

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: P257084

Luminaire Tested: **HGL-S-UF-40L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257084
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-40L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8164.6 lumens
Efficiency: N/A
Efficacy: 140.8 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

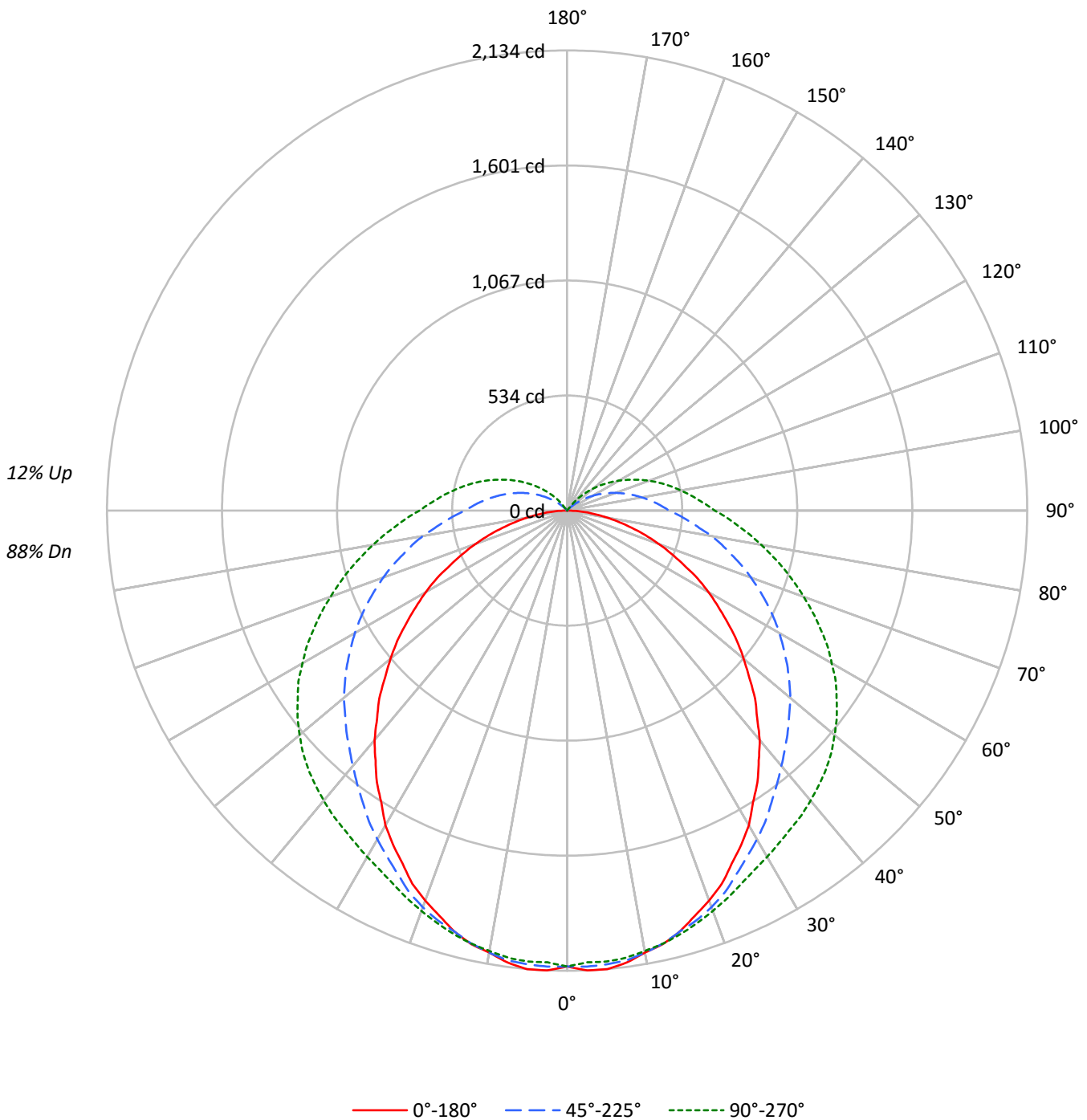
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257084

CATALOG NUMBER: HGL-S-UF-40L840-UNV-8

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	12414	12414	12414
5°	12566	12096	11898
10°	12381	11726	11447
15°	12240	11283	11018
20°	11969	10918	10590
25°	11630	10435	10208
30°	11338	10023	9957
35°	10927	9615	9806
40°	10533	9275	9740
45°	10104	9032	9690
50°	9611	8855	9593
55°	9139	8659	9470
60°	8702	8487	9310
65°	8056	8316	9117
70°	7494	8157	8908
75°	6721	8003	8755
80°	5885	7991	8641
85°	4890	8012	8625



TEST NUMBER: P257084

CATALOG NUMBER: HGL-S-UF-40L840-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	2.5
10°-20°	569.4	7.0
20°-30°	854.4	10.5
30°-40°	1037.4	12.7
40°-50°	1120.5	13.7
50°-60°	1097.4	13.4
60°-70°	973.4	11.9
70°-80°	779.7	9.5
80°-90°	565.1	6.9
90°-100°	398.2	4.9
100°-110°	277.8	3.4
110°-120°	172.0	2.1
120°-130°	87.5	1.1
130°-140°	30.3	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°	1624.1	19.9
0°-40°	2661.5	32.6
0°-60°	4879.3	59.8
0°-90°	7197.4	88.2
90°-120°	848.0	10.4
90°-150°	967.2	11.8
90°-180°	967.0	11.8
0°-180°	8164.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2134	2114	2112	2102	2099	202
15°	2021	2006	2021	2038	2034	568
25°	1806	1811	1859	1890	1910	834
35°	1538	1548	1652	1750	1804	961
45°	1233	1266	1447	1627	1698	947
55°	909	985	1245	1450	1526	815
65°	596	738	1023	1220	1296	595
75°	311	508	788	978	1041	332
85°	83	311	568	738	793	90
90°	2	227	472	629	685	6
95°	0	179	412	558	606	0
105°	0	96	296	427	470	0
115°	0	30	187	301	338	0
125°	0	0	91	184	217	0
135°	0	0	15	81	106	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: P257084

CATALOG NUMBER: HGL-S-UF-40L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3
2.5°	2134.5	2132.0	2124.4	2116.8	2114.3	2114.3	2111.8	2109.2	2109.2	2106.7	2116.8
5°	2134.5	2132.0	2124.4	2114.3	2111.8	2114.3	2111.8	2106.7	2106.7	2104.2	2111.8
7.5°	2114.3	2109.2	2104.2	2096.6	2094.1	2094.1	2091.6	2091.6	2091.6	2091.6	2104.2
10°	2081.5	2078.9	2073.9	2066.3	2066.3	2063.8	2063.8	2066.3	2066.3	2068.8	2081.5
12.5°	2058.7	2053.7	2046.1	2038.5	2036.0	2036.0	2033.5	2030.9	2033.5	2036.0	2056.2
15°	2020.8	2018.3	2013.2	2005.7	2005.7	2005.7	2005.7	2003.1	2003.1	2005.7	2020.8
17.5°	1970.3	1965.3	1962.7	1957.7	1960.2	1962.7	1965.3	1962.7	1967.8	1975.4	1993.0
20°	1924.8	1919.8	1914.7	1907.2	1907.2	1909.7	1912.2	1912.2	1924.8	1934.9	1957.7
22.5°	1874.3	1871.8	1866.7	1864.2	1864.2	1866.7	1866.7	1861.7	1869.3	1884.4	1914.7
25°	1806.1	1803.6	1801.1	1801.1	1806.1	1811.2	1813.7	1816.2	1823.8	1833.9	1859.2
27.5°	1748.0	1745.5	1740.4	1735.4	1740.4	1745.5	1748.0	1753.1	1768.2	1788.4	1808.6
30°	1684.9	1682.3	1679.8	1679.8	1684.9	1687.4	1689.9	1687.4	1707.6	1737.9	1760.6
32.5°	1604.0	1601.5	1604.0	1604.0	1616.7	1624.2	1629.3	1631.8	1649.5	1677.3	1710.1
35°	1538.4	1538.4	1535.8	1540.9	1543.4	1548.5	1553.5	1566.1	1591.4	1619.2	1652.0
37.5°	1460.0	1460.0	1460.0	1472.7	1482.8	1485.3	1487.8	1503.0	1535.8	1563.6	1599.0
40°	1389.3	1389.3	1389.3	1394.4	1401.9	1409.5	1419.6	1437.3	1470.2	1510.6	1545.9
42.5°	1303.4	1306.0	1311.0	1323.6	1333.7	1338.8	1346.4	1374.2	1409.5	1457.5	1495.4
45°	1232.7	1230.2	1235.2	1245.3	1255.4	1265.5	1278.2	1308.5	1351.4	1404.5	1447.4
47.5°	1144.3	1146.8	1151.9	1169.6	1182.2	1194.8	1210.0	1245.3	1295.9	1348.9	1396.9
50°	1068.5	1071.0	1083.7	1093.8	1106.4	1121.6	1139.2	1184.7	1240.3	1293.3	1351.4
52.5°	992.7	995.3	1005.4	1012.9	1033.1	1050.8	1073.6	1124.1	1182.2	1240.3	1298.4
55°	909.4	914.4	922.0	939.7	964.9	985.2	1010.4	1066.0	1124.1	1187.2	1245.3
57.5°	831.1	833.6	846.2	863.9	894.2	919.5	949.8	1007.9	1071.0	1131.7	1189.8
60°	757.8	762.9	770.4	793.2	833.6	858.9	889.2	949.8	1015.5	1076.1	1136.7
62.5°	682.0	687.1	697.2	722.4	770.4	798.2	831.1	894.2	959.9	1020.5	1081.1
65°	596.1	601.2	616.4	649.2	707.3	737.6	770.4	836.1	899.3	962.4	1023.0
67.5°	522.9	525.4	545.6	581.0	641.6	679.5	714.9	778.0	841.2	904.3	964.9
70°	452.2	457.2	472.4	520.4	586.0	616.4	654.2	722.4	785.6	848.7	906.8
72.5°	381.4	386.5	409.2	462.3	530.5	563.3	593.6	666.9	730.0	790.6	848.7
75°	310.7	318.3	348.6	409.2	474.9	507.7	540.6	606.2	674.5	732.5	788.1
77.5°	247.6	255.1	293.0	356.2	421.8	454.7	487.5	550.7	613.8	677.0	735.1
80°	186.9	197.0	242.5	305.7	371.3	404.2	434.5	500.2	560.8	618.9	679.5
82.5°	133.9	146.5	199.6	260.2	325.9	356.2	386.5	449.6	510.3	565.8	618.9
85°	83.4	106.1	159.1	217.2	280.4	310.7	341.0	404.2	462.3	517.8	568.4
87.5°	40.4	70.7	121.2	176.8	237.4	267.8	298.1	358.7	414.3	469.8	520.4
90°	2.5	40.4	85.9	138.9	199.6	227.3	257.7	315.8	371.3	424.4	472.4
92.5°	0.0	25.3	68.2	118.7	174.3	204.6	232.4	290.5	343.5	396.6	442.1
95°	0.0	12.6	53.0	101.0	154.1	179.3	207.1	262.7	315.8	366.3	411.7
97.5°	0.0	2.5	37.9	80.8	131.4	159.1	184.4	237.4	290.5	338.5	381.4
100°	0.0	0.0	25.3	65.7	111.1	136.4	161.7	212.2	262.7	308.2	351.1
102.5°	0.0	0.0	12.6	50.5	93.5	116.2	138.9	189.5	237.4	282.9	323.3
105°	0.0	0.0	2.5	35.4	75.8	96.0	118.7	164.2	212.2	255.1	295.5
107.5°	0.0	0.0	0.0	20.2	58.1	78.3	98.5	141.5	186.9	227.3	265.2
110°	0.0	0.0	0.0	10.1	42.9	60.6	80.8	121.2	161.7	202.1	240.0



TEST NUMBER: P257084

CATALOG NUMBER: HGL-S-UF-40L840-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	2.5	27.8	45.5	63.2	101.0	138.9	176.8	212.2
115°	0.0	0.0	0.0	0.0	15.2	30.3	45.5	80.8	116.2	154.1	186.9
117.5°	0.0	0.0	0.0	0.0	5.1	17.7	30.3	63.2	96.0	128.8	161.7
120°	0.0	0.0	0.0	0.0	0.0	7.6	17.7	45.5	75.8	106.1	136.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	27.8	55.6	85.9	113.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	37.9	65.7	90.9
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	22.7	45.5	68.2
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	27.8	48.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	15.2	30.3
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	15.2
137.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
140°	2.5	2.5	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: P257084

CATALOG NUMBER: HGL-S-UF-40L840-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3	2114.3
2.5°	2124.4	2114.3	2114.3	2111.8	2109.2	2106.7	2101.7	2099.1	2094.1	2096.6
5°	2119.3	2109.2	2109.2	2104.2	2101.7	2101.7	2099.1	2099.1	2096.6	2099.1
7.5°	2111.8	2099.1	2099.1	2094.1	2091.6	2089.0	2089.0	2089.0	2089.0	2091.6
10°	2091.6	2084.0	2084.0	2081.5	2078.9	2073.9	2071.3	2073.9	2071.3	2073.9
12.5°	2063.8	2056.2	2061.2	2061.2	2061.2	2056.2	2053.7	2056.2	2053.7	2056.2
15°	2028.4	2025.9	2033.5	2036.0	2038.5	2036.0	2033.5	2033.5	2033.5	2033.5
17.5°	1993.0	1990.5	2000.6	2005.7	2005.7	2005.7	2005.7	2003.1	2003.1	2005.7
20°	1962.7	1952.6	1957.7	1967.8	1970.3	1970.3	1972.8	1975.4	1975.4	1975.4
22.5°	1919.8	1914.7	1917.3	1924.8	1929.9	1932.4	1940.0	1940.0	1942.5	1945.0
25°	1869.3	1876.8	1879.4	1886.9	1889.5	1894.5	1904.6	1909.7	1909.7	1909.7
27.5°	1816.2	1831.4	1841.5	1846.5	1851.6	1856.6	1869.3	1879.4	1879.4	1879.4
30°	1765.7	1780.9	1801.1	1811.2	1816.2	1821.3	1839.0	1851.6	1854.1	1854.1
32.5°	1712.7	1732.9	1763.2	1778.3	1780.9	1788.4	1811.2	1826.3	1828.8	1828.8
35°	1667.2	1692.4	1725.3	1745.5	1750.5	1758.1	1783.4	1801.1	1803.6	1803.6
37.5°	1626.8	1652.0	1687.4	1715.2	1720.2	1730.3	1755.6	1778.3	1780.9	1783.4
40°	1581.3	1611.6	1647.0	1679.8	1689.9	1700.0	1727.8	1750.5	1755.6	1755.6
42.5°	1535.8	1573.7	1609.1	1647.0	1659.6	1669.7	1700.0	1722.8	1727.8	1727.8
45°	1487.8	1535.8	1571.2	1611.6	1626.8	1636.9	1664.7	1689.9	1697.5	1697.5
47.5°	1444.9	1495.4	1530.8	1571.2	1586.3	1601.5	1626.8	1652.0	1659.6	1662.1
50°	1396.9	1452.5	1487.8	1525.7	1545.9	1561.1	1586.3	1614.1	1621.7	1619.2
52.5°	1348.9	1401.9	1439.8	1480.3	1500.5	1515.6	1538.4	1568.7	1576.2	1576.2
55°	1298.4	1351.4	1391.8	1429.7	1449.9	1470.2	1492.9	1518.1	1528.3	1525.7
57.5°	1247.9	1295.9	1338.8	1379.2	1396.9	1417.1	1439.8	1465.1	1472.7	1477.7
60°	1194.8	1237.8	1285.8	1323.6	1341.3	1361.5	1384.3	1407.0	1419.6	1417.1
62.5°	1136.7	1184.7	1230.2	1265.5	1283.2	1303.4	1326.2	1346.4	1356.5	1361.5
65°	1078.6	1124.1	1167.0	1204.9	1220.1	1240.3	1265.5	1280.7	1293.3	1295.9
67.5°	1018.0	1063.5	1106.4	1146.8	1162.0	1179.7	1202.4	1217.5	1230.2	1232.7
70°	957.4	1005.4	1048.3	1086.2	1101.4	1116.5	1139.2	1154.4	1167.0	1167.0
72.5°	899.3	947.3	987.7	1025.6	1040.7	1053.4	1076.1	1091.2	1101.4	1103.9
75°	841.2	886.6	927.1	964.9	977.6	992.7	1012.9	1028.1	1038.2	1040.7
77.5°	783.1	831.1	869.0	904.3	917.0	929.6	952.3	964.9	975.0	975.0
80°	727.5	773.0	810.9	843.7	853.8	869.0	889.2	901.8	909.4	914.4
82.5°	674.5	717.4	752.8	783.1	798.2	808.3	828.5	841.2	848.7	853.8
85°	616.4	661.8	697.2	727.5	737.6	752.8	770.4	783.1	790.6	793.2
87.5°	563.3	603.7	639.1	674.5	687.1	697.2	714.9	727.5	735.1	740.1
90°	517.8	555.7	588.6	616.4	629.0	641.6	661.8	674.5	682.0	684.6
92.5°	485.0	522.9	553.2	581.0	593.6	603.7	621.4	634.0	641.6	644.1
95°	454.7	490.1	520.4	548.1	558.3	568.4	586.0	596.1	601.2	606.2
97.5°	421.8	459.7	487.5	512.8	525.4	533.0	550.7	560.8	568.4	570.9
100°	391.5	426.9	454.7	482.5	492.6	500.2	517.8	527.9	533.0	535.5
102.5°	361.2	396.6	424.4	449.6	459.7	467.3	482.5	492.6	500.2	502.7
105°	330.9	363.7	391.5	416.8	426.9	434.5	449.6	459.7	467.3	469.8
107.5°	303.1	333.4	361.2	384.0	394.1	401.6	416.8	426.9	434.5	437.0
110°	275.3	303.1	330.9	353.6	363.7	371.3	386.5	394.1	401.6	404.2



TEST NUMBER: P257084

CATALOG NUMBER: HGL-S-UF-40L840-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	245.0	275.3	300.6	323.3	330.9	341.0	353.6	363.7	368.8	371.3
115°	219.8	247.6	270.3	293.0	300.6	308.2	323.3	330.9	338.5	338.5
117.5°	192.0	217.2	242.5	262.7	270.3	277.9	293.0	300.6	305.7	308.2
120°	166.7	189.5	212.2	232.4	242.5	247.6	262.7	270.3	275.3	277.9
122.5°	141.5	164.2	186.9	204.6	212.2	219.8	232.4	240.0	245.0	247.6
125°	116.2	138.9	159.1	176.8	184.4	192.0	202.1	209.7	214.7	217.2
127.5°	93.5	113.7	133.9	149.0	156.6	164.2	174.3	181.9	186.9	189.5
130°	70.7	88.4	108.6	123.8	131.4	136.4	146.5	154.1	159.1	161.7
132.5°	48.0	65.7	83.4	98.5	106.1	111.1	121.2	126.3	131.4	133.9
135°	30.3	45.5	60.6	73.3	80.8	85.9	96.0	101.0	106.1	106.1
137.5°	15.2	27.8	40.4	50.5	55.6	63.2	70.7	75.8	78.3	80.8
140°	5.1	12.6	22.7	30.3	35.4	40.4	48.0	53.0	55.6	58.1
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)