

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: P257114

Luminaire Tested: **HGL-S-UF-40L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257114
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-40L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8937.2 lumens
Efficiency: N/A
Efficacy: 104.3 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

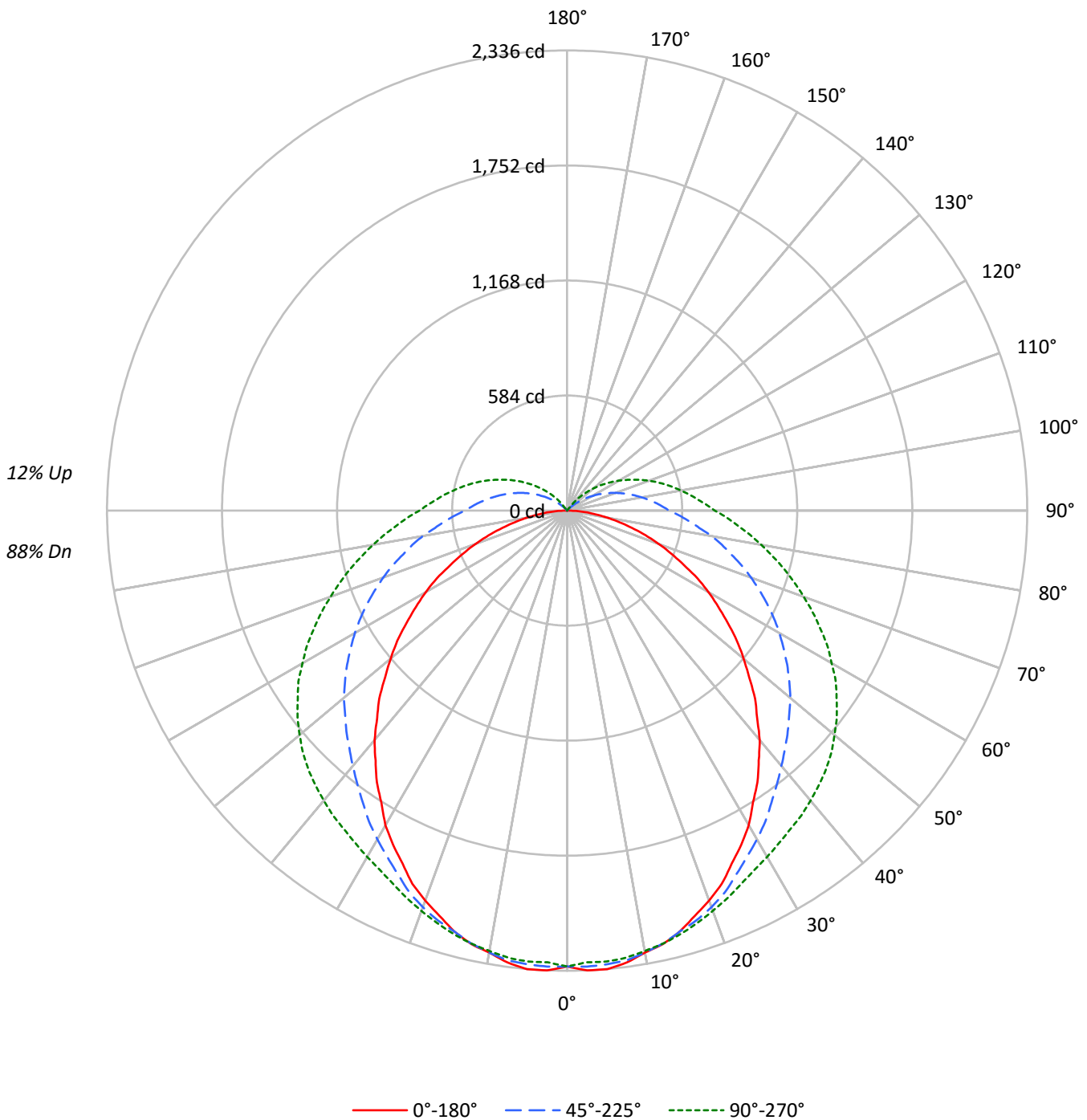
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9059	9059	9059
5°	9173	8829	8683
10°	9042	8561	8353
15°	8943	8241	8041
20°	8749	7975	7728
25°	8504	7625	7449
30°	8294	7325	7266
35°	7998	7029	7156
40°	7714	6782	7108
45°	7405	6606	7071
50°	7049	6479	7001
55°	6710	6338	6911
60°	6397	6215	6794
65°	5934	6093	6653
70°	5533	5979	6501
75°	4982	5870	6389
80°	4395	5867	6306
85°	3726	5889	6293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	2.5
10°-20°	623.3	7.0
20°-30°	935.3	10.5
30°-40°	1135.5	12.7
40°-50°	1226.5	13.7
50°-60°	1201.2	13.4
60°-70°	1065.5	11.9
70°-80°	853.4	9.5
80°-90°	618.5	6.9
90°-100°	435.9	4.9
100°-110°	304.1	3.4
110°-120°	188.3	2.1
120°-130°	95.7	1.1
130°-140°	33.2	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°	1777.8	19.9
0°-40°	2913.3	32.6
0°-60°	5341.0	59.8
0°-90°	7878.5	88.2
90°-120°	928.3	10.4
90°-150°	1058.7	11.8
90°-180°	1059.0	11.8
0°-180°	8937.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2314	2314	2314	2314	2314	
5°	2336	2314	2312	2301	2298	221
15°	2212	2196	2212	2231	2226	622
25°	1977	1983	2035	2068	2090	913
35°	1684	1695	1808	1916	1974	1052
45°	1349	1385	1584	1781	1858	1037
55°	995	1078	1363	1587	1670	892
65°	653	807	1120	1336	1418	651
75°	340	556	863	1070	1139	363
85°	91	340	622	807	868	98
90°	3	249	517	688	749	7
95°	0	196	451	611	664	0
105°	0	105	324	467	514	0
115°	0	33	205	329	370	0
125°	0	0	100	202	238	0
135°	0	0	17	88	116	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°	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4
2.5°	2336.5	2333.7	2325.4	2317.1	2314.4	2314.4	2311.6	2308.8	2308.8	2306.1	2317.1
5°	2336.5	2333.7	2325.4	2314.4	2311.6	2314.4	2311.6	2306.1	2306.1	2303.3	2311.6
7.5°	2314.4	2308.8	2303.3	2295.0	2292.3	2292.3	2289.5	2289.5	2289.5	2289.5	2303.3
10°	2278.4	2275.7	2270.1	2261.8	2261.8	2259.1	2259.1	2261.8	2261.8	2264.6	2278.4
12.5°	2253.5	2248.0	2239.7	2231.4	2228.7	2228.7	2225.9	2223.1	2225.9	2228.7	2250.8
15°	2212.1	2209.3	2203.8	2195.5	2195.5	2195.5	2195.5	2192.7	2192.7	2195.5	2212.1
17.5°	2156.8	2151.2	2148.5	2142.9	2145.7	2148.5	2151.2	2148.5	2154.0	2162.3	2181.7
20°	2107.0	2101.5	2095.9	2087.6	2087.6	2090.4	2093.2	2093.2	2107.0	2118.1	2142.9
22.5°	2051.7	2048.9	2043.4	2040.6	2040.6	2043.4	2043.4	2037.9	2046.2	2062.8	2095.9
25°	1977.0	1974.3	1971.5	1971.5	1977.0	1982.6	1985.3	1988.1	1996.4	2007.5	2035.1
27.5°	1913.4	1910.7	1905.1	1899.6	1905.1	1910.7	1913.4	1919.0	1935.6	1957.7	1979.8
30°	1844.3	1841.5	1838.8	1838.8	1844.3	1847.1	1849.8	1847.1	1869.2	1902.4	1927.3
32.5°	1755.8	1753.1	1755.8	1755.8	1769.7	1778.0	1783.5	1786.2	1805.6	1836.0	1872.0
35°	1683.9	1683.9	1681.2	1686.7	1689.5	1695.0	1700.5	1714.4	1742.0	1772.4	1808.4
37.5°	1598.2	1598.2	1598.2	1612.0	1623.1	1625.9	1628.6	1645.2	1681.2	1711.6	1750.3
40°	1520.8	1520.8	1520.8	1526.3	1534.6	1542.9	1554.0	1573.3	1609.3	1653.5	1692.2
42.5°	1426.8	1429.6	1435.1	1448.9	1460.0	1465.5	1473.8	1504.2	1542.9	1595.5	1636.9
45°	1349.4	1346.6	1352.1	1363.2	1374.2	1385.3	1399.1	1432.3	1479.3	1537.4	1584.4
47.5°	1252.6	1255.3	1260.9	1280.2	1294.1	1307.9	1324.5	1363.2	1418.5	1476.6	1529.1
50°	1169.6	1172.4	1186.2	1197.3	1211.1	1227.7	1247.1	1296.8	1357.7	1415.7	1479.3
52.5°	1086.7	1089.4	1100.5	1108.8	1130.9	1150.3	1175.2	1230.5	1294.1	1357.7	1421.3
55°	995.4	1001.0	1009.3	1028.6	1056.3	1078.4	1106.0	1166.9	1230.5	1299.6	1363.2
57.5°	909.7	912.5	926.3	945.7	978.8	1006.5	1039.7	1103.3	1172.4	1238.8	1302.4
60°	829.5	835.1	843.4	868.2	912.5	940.1	973.3	1039.7	1111.6	1177.9	1244.3
62.5°	746.6	752.1	763.2	790.8	843.4	873.8	909.7	978.8	1050.7	1117.1	1183.5
65°	652.6	658.1	674.7	710.6	774.2	807.4	843.4	915.2	984.4	1053.5	1119.9
67.5°	572.4	575.1	597.3	636.0	702.3	743.8	782.5	851.6	920.8	989.9	1056.3
70°	495.0	500.5	517.1	569.6	641.5	674.7	716.2	790.8	859.9	929.1	992.7
72.5°	417.5	423.1	447.9	506.0	580.7	616.6	649.8	730.0	799.1	865.5	929.1
75°	340.1	348.4	381.6	447.9	519.8	555.8	591.7	663.6	738.3	801.9	862.7
77.5°	271.0	279.3	320.8	389.9	461.8	497.7	533.7	602.8	671.9	741.0	804.6
80°	204.6	215.7	265.4	334.6	406.5	442.4	475.6	547.5	613.8	677.4	743.8
82.5°	146.5	160.4	218.4	284.8	356.7	389.9	423.1	492.2	558.5	619.4	677.4
85°	91.2	116.1	174.2	237.8	306.9	340.1	373.3	442.4	506.0	566.8	622.1
87.5°	44.2	77.4	132.7	193.6	259.9	293.1	326.3	392.6	453.5	514.3	569.6
90°	2.8	44.2	94.0	152.1	218.4	248.9	282.0	345.6	406.5	464.5	517.1
92.5°	0.0	27.7	74.7	130.0	190.8	224.0	254.4	318.0	376.1	434.1	483.9
95°	0.0	13.8	58.1	110.6	168.7	196.3	226.7	287.6	345.6	400.9	450.7
97.5°	0.0	2.8	41.5	88.5	143.8	174.2	201.9	259.9	318.0	370.5	417.5
100°	0.0	0.0	27.7	71.9	121.7	149.3	177.0	232.3	287.6	337.3	384.3
102.5°	0.0	0.0	13.8	55.3	102.3	127.2	152.1	207.4	259.9	309.7	353.9
105°	0.0	0.0	2.8	38.7	83.0	105.1	130.0	179.7	232.3	279.3	323.5
107.5°	0.0	0.0	0.0	22.1	63.6	85.7	107.8	154.8	204.6	248.9	290.3
110°	0.0	0.0	0.0	11.1	47.0	66.4	88.5	132.7	177.0	221.2	262.7



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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	30.4	49.8	69.1	110.6	152.1	193.6	232.3
115°	0.0	0.0	0.0	0.0	16.6	33.2	49.8	88.5	127.2	168.7	204.6
117.5°	0.0	0.0	0.0	0.0	5.5	19.4	33.2	69.1	105.1	141.0	177.0
120°	0.0	0.0	0.0	0.0	0.0	8.3	19.4	49.8	83.0	116.1	149.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	30.4	60.8	94.0	124.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	41.5	71.9	99.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	24.9	49.8	74.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	30.4	52.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	16.6	33.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	16.6
137.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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°	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4
2.5°	2325.4	2314.4	2314.4	2311.6	2308.8	2306.1	2300.6	2297.8	2292.3	2295.0
5°	2319.9	2308.8	2308.8	2303.3	2300.6	2300.6	2297.8	2297.8	2295.0	2297.8
7.5°	2311.6	2297.8	2297.8	2292.3	2289.5	2286.7	2286.7	2286.7	2286.7	2289.5
10°	2289.5	2281.2	2281.2	2278.4	2275.7	2270.1	2267.4	2270.1	2267.4	2270.1
12.5°	2259.1	2250.8	2256.3	2256.3	2256.3	2250.8	2248.0	2250.8	2248.0	2250.8
15°	2220.4	2217.6	2225.9	2228.7	2231.4	2228.7	2225.9	2225.9	2225.9	2225.9
17.5°	2181.7	2178.9	2189.9	2195.5	2195.5	2195.5	2195.5	2192.7	2192.7	2195.5
20°	2148.5	2137.4	2142.9	2154.0	2156.8	2156.8	2159.5	2162.3	2162.3	2162.3
22.5°	2101.5	2095.9	2098.7	2107.0	2112.5	2115.3	2123.6	2123.6	2126.4	2129.1
25°	2046.2	2054.5	2057.2	2065.5	2068.3	2073.8	2084.9	2090.4	2090.4	2090.4
27.5°	1988.1	2004.7	2015.7	2021.3	2026.8	2032.3	2046.2	2057.2	2057.2	2057.2
30°	1932.8	1949.4	1971.5	1982.6	1988.1	1993.6	2013.0	2026.8	2029.6	2029.6
32.5°	1874.7	1896.8	1930.0	1946.6	1949.4	1957.7	1982.6	1999.2	2001.9	2001.9
35°	1825.0	1852.6	1888.6	1910.7	1916.2	1924.5	1952.2	1971.5	1974.3	1974.3
37.5°	1780.7	1808.4	1847.1	1877.5	1883.0	1894.1	1921.7	1946.6	1949.4	1952.2
40°	1730.9	1764.1	1802.8	1838.8	1849.8	1860.9	1891.3	1916.2	1921.7	1921.7
42.5°	1681.2	1722.6	1761.4	1802.8	1816.7	1827.7	1860.9	1885.8	1891.3	1891.3
45°	1628.6	1681.2	1719.9	1764.1	1780.7	1791.8	1822.2	1849.8	1858.1	1858.1
47.5°	1581.6	1636.9	1675.6	1719.9	1736.5	1753.1	1780.7	1808.4	1816.7	1819.4
50°	1529.1	1589.9	1628.6	1670.1	1692.2	1708.8	1736.5	1766.9	1775.2	1772.4
52.5°	1476.6	1534.6	1576.1	1620.3	1642.5	1659.1	1683.9	1717.1	1725.4	1725.4
55°	1421.3	1479.3	1523.6	1565.0	1587.2	1609.3	1634.2	1661.8	1672.9	1670.1
57.5°	1366.0	1418.5	1465.5	1509.7	1529.1	1551.2	1576.1	1603.8	1612.0	1617.6
60°	1307.9	1354.9	1407.4	1448.9	1468.3	1490.4	1515.3	1540.2	1554.0	1551.2
62.5°	1244.3	1296.8	1346.6	1385.3	1404.7	1426.8	1451.7	1473.8	1484.9	1490.4
65°	1180.7	1230.5	1277.5	1318.9	1335.5	1357.7	1385.3	1401.9	1415.7	1418.5
67.5°	1114.3	1164.1	1211.1	1255.3	1271.9	1291.3	1316.2	1332.8	1346.6	1349.4
70°	1048.0	1100.5	1147.5	1189.0	1205.6	1222.2	1247.1	1263.6	1277.5	1277.5
72.5°	984.4	1036.9	1081.1	1122.6	1139.2	1153.0	1177.9	1194.5	1205.6	1208.3
75°	920.8	970.5	1014.8	1056.3	1070.1	1086.7	1108.8	1125.4	1136.5	1139.2
77.5°	857.2	909.7	951.2	989.9	1003.7	1017.6	1042.4	1056.3	1067.3	1067.3
80°	796.3	846.1	887.6	923.5	934.6	951.2	973.3	987.1	995.4	1001.0
82.5°	738.3	785.3	824.0	857.2	873.8	884.8	906.9	920.8	929.1	934.6
85°	674.7	724.5	763.2	796.3	807.4	824.0	843.4	857.2	865.5	868.2
87.5°	616.6	660.9	699.6	738.3	752.1	763.2	782.5	796.3	804.6	810.2
90°	566.8	608.3	644.3	674.7	688.5	702.3	724.5	738.3	746.6	749.3
92.5°	530.9	572.4	605.6	636.0	649.8	660.9	680.2	694.0	702.3	705.1
95°	497.7	536.4	569.6	600.0	611.1	622.1	641.5	652.6	658.1	663.6
97.5°	461.8	503.2	533.7	561.3	575.1	583.4	602.8	613.8	622.1	624.9
100°	428.6	467.3	497.7	528.1	539.2	547.5	566.8	577.9	583.4	586.2
102.5°	395.4	434.1	464.5	492.2	503.2	511.5	528.1	539.2	547.5	550.3
105°	362.2	398.2	428.6	456.2	467.3	475.6	492.2	503.2	511.5	514.3
107.5°	331.8	365.0	395.4	420.3	431.4	439.6	456.2	467.3	475.6	478.4
110°	301.4	331.8	362.2	387.1	398.2	406.5	423.1	431.4	439.6	442.4



TEST NUMBER: P257114

CATALOG NUMBER: HGL-S-UF-40L930-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	268.2	301.4	329.0	353.9	362.2	373.3	387.1	398.2	403.7	406.5
115°	240.6	271.0	295.9	320.8	329.0	337.3	353.9	362.2	370.5	370.5
117.5°	210.1	237.8	265.4	287.6	295.9	304.2	320.8	329.0	334.6	337.3
120°	182.5	207.4	232.3	254.4	265.4	271.0	287.6	295.9	301.4	304.2
122.5°	154.8	179.7	204.6	224.0	232.3	240.6	254.4	262.7	268.2	271.0
125°	127.2	152.1	174.2	193.6	201.9	210.1	221.2	229.5	235.0	237.8
127.5°	102.3	124.4	146.5	163.1	171.4	179.7	190.8	199.1	204.6	207.4
130°	77.4	96.8	118.9	135.5	143.8	149.3	160.4	168.7	174.2	177.0
132.5°	52.5	71.9	91.2	107.8	116.1	121.7	132.7	138.3	143.8	146.5
135°	33.2	49.8	66.4	80.2	88.5	94.0	105.1	110.6	116.1	116.1
137.5°	16.6	30.4	44.2	55.3	60.8	69.1	77.4	83.0	85.7	88.5
140°	5.5	13.8	24.9	33.2	38.7	44.2	52.5	58.1	60.8	63.6
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)