.0	2510.0	2510.0	2510.0	2506.8	2506.8	2510.0
20°	2456.2	2443.6	2449.9	2462.6	2465.7	2465.7	2468.9	2472.0	2472.0	2472.0
22.5°	2402.5	2396.2	2399.3	2408.8	2415.1	2418.3	2427.8	2427.8	2430.9	2434.1
25°	2339.3	2348.8	2351.9	2361.4	2364.6	2370.9	2383.5	2389.8	2389.8	2389.8
27.5°	2272.9	2291.9	2304.5	2310.8	2317.1	2323.5	2339.3	2351.9	2351.9	2351.9
30°	2209.7	2228.6	2253.9	2266.6	2272.9	2279.2	2301.3	2317.1	2320.3	2320.3
32.5°	2143.3	2168.6	2206.5	2225.5	2228.6	2238.1	2266.6	2285.5	2288.7	2288.7
35°	2086.4	2118.0	2159.1	2184.4	2190.7	2200.2	2231.8	2253.9	2257.1	2257.1
37.5°	2035.8	2067.4	2111.7	2146.4	2152.8	2165.4	2197.0	2225.5	2228.6	2231.8
40°	1978.9	2016.8	2061.1	2102.2	2114.8	2127.5	2162.2	2190.7	2190.7	2197.0
42.5°	1922.0	1969.4	2013.7	2061.1	2076.9	2089.5	2127.5	2155.9	2162.2	2162.2
45°	1861.9	1922.0	1966.3	2016.8	2035.8	2048.4	2083.2	2114.8	2124.3	2124.3
47.5°	1808.2	1871.4	1915.7	1966.3	1985.2	2004.2	2035.8	2067.4	2076.9	2080.1
50°	1748.1	1817.7	1861.9	1909.4	1934.6	1953.6	1985.2	2020.0	2029.5	2026.3
52.5°	1688.1	1754.5	1801.9	1852.4	1877.7	1896.7	1925.2	1963.1	1972.6	1972.6
55°	1624.8	1691.2	1741.8	1789.2	1814.5	1839.8	1868.3	1899.9	1912.5	1909.4
57.5°	1561.6	1621.7	1675.4	1726.0	1748.1	1773.4	1801.9	1833.5	1843.0	1849.3
60°	1495.2	1549.0	1609.0	1656.5	1678.6	1703.9	1732.3	1760.8	1776.6	1773.4
62.5°	1422.5	1482.6	1539.5	1583.7	1605.9	1631.2	1659.6	1684.9	1697.6	1703.9
65°	1349.8	1406.7	1460.5	1507.9	1526.8	1552.1	1583.7	1602.7	1618.5	1621.7
67.5°	1274.0	1330.9	1384.6	1435.2	1454.1	1476.3	1504.7	1523.7	1539.5	1542.7
70°	1198.1	1258.1	1311.9	1359.3	1378.3	1397.2	1425.7	1444.7	1460.5	1460.5
72.5°	1125.4	1185.4	1236.0	1283.4	1302.4	1318.2	1346.7	1365.6	1378.3	1381.4
75°	1052.7	1109.6	1160.2	1207.6	1223.4	1242.3	1267.6	1286.6	1299.2	1302.4
77.5°	980.0	1040.0	1087.4	1131.7	1147.5	1163.3	1191.8	1207.6	1220.2	1220.2
80°	910.4	967.3	1014.7	1055.8	1068.5	1087.4	1112.7	1128.5	1138.0	1144.3
82.5°	844.0	897.8	942.0	980.0	998.9	1011.6	1036.9	1052.7	1062.2	1068.5
85°	771.3	828.2	872.5	910.4	923.1	942.0	964.2	980.0	989.4	992.6
87.5°	704.9	755.5	799.8	844.0	859.8	872.5	894.6	910.4	919.9	926.2
90°	648.0	695.5	736.6	771.3	787.1	802.9	828.2	844.0	853.5	856.7
92.5°	606.9	654.4	692.3	727.1	742.9	755.5	777.6	793.5	802.9	806.1
95°	569.0	613.3	651.2	686.0	698.6	711.3	733.4	746.0	752.4	758.7
97.5°	527.9	575.3	610.1	641.7	657.5	667.0	689.1	701.8	711.3	714.4
100°	490.0	534.2	569.0	603.8	616.4	625.9	648.0	660.7	667.0	670.2
102.5°	452.0	496.3	531.1	562.7	575.3	584.8	603.8	616.4	625.9	629.1
105°	414.1	455.2	490.0	521.6	534.2	543.7	562.7	575.3	584.8	588.0
107.5°	379.3	417.3	452.0	480.5	493.1	502.6	521.6	534.2	543.7	546.9
110°	344.6	379.3	414.1	442.6	455.2	464.7	483.7	493.1	502.6	505.8



TEST NUMBER: P257085

CATALOG NUMBER: HGL-S-UF-50L840-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	306.6	344.6	376.2	404.6	414.1	426.8	442.6	455.2	461.5	464.7
115°	275.0	309.8	338.2	366.7	376.2	385.7	404.6	414.1	423.6	423.6
117.5°	240.2	271.9	303.5	328.8	338.2	347.7	366.7	376.2	382.5	385.7
120°	208.6	237.1	265.5	290.8	303.5	309.8	328.8	338.2	344.6	347.7
122.5°	177.0	205.5	233.9	256.1	265.5	275.0	290.8	300.3	306.6	309.8
125°	145.4	173.9	199.2	221.3	230.8	240.2	252.9	262.4	268.7	271.9
127.5°	117.0	142.3	167.5	186.5	196.0	205.5	218.1	227.6	233.9	237.1
130°	88.5	110.6	135.9	154.9	164.4	170.7	183.3	192.8	199.2	202.3
132.5°	60.1	82.2	104.3	123.3	132.8	139.1	151.7	158.1	164.4	167.5
135°	37.9	56.9	75.9	91.7	101.2	107.5	120.1	126.4	132.8	132.8
137.5°	19.0	34.8	50.6	63.2	69.5	79.0	88.5	94.8	98.0	101.2
140°	6.3	15.8	28.5	37.9	44.3	50.6	60.1	66.4	69.5	72.7
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)