

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: P257098

Luminaire Tested: **HGL-S-UF-30L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257098
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-30L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9209.4 lumens
Efficiency: N/A
Efficacy: 141.5 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

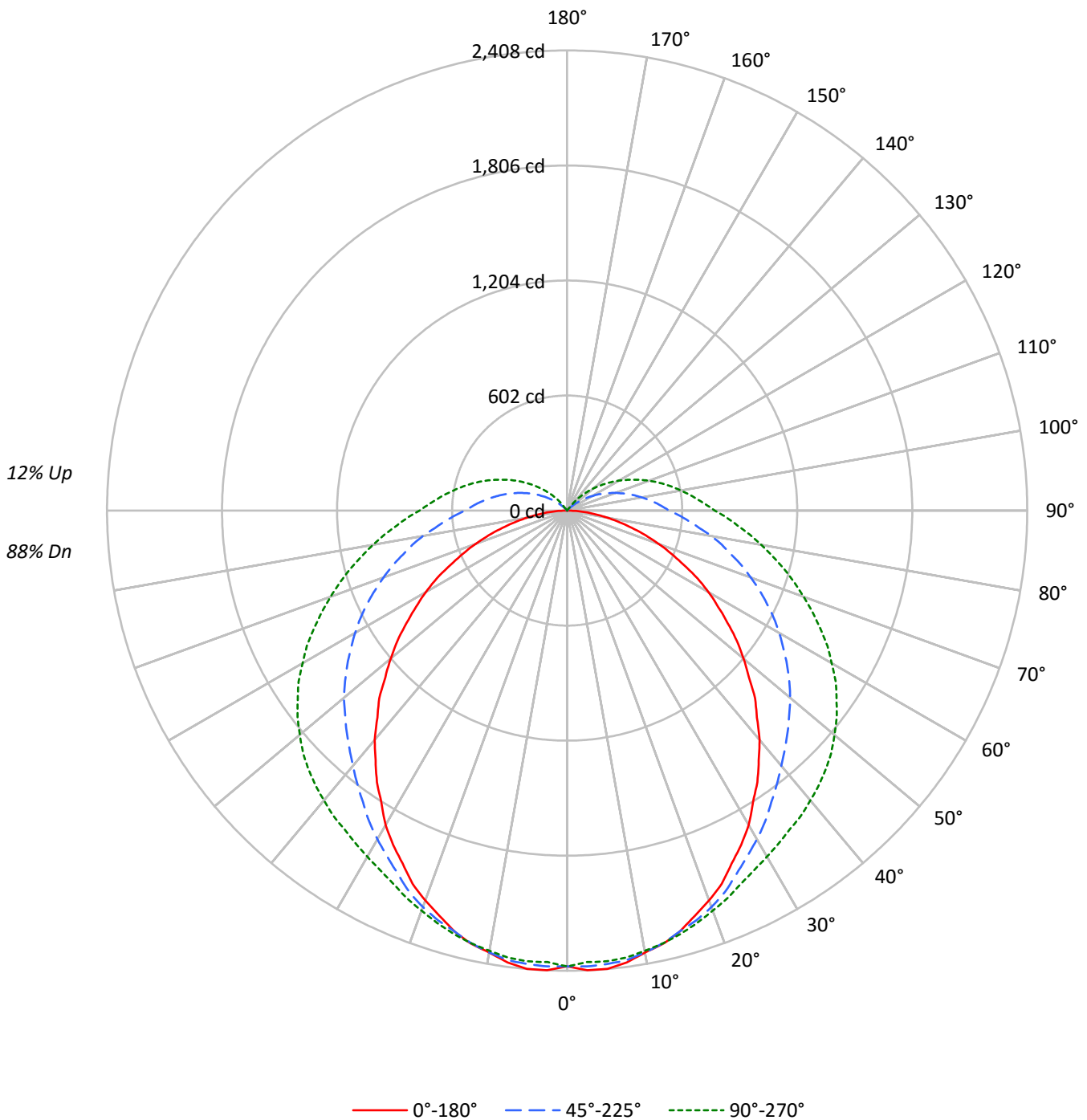
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9335	9335	9335
5°	9453	9098	8947
10°	9317	8822	8608
15°	9215	8491	8285
20°	9015	8218	7964
25°	8763	7857	7676
30°	8547	7549	7487
35°	8241	7243	7374
40°	7949	6989	7325
45°	7631	6808	7287
50°	7264	6676	7214
55°	6914	6531	7121
60°	6593	6404	7001
65°	6114	6278	6855
70°	5701	6161	6699
75°	5134	6049	6584
80°	4529	6046	6498
85°	3840	6069	6485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	2.5
10°-20°	642.3	7.0
20°-30°	963.8	10.5
30°-40°	1170.1	12.7
40°-50°	1263.8	13.7
50°-60°	1237.8	13.4
60°-70°	1097.9	11.9
70°-80°	879.4	9.5
80°-90°	637.4	6.9
90°-100°	449.2	4.9
100°-110°	313.3	3.4
110°-120°	194.0	2.1
120°-130°	98.7	1.1
130°-140°	34.2	0.4
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1831.9	19.9
0°-40°	3002.1	32.6
0°-60°	5503.7	59.8
0°-90°	8118.4	88.2
90°-120°	956.5	10.4
90°-150°	1091.0	11.8
90°-180°	1091.0	11.8
0°-180°	9209.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2408	2385	2382	2371	2368	228
15°	2279	2262	2279	2299	2294	641
25°	2037	2043	2097	2131	2154	940
35°	1735	1747	1863	1975	2034	1084
45°	1390	1428	1633	1835	1915	1068
55°	1026	1111	1405	1636	1721	919
65°	672	832	1154	1376	1462	671
75°	350	573	889	1103	1174	374
85°	94	350	641	832	895	101
90°	3	256	533	710	772	7
95°	0	202	464	630	684	0
105°	0	108	333	482	530	0
115°	0	34	211	339	382	0
125°	0	0	103	208	245	0
135°	0	0	17	91	120	1
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°	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9
2.5°	2407.7	2404.8	2396.3	2387.7	2384.9	2384.9	2382.0	2379.2	2379.2	2376.3	2387.7
5°	2407.7	2404.8	2396.3	2384.9	2382.0	2384.9	2382.0	2376.3	2376.3	2373.5	2382.0
7.5°	2384.9	2379.2	2373.5	2364.9	2362.1	2362.1	2359.2	2359.2	2359.2	2359.2	2373.5
10°	2347.8	2345.0	2339.3	2330.7	2330.7	2327.9	2327.9	2330.7	2330.7	2333.6	2347.8
12.5°	2322.2	2316.5	2307.9	2299.4	2296.5	2296.5	2293.7	2290.8	2293.7	2296.5	2319.3
15°	2279.4	2276.6	2270.9	2262.3	2262.3	2262.3	2262.3	2259.5	2259.5	2262.3	2279.4
17.5°	2222.5	2216.8	2213.9	2208.2	2211.1	2213.9	2216.8	2213.9	2219.6	2228.2	2248.1
20°	2171.2	2165.5	2159.8	2151.2	2151.2	2154.1	2156.9	2156.9	2171.2	2182.6	2208.2
22.5°	2114.2	2111.3	2105.6	2102.8	2102.8	2105.6	2105.6	2099.9	2108.5	2125.6	2159.8
25°	2037.3	2034.4	2031.6	2031.6	2037.3	2043.0	2045.8	2048.7	2057.2	2068.6	2097.1
27.5°	1971.7	1968.9	1963.2	1957.5	1963.2	1968.9	1971.7	1977.4	1994.5	2017.3	2040.1
30°	1900.5	1897.6	1894.8	1894.8	1900.5	1903.3	1906.2	1903.3	1926.1	1960.3	1986.0
32.5°	1809.3	1806.5	1809.3	1809.3	1823.6	1832.1	1837.8	1840.7	1860.6	1891.9	1929.0
35°	1735.2	1735.2	1732.4	1738.1	1740.9	1746.6	1752.3	1766.6	1795.1	1826.4	1863.4
37.5°	1646.9	1646.9	1646.9	1661.1	1672.5	1675.4	1678.2	1695.3	1732.4	1763.7	1803.6
40°	1567.1	1567.1	1567.1	1572.8	1581.4	1589.9	1601.3	1621.3	1658.3	1703.9	1743.8
42.5°	1470.2	1473.1	1478.8	1493.0	1504.4	1510.1	1518.7	1550.0	1589.9	1644.0	1686.8
45°	1390.5	1387.6	1393.3	1404.7	1416.1	1427.5	1441.7	1475.9	1524.4	1584.2	1632.7
47.5°	1290.7	1293.6	1299.3	1319.2	1333.5	1347.7	1364.8	1404.7	1461.7	1521.5	1575.7
50°	1205.3	1208.1	1222.4	1233.7	1248.0	1265.1	1285.0	1336.3	1399.0	1458.8	1524.4
52.5°	1119.8	1122.6	1134.0	1142.6	1165.4	1185.3	1211.0	1267.9	1333.5	1399.0	1464.5
55°	1025.8	1031.4	1040.0	1059.9	1088.4	1111.2	1139.7	1202.4	1267.9	1339.2	1404.7
57.5°	937.4	940.3	954.5	974.5	1008.7	1037.1	1071.3	1136.9	1208.1	1276.5	1342.0
60°	854.8	860.5	869.0	894.7	940.3	968.8	1003.0	1071.3	1145.4	1213.8	1282.2
62.5°	769.3	775.0	786.4	814.9	869.0	900.4	937.4	1008.7	1082.7	1151.1	1219.5
65°	672.4	678.1	695.2	732.3	797.8	832.0	869.0	943.1	1014.4	1085.6	1154.0
67.5°	589.8	592.7	615.5	655.3	723.7	766.5	806.4	877.6	948.8	1020.1	1088.4
70°	510.0	515.7	532.8	587.0	661.0	695.2	738.0	814.9	886.1	957.4	1022.9
72.5°	430.2	435.9	461.6	521.4	598.4	635.4	669.6	752.2	823.4	891.8	957.4
75°	350.5	359.0	393.2	461.6	535.7	572.7	609.8	683.8	760.8	826.3	889.0
77.5°	279.2	287.8	330.5	401.8	475.8	512.9	549.9	621.1	692.4	763.6	829.1
80°	210.8	222.2	273.5	344.8	418.8	455.9	490.1	564.2	632.5	698.1	766.5
82.5°	151.0	165.3	225.1	293.5	367.6	401.8	435.9	507.2	575.6	638.2	698.1
85°	94.0	119.7	179.5	245.0	316.3	350.5	384.7	455.9	521.4	584.1	641.1
87.5°	45.6	79.8	136.8	199.5	267.8	302.0	336.2	404.6	467.3	530.0	587.0
90°	2.8	45.6	96.9	156.7	225.1	256.4	290.6	356.2	418.8	478.7	532.8
92.5°	0.0	28.5	76.9	133.9	196.6	230.8	262.1	327.7	387.5	447.3	498.6
95°	0.0	14.2	59.8	114.0	173.8	202.3	233.6	296.3	356.2	413.1	464.4
97.5°	0.0	2.8	42.7	91.2	148.2	179.5	208.0	267.8	327.7	381.8	430.2
100°	0.0	0.0	28.5	74.1	125.4	153.9	182.4	239.3	296.3	347.6	396.1
102.5°	0.0	0.0	14.2	57.0	105.4	131.1	156.7	213.7	267.8	319.1	364.7
105°	0.0	0.0	2.8	39.9	85.5	108.3	133.9	185.2	239.3	287.8	333.4
107.5°	0.0	0.0	0.0	22.8	65.5	88.3	111.1	159.6	210.8	256.4	299.2
110°	0.0	0.0	0.0	11.4	48.4	68.4	91.2	136.8	182.4	227.9	270.7



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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	2.8	31.3	51.3	71.2	114.0	156.7	199.5	239.3
115°	0.0	0.0	0.0	0.0	17.1	34.2	51.3	91.2	131.1	173.8	210.8
117.5°	0.0	0.0	0.0	0.0	5.7	19.9	34.2	71.2	108.3	145.3	182.4
120°	0.0	0.0	0.0	0.0	0.0	8.5	19.9	51.3	85.5	119.7	153.9
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	31.3	62.7	96.9	128.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	42.7	74.1	102.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	25.6	51.3	76.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	31.3	54.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	17.1	34.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	17.1
137.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
140°	2.8	2.8	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°	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9	2384.9
2.5°	2396.3	2384.9	2384.9	2382.0	2379.2	2376.3	2370.6	2367.8	2362.1	2364.9
5°	2390.6	2379.2	2379.2	2373.5	2370.6	2370.6	2367.8	2367.8	2364.9	2367.8
7.5°	2382.0	2367.8	2367.8	2362.1	2359.2	2356.4	2356.4	2356.4	2356.4	2359.2
10°	2359.2	2350.7	2350.7	2347.8	2345.0	2339.3	2336.4	2339.3	2336.4	2339.3
12.5°	2327.9	2319.3	2325.0	2325.0	2325.0	2319.3	2316.5	2319.3	2316.5	2319.3
15°	2288.0	2285.1	2293.7	2296.5	2299.4	2296.5	2293.7	2293.7	2293.7	2293.7
17.5°	2248.1	2245.3	2256.7	2262.3	2262.3	2262.3	2262.3	2259.5	2259.5	2262.3
20°	2213.9	2202.5	2208.2	2219.6	2222.5	2222.5	2225.3	2228.2	2228.2	2228.2
22.5°	2165.5	2159.8	2162.6	2171.2	2176.9	2179.7	2188.3	2188.3	2191.1	2194.0
25°	2108.5	2117.0	2119.9	2128.4	2131.3	2137.0	2148.4	2154.1	2154.1	2154.1
27.5°	2048.7	2065.7	2077.1	2082.8	2088.5	2094.2	2108.5	2119.9	2119.9	2119.9
30°	1991.7	2008.8	2031.6	2043.0	2048.7	2054.3	2074.3	2088.5	2091.4	2091.4
32.5°	1931.8	1954.6	1988.8	2005.9	2008.8	2017.3	2043.0	2060.0	2062.9	2062.9
35°	1880.5	1909.0	1946.1	1968.9	1974.6	1983.1	2011.6	2031.6	2034.4	2034.4
37.5°	1835.0	1863.4	1903.3	1934.7	1940.4	1951.8	1980.3	2005.9	2008.8	2011.6
40°	1783.7	1817.9	1857.7	1894.8	1906.2	1917.6	1948.9	1974.6	1980.3	1980.3
42.5°	1732.4	1775.1	1815.0	1857.7	1872.0	1883.4	1917.6	1943.2	1948.9	1948.9
45°	1678.2	1732.4	1772.3	1817.9	1835.0	1846.4	1877.7	1906.2	1914.7	1914.7
47.5°	1629.8	1686.8	1726.7	1772.3	1789.4	1806.5	1835.0	1863.4	1872.0	1874.8
50°	1575.7	1638.4	1678.2	1721.0	1743.8	1760.9	1789.4	1820.7	1829.3	1826.4
52.5°	1521.5	1581.4	1624.1	1669.7	1692.5	1709.6	1735.2	1769.4	1778.0	1778.0
55°	1464.5	1524.4	1570.0	1612.7	1635.5	1658.3	1683.9	1712.4	1723.8	1721.0
57.5°	1407.6	1461.7	1510.1	1555.7	1575.7	1598.5	1624.1	1652.6	1661.1	1666.8
60°	1347.7	1396.2	1450.3	1493.0	1513.0	1535.8	1561.4	1587.1	1601.3	1598.5
62.5°	1282.2	1336.3	1387.6	1427.5	1447.4	1470.2	1495.9	1518.7	1530.1	1535.8
65°	1216.7	1267.9	1316.4	1359.1	1376.2	1399.0	1427.5	1444.6	1458.8	1461.7
67.5°	1148.3	1199.6	1248.0	1293.6	1310.7	1330.6	1356.3	1373.4	1387.6	1390.5
70°	1079.9	1134.0	1182.5	1225.2	1242.3	1259.4	1285.0	1302.1	1316.4	1316.4
72.5°	1014.4	1068.5	1114.1	1156.8	1173.9	1188.2	1213.8	1230.9	1242.3	1245.1
75°	948.8	1000.1	1045.7	1088.4	1102.7	1119.8	1142.6	1159.7	1171.1	1173.9
77.5°	883.3	937.4	980.2	1020.1	1034.3	1048.5	1074.2	1088.4	1099.8	1099.8
80°	820.6	871.9	914.6	951.7	963.1	980.2	1003.0	1017.2	1025.8	1031.4
82.5°	760.8	809.2	849.1	883.3	900.4	911.8	934.6	948.8	957.4	963.1
85°	695.2	746.5	786.4	820.6	832.0	849.1	869.0	883.3	891.8	894.7
87.5°	635.4	681.0	720.9	760.8	775.0	786.4	806.4	820.6	829.1	834.8
90°	584.1	626.8	663.9	695.2	709.5	723.7	746.5	760.8	769.3	772.2
92.5°	547.1	589.8	624.0	655.3	669.6	681.0	700.9	715.2	723.7	726.6
95°	512.9	552.8	587.0	618.3	629.7	641.1	661.0	672.4	678.1	683.8
97.5°	475.8	518.6	549.9	578.4	592.7	601.2	621.1	632.5	641.1	643.9
100°	441.6	481.5	512.9	544.2	555.6	564.2	584.1	595.5	601.2	604.1
102.5°	407.5	447.3	478.7	507.2	518.6	527.1	544.2	555.6	564.2	567.0
105°	373.3	410.3	441.6	470.1	481.5	490.1	507.2	518.6	527.1	530.0
107.5°	341.9	376.1	407.5	433.1	444.5	453.0	470.1	481.5	490.1	492.9
110°	310.6	341.9	373.3	398.9	410.3	418.8	435.9	444.5	453.0	455.9



TEST NUMBER: P257098

CATALOG NUMBER: HGL-S-UF-30L830-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	276.4	310.6	339.1	364.7	373.3	384.7	398.9	410.3	416.0	418.8
115°	247.9	279.2	304.9	330.5	339.1	347.6	364.7	373.3	381.8	381.8
117.5°	216.5	245.0	273.5	296.3	304.9	313.4	330.5	339.1	344.8	347.6
120°	188.1	213.7	239.3	262.1	273.5	279.2	296.3	304.9	310.6	313.4
122.5°	159.6	185.2	210.8	230.8	239.3	247.9	262.1	270.7	276.4	279.2
125°	131.1	156.7	179.5	199.5	208.0	216.5	227.9	236.5	242.2	245.0
127.5°	105.4	128.2	151.0	168.1	176.7	185.2	196.6	205.2	210.8	213.7
130°	79.8	99.7	122.5	139.6	148.2	153.9	165.3	173.8	179.5	182.4
132.5°	54.1	74.1	94.0	111.1	119.7	125.4	136.8	142.5	148.2	151.0
135°	34.2	51.3	68.4	82.6	91.2	96.9	108.3	114.0	119.7	119.7
137.5°	17.1	31.3	45.6	57.0	62.7	71.2	79.8	85.5	88.3	91.2
140°	5.7	14.2	25.6	34.2	39.9	45.6	54.1	59.8	62.7	65.5
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)