

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: P257091

Luminaire Tested: **HGL-S-UF-60L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257091
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-60L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9009.5 lumens
Efficiency: N/A
Efficacy: 95.3 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

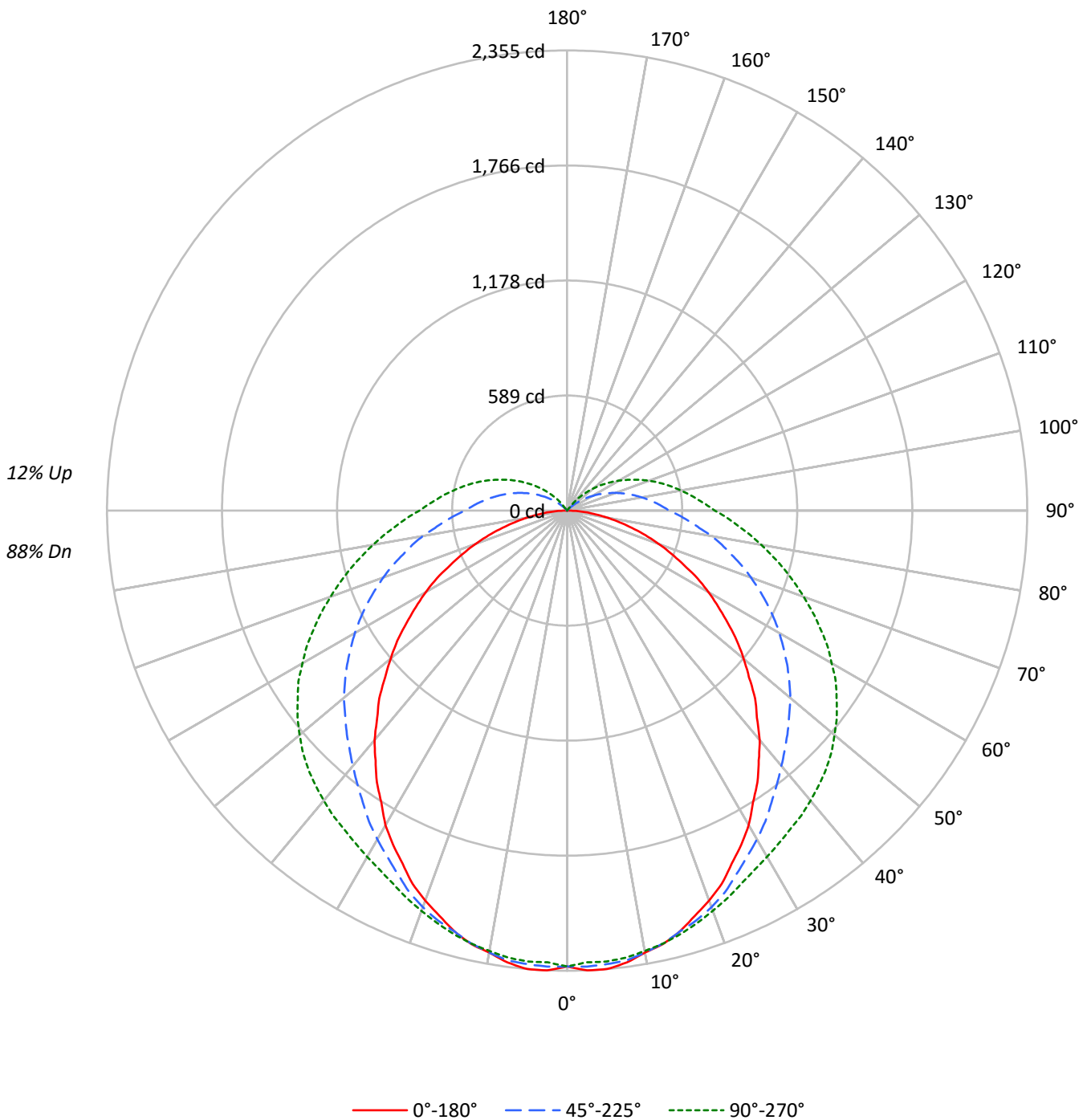
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	13698	13698	13698
5°	13866	13348	13130
10°	13662	12939	12631
15°	13508	12452	12158
20°	13208	12048	11686
25°	12833	11515	11264
30°	12510	11061	10987
35°	12058	10610	10821
40°	11623	10235	10749
45°	11150	9967	10693
50°	10605	9771	10586
55°	10084	9555	10450
60°	9602	9366	10274
65°	8890	9177	10060
70°	8270	9002	9830
75°	7418	8832	9661
80°	6496	8818	9536
85°	5395	8841	9517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	2.5
10°-20°	628.4	7.0
20°-30°	942.8	10.5
30°-40°	1144.7	12.7
40°-50°	1236.4	13.7
50°-60°	1210.9	13.4
60°-70°	1074.1	11.9
70°-80°	860.4	9.5
80°-90°	623.5	6.9
90°-100°	439.5	4.9
100°-110°	306.5	3.4
110°-120°	189.8	2.1
120°-130°	96.5	1.1
130°-140°	33.4	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°	1792.2	19.9
0°-40°	2936.9	32.6
0°-60°	5384.2	59.8
0°-90°	7942.2	88.2
90°-120°	935.8	10.4
90°-150°	1067.3	11.8
90°-180°	1067.0	11.8
0°-180°	9009.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2355	2333	2330	2319	2316	223
15°	2230	2213	2230	2250	2244	627
25°	1993	1999	2052	2085	2107	920
35°	1698	1709	1823	1932	1990	1060
45°	1360	1396	1597	1795	1873	1045
55°	1004	1087	1374	1600	1684	900
65°	658	814	1129	1346	1430	657
75°	343	560	870	1079	1148	366
85°	92	343	627	814	875	99
90°	3	251	521	694	755	7
95°	0	198	454	616	669	0
105°	0	106	326	471	518	0
115°	0	33	206	332	374	0
125°	0	0	100	204	240	0
135°	0	0	17	89	117	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°	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1
2.5°	2355.4	2352.6	2344.2	2335.9	2333.1	2333.1	2330.3	2327.5	2327.5	2324.7	2335.9
5°	2355.4	2352.6	2344.2	2333.1	2330.3	2333.1	2330.3	2324.7	2324.7	2321.9	2330.3
7.5°	2333.1	2327.5	2321.9	2313.6	2310.8	2310.8	2308.0	2308.0	2308.0	2308.0	2321.9
10°	2296.9	2294.1	2288.5	2280.1	2280.1	2277.3	2277.3	2280.1	2280.1	2282.9	2296.9
12.5°	2271.8	2266.2	2257.8	2249.5	2246.7	2246.7	2243.9	2241.1	2243.9	2246.7	2269.0
15°	2230.0	2227.2	2221.6	2213.2	2213.2	2213.2	2213.2	2210.4	2210.4	2213.2	2230.0
17.5°	2174.2	2168.6	2165.8	2160.3	2163.1	2165.8	2168.6	2165.8	2171.4	2179.8	2199.3
20°	2124.0	2118.5	2112.9	2104.5	2104.5	2107.3	2110.1	2110.1	2124.0	2135.2	2160.3
22.5°	2068.3	2065.5	2059.9	2057.1	2057.1	2059.9	2059.9	2054.4	2062.7	2079.4	2112.9
25°	1993.0	1990.2	1987.5	1987.5	1993.0	1998.6	2001.4	2004.2	2012.5	2023.7	2051.6
27.5°	1928.9	1926.1	1920.6	1915.0	1920.6	1926.1	1928.9	1934.5	1951.2	1973.5	1995.8
30°	1859.2	1856.4	1853.7	1853.7	1859.2	1862.0	1864.8	1862.0	1884.3	1917.8	1942.9
32.5°	1770.0	1767.2	1770.0	1770.0	1784.0	1792.3	1797.9	1800.7	1820.2	1850.9	1887.1
35°	1697.6	1697.6	1694.8	1700.3	1703.1	1708.7	1714.3	1728.2	1756.1	1786.8	1823.0
37.5°	1611.1	1611.1	1611.1	1625.1	1636.2	1639.0	1641.8	1658.5	1694.8	1725.4	1764.5
40°	1533.1	1533.1	1533.1	1538.7	1547.0	1555.4	1566.5	1586.1	1622.3	1666.9	1705.9
42.5°	1438.3	1441.1	1446.7	1460.6	1471.8	1477.3	1485.7	1516.4	1555.4	1608.4	1650.2
45°	1360.3	1357.5	1363.1	1374.2	1385.4	1396.5	1410.4	1443.9	1491.3	1549.8	1597.2
47.5°	1262.7	1265.5	1271.1	1290.6	1304.5	1318.5	1335.2	1374.2	1430.0	1488.5	1541.5
50°	1179.1	1181.9	1195.8	1207.0	1220.9	1237.6	1257.1	1307.3	1368.6	1427.2	1491.3
52.5°	1095.5	1098.3	1109.4	1117.8	1140.1	1159.6	1184.7	1240.4	1304.5	1368.6	1432.7
55°	1003.5	1009.1	1017.4	1036.9	1064.8	1087.1	1115.0	1176.3	1240.4	1310.1	1374.2
57.5°	917.1	919.9	933.8	953.3	986.8	1014.6	1048.1	1112.2	1181.9	1248.8	1312.9
60°	836.2	841.8	850.2	875.3	919.9	947.7	981.2	1048.1	1120.6	1187.5	1254.4
62.5°	752.6	758.2	769.3	797.2	850.2	880.8	917.1	986.8	1059.2	1126.1	1193.0
65°	657.8	663.4	680.1	716.4	780.5	813.9	850.2	922.6	992.3	1062.0	1128.9
67.5°	577.0	579.8	602.1	641.1	708.0	749.8	788.8	858.5	928.2	997.9	1064.8
70°	499.0	504.5	521.3	574.2	646.7	680.1	721.9	797.2	866.9	936.6	1000.7
72.5°	420.9	426.5	451.6	510.1	585.4	621.6	655.1	735.9	805.6	872.5	936.6
75°	342.9	351.2	384.7	451.6	524.0	560.3	596.5	669.0	744.2	808.4	869.7
77.5°	273.2	281.5	323.3	393.0	465.5	501.7	538.0	607.7	677.4	747.0	811.1
80°	206.3	217.4	267.6	337.3	409.8	446.0	479.4	551.9	618.8	682.9	749.8
82.5°	147.7	161.7	220.2	287.1	359.6	393.0	426.5	496.2	563.1	624.4	682.9
85°	92.0	117.1	175.6	239.7	309.4	342.9	376.3	446.0	510.1	571.4	627.2
87.5°	44.6	78.0	133.8	195.1	262.0	295.5	328.9	395.8	457.1	518.5	574.2
90°	2.8	44.6	94.8	153.3	220.2	250.9	284.3	348.4	409.8	468.3	521.3
92.5°	0.0	27.9	75.3	131.0	192.3	225.8	256.4	320.6	379.1	437.6	487.8
95°	0.0	13.9	58.5	111.5	170.0	197.9	228.6	289.9	348.4	404.2	454.4
97.5°	0.0	2.8	41.8	89.2	144.9	175.6	203.5	262.0	320.6	373.5	420.9
100°	0.0	0.0	27.9	72.5	122.6	150.5	178.4	234.1	289.9	340.1	387.5
102.5°	0.0	0.0	13.9	55.7	103.1	128.2	153.3	209.1	262.0	312.2	356.8
105°	0.0	0.0	2.8	39.0	83.6	105.9	131.0	181.2	234.1	281.5	326.1
107.5°	0.0	0.0	0.0	22.3	64.1	86.4	108.7	156.1	206.3	250.9	292.7
110°	0.0	0.0	0.0	11.1	47.4	66.9	89.2	133.8	178.4	223.0	264.8



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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	30.7	50.2	69.7	111.5	153.3	195.1	234.1
115°	0.0	0.0	0.0	0.0	16.7	33.4	50.2	89.2	128.2	170.0	206.3
117.5°	0.0	0.0	0.0	0.0	5.6	19.5	33.4	69.7	105.9	142.2	178.4
120°	0.0	0.0	0.0	0.0	0.0	8.4	19.5	50.2	83.6	117.1	150.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	30.7	61.3	94.8	125.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	41.8	72.5	100.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	25.1	50.2	75.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	30.7	53.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	16.7	33.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	16.7
137.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
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°	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1
2.5°	2344.2	2333.1	2333.1	2330.3	2327.5	2324.7	2319.2	2316.4	2310.8	2313.6
5°	2338.7	2327.5	2327.5	2321.9	2319.2	2319.2	2316.4	2316.4	2313.6	2316.4
7.5°	2330.3	2316.4	2316.4	2310.8	2308.0	2305.2	2305.2	2305.2	2305.2	2308.0
10°	2308.0	2299.6	2299.6	2296.9	2294.1	2288.5	2285.7	2288.5	2285.7	2288.5
12.5°	2277.3	2269.0	2274.6	2274.6	2274.6	2269.0	2266.2	2269.0	2266.2	2269.0
15°	2238.3	2235.5	2243.9	2246.7	2249.5	2246.7	2243.9	2243.9	2243.9	2243.9
17.5°	2199.3	2196.5	2207.7	2213.2	2213.2	2213.2	2213.2	2210.4	2210.4	2213.2
20°	2165.8	2154.7	2160.3	2171.4	2174.2	2174.2	2177.0	2179.8	2179.8	2179.8
22.5°	2118.5	2112.9	2115.7	2124.0	2129.6	2132.4	2140.8	2140.8	2143.5	2146.3
25°	2062.7	2071.1	2073.9	2082.2	2085.0	2090.6	2101.7	2107.3	2107.3	2107.3
27.5°	2004.2	2020.9	2032.1	2037.6	2043.2	2048.8	2062.7	2073.9	2073.9	2073.9
30°	1948.4	1965.2	1987.5	1998.6	2004.2	2009.8	2029.3	2043.2	2046.0	2046.0
32.5°	1889.9	1912.2	1945.6	1962.4	1965.2	1973.5	1998.6	2015.3	2018.1	2018.1
35°	1839.7	1867.6	1903.8	1926.1	1931.7	1940.1	1967.9	1987.5	1990.2	1990.2
37.5°	1795.1	1823.0	1862.0	1892.7	1898.3	1909.4	1937.3	1962.4	1965.2	1967.9
40°	1744.9	1778.4	1817.4	1853.7	1864.8	1876.0	1906.6	1931.7	1937.3	1937.3
42.5°	1694.8	1736.6	1775.6	1817.4	1831.4	1842.5	1876.0	1901.0	1906.6	1906.6
45°	1641.8	1694.8	1733.8	1778.4	1795.1	1806.3	1836.9	1864.8	1873.2	1873.2
47.5°	1594.4	1650.2	1689.2	1733.8	1750.5	1767.2	1795.1	1823.0	1831.4	1834.1
50°	1541.5	1602.8	1641.8	1683.6	1705.9	1722.6	1750.5	1781.2	1789.5	1786.8
52.5°	1488.5	1547.0	1588.8	1633.4	1655.7	1672.5	1697.6	1731.0	1739.4	1739.4
55°	1432.7	1491.3	1535.9	1577.7	1600.0	1622.3	1647.4	1675.3	1686.4	1683.6
57.5°	1377.0	1430.0	1477.3	1521.9	1541.5	1563.8	1588.8	1616.7	1625.1	1630.7
60°	1318.5	1365.9	1418.8	1460.6	1480.1	1502.4	1527.5	1552.6	1566.5	1563.8
62.5°	1254.4	1307.3	1357.5	1396.5	1416.0	1438.3	1463.4	1485.7	1496.9	1502.4
65°	1190.2	1240.4	1287.8	1329.6	1346.3	1368.6	1396.5	1413.2	1427.2	1430.0
67.5°	1123.3	1173.5	1220.9	1265.5	1282.2	1301.7	1326.8	1343.6	1357.5	1360.3
70°	1056.4	1109.4	1156.8	1198.6	1215.3	1232.1	1257.1	1273.9	1287.8	1287.8
72.5°	992.3	1045.3	1089.9	1131.7	1148.4	1162.4	1187.5	1204.2	1215.3	1218.1
75°	928.2	978.4	1023.0	1064.8	1078.7	1095.5	1117.8	1134.5	1145.6	1148.4
77.5°	864.1	917.1	958.9	997.9	1011.8	1025.8	1050.9	1064.8	1076.0	1076.0
80°	802.8	853.0	894.8	931.0	942.2	958.9	981.2	995.1	1003.5	1009.1
82.5°	744.2	791.6	830.7	864.1	880.8	892.0	914.3	928.2	936.6	942.2
85°	680.1	730.3	769.3	802.8	813.9	830.7	850.2	864.1	872.5	875.3
87.5°	621.6	666.2	705.2	744.2	758.2	769.3	788.8	802.8	811.1	816.7
90°	571.4	613.2	649.5	680.1	694.1	708.0	730.3	744.2	752.6	755.4
92.5°	535.2	577.0	610.5	641.1	655.1	666.2	685.7	699.6	708.0	710.8
95°	501.7	540.8	574.2	604.9	616.0	627.2	646.7	657.8	663.4	669.0
97.5°	465.5	507.3	538.0	565.9	579.8	588.2	607.7	618.8	627.2	630.0
100°	432.1	471.1	501.7	532.4	543.6	551.9	571.4	582.6	588.2	590.9
102.5°	398.6	437.6	468.3	496.2	507.3	515.7	532.4	543.6	551.9	554.7
105°	365.2	401.4	432.1	459.9	471.1	479.4	496.2	507.3	515.7	518.5
107.5°	334.5	367.9	398.6	423.7	434.8	443.2	459.9	471.1	479.4	482.2
110°	303.8	334.5	365.2	390.2	401.4	409.8	426.5	434.8	443.2	446.0



TEST NUMBER: P257091

CATALOG NUMBER: HGL-S-UF-60L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	270.4	303.8	331.7	356.8	365.2	376.3	390.2	401.4	407.0	409.8
115°	242.5	273.2	298.3	323.3	331.7	340.1	356.8	365.2	373.5	373.5
117.5°	211.8	239.7	267.6	289.9	298.3	306.6	323.3	331.7	337.3	340.1
120°	184.0	209.1	234.1	256.4	267.6	273.2	289.9	298.3	303.8	306.6
122.5°	156.1	181.2	206.3	225.8	234.1	242.5	256.4	264.8	270.4	273.2
125°	128.2	153.3	175.6	195.1	203.5	211.8	223.0	231.4	236.9	239.7
127.5°	103.1	125.4	147.7	164.5	172.8	181.2	192.3	200.7	206.3	209.1
130°	78.0	97.6	119.9	136.6	144.9	150.5	161.7	170.0	175.6	178.4
132.5°	53.0	72.5	92.0	108.7	117.1	122.6	133.8	139.4	144.9	147.7
135°	33.4	50.2	66.9	80.8	89.2	94.8	105.9	111.5	117.1	117.1
137.5°	16.7	30.7	44.6	55.7	61.3	69.7	78.0	83.6	86.4	89.2
140°	5.6	13.9	25.1	33.4	39.0	44.6	53.0	58.5	61.3	64.1
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)