

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: P257079

Luminaire Tested: **HGL-S-UF-40L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257079
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-40L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8044.8 lumens
Efficiency: N/A
Efficacy: 138.7 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

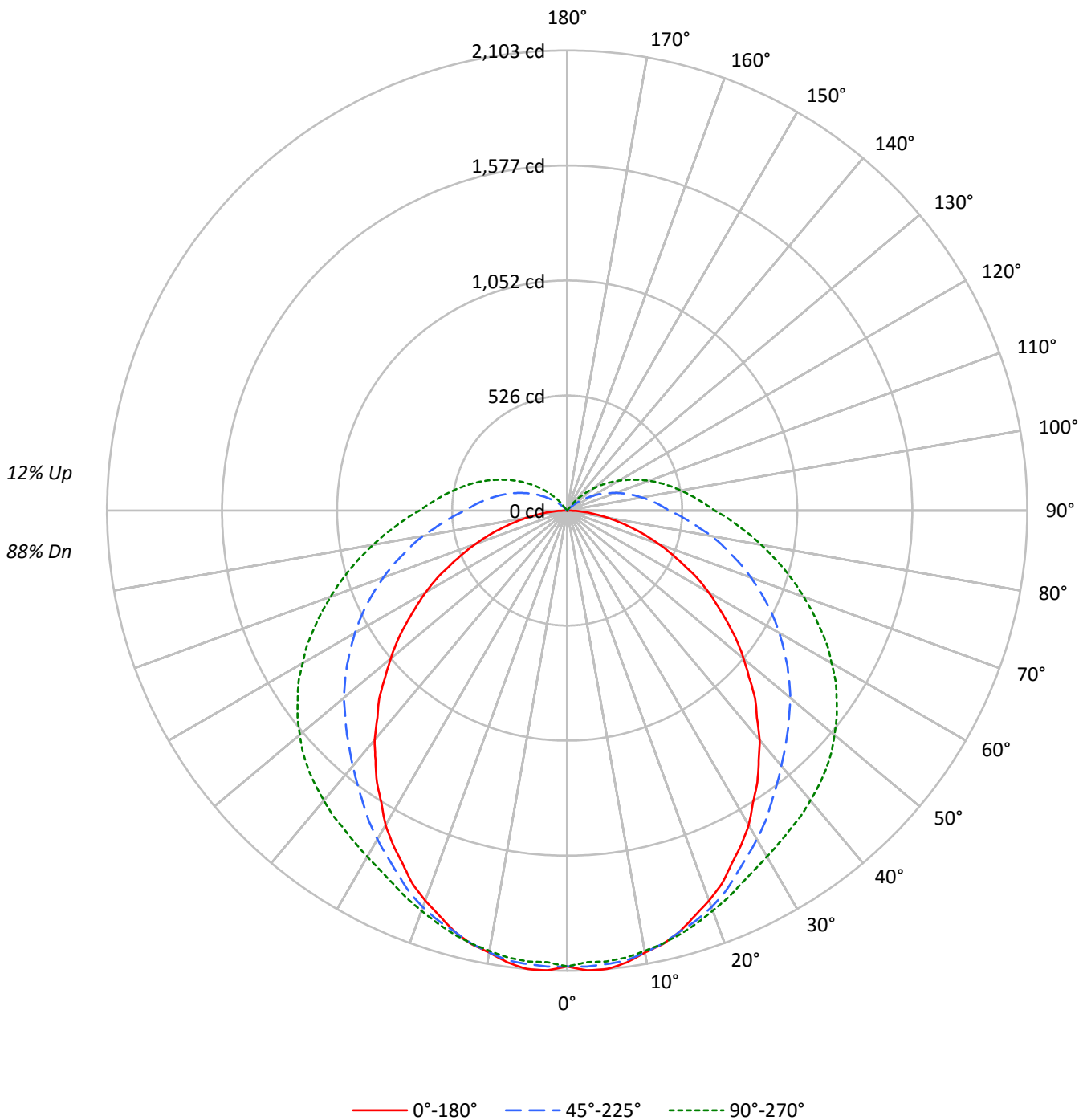
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257079

CATALOG NUMBER: HGL-S-UF-40L835-UNV-8

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°	12232	12232	12232
5°	12381	11919	11724
10°	12199	11554	11278
15°	12061	11118	10856
20°	11794	10758	10435
25°	11459	10282	10058
30°	11171	9876	9811
35°	10766	9474	9662
40°	10378	9139	9597
45°	9955	8900	9548
50°	9469	8725	9452
55°	9004	8532	9331
60°	8575	8363	9174
65°	7939	8194	8982
70°	7383	8037	8778
75°	6622	7886	8628
80°	5800	7873	8515
85°	4814	7894	8497



TEST NUMBER: P257079

CATALOG NUMBER: HGL-S-UF-40L835-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	2.5
10°-20°	561.1	7.0
20°-30°	841.9	10.5
30°-40°	1022.1	12.7
40°-50°	1104.0	13.7
50°-60°	1081.3	13.4
60°-70°	959.1	11.9
70°-80°	768.2	9.5
80°-90°	556.8	6.9
90°-100°	392.4	4.9
100°-110°	273.7	3.4
110°-120°	169.5	2.1
120°-130°	86.2	1.1
130°-140°	29.8	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°	1600.3	19.9
0°-40°	2622.4	32.6
0°-60°	4807.7	59.8
0°-90°	7091.7	88.2
90°-120°	835.6	10.4
90°-150°	953.0	11.8
90°-180°	953.0	11.8
0°-180°	8044.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2103	2083	2081	2071	2068	199
15°	1991	1976	1991	2009	2004	560
25°	1780	1785	1832	1862	1882	821
35°	1516	1526	1628	1725	1777	947
45°	1215	1247	1426	1603	1673	933
55°	896	971	1227	1429	1503	803
65°	587	727	1008	1202	1277	586
75°	306	500	777	963	1026	327
85°	82	306	560	727	782	89
90°	2	224	465	620	674	6
95°	0	177	406	550	597	0
105°	0	95	291	421	463	0
115°	0	30	184	296	334	0
125°	0	0	90	182	214	0
135°	0	0	15	80	104	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: P257079

CATALOG NUMBER: HGL-S-UF-40L835-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3
2.5°	2103.2	2100.7	2093.2	2085.8	2083.3	2083.3	2080.8	2078.3	2078.3	2075.8	2085.8
5°	2103.2	2100.7	2093.2	2083.3	2080.8	2083.3	2080.8	2075.8	2075.8	2073.3	2080.8
7.5°	2083.3	2078.3	2073.3	2065.8	2063.4	2063.4	2060.9	2060.9	2060.9	2060.9	2073.3
10°	2050.9	2048.4	2043.4	2036.0	2036.0	2033.5	2033.5	2036.0	2036.0	2038.5	2050.9
12.5°	2028.5	2023.5	2016.1	2008.6	2006.1	2006.1	2003.6	2001.1	2003.6	2006.1	2026.0
15°	1991.2	1988.7	1983.7	1976.2	1976.2	1976.2	1976.2	1973.8	1973.8	1976.2	1991.2
17.5°	1941.4	1936.4	1933.9	1929.0	1931.4	1933.9	1936.4	1933.9	1938.9	1946.4	1963.8
20°	1896.6	1891.6	1886.6	1879.2	1879.2	1881.7	1884.1	1884.1	1896.6	1906.5	1929.0
22.5°	1846.8	1844.3	1839.3	1836.9	1836.9	1839.3	1839.3	1834.4	1841.8	1856.8	1886.6
25°	1779.6	1777.1	1774.6	1774.6	1779.6	1784.6	1787.1	1789.6	1797.0	1807.0	1831.9
27.5°	1722.4	1719.9	1714.9	1709.9	1714.9	1719.9	1722.4	1727.3	1742.3	1762.2	1782.1
30°	1660.1	1657.7	1655.2	1655.2	1660.1	1662.6	1665.1	1662.6	1682.5	1712.4	1734.8
32.5°	1580.5	1578.0	1580.5	1580.5	1592.9	1600.4	1605.4	1607.9	1625.3	1652.7	1685.0
35°	1515.8	1515.8	1513.3	1518.3	1520.8	1525.7	1530.7	1543.2	1568.1	1595.4	1627.8
37.5°	1438.6	1438.6	1438.6	1451.1	1461.0	1463.5	1466.0	1480.9	1513.3	1540.7	1575.5
40°	1368.9	1368.9	1368.9	1373.9	1381.4	1388.8	1398.8	1416.2	1448.6	1488.4	1523.2
42.5°	1284.3	1286.8	1291.8	1304.2	1314.2	1319.2	1326.6	1354.0	1388.8	1436.1	1473.5
45°	1214.6	1212.1	1217.1	1227.1	1237.0	1247.0	1259.4	1289.3	1331.6	1383.9	1426.2
47.5°	1127.5	1130.0	1135.0	1152.4	1164.8	1177.3	1192.2	1227.1	1276.8	1329.1	1376.4
50°	1052.8	1055.3	1067.8	1077.7	1090.2	1105.1	1122.5	1167.3	1222.1	1274.4	1331.6
52.5°	978.2	980.7	990.6	998.1	1018.0	1035.4	1057.8	1107.6	1164.8	1222.1	1279.3
55°	896.0	901.0	908.5	925.9	950.8	970.7	995.6	1050.3	1107.6	1169.8	1227.1
57.5°	818.9	821.4	833.8	851.2	881.1	906.0	935.9	993.1	1055.3	1115.1	1172.3
60°	746.7	751.7	759.1	781.5	821.4	846.2	876.1	935.9	1000.6	1060.3	1120.0
62.5°	672.0	677.0	687.0	711.8	759.1	786.5	818.9	881.1	945.8	1005.5	1065.3
65°	587.4	592.4	607.3	639.7	696.9	726.8	759.1	823.8	886.1	948.3	1008.0
67.5°	515.2	517.7	537.6	572.5	632.2	669.5	704.4	766.6	828.8	891.1	950.8
70°	445.5	450.5	465.4	512.7	577.4	607.3	644.6	711.8	774.1	836.3	893.5
72.5°	375.8	380.8	403.2	455.5	522.7	555.0	584.9	657.1	719.3	779.0	836.3
75°	306.1	313.6	343.5	403.2	467.9	500.3	532.6	597.4	664.6	721.8	776.6
77.5°	243.9	251.4	288.7	350.9	415.7	448.0	480.4	542.6	604.8	667.0	724.3
80°	184.2	194.1	238.9	301.2	365.9	398.2	428.1	492.8	552.6	609.8	669.5
82.5°	131.9	144.4	196.6	256.4	321.1	350.9	380.8	443.0	502.8	557.5	609.8
85°	82.1	104.5	156.8	214.1	276.3	306.1	336.0	398.2	455.5	510.2	560.0
87.5°	39.8	69.7	119.5	174.2	234.0	263.8	293.7	353.4	408.2	462.9	512.7
90°	2.5	39.8	84.6	136.9	196.6	224.0	253.9	311.1	365.9	418.1	465.4
92.5°	0.0	24.9	67.2	117.0	171.7	201.6	229.0	286.2	338.5	390.8	435.6
95°	0.0	12.4	52.3	99.6	151.8	176.7	204.1	258.9	311.1	360.9	405.7
97.5°	0.0	2.5	37.3	79.6	129.4	156.8	181.7	234.0	286.2	333.5	375.8
100°	0.0	0.0	24.9	64.7	109.5	134.4	159.3	209.1	258.9	303.7	346.0
102.5°	0.0	0.0	12.4	49.8	92.1	114.5	136.9	186.7	234.0	278.8	318.6
105°	0.0	0.0	2.5	34.8	74.7	94.6	117.0	161.8	209.1	251.4	291.2
107.5°	0.0	0.0	0.0	19.9	57.2	77.2	97.1	139.4	184.2	224.0	261.3
110°	0.0	0.0	0.0	10.0	42.3	59.7	79.6	119.5	159.3	199.1	236.5



TEST NUMBER: P257079

CATALOG NUMBER: HGL-S-UF-40L835-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	27.4	44.8	62.2	99.6	136.9	174.2	209.1
115°	0.0	0.0	0.0	0.0	14.9	29.9	44.8	79.6	114.5	151.8	184.2
117.5°	0.0	0.0	0.0	0.0	5.0	17.4	29.9	62.2	94.6	126.9	159.3
120°	0.0	0.0	0.0	0.0	0.0	7.5	17.4	44.8	74.7	104.5	134.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	27.4	54.8	84.6	112.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	37.3	64.7	89.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	22.4	44.8	67.2
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	27.4	47.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	14.9	29.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	14.9
137.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
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: P257079

CATALOG NUMBER: HGL-S-UF-40L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3	2083.3
2.5°	2093.2	2083.3	2083.3	2080.8	2078.3	2075.8	2070.8	2068.3	2063.4	2065.8
5°	2088.2	2078.3	2078.3	2073.3	2070.8	2070.8	2068.3	2068.3	2065.8	2068.3
7.5°	2080.8	2068.3	2068.3	2063.4	2060.9	2058.4	2058.4	2058.4	2058.4	2060.9
10°	2060.9	2053.4	2053.4	2050.9	2048.4	2043.4	2041.0	2043.4	2041.0	2043.4
12.5°	2033.5	2026.0	2031.0	2031.0	2031.0	2026.0	2023.5	2026.0	2023.5	2026.0
15°	1998.6	1996.2	2003.6	2006.1	2008.6	2006.1	2003.6	2003.6	2003.6	2003.6
17.5°	1963.8	1961.3	1971.3	1976.2	1976.2	1976.2	1976.2	1973.8	1973.8	1976.2
20°	1933.9	1924.0	1929.0	1938.9	1941.4	1941.4	1943.9	1946.4	1946.4	1946.4
22.5°	1891.6	1886.6	1889.1	1896.6	1901.6	1904.1	1911.5	1911.5	1914.0	1916.5
25°	1841.8	1849.3	1851.8	1859.3	1861.7	1866.7	1876.7	1881.7	1881.7	1881.7
27.5°	1789.6	1804.5	1814.5	1819.4	1824.4	1829.4	1841.8	1851.8	1851.8	1851.8
30°	1739.8	1754.7	1774.6	1784.6	1789.6	1794.5	1812.0	1824.4	1826.9	1826.9
32.5°	1687.5	1707.4	1737.3	1752.2	1754.7	1762.2	1784.6	1799.5	1802.0	1802.0
35°	1642.7	1667.6	1700.0	1719.9	1724.9	1732.3	1757.2	1774.6	1777.1	1777.1
37.5°	1602.9	1627.8	1662.6	1690.0	1695.0	1704.9	1729.8	1752.2	1754.7	1757.2
40°	1558.1	1588.0	1622.8	1655.2	1665.1	1675.1	1702.5	1724.9	1729.8	1729.8
42.5°	1513.3	1550.6	1585.5	1622.8	1635.3	1645.2	1675.1	1697.5	1702.5	1702.5
45°	1466.0	1513.3	1548.1	1588.0	1602.9	1612.9	1640.2	1665.1	1672.6	1672.6
47.5°	1423.7	1473.5	1508.3	1548.1	1563.1	1578.0	1602.9	1627.8	1635.3	1637.7
50°	1376.4	1431.2	1466.0	1503.3	1523.2	1538.2	1563.1	1590.5	1597.9	1595.4
52.5°	1329.1	1381.4	1418.7	1458.5	1478.4	1493.4	1515.8	1545.6	1553.1	1553.1
55°	1279.3	1331.6	1371.4	1408.8	1428.7	1448.6	1471.0	1495.9	1505.8	1503.3
57.5°	1229.6	1276.8	1319.2	1359.0	1376.4	1396.3	1418.7	1443.6	1451.1	1456.0
60°	1177.3	1219.6	1266.9	1304.2	1321.6	1341.6	1364.0	1386.4	1398.8	1396.3
62.5°	1120.0	1167.3	1212.1	1247.0	1264.4	1284.3	1306.7	1326.6	1336.6	1341.6
65°	1062.8	1107.6	1149.9	1187.2	1202.2	1222.1	1247.0	1261.9	1274.4	1276.8
67.5°	1003.1	1047.9	1090.2	1130.0	1144.9	1162.3	1184.7	1199.7	1212.1	1214.6
70°	943.3	990.6	1032.9	1070.3	1085.2	1100.1	1122.5	1137.5	1149.9	1149.9
72.5°	886.1	933.4	973.2	1010.5	1025.5	1037.9	1060.3	1075.2	1085.2	1087.7
75°	828.8	873.6	913.5	950.8	963.2	978.2	998.1	1013.0	1023.0	1025.5
77.5°	771.6	818.9	856.2	891.1	903.5	915.9	938.3	950.8	960.7	960.7
80°	716.8	761.6	799.0	831.3	841.3	856.2	876.1	888.6	896.0	901.0
82.5°	664.6	706.9	741.7	771.6	786.5	796.5	816.4	828.8	836.3	841.3
85°	607.3	652.1	687.0	716.8	726.8	741.7	759.1	771.6	779.0	781.5
87.5°	555.0	594.9	629.7	664.6	677.0	687.0	704.4	716.8	724.3	729.3
90°	510.2	547.6	579.9	607.3	619.8	632.2	652.1	664.6	672.0	674.5
92.5°	477.9	515.2	545.1	572.5	584.9	594.9	612.3	624.7	632.2	634.7
95°	448.0	482.9	512.7	540.1	550.1	560.0	577.4	587.4	592.4	597.4
97.5°	415.7	453.0	480.4	505.3	517.7	525.2	542.6	552.6	560.0	562.5
100°	385.8	420.6	448.0	475.4	485.3	492.8	510.2	520.2	525.2	527.7
102.5°	355.9	390.8	418.1	443.0	453.0	460.5	475.4	485.3	492.8	495.3
105°	326.1	358.4	385.8	410.7	420.6	428.1	443.0	453.0	460.5	462.9
107.5°	298.7	328.5	355.9	378.3	388.3	395.7	410.7	420.6	428.1	430.6
110°	271.3	298.7	326.1	348.5	358.4	365.9	380.8	388.3	395.7	398.2



TEST NUMBER: P257079

CATALOG NUMBER: HGL-S-UF-40L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	241.4	271.3	296.2	318.6	326.1	336.0	348.5	358.4	363.4	365.9
115°	216.5	243.9	266.3	288.7	296.2	303.7	318.6	326.1	333.5	333.5
117.5°	189.2	214.1	238.9	258.9	266.3	273.8	288.7	296.2	301.2	303.7
120°	164.3	186.7	209.1	229.0	238.9	243.9	258.9	266.3	271.3	273.8
122.5°	139.4	161.8	184.2	201.6	209.1	216.5	229.0	236.5	241.4	243.9
125°	114.5	136.9	156.8	174.2	181.7	189.2	199.1	206.6	211.6	214.1
127.5°	92.1	112.0	131.9	146.8	154.3	161.8	171.7	179.2	184.2	186.7
130°	69.7	87.1	107.0	122.0	129.4	134.4	144.4	151.8	156.8	159.3
132.5°	47.3	64.7	82.1	97.1	104.5	109.5	119.5	124.4	129.4	131.9
135°	29.9	44.8	59.7	72.2	79.6	84.6	94.6	99.6	104.5	104.5
137.5°	14.9	27.4	39.8	49.8	54.8	62.2	69.7	74.7	77.2	79.6
140°	5.0	12.4	22.4	29.9	34.8	39.8	47.3	52.3	54.8	57.2
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)