

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: P257060

Luminaire Tested: **HGL-S-UF-80L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257060
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-80L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8343.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

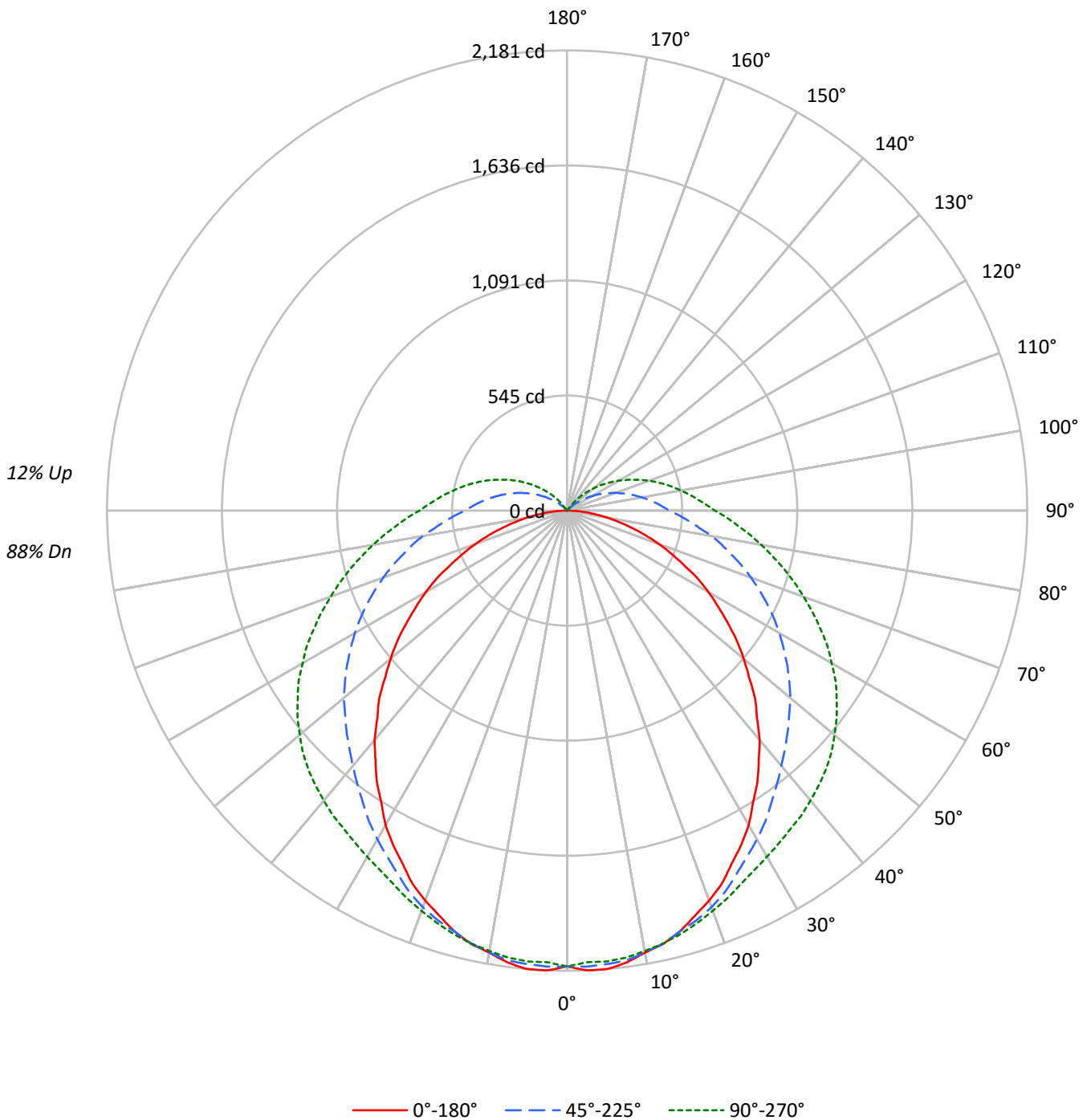
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

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°	25370	25370	25370
5°	25652	24701	24317
10°	25246	23928	23393
15°	24930	23008	22518
20°	24348	22247	21644
25°	23625	21248	20861
30°	22999	20393	20350
35°	22131	19549	20041
40°	21297	18842	19907
45°	20388	18333	19804
50°	19346	17956	19606
55°	18343	17540	19354
60°	17402	17172	19028
65°	16031	16802	18631
70°	14803	16454	18206
75°	13129	16110	17894
80°	11254	16041	17660
85°	8846	16021	17625



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	2.5
10°-20°	581.9	7.0
20°-30°	873.1	10.5
30°-40°	1060.0	12.7
40°-50°	1145.0	13.7
50°-60°	1121.4	13.4
60°-70°	994.6	11.9
70°-80°	796.7	9.5
80°-90°	577.4	6.9
90°-100°	406.9	4.9
100°-110°	283.9	3.4
110°-120°	175.7	2.1
120°-130°	89.4	1.1
130°-140°	31.0	0.4
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1659.6	19.9
0°-40°	2719.7	32.6
0°-60°	4986.0	59.8
0°-90°	7354.7	88.2
90°-120°	866.6	10.4
90°-150°	988.4	11.8
90°-180°	988.0	11.8
0°-180°	8343.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2181	2160	2158	2148	2145	206
15°	2065	2050	2065	2083	2078	581
25°	1846	1851	1900	1931	1951	852
35°	1572	1582	1688	1789	1843	982
45°	1260	1293	1479	1662	1735	968
55°	929	1007	1273	1482	1559	833
65°	609	754	1045	1247	1324	608
75°	318	519	805	999	1064	339
85°	85	318	581	754	810	92
90°	3	232	483	643	700	6
95°	0	183	421	570	620	0
105°	0	98	302	436	480	0
115°	0	31	191	307	346	0
125°	0	0	93	188	222	0
135°	0	0	16	83	108	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



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2181.2	2178.6	2170.9	2163.1	2160.5	2160.5	2157.9	2155.4	2155.4	2152.8	2163.1
5°	2181.2	2178.6	2170.9	2160.5	2157.9	2160.5	2157.9	2152.8	2152.8	2150.2	2157.9
7.5°	2160.5	2155.4	2150.2	2142.5	2139.9	2139.9	2137.3	2137.3	2137.3	2137.3	2150.2
10°	2127.0	2124.4	2119.2	2111.5	2111.5	2108.9	2108.9	2111.5	2111.5	2114.1	2127.0
12.5°	2103.7	2098.6	2090.8	2083.1	2080.5	2080.5	2077.9	2075.3	2077.9	2080.5	2101.2
15°	2065.0	2062.4	2057.3	2049.5	2049.5	2049.5	2049.5	2046.9	2046.9	2049.5	2065.0
17.5°	2013.4	2008.2	2005.6	2000.5	2003.1	2005.6	2008.2	2005.6	2010.8	2018.6	2036.6
20°	1966.9	1961.8	1956.6	1948.9	1948.9	1951.4	1954.0	1954.0	1966.9	1977.3	2000.5
22.5°	1915.3	1912.7	1907.6	1905.0	1905.0	1907.6	1907.6	1902.4	1910.1	1925.6	1956.6
25°	1845.6	1843.0	1840.4	1840.4	1845.6	1850.8	1853.4	1855.9	1863.7	1874.0	1899.8
27.5°	1786.2	1783.7	1778.5	1773.3	1778.5	1783.7	1786.2	1791.4	1806.9	1827.5	1848.2
30°	1721.7	1719.1	1716.5	1716.5	1721.7	1724.3	1726.9	1724.3	1744.9	1775.9	1799.1
32.5°	1639.1	1636.5	1639.1	1639.1	1652.0	1659.8	1664.9	1667.5	1685.6	1714.0	1747.5
35°	1572.0	1572.0	1569.4	1574.6	1577.2	1582.3	1587.5	1600.4	1626.2	1654.6	1688.2
37.5°	1492.0	1492.0	1492.0	1504.9	1515.2	1517.8	1520.4	1535.9	1569.4	1597.8	1633.9
40°	1419.7	1419.7	1419.7	1424.9	1432.6	1440.3	1450.7	1468.7	1502.3	1543.6	1579.7
42.5°	1331.9	1334.5	1339.7	1352.6	1362.9	1368.1	1375.8	1404.2	1440.3	1489.4	1528.1
45°	1259.7	1257.1	1262.2	1272.6	1282.9	1293.2	1306.1	1337.1	1381.0	1435.2	1479.1
47.5°	1169.3	1171.9	1177.1	1195.1	1208.0	1220.9	1236.4	1272.6	1324.2	1378.4	1427.4
50°	1091.9	1094.5	1107.4	1117.7	1130.6	1146.1	1164.2	1210.6	1267.4	1321.6	1381.0
52.5°	1014.4	1017.0	1027.3	1035.1	1055.7	1073.8	1097.0	1148.7	1208.0	1267.4	1326.8
55°	929.3	934.4	942.2	960.2	986.0	1006.7	1032.5	1089.3	1148.7	1213.2	1272.6
57.5°	849.2	851.8	864.7	882.8	913.8	939.6	970.6	1029.9	1094.5	1156.4	1215.8
60°	774.4	779.5	787.3	810.5	851.8	877.6	908.6	970.6	1037.7	1099.6	1161.6
62.5°	696.9	702.1	712.4	738.2	787.3	815.7	849.2	913.8	980.9	1042.8	1104.8
65°	609.2	614.3	629.8	663.4	722.8	753.7	787.3	854.4	918.9	983.5	1045.4
67.5°	534.3	536.9	557.6	593.7	655.6	694.4	730.5	795.0	859.6	924.1	986.0
70°	462.0	467.2	482.7	531.7	598.9	629.8	668.5	738.2	802.8	867.3	926.7
72.5°	389.8	394.9	418.2	472.4	542.1	575.6	606.6	681.5	746.0	807.9	867.3
75°	317.5	325.2	356.2	418.2	485.3	518.8	552.4	619.5	689.2	748.6	805.4
77.5°	253.0	260.7	299.4	364.0	431.1	464.6	498.2	562.7	627.2	691.8	751.2
80°	191.0	201.3	247.8	312.3	379.4	413.0	444.0	511.1	573.0	632.4	694.4
82.5°	136.8	149.7	203.9	265.9	333.0	364.0	394.9	459.5	521.4	578.2	632.4
85°	85.2	108.4	162.6	222.0	286.5	317.5	348.5	413.0	472.4	529.2	580.8
87.5°	41.3	72.3	123.9	180.7	242.6	273.6	304.6	366.5	423.3	480.1	531.7
90°	2.6	41.3	87.8	142.0	203.9	232.3	263.3	322.7	379.4	433.7	482.7
92.5°	0.0	25.8	69.7	121.3	178.1	209.1	237.5	296.8	351.1	405.3	451.7
95°	0.0	12.9	54.2	103.3	157.5	183.3	211.7	268.5	322.7	374.3	420.7
97.5°	0.0	2.6	38.7	82.6	134.2	162.6	188.4	242.6	296.8	345.9	389.8
100°	0.0	0.0	25.8	67.1	113.6	139.4	165.2	216.8	268.5	314.9	358.8
102.5°	0.0	0.0	12.9	51.6	95.5	118.7	142.0	193.6	242.6	289.1	330.4
105°	0.0	0.0	2.6	36.1	77.4	98.1	121.3	167.8	216.8	260.7	302.0
107.5°	0.0	0.0	0.0	20.7	59.4	80.0	100.7	144.6	191.0	232.3	271.0
110°	0.0	0.0	0.0	10.3	43.9	62.0	82.6	123.9	165.2	206.5	245.2



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	2.6	28.4	46.5	64.5	103.3	142.0	180.7	216.8
115°	0.0	0.0	0.0	0.0	15.5	31.0	46.5	82.6	118.7	157.5	191.0
117.5°	0.0	0.0	0.0	0.0	5.2	18.1	31.0	64.5	98.1	131.6	165.2
120°	0.0	0.0	0.0	0.0	0.0	7.7	18.1	46.5	77.4	108.4	139.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	28.4	56.8	87.8	116.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	38.7	67.1	92.9
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	23.2	46.5	69.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	28.4	49.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.5	31.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	15.5
137.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
140°	2.6	2.6	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



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2170.9	2160.5	2160.5	2157.9	2155.4	2152.8	2147.6	2145.0	2139.9	2142.5
5°	2165.7	2155.4	2155.4	2150.2	2147.6	2147.6	2145.0	2145.0	2142.5	2145.0
7.5°	2157.9	2145.0	2145.0	2139.9	2137.3	2134.7	2134.7	2134.7	2134.7	2137.3
10°	2137.3	2129.5	2129.5	2127.0	2124.4	2119.2	2116.6	2119.2	2116.6	2119.2
12.5°	2108.9	2101.2	2106.3	2106.3	2106.3	2101.2	2098.6	2101.2	2098.6	2101.2
15°	2072.8	2070.2	2077.9	2080.5	2083.1	2080.5	2077.9	2077.9	2077.9	2077.9
17.5°	2036.6	2034.0	2044.4	2049.5	2049.5	2049.5	2049.5	2046.9	2046.9	2049.5
20°	2005.6	1995.3	2000.5	2010.8	2013.4	2013.4	2016.0	2018.6	2018.6	2018.6
22.5°	1961.8	1956.6	1959.2	1966.9	1972.1	1974.7	1982.4	1982.4	1985.0	1987.6
25°	1910.1	1917.9	1920.5	1928.2	1930.8	1936.0	1946.3	1951.4	1951.4	1951.4
27.5°	1855.9	1871.4	1881.7	1886.9	1892.1	1897.2	1910.1	1920.5	1920.5	1920.5
30°	1804.3	1819.8	1840.4	1850.8	1855.9	1861.1	1879.2	1892.1	1894.7	1894.7
32.5°	1750.1	1770.8	1801.7	1817.2	1819.8	1827.5	1850.8	1866.3	1868.8	1868.8
35°	1703.6	1729.5	1763.0	1783.7	1788.8	1796.6	1822.4	1840.4	1843.0	1843.0
37.5°	1662.3	1688.2	1724.3	1752.7	1757.8	1768.2	1794.0	1817.2	1819.8	1822.4
40°	1615.9	1646.9	1683.0	1716.5	1726.9	1737.2	1765.6	1788.8	1794.0	1794.0
42.5°	1569.4	1608.1	1644.3	1683.0	1695.9	1706.2	1737.2	1760.4	1765.6	1765.6
45°	1520.4	1569.4	1605.6	1646.9	1662.3	1672.7	1701.1	1726.9	1734.6	1734.6
47.5°	1476.5	1528.1	1564.3	1605.6	1621.0	1636.5	1662.3	1688.2	1695.9	1698.5
50°	1427.4	1484.2	1520.4	1559.1	1579.7	1595.2	1621.0	1649.4	1657.2	1654.6
52.5°	1378.4	1432.6	1471.3	1512.6	1533.3	1548.8	1572.0	1603.0	1610.7	1610.7
55°	1326.8	1381.0	1422.3	1461.0	1481.7	1502.3	1525.5	1551.3	1561.7	1559.1
57.5°	1275.1	1324.2	1368.1	1409.4	1427.4	1448.1	1471.3	1497.1	1504.9	1510.0
60°	1220.9	1264.8	1313.9	1352.6	1370.7	1391.3	1414.5	1437.8	1450.7	1448.1
62.5°	1161.6	1210.6	1257.1	1293.2	1311.3	1331.9	1355.2	1375.8	1386.1	1391.3
65°	1102.2	1148.7	1192.5	1231.3	1246.8	1267.4	1293.2	1308.7	1321.6	1324.2
67.5°	1040.3	1086.7	1130.6	1171.9	1187.4	1205.5	1228.7	1244.2	1257.1	1259.7
70°	978.3	1027.3	1071.2	1109.9	1125.4	1140.9	1164.2	1179.6	1192.5	1192.5
72.5°	918.9	968.0	1009.3	1048.0	1063.5	1076.4	1099.6	1115.1	1125.4	1128.0
75°	859.6	906.0	947.3	986.0	999.0	1014.4	1035.1	1050.6	1060.9	1063.5
77.5°	800.2	849.2	888.0	924.1	937.0	949.9	973.1	986.0	996.4	996.4
80°	743.4	789.9	828.6	862.1	872.5	888.0	908.6	921.5	929.3	934.4
82.5°	689.2	733.1	769.2	800.2	815.7	826.0	846.7	859.6	867.3	872.5
85°	629.8	676.3	712.4	743.4	753.7	769.2	787.3	800.2	807.9	810.5
87.5°	575.6	616.9	653.1	689.2	702.1	712.4	730.5	743.4	751.2	756.3
90°	529.2	567.9	601.4	629.8	642.7	655.6	676.3	689.2	696.9	699.5
92.5°	495.6	534.3	565.3	593.7	606.6	616.9	635.0	647.9	655.6	658.2
95°	464.6	500.8	531.7	560.1	570.5	580.8	598.9	609.2	614.3	619.5
97.5°	431.1	469.8	498.2	524.0	536.9	544.6	562.7	573.0	580.8	583.4
100°	400.1	436.2	464.6	493.0	503.3	511.1	529.2	539.5	544.6	547.2
102.5°	369.1	405.3	433.7	459.5	469.8	477.5	493.0	503.3	511.1	513.7
105°	338.1	371.7	400.1	425.9	436.2	444.0	459.5	469.8	477.5	480.1
107.5°	309.8	340.7	369.1	392.4	402.7	410.4	425.9	436.2	444.0	446.6
110°	281.4	309.8	338.1	361.4	371.7	379.4	394.9	402.7	410.4	413.0



TEST NUMBER: P257060

CATALOG NUMBER: HGL-S-UF-80L840-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	250.4	281.4	307.2	330.4	338.1	348.5	361.4	371.7	376.9	379.4
115°	224.6	253.0	276.2	299.4	307.2	314.9	330.4	338.1	345.9	345.9
117.5°	196.2	222.0	247.8	268.5	276.2	283.9	299.4	307.2	312.3	314.9
120°	170.4	193.6	216.8	237.5	247.8	253.0	268.5	276.2	281.4	283.9
122.5°	144.6	167.8	191.0	209.1	216.8	224.6	237.5	245.2	250.4	253.0
125°	118.7	142.0	162.6	180.7	188.4	196.2	206.5	214.2	219.4	222.0
127.5°	95.5	116.2	136.8	152.3	160.0	167.8	178.1	185.9	191.0	193.6
130°	72.3	90.3	111.0	126.5	134.2	139.4	149.7	157.5	162.6	165.2
132.5°	49.0	67.1	85.2	100.7	108.4	113.6	123.9	129.1	134.2	136.8
135°	31.0	46.5	62.0	74.9	82.6	87.8	98.1	103.3	108.4	108.4
137.5°	15.5	28.4	41.3	51.6	56.8	64.5	72.3	77.4	80.0	82.6
140°	5.2	12.9	23.2	31.0	36.1	41.3	49.0	54.2	56.8	59.4
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)