

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: P257095

Luminaire Tested: **HGL-S-UF-50L940-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257095  
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-50L940-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (336) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7711.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

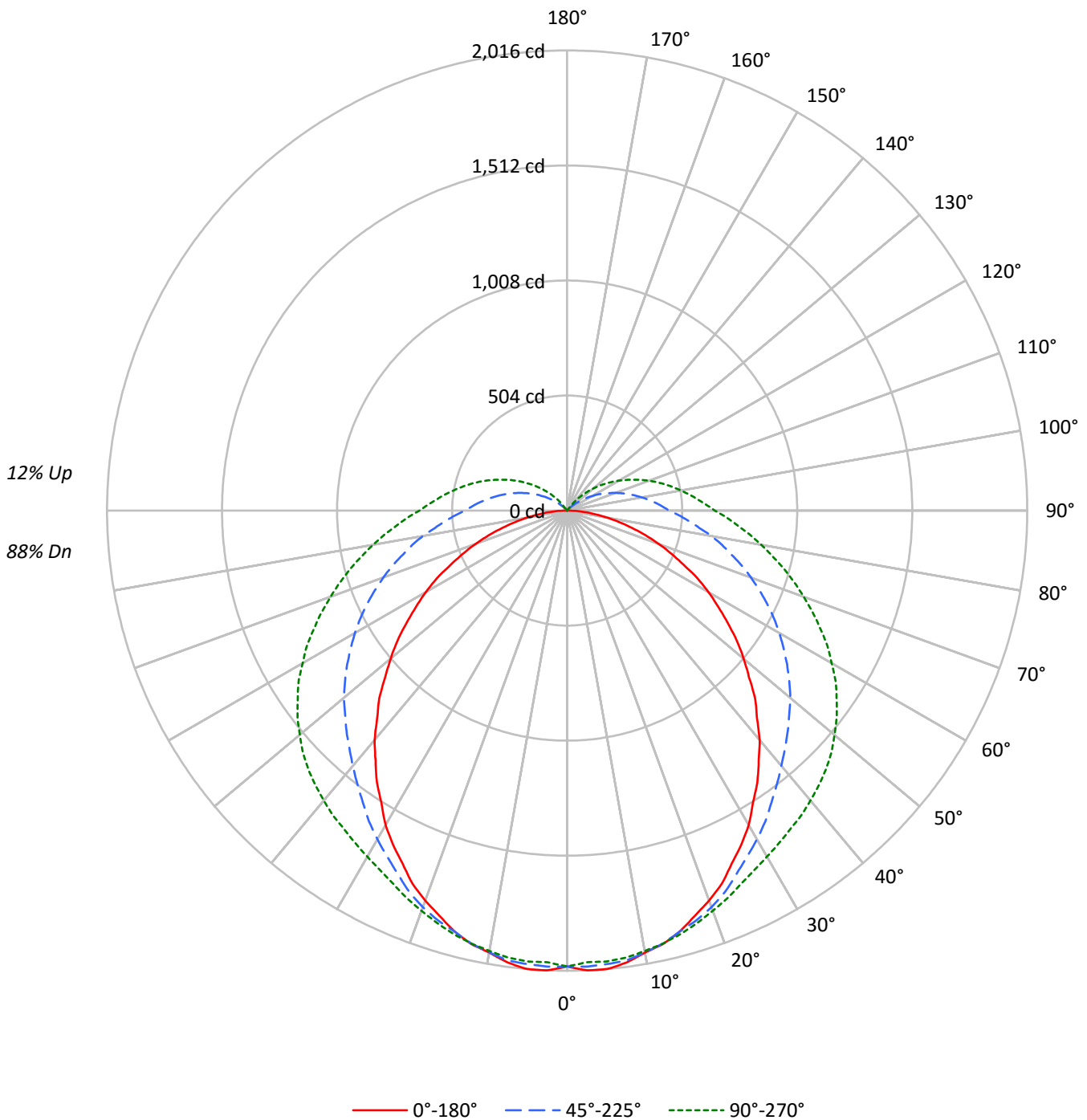
Input Watts (W): 74.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	11725	11725	11725
5°	11869	11426	11239
10°	11695	11076	10812
15°	11562	10658	10407
20°	11306	10312	10003
25°	10985	9857	9642
30°	10709	9467	9405
35°	10321	9082	9262
40°	9949	8761	9201
45°	9544	8531	9153
50°	9078	8364	9061
55°	8632	8179	8945
60°	8220	8017	8794
65°	7610	7855	8611
70°	7078	7705	8414
75°	6349	7559	8270
80°	5560	7548	8162
85°	4615	7567	8146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	2.5
10°-20°	537.9	7.0
20°-30°	807.0	10.5
30°-40°	979.9	12.7
40°-50°	1058.3	13.7
50°-60°	1036.5	13.4
60°-70°	919.4	11.9
70°-80°	736.4	9.5
80°-90°	533.7	6.9
90°-100°	376.2	4.9
100°-110°	262.4	3.4
110°-120°	162.4	2.1
120°-130°	82.6	1.1
130°-140°	28.6	0.4
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1534.1	19.9
0°-40°	2513.9	32.6
0°-60°	4608.8	59.8
0°-90°	6798.3	88.2
90°-120°	801.0	10.4
90°-150°	913.6	11.8
90°-180°	914.0	11.9
0°-180°	7711.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	2016	1997	1995	1985	1983	191
15°	1909	1894	1909	1926	1921	537
25°	1706	1711	1756	1785	1804	787
35°	1453	1463	1560	1654	1704	907
45°	1164	1195	1367	1537	1603	895
55°	859	930	1176	1370	1441	770
65°	563	697	966	1152	1224	562
75°	294	480	744	923	983	314
85°	79	294	537	697	749	85
90°	2	215	446	594	647	6
95°	0	169	389	527	573	0
105°	0	91	279	403	444	0
115°	0	29	177	284	320	0
125°	0	0	86	174	205	0
135°	0	0	14	76	100	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: P257095

CATALOG NUMBER: HGL-S-UF-50L940-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2016.2	2013.8	2006.6	1999.5	1997.1	1997.1	1994.7	1992.3	1992.3	1989.9	1999.5
5°	2016.2	2013.8	2006.6	1997.1	1994.7	1997.1	1994.7	1989.9	1989.9	1987.5	1994.7
7.5°	1997.1	1992.3	1987.5	1980.4	1978.0	1978.0	1975.6	1975.6	1975.6	1975.6	1987.5
10°	1966.1	1963.7	1958.9	1951.7	1951.7	1949.4	1949.4	1951.7	1951.7	1954.1	1966.1
12.5°	1944.6	1939.8	1932.7	1925.5	1923.1	1923.1	1920.7	1918.3	1920.7	1923.1	1942.2
15°	1908.8	1906.4	1901.6	1894.5	1894.5	1894.5	1894.5	1892.1	1892.1	1894.5	1908.8
17.5°	1861.1	1856.3	1853.9	1849.1	1851.5	1853.9	1856.3	1853.9	1858.7	1865.8	1882.5
20°	1818.1	1813.4	1808.6	1801.4	1801.4	1803.8	1806.2	1806.2	1818.1	1827.7	1849.1
22.5°	1770.4	1768.0	1763.2	1760.9	1760.9	1763.2	1763.2	1758.5	1765.6	1779.9	1808.6
25°	1706.0	1703.6	1701.2	1701.2	1706.0	1710.8	1713.1	1715.5	1722.7	1732.2	1756.1
27.5°	1651.1	1648.7	1643.9	1639.2	1643.9	1648.7	1651.1	1655.9	1670.2	1689.3	1708.4
30°	1591.5	1589.1	1586.7	1586.7	1591.5	1593.8	1596.2	1593.8	1612.9	1641.6	1663.0
32.5°	1515.1	1512.7	1515.1	1515.1	1527.0	1534.2	1539.0	1541.3	1558.1	1584.3	1615.3
35°	1453.1	1453.1	1450.7	1455.5	1457.8	1462.6	1467.4	1479.3	1503.2	1529.4	1560.4
37.5°	1379.1	1379.1	1379.1	1391.0	1400.6	1403.0	1405.3	1419.7	1450.7	1476.9	1510.3
40°	1312.3	1312.3	1312.3	1317.1	1324.2	1331.4	1340.9	1357.6	1388.6	1426.8	1460.2
42.5°	1231.2	1233.6	1238.3	1250.3	1259.8	1264.6	1271.7	1298.0	1331.4	1376.7	1412.5
45°	1164.4	1162.0	1166.7	1176.3	1185.8	1195.4	1207.3	1235.9	1276.5	1326.6	1367.2
47.5°	1080.9	1083.2	1088.0	1104.7	1116.6	1128.6	1142.9	1176.3	1224.0	1274.1	1319.5
50°	1009.3	1011.7	1023.6	1033.1	1045.1	1059.4	1076.1	1119.0	1171.5	1221.6	1276.5
52.5°	937.7	940.1	949.6	956.8	975.9	992.6	1014.0	1061.8	1116.6	1171.5	1226.4
55°	859.0	863.7	870.9	887.6	911.4	930.5	954.4	1006.9	1061.8	1121.4	1176.3
57.5°	785.0	787.4	799.3	816.0	844.6	868.5	897.1	952.0	1011.7	1068.9	1123.8
60°	715.8	720.6	727.7	749.2	787.4	811.2	839.9	897.1	959.2	1016.4	1073.7
62.5°	644.2	649.0	658.5	682.4	727.7	754.0	785.0	844.6	906.7	963.9	1021.2
65°	563.1	567.9	582.2	613.2	668.1	696.7	727.7	789.8	849.4	909.1	966.3
67.5°	493.9	496.3	515.4	548.8	606.0	641.8	675.2	734.9	794.5	854.2	911.4
70°	427.1	431.9	446.2	491.5	553.5	582.2	618.0	682.4	742.0	801.7	856.6
72.5°	360.3	365.1	386.5	436.6	501.1	532.1	560.7	629.9	689.6	746.8	801.7
75°	293.5	300.6	329.3	386.5	448.6	479.6	510.6	572.6	637.1	691.9	744.4
77.5°	233.8	241.0	276.8	336.4	398.5	429.5	460.5	520.1	579.8	639.4	694.3
80°	176.6	186.1	229.1	288.7	350.7	381.8	410.4	472.4	529.7	584.6	641.8
82.5°	126.5	138.4	188.5	245.8	307.8	336.4	365.1	424.7	482.0	534.5	584.6
85°	78.7	100.2	150.3	205.2	264.8	293.5	322.1	381.8	436.6	489.1	536.8
87.5°	38.2	66.8	114.5	167.0	224.3	252.9	281.5	338.8	391.3	443.8	491.5
90°	2.4	38.2	81.1	131.2	188.5	214.7	243.4	298.2	350.7	400.8	446.2
92.5°	0.0	23.9	64.4	112.1	164.6	193.3	219.5	274.4	324.5	374.6	417.5
95°	0.0	11.9	50.1	95.4	145.5	169.4	195.7	248.1	298.2	346.0	388.9
97.5°	0.0	2.4	35.8	76.4	124.1	150.3	174.2	224.3	274.4	319.7	360.3
100°	0.0	0.0	23.9	62.0	105.0	128.8	152.7	200.4	248.1	291.1	331.7
102.5°	0.0	0.0	11.9	47.7	88.3	109.8	131.2	178.9	224.3	267.2	305.4
105°	0.0	0.0	2.4	33.4	71.6	90.7	112.1	155.1	200.4	241.0	279.2
107.5°	0.0	0.0	0.0	19.1	54.9	74.0	93.1	133.6	176.6	214.7	250.5
110°	0.0	0.0	0.0	9.5	40.6	57.3	76.4	114.5	152.7	190.9	226.7



TEST NUMBER: P257095

CATALOG NUMBER: HGL-S-UF-50L940-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	2.4	26.2	42.9	59.6	95.4	131.2	167.0	200.4
115°	0.0	0.0	0.0	0.0	14.3	28.6	42.9	76.4	109.8	145.5	176.6
117.5°	0.0	0.0	0.0	0.0	4.8	16.7	28.6	59.6	90.7	121.7	152.7
120°	0.0	0.0	0.0	0.0	0.0	7.2	16.7	42.9	71.6	100.2	128.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	26.2	52.5	81.1	107.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	35.8	62.0	85.9
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	21.5	42.9	64.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	26.2	45.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	14.3	28.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.3
137.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
140°	2.4	2.4	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: P257095

CATALOG NUMBER: HGL-S-UF-50L940-UNV-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2006.6	1997.1	1997.1	1994.7	1992.3	1989.9	1985.1	1982.8	1978.0	1980.4
5°	2001.8	1992.3	1992.3	1987.5	1985.1	1985.1	1982.8	1982.8	1980.4	1982.8
7.5°	1994.7	1982.8	1982.8	1978.0	1975.6	1973.2	1973.2	1973.2	1973.2	1975.6
10°	1975.6	1968.4	1968.4	1966.1	1963.7	1958.9	1956.5	1958.9	1956.5	1958.9
12.5°	1949.4	1942.2	1947.0	1947.0	1947.0	1942.2	1939.8	1942.2	1939.8	1942.2
15°	1915.9	1913.6	1920.7	1923.1	1925.5	1923.1	1920.7	1920.7	1920.7	1920.7
17.5°	1882.5	1880.2	1889.7	1894.5	1894.5	1894.5	1894.5	1892.1	1892.1	1894.5
20°	1853.9	1844.4	1849.1	1858.7	1861.1	1861.1	1863.5	1865.8	1865.8	1865.8
22.5°	1813.4	1808.6	1811.0	1818.1	1822.9	1825.3	1832.4	1832.4	1834.8	1837.2
25°	1765.6	1772.8	1775.2	1782.3	1784.7	1789.5	1799.0	1803.8	1803.8	1803.8
27.5°	1715.5	1729.8	1739.4	1744.2	1748.9	1753.7	1765.6	1775.2	1775.2	1775.2
30°	1667.8	1682.1	1701.2	1710.8	1715.5	1720.3	1737.0	1748.9	1751.3	1751.3
32.5°	1617.7	1636.8	1665.4	1679.7	1682.1	1689.3	1710.8	1725.1	1727.5	1727.5
35°	1574.8	1598.6	1629.6	1648.7	1653.5	1660.6	1684.5	1701.2	1703.6	1703.6
37.5°	1536.6	1560.4	1593.8	1620.1	1624.9	1634.4	1658.3	1679.7	1682.1	1684.5
40°	1493.6	1522.3	1555.7	1586.7	1596.2	1605.8	1632.0	1653.5	1658.3	1658.3
42.5°	1450.7	1486.5	1519.9	1555.7	1567.6	1577.1	1605.8	1627.2	1632.0	1632.0
45°	1405.3	1450.7	1484.1	1522.3	1536.6	1546.1	1572.4	1596.2	1603.4	1603.4
47.5°	1364.8	1412.5	1445.9	1484.1	1498.4	1512.7	1536.6	1560.4	1567.6	1570.0
50°	1319.5	1371.9	1405.3	1441.1	1460.2	1474.5	1498.4	1524.6	1531.8	1529.4
52.5°	1274.1	1324.2	1360.0	1398.2	1417.3	1431.6	1453.1	1481.7	1488.9	1488.9
55°	1226.4	1276.5	1314.7	1350.5	1369.6	1388.6	1410.1	1434.0	1443.5	1441.1
57.5°	1178.7	1224.0	1264.6	1302.7	1319.5	1338.5	1360.0	1383.9	1391.0	1395.8
60°	1128.6	1169.1	1214.5	1250.3	1267.0	1286.0	1307.5	1329.0	1340.9	1338.5
62.5°	1073.7	1119.0	1162.0	1195.4	1212.1	1231.2	1252.6	1271.7	1281.3	1286.0
65°	1018.8	1061.8	1102.3	1138.1	1152.4	1171.5	1195.4	1209.7	1221.6	1224.0
67.5°	961.6	1004.5	1045.1	1083.2	1097.6	1114.3	1135.7	1150.0	1162.0	1164.4
70°	904.3	949.6	990.2	1026.0	1040.3	1054.6	1076.1	1090.4	1102.3	1102.3
72.5°	849.4	894.7	932.9	968.7	983.0	995.0	1016.4	1030.7	1040.3	1042.7
75°	794.5	837.5	875.7	911.4	923.4	937.7	956.8	971.1	980.6	983.0
77.5°	739.7	785.0	820.8	854.2	866.1	878.0	899.5	911.4	921.0	921.0
80°	687.2	730.1	765.9	796.9	806.5	820.8	839.9	851.8	859.0	863.7
82.5°	637.1	677.6	711.0	739.7	754.0	763.5	782.6	794.5	801.7	806.5
85°	582.2	625.1	658.5	687.2	696.7	711.0	727.7	739.7	746.8	749.2
87.5°	532.1	570.3	603.7	637.1	649.0	658.5	675.2	687.2	694.3	699.1
90°	489.1	524.9	555.9	582.2	594.1	606.0	625.1	637.1	644.2	646.6
92.5°	458.1	493.9	522.5	548.8	560.7	570.3	587.0	598.9	606.0	608.4
95°	429.5	462.9	491.5	517.8	527.3	536.8	553.5	563.1	567.9	572.6
97.5°	398.5	434.2	460.5	484.4	496.3	503.4	520.1	529.7	536.8	539.2
100°	369.8	403.2	429.5	455.7	465.3	472.4	489.1	498.7	503.4	505.8
102.5°	341.2	374.6	400.8	424.7	434.2	441.4	455.7	465.3	472.4	474.8
105°	312.6	343.6	369.8	393.7	403.2	410.4	424.7	434.2	441.4	443.8
107.5°	286.3	315.0	341.2	362.7	372.2	379.4	393.7	403.2	410.4	412.8
110°	260.1	286.3	312.6	334.0	343.6	350.7	365.1	372.2	379.4	381.8





TEST NUMBER: P257095

CATALOG NUMBER: HGL-S-UF-50L940-UNV-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	231.4	260.1	283.9	305.4	312.6	322.1	334.0	343.6	348.4	350.7
115°	207.6	233.8	255.3	276.8	283.9	291.1	305.4	312.6	319.7	319.7
117.5°	181.3	205.2	229.1	248.1	255.3	262.5	276.8	283.9	288.7	291.1
120°	157.5	178.9	200.4	219.5	229.1	233.8	248.1	255.3	260.1	262.5
122.5°	133.6	155.1	176.6	193.3	200.4	207.6	219.5	226.7	231.4	233.8
125°	109.8	131.2	150.3	167.0	174.2	181.3	190.9	198.0	202.8	205.2
127.5°	88.3	107.4	126.5	140.8	147.9	155.1	164.6	171.8	176.6	178.9
130°	66.8	83.5	102.6	116.9	124.1	128.8	138.4	145.5	150.3	152.7
132.5°	45.3	62.0	78.7	93.1	100.2	105.0	114.5	119.3	124.1	126.5
135°	28.6	42.9	57.3	69.2	76.4	81.1	90.7	95.4	100.2	100.2
137.5°	14.3	26.2	38.2	47.7	52.5	59.6	66.8	71.6	74.0	76.4
140°	4.8	11.9	21.5	28.6	33.4	38.2	45.3	50.1	52.5	54.9
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)