

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: P257074

Luminaire Tested: **HGL-S-UF-40L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257074
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-40L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7754.5 lumens
Efficiency: N/A
Efficacy: 133.7 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

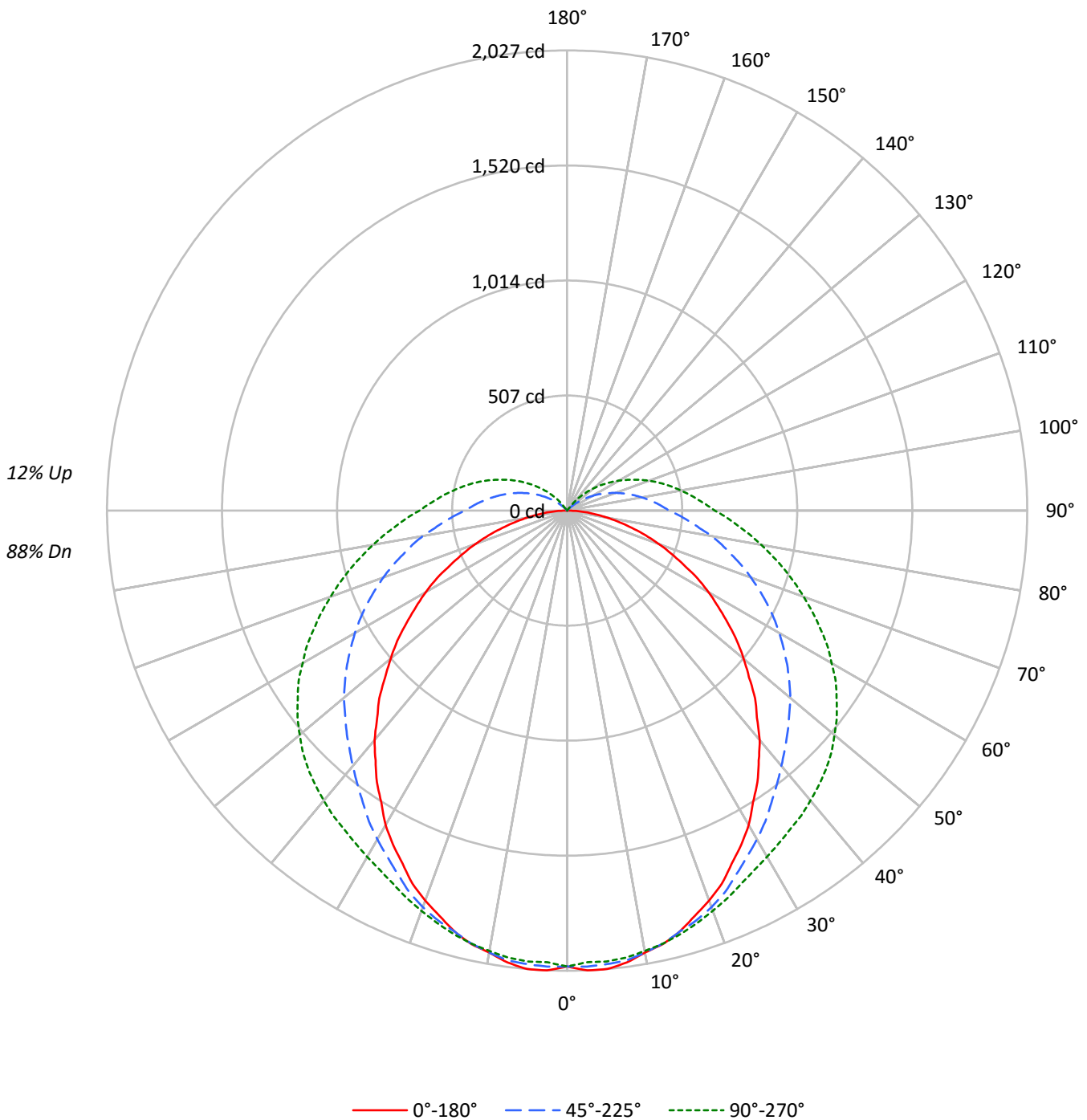
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11790	11790	11790
5°	11935	11489	11301
10°	11759	11137	10872
15°	11626	10717	10465
20°	11369	10369	10058
25°	11046	9911	9695
30°	10768	9520	9457
35°	10378	9132	9314
40°	10004	8810	9251
45°	9596	8578	9203
50°	9128	8410	9111
55°	8680	8224	8994
60°	8265	8061	8842
65°	7652	7899	8659
70°	7117	7748	8461
75°	6384	7601	8316
80°	5589	7590	8207
85°	4644	7609	8191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	2.5
10°-20°	540.8	7.0
20°-30°	811.5	10.5
30°-40°	985.3	12.7
40°-50°	1064.2	13.7
50°-60°	1042.2	13.4
60°-70°	924.5	11.9
70°-80°	740.5	9.5
80°-90°	536.7	6.9
90°-100°	378.2	4.9
100°-110°	263.8	3.4
110°-120°	163.3	2.1
120°-130°	83.1	1.1
130°-140°	28.8	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°	1542.5	19.9
0°-40°	2527.8	32.6
0°-60°	4634.2	59.8
0°-90°	6835.8	88.2
90°-120°	805.4	10.4
90°-150°	918.6	11.8
90°-180°	919.0	11.9
0°-180°	7754.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2027	2008	2006	1996	1994	192
15°	1919	1905	1919	1936	1931	540
25°	1715	1720	1766	1795	1814	792
35°	1461	1471	1569	1663	1713	912
45°	1171	1202	1375	1545	1612	900
55°	864	936	1183	1377	1449	774
65°	566	701	972	1159	1231	565
75°	295	482	748	928	988	315
85°	79	295	540	701	753	85
90°	2	216	449	597	650	6
95°	0	170	391	530	576	0
105°	0	91	281	406	446	0
115°	0	29	178	286	322	0
125°	0	0	86	175	206	0
135°	0	0	14	77	101	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°	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1
2.5°	2027.3	2024.9	2017.7	2010.5	2008.1	2008.1	2005.7	2003.3	2003.3	2000.9	2010.5
5°	2027.3	2024.9	2017.7	2008.1	2005.7	2008.1	2005.7	2000.9	2000.9	1998.5	2005.7
7.5°	2008.1	2003.3	1998.5	1991.3	1988.9	1988.9	1986.5	1986.5	1986.5	1986.5	1998.5
10°	1976.9	1974.5	1969.7	1962.5	1962.5	1960.1	1960.1	1962.5	1962.5	1964.9	1976.9
12.5°	1955.3	1950.5	1943.3	1936.1	1933.7	1933.7	1931.3	1928.9	1931.3	1933.7	1952.9
15°	1919.3	1916.9	1912.1	1904.9	1904.9	1904.9	1904.9	1902.5	1902.5	1904.9	1919.3
17.5°	1871.3	1866.5	1864.1	1859.3	1861.7	1864.1	1866.5	1864.1	1868.9	1876.1	1892.9
20°	1828.2	1823.4	1818.6	1811.4	1811.4	1813.8	1816.2	1816.2	1828.2	1837.8	1859.3
22.5°	1780.2	1777.8	1773.0	1770.6	1770.6	1773.0	1773.0	1768.2	1775.4	1789.8	1818.6
25°	1715.4	1713.0	1710.6	1710.6	1715.4	1720.2	1722.6	1725.0	1732.2	1741.8	1765.8
27.5°	1660.2	1657.8	1653.0	1648.2	1653.0	1657.8	1660.2	1665.0	1679.4	1698.6	1717.8
30°	1600.2	1597.8	1595.4	1595.4	1600.2	1602.6	1605.0	1602.6	1621.8	1650.6	1672.2
32.5°	1523.5	1521.1	1523.5	1523.5	1535.5	1542.7	1547.5	1549.9	1566.6	1593.0	1624.2
35°	1461.1	1461.1	1458.7	1463.5	1465.9	1470.7	1475.5	1487.5	1511.5	1537.9	1569.0
37.5°	1386.7	1386.7	1386.7	1398.7	1408.3	1410.7	1413.1	1427.5	1458.7	1485.1	1518.7
40°	1319.5	1319.5	1319.5	1324.3	1331.5	1338.7	1348.3	1365.1	1396.3	1434.7	1468.3
42.5°	1238.0	1240.4	1245.2	1257.2	1266.8	1271.6	1278.7	1305.1	1338.7	1384.3	1420.3
45°	1170.8	1168.4	1173.2	1182.8	1192.4	1202.0	1214.0	1242.8	1283.5	1333.9	1374.7
47.5°	1086.8	1089.2	1094.0	1110.8	1122.8	1134.8	1149.2	1182.8	1230.8	1281.1	1326.7
50°	1014.8	1017.2	1029.2	1038.8	1050.8	1065.2	1082.0	1125.2	1178.0	1228.4	1283.5
52.5°	942.9	945.3	954.9	962.1	981.3	998.0	1019.6	1067.6	1122.8	1178.0	1233.2
55°	863.7	868.5	875.7	892.5	916.5	935.7	959.7	1012.4	1067.6	1127.6	1182.8
57.5°	789.3	791.7	803.7	820.5	849.3	873.3	902.1	957.3	1017.2	1074.8	1130.0
60°	719.7	724.5	731.7	753.3	791.7	815.7	844.5	902.1	964.5	1022.0	1079.6
62.5°	647.8	652.6	662.2	686.2	731.7	758.1	789.3	849.3	911.7	969.3	1026.8
65°	566.2	571.0	585.4	616.6	671.8	700.6	731.7	794.1	854.1	914.1	971.7
67.5°	496.6	499.0	518.2	551.8	609.4	645.4	679.0	738.9	798.9	858.9	916.5
70°	429.4	434.2	448.6	494.2	556.6	585.4	621.4	686.2	746.1	806.1	861.3
72.5°	362.3	367.1	388.7	439.0	503.8	535.0	563.8	633.4	693.4	750.9	806.1
75°	295.1	302.3	331.1	388.7	451.0	482.2	513.4	575.8	640.6	695.8	748.5
77.5°	235.1	242.3	278.3	338.3	400.7	431.8	463.0	523.0	583.0	643.0	698.2
80°	177.5	187.1	230.3	290.3	352.7	383.9	412.7	475.0	532.6	587.8	645.4
82.5°	127.2	139.2	189.5	247.1	309.5	338.3	367.1	427.0	484.6	537.4	587.8
85°	79.2	100.8	151.1	206.3	266.3	295.1	323.9	383.9	439.0	491.8	539.8
87.5°	38.4	67.2	115.2	167.9	225.5	254.3	283.1	340.7	393.5	446.2	494.2
90°	2.4	38.4	81.6	132.0	189.5	215.9	244.7	299.9	352.7	403.1	448.6
92.5°	0.0	24.0	64.8	112.8	165.5	194.3	220.7	275.9	326.3	376.7	419.9
95°	0.0	12.0	50.4	96.0	146.3	170.3	196.7	249.5	299.9	347.9	391.1
97.5°	0.0	2.4	36.0	76.8	124.8	151.1	175.1	225.5	275.9	321.5	362.3
100°	0.0	0.0	24.0	62.4	105.6	129.6	153.5	201.5	249.5	292.7	333.5
102.5°	0.0	0.0	12.0	48.0	88.8	110.4	132.0	179.9	225.5	268.7	307.1
105°	0.0	0.0	2.4	33.6	72.0	91.2	112.8	155.9	201.5	242.3	280.7
107.5°	0.0	0.0	0.0	19.2	55.2	74.4	93.6	134.4	177.5	215.9	251.9
110°	0.0	0.0	0.0	9.6	40.8	57.6	76.8	115.2	153.5	191.9	227.9



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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	2.4	26.4	43.2	60.0	96.0	132.0	167.9	201.5
115°	0.0	0.0	0.0	0.0	14.4	28.8	43.2	76.8	110.4	146.3	177.5
117.5°	0.0	0.0	0.0	0.0	4.8	16.8	28.8	60.0	91.2	122.4	153.5
120°	0.0	0.0	0.0	0.0	0.0	7.2	16.8	43.2	72.0	100.8	129.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	26.4	52.8	81.6	108.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	36.0	62.4	86.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	21.6	43.2	64.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	26.4	45.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	14.4	28.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.4
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1	2008.1
2.5°	2017.7	2008.1	2008.1	2005.7	2003.3	2000.9	1996.1	1993.7	1988.9	1991.3
5°	2012.9	2003.3	2003.3	1998.5	1996.1	1996.1	1993.7	1993.7	1991.3	1993.7
7.5°	2005.7	1993.7	1993.7	1988.9	1986.5	1984.1	1984.1	1984.1	1984.1	1986.5
10°	1986.5	1979.3	1979.3	1976.9	1974.5	1969.7	1967.3	1969.7	1967.3	1969.7
12.5°	1960.1	1952.9	1957.7	1957.7	1957.7	1952.9	1950.5	1952.9	1950.5	1952.9
15°	1926.5	1924.1	1931.3	1933.7	1936.1	1933.7	1931.3	1931.3	1931.3	1931.3
17.5°	1892.9	1890.5	1900.1	1904.9	1904.9	1904.9	1904.9	1902.5	1902.5	1904.9
20°	1864.1	1854.5	1859.3	1868.9	1871.3	1871.3	1873.7	1876.1	1876.1	1876.1
22.5°	1823.4	1818.6	1821.0	1828.2	1833.0	1835.4	1842.5	1842.5	1844.9	1847.3
25°	1775.4	1782.6	1785.0	1792.2	1794.6	1799.4	1809.0	1813.8	1813.8	1813.8
27.5°	1725.0	1739.4	1749.0	1753.8	1758.6	1763.4	1775.4	1785.0	1785.0	1785.0
30°	1677.0	1691.4	1710.6	1720.2	1725.0	1729.8	1746.6	1758.6	1761.0	1761.0
32.5°	1626.6	1645.8	1674.6	1689.0	1691.4	1698.6	1720.2	1734.6	1737.0	1737.0
35°	1583.4	1607.4	1638.6	1657.8	1662.6	1669.8	1693.8	1710.6	1713.0	1713.0
37.5°	1545.1	1569.0	1602.6	1629.0	1633.8	1643.4	1667.4	1689.0	1691.4	1693.8
40°	1501.9	1530.7	1564.2	1595.4	1605.0	1614.6	1641.0	1662.6	1667.4	1667.4
42.5°	1458.7	1494.7	1528.3	1564.2	1576.2	1585.8	1614.6	1636.2	1641.0	1641.0
45°	1413.1	1458.7	1492.3	1530.7	1545.1	1554.7	1581.0	1605.0	1612.2	1612.2
47.5°	1372.3	1420.3	1453.9	1492.3	1506.7	1521.1	1545.1	1569.0	1576.2	1578.6
50°	1326.7	1379.5	1413.1	1449.1	1468.3	1482.7	1506.7	1533.1	1540.3	1537.9
52.5°	1281.1	1331.5	1367.5	1405.9	1425.1	1439.5	1461.1	1489.9	1497.1	1497.1
55°	1233.2	1283.5	1321.9	1357.9	1377.1	1396.3	1417.9	1441.9	1451.5	1449.1
57.5°	1185.2	1230.8	1271.6	1309.9	1326.7	1345.9	1367.5	1391.5	1398.7	1403.5
60°	1134.8	1175.6	1221.2	1257.2	1273.9	1293.1	1314.7	1336.3	1348.3	1345.9
62.5°	1079.6	1125.2	1168.4	1202.0	1218.8	1238.0	1259.6	1278.7	1288.3	1293.1
65°	1024.4	1067.6	1108.4	1144.4	1158.8	1178.0	1202.0	1216.4	1228.4	1230.8
67.5°	966.9	1010.0	1050.8	1089.2	1103.6	1120.4	1142.0	1156.4	1168.4	1170.8
70°	909.3	954.9	995.6	1031.6	1046.0	1060.4	1082.0	1096.4	1108.4	1108.4
72.5°	854.1	899.7	938.1	974.1	988.5	1000.4	1022.0	1036.4	1046.0	1048.4
75°	798.9	842.1	880.5	916.5	928.5	942.9	962.1	976.5	986.1	988.5
77.5°	743.7	789.3	825.3	858.9	870.9	882.9	904.5	916.5	926.1	926.1
80°	691.0	734.1	770.1	801.3	810.9	825.3	844.5	856.5	863.7	868.5
82.5°	640.6	681.4	714.9	743.7	758.1	767.7	786.9	798.9	806.1	810.9
85°	585.4	628.6	662.2	691.0	700.6	714.9	731.7	743.7	750.9	753.3
87.5°	535.0	573.4	607.0	640.6	652.6	662.2	679.0	691.0	698.2	703.0
90°	491.8	527.8	559.0	585.4	597.4	609.4	628.6	640.6	647.8	650.2
92.5°	460.6	496.6	525.4	551.8	563.8	573.4	590.2	602.2	609.4	611.8
95°	431.8	465.4	494.2	520.6	530.2	539.8	556.6	566.2	571.0	575.8
97.5°	400.7	436.6	463.0	487.0	499.0	506.2	523.0	532.6	539.8	542.2
100°	371.9	405.5	431.8	458.2	467.8	475.0	491.8	501.4	506.2	508.6
102.5°	343.1	376.7	403.1	427.0	436.6	443.8	458.2	467.8	475.0	477.4
105°	314.3	345.5	371.9	395.9	405.5	412.7	427.0	436.6	443.8	446.2
107.5°	287.9	316.7	343.1	364.7	374.3	381.5	395.9	405.5	412.7	415.1
110°	261.5	287.9	314.3	335.9	345.5	352.7	367.1	374.3	381.5	383.9



TEST NUMBER: P257074

CATALOG NUMBER: HGL-S-UF-40L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	232.7	261.5	285.5	307.1	314.3	323.9	335.9	345.5	350.3	352.7
115°	208.7	235.1	256.7	278.3	285.5	292.7	307.1	314.3	321.5	321.5
117.5°	182.3	206.3	230.3	249.5	256.7	263.9	278.3	285.5	290.3	292.7
120°	158.3	179.9	201.5	220.7	230.3	235.1	249.5	256.7	261.5	263.9
122.5°	134.4	155.9	177.5	194.3	201.5	208.7	220.7	227.9	232.7	235.1
125°	110.4	132.0	151.1	167.9	175.1	182.3	191.9	199.1	203.9	206.3
127.5°	88.8	108.0	127.2	141.5	148.7	155.9	165.5	172.7	177.5	179.9
130°	67.2	84.0	103.2	117.6	124.8	129.6	139.2	146.3	151.1	153.5
132.5°	45.6	62.4	79.2	93.6	100.8	105.6	115.2	120.0	124.8	127.2
135°	28.8	43.2	57.6	69.6	76.8	81.6	91.2	96.0	100.8	100.8
137.5°	14.4	26.4	38.4	48.0	52.8	60.0	67.2	72.0	74.4	76.8
140°	4.8	12.0	21.6	28.8	33.6	38.4	45.6	50.4	52.8	55.2
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)