

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: P257118

Luminaire Tested: **HGL-S-UF-30L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257118
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-30L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7318.7 lumens
Efficiency: N/A
Efficacy: 112.4 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

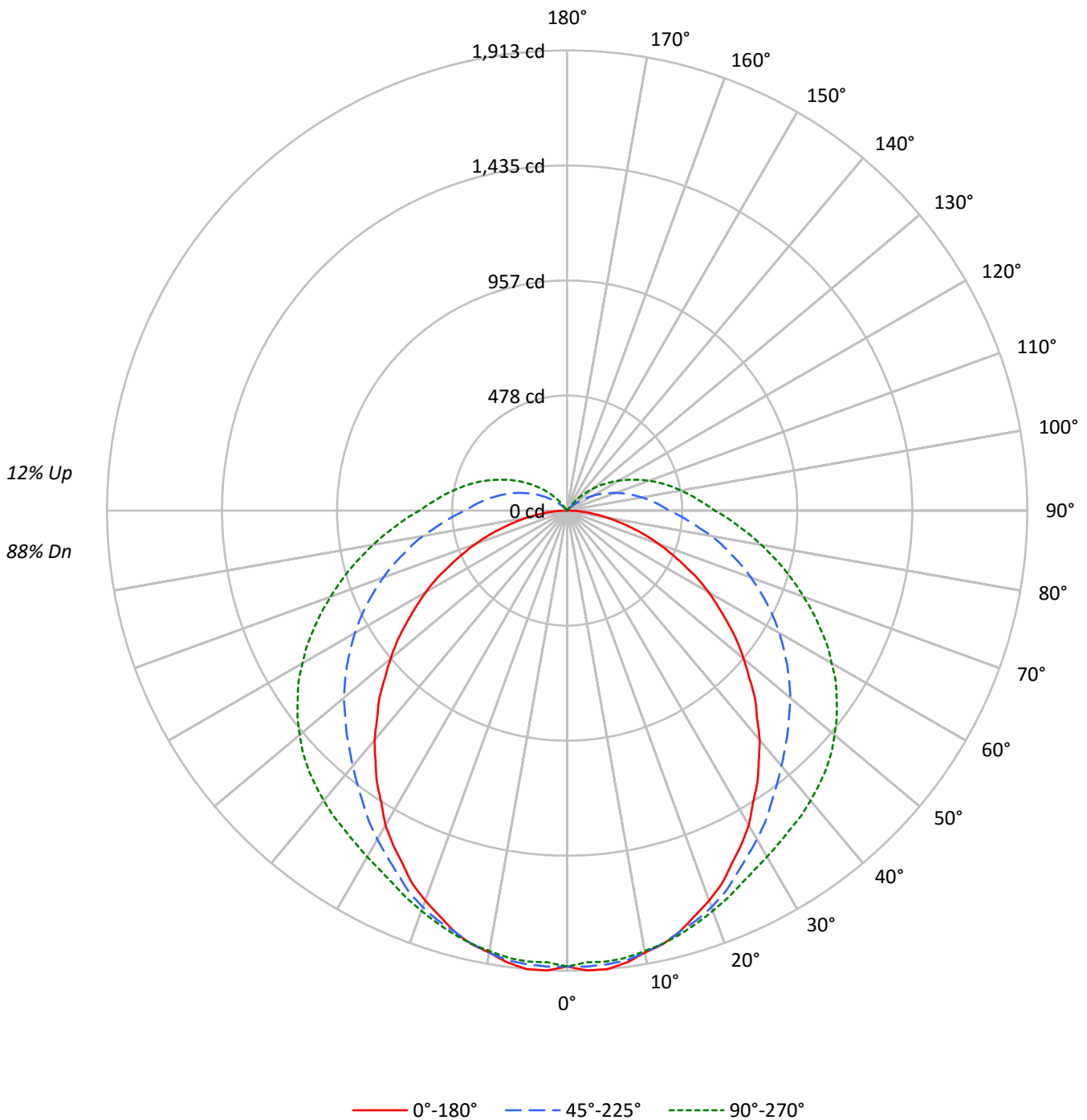
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7418	7418	7418
5°	7512	7231	7111
10°	7404	7011	6840
15°	7324	6748	6584
20°	7164	6531	6329
25°	6964	6244	6100
30°	6792	5999	5950
35°	6549	5756	5860
40°	6317	5554	5821
45°	6064	5410	5791
50°	5773	5306	5733
55°	5495	5190	5659
60°	5239	5089	5564
65°	4859	4989	5448
70°	4530	4896	5323
75°	4080	4808	5232
80°	3601	4805	5164
85°	3052	4823	5154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	2.5
10°-20°	510.5	7.0
20°-30°	765.9	10.5
30°-40°	929.9	12.7
40°-50°	1004.4	13.7
50°-60°	983.7	13.4
60°-70°	872.5	11.9
70°-80°	698.9	9.5
80°-90°	506.5	6.9
90°-100°	357.0	4.9
100°-110°	249.0	3.4
110°-120°	154.2	2.1
120°-130°	78.4	1.1
130°-140°	27.2	0.4
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1455.8	19.9
0°-40°	2385.7	32.6
0°-60°	4373.8	59.8
0°-90°	6451.7	88.2
90°-120°	760.2	10.4
90°-150°	867.0	11.8
90°-180°	867.0	11.8
0°-180°	7318.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1913	1895	1893	1884	1882	181
15°	1812	1798	1812	1827	1823	509
25°	1619	1624	1666	1694	1712	747
35°	1379	1388	1481	1569	1617	861
45°	1105	1134	1298	1458	1522	849
55°	815	883	1116	1300	1368	731
65°	534	661	917	1094	1162	533
75°	278	455	706	876	933	298
85°	75	278	510	661	711	81
90°	2	204	423	564	614	6
95°	0	161	369	500	543	0
105°	0	86	265	383	421	0
115°	0	27	168	270	303	0
125°	0	0	82	165	195	0
135°	0	0	14	72	95	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°	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2
2.5°	1913.4	1911.1	1904.3	1897.5	1895.2	1895.2	1893.0	1890.7	1890.7	1888.5	1897.5
5°	1913.4	1911.1	1904.3	1895.2	1893.0	1895.2	1893.0	1888.5	1888.5	1886.2	1893.0
7.5°	1895.2	1890.7	1886.2	1879.4	1877.1	1877.1	1874.9	1874.9	1874.9	1874.9	1886.2
10°	1865.8	1863.5	1859.0	1852.2	1852.2	1850.0	1850.0	1852.2	1852.2	1854.5	1865.8
12.5°	1845.4	1840.9	1834.1	1827.3	1825.1	1825.1	1822.8	1820.5	1822.8	1825.1	1843.2
15°	1811.5	1809.2	1804.7	1797.9	1797.9	1797.9	1797.9	1795.6	1795.6	1797.9	1811.5
17.5°	1766.2	1761.7	1759.4	1754.9	1757.1	1759.4	1761.7	1759.4	1763.9	1770.7	1786.6
20°	1725.4	1720.9	1716.4	1709.6	1709.6	1711.8	1714.1	1714.1	1725.4	1734.5	1754.9
22.5°	1680.1	1677.9	1673.3	1671.1	1671.1	1673.3	1673.3	1668.8	1675.6	1689.2	1716.4
25°	1619.0	1616.7	1614.5	1614.5	1619.0	1623.5	1625.8	1628.1	1634.8	1643.9	1666.5
27.5°	1566.9	1564.7	1560.1	1555.6	1560.1	1564.7	1566.9	1571.4	1585.0	1603.1	1621.3
30°	1510.3	1508.0	1505.8	1505.8	1510.3	1512.6	1514.8	1512.6	1530.7	1557.9	1578.2
32.5°	1437.9	1435.6	1437.9	1437.9	1449.2	1456.0	1460.5	1462.8	1478.6	1503.5	1533.0
35°	1379.0	1379.0	1376.7	1381.2	1383.5	1388.0	1392.6	1403.9	1426.5	1451.4	1480.9
37.5°	1308.8	1308.8	1308.8	1320.1	1329.2	1331.4	1333.7	1347.3	1376.7	1401.6	1433.3
40°	1245.4	1245.4	1245.4	1249.9	1256.7	1263.5	1272.6	1288.4	1317.8	1354.1	1385.8
42.5°	1168.4	1170.7	1175.2	1186.5	1195.6	1200.1	1206.9	1231.8	1263.5	1306.5	1340.5
45°	1105.0	1102.7	1107.3	1116.3	1125.4	1134.4	1145.8	1172.9	1211.4	1259.0	1297.5
47.5°	1025.7	1028.0	1032.5	1048.4	1059.7	1071.0	1084.6	1116.3	1161.6	1209.2	1252.2
50°	957.8	960.1	971.4	980.5	991.8	1005.4	1021.2	1062.0	1111.8	1159.3	1211.4
52.5°	889.9	892.1	901.2	908.0	926.1	942.0	962.3	1007.6	1059.7	1111.8	1163.9
55°	815.2	819.7	826.5	842.3	865.0	883.1	905.7	955.5	1007.6	1064.2	1116.3
57.5°	745.0	747.2	758.6	774.4	801.6	824.2	851.4	903.5	960.1	1014.4	1066.5
60°	679.3	683.8	690.6	711.0	747.2	769.9	797.0	851.4	910.3	964.6	1018.9
62.5°	611.4	615.9	625.0	647.6	690.6	715.5	745.0	801.6	860.4	914.8	969.1
65°	534.4	538.9	552.5	581.9	634.0	661.2	690.6	749.5	806.1	862.7	917.1
67.5°	468.7	471.0	489.1	520.8	575.1	609.1	640.8	697.4	754.0	810.6	865.0
70°	405.3	409.8	423.4	466.5	525.3	552.5	586.5	647.6	704.2	760.8	812.9
72.5°	341.9	346.4	366.8	414.4	475.5	504.9	532.1	597.8	654.4	708.7	760.8
75°	278.5	285.3	312.5	366.8	425.7	455.1	484.6	543.4	604.6	656.7	706.5
77.5°	221.9	228.7	262.7	319.3	378.1	407.6	437.0	493.6	550.2	606.8	658.9
80°	167.6	176.6	217.4	274.0	332.9	362.3	389.5	448.3	502.7	554.8	609.1
82.5°	120.0	131.3	178.9	233.2	292.1	319.3	346.4	403.1	457.4	507.2	554.8
85°	74.7	95.1	142.7	194.7	251.3	278.5	305.7	362.3	414.4	464.2	509.5
87.5°	36.2	63.4	108.7	158.5	212.8	240.0	267.2	321.5	371.4	421.2	466.5
90°	2.3	36.2	77.0	124.5	178.9	203.8	231.0	283.0	332.9	380.4	423.4
92.5°	0.0	22.6	61.1	106.4	156.2	183.4	208.3	260.4	307.9	355.5	396.3
95°	0.0	11.3	47.6	90.6	138.1	160.8	185.7	235.5	283.0	328.3	369.1
97.5°	0.0	2.3	34.0	72.5	117.7	142.7	165.3	212.8	260.4	303.4	341.9
100°	0.0	0.0	22.6	58.9	99.6	122.3	144.9	190.2	235.5	276.2	314.7
102.5°	0.0	0.0	11.3	45.3	83.8	104.2	124.5	169.8	212.8	253.6	289.8
105°	0.0	0.0	2.3	31.7	67.9	86.0	106.4	147.2	190.2	228.7	264.9
107.5°	0.0	0.0	0.0	18.1	52.1	70.2	88.3	126.8	167.6	203.8	237.8
110°	0.0	0.0	0.0	9.1	38.5	54.3	72.5	108.7	144.9	181.1	215.1



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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	2.3	24.9	40.8	56.6	90.6	124.5	158.5	190.2
115°	0.0	0.0	0.0	0.0	13.6	27.2	40.8	72.5	104.2	138.1	167.6
117.5°	0.0	0.0	0.0	0.0	4.5	15.9	27.2	56.6	86.0	115.5	144.9
120°	0.0	0.0	0.0	0.0	0.0	6.8	15.9	40.8	67.9	95.1	122.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	24.9	49.8	77.0	101.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	34.0	58.9	81.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	20.4	40.8	61.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	24.9	43.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	13.6	27.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	13.6
137.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
140°	2.3	2.3	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°	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2	1895.2
2.5°	1904.3	1895.2	1895.2	1893.0	1890.7	1888.5	1883.9	1881.7	1877.1	1879.4
5°	1899.8	1890.7	1890.7	1886.2	1883.9	1883.9	1881.7	1881.7	1879.4	1881.7
7.5°	1893.0	1881.7	1881.7	1877.1	1874.9	1872.6	1872.6	1872.6	1872.6	1874.9
10°	1874.9	1868.1	1868.1	1865.8	1863.5	1859.0	1856.8	1859.0	1856.8	1859.0
12.5°	1850.0	1843.2	1847.7	1847.7	1847.7	1843.2	1840.9	1843.2	1840.9	1843.2
15°	1818.3	1816.0	1822.8	1825.1	1827.3	1825.1	1822.8	1822.8	1822.8	1822.8
17.5°	1786.6	1784.3	1793.4	1797.9	1797.9	1797.9	1797.9	1795.6	1795.6	1797.9
20°	1759.4	1750.3	1754.9	1763.9	1766.2	1766.2	1768.4	1770.7	1770.7	1770.7
22.5°	1720.9	1716.4	1718.6	1725.4	1730.0	1732.2	1739.0	1739.0	1741.3	1743.5
25°	1675.6	1682.4	1684.7	1691.5	1693.7	1698.2	1707.3	1711.8	1711.8	1711.8
27.5°	1628.1	1641.6	1650.7	1655.2	1659.8	1664.3	1675.6	1684.7	1684.7	1684.7
30°	1582.8	1596.4	1614.5	1623.5	1628.1	1632.6	1648.4	1659.8	1662.0	1662.0
32.5°	1535.2	1553.3	1580.5	1594.1	1596.4	1603.1	1623.5	1637.1	1639.4	1639.4
35°	1494.5	1517.1	1546.5	1564.7	1569.2	1576.0	1598.6	1614.5	1616.7	1616.7
37.5°	1458.2	1480.9	1512.6	1537.5	1542.0	1551.1	1573.7	1594.1	1596.4	1598.6
40°	1417.5	1444.6	1476.3	1505.8	1514.8	1523.9	1548.8	1569.2	1573.7	1573.7
42.5°	1376.7	1410.7	1442.4	1476.3	1487.7	1496.7	1523.9	1544.3	1548.8	1548.8
45°	1333.7	1376.7	1408.4	1444.6	1458.2	1467.3	1492.2	1514.8	1521.6	1521.6
47.5°	1295.2	1340.5	1372.2	1408.4	1422.0	1435.6	1458.2	1480.9	1487.7	1489.9
50°	1252.2	1302.0	1333.7	1367.7	1385.8	1399.4	1422.0	1446.9	1453.7	1451.4
52.5°	1209.2	1256.7	1290.7	1326.9	1345.0	1358.6	1379.0	1406.2	1412.9	1412.9
55°	1163.9	1211.4	1247.6	1281.6	1299.7	1317.8	1338.2	1360.9	1369.9	1367.7
57.5°	1118.6	1161.6	1200.1	1236.3	1252.2	1270.3	1290.7	1313.3	1320.1	1324.6
60°	1071.0	1109.5	1152.5	1186.5	1202.4	1220.5	1240.9	1261.2	1272.6	1270.3
62.5°	1018.9	1062.0	1102.7	1134.4	1150.3	1168.4	1188.8	1206.9	1215.9	1220.5
65°	966.9	1007.6	1046.1	1080.1	1093.7	1111.8	1134.4	1148.0	1159.3	1161.6
67.5°	912.5	953.3	991.8	1028.0	1041.6	1057.4	1077.8	1091.4	1102.7	1105.0
70°	858.2	901.2	939.7	973.7	987.2	1000.8	1021.2	1034.8	1046.1	1046.1
72.5°	806.1	849.1	885.4	919.3	932.9	944.2	964.6	978.2	987.2	989.5
75°	754.0	794.8	831.0	865.0	876.3	889.9	908.0	921.6	930.6	932.9
77.5°	701.9	745.0	778.9	810.6	822.0	833.3	853.7	865.0	874.0	874.0
80°	652.1	692.9	726.9	756.3	765.3	778.9	797.0	808.4	815.2	819.7
82.5°	604.6	643.1	674.8	701.9	715.5	724.6	742.7	754.0	760.8	765.3
85°	552.5	593.3	625.0	652.1	661.2	674.8	690.6	701.9	708.7	711.0
87.5°	504.9	541.2	572.9	604.6	615.9	625.0	640.8	652.1	658.9	663.4
90°	464.2	498.2	527.6	552.5	563.8	575.1	593.3	604.6	611.4	613.6
92.5°	434.8	468.7	495.9	520.8	532.1	541.2	557.0	568.3	575.1	577.4
95°	407.6	439.3	466.5	491.4	500.4	509.5	525.3	534.4	538.9	543.4
97.5°	378.1	412.1	437.0	459.7	471.0	477.8	493.6	502.7	509.5	511.7
100°	351.0	382.7	407.6	432.5	441.5	448.3	464.2	473.2	477.8	480.0
102.5°	323.8	355.5	380.4	403.1	412.1	418.9	432.5	441.5	448.3	450.6
105°	296.6	326.1	351.0	373.6	382.7	389.5	403.1	412.1	418.9	421.2
107.5°	271.7	298.9	323.8	344.2	353.2	360.0	373.6	382.7	389.5	391.7
110°	246.8	271.7	296.6	317.0	326.1	332.9	346.4	353.2	360.0	362.3



TEST NUMBER: P257118

CATALOG NUMBER: HGL-S-UF-30L940-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	219.6	246.8	269.5	289.8	296.6	305.7	317.0	326.1	330.6	332.9
115°	197.0	221.9	242.3	262.7	269.5	276.2	289.8	296.6	303.4	303.4
117.5°	172.1	194.7	217.4	235.5	242.3	249.1	262.7	269.5	274.0	276.2
120°	149.4	169.8	190.2	208.3	217.4	221.9	235.5	242.3	246.8	249.1
122.5°	126.8	147.2	167.6	183.4	190.2	197.0	208.3	215.1	219.6	221.9
125°	104.2	124.5	142.7	158.5	165.3	172.1	181.1	187.9	192.5	194.7
127.5°	83.8	101.9	120.0	133.6	140.4	147.2	156.2	163.0	167.6	169.8
130°	63.4	79.3	97.4	111.0	117.7	122.3	131.3	138.1	142.7	144.9
132.5°	43.0	58.9	74.7	88.3	95.1	99.6	108.7	113.2	117.7	120.0
135°	27.2	40.8	54.3	65.7	72.5	77.0	86.0	90.6	95.1	95.1
137.5°	13.6	24.9	36.2	45.3	49.8	56.6	63.4	67.9	70.2	72.5
140°	4.5	11.3	20.4	27.2	31.7	36.2	43.0	47.6	49.8	52.1
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)