

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: P257113

Luminaire Tested: **HGL-S-UF-30L930-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257113  
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-30L930-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (504) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7076.1 lumens  
Efficiency: N/A  
Efficacy: 108.7 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

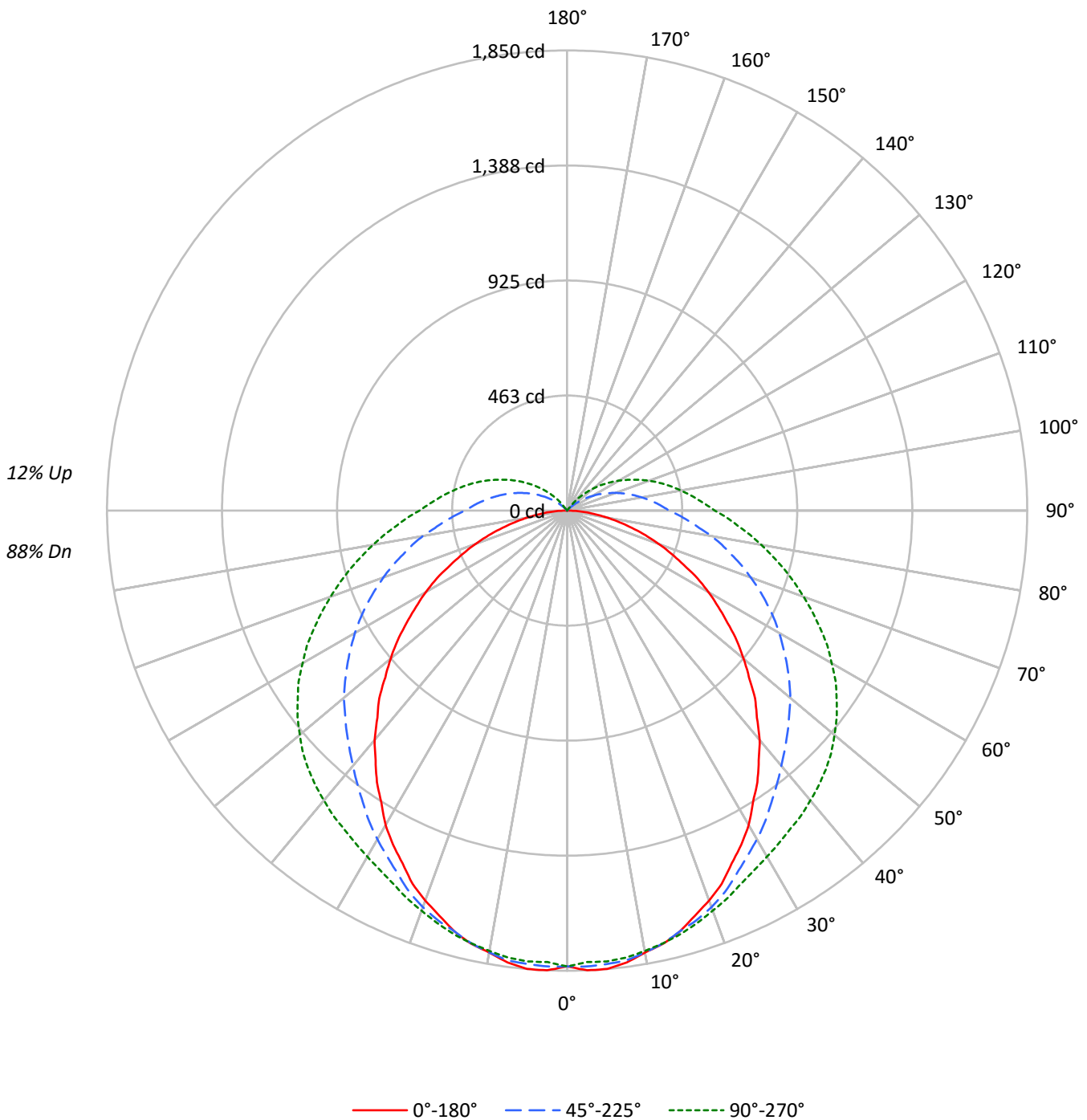
Input Watts (W): 65.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P257113

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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°	7172	7172	7172
5°	7263	6991	6875
10°	7159	6779	6614
15°	7081	6524	6366
20°	6927	6315	6119
25°	6733	6037	5898
30°	6567	5800	5753
35°	6332	5565	5666
40°	6108	5370	5628
45°	5863	5231	5599
50°	5582	5130	5543
55°	5312	5018	5472
60°	5065	4921	5379
65°	4698	4824	5267
70°	4381	4734	5147
75°	3945	4648	5059
80°	3480	4645	4993
85°	2950	4663	4983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.5	2.5
10°-20°	493.5	7.0
20°-30°	740.5	10.5
30°-40°	899.1	12.7
40°-50°	971.1	13.7
50°-60°	951.1	13.4
60°-70°	843.6	11.9
70°-80°	675.7	9.5
80°-90°	489.7	6.9
90°-100°	345.1	4.9
100°-110°	240.8	3.4
110°-120°	149.1	2.1
120°-130°	75.8	1.1
130°-140°	26.3	0.4
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1407.6	19.9
0°-40°	2306.6	32.6
0°-60°	4228.8	59.8
0°-90°	6237.8	88.2
90°-120°	735.0	10.4
90°-150°	838.3	11.8
90°-180°	838.0	11.8
0°-180°	7076.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1850	1832	1830	1822	1819	175
15°	1751	1738	1751	1767	1762	493
25°	1565	1570	1611	1638	1655	723
35°	1333	1342	1432	1517	1563	833
45°	1068	1097	1254	1410	1471	821
55°	788	854	1079	1257	1322	706
65°	517	639	887	1057	1123	516
75°	269	440	683	847	902	288
85°	72	269	493	639	687	78
90°	2	197	409	545	593	5
95°	0	155	357	484	525	0
105°	0	83	256	370	407	0
115°	0	26	162	260	293	0
125°	0	0	79	160	188	0
135°	0	0	13	70	92	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: P257113

CATALOG NUMBER: HGL-S-UF-30L930-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4
2.5°	1849.9	1847.7	1841.2	1834.6	1832.4	1832.4	1830.2	1828.0	1828.0	1825.8	1834.6
5°	1849.9	1847.7	1841.2	1832.4	1830.2	1832.4	1830.2	1825.8	1825.8	1823.7	1830.2
7.5°	1832.4	1828.0	1823.7	1817.1	1814.9	1814.9	1812.7	1812.7	1812.7	1812.7	1823.7
10°	1804.0	1801.8	1797.4	1790.8	1790.8	1788.6	1788.6	1790.8	1790.8	1793.0	1804.0
12.5°	1784.3	1779.9	1773.3	1766.7	1764.6	1764.6	1762.4	1760.2	1762.4	1764.6	1782.1
15°	1751.4	1749.2	1744.8	1738.3	1738.3	1738.3	1738.3	1736.1	1736.1	1738.3	1751.4
17.5°	1707.6	1703.3	1701.1	1696.7	1698.9	1701.1	1703.3	1701.1	1705.4	1712.0	1727.3
20°	1668.2	1663.8	1659.5	1652.9	1652.9	1655.1	1657.3	1657.3	1668.2	1677.0	1696.7
22.5°	1624.4	1622.2	1617.9	1615.7	1615.7	1617.9	1617.9	1613.5	1620.1	1633.2	1659.5
25°	1565.3	1563.1	1560.9	1560.9	1565.3	1569.7	1571.9	1574.1	1580.7	1589.4	1611.3
27.5°	1515.0	1512.8	1508.4	1504.0	1508.4	1512.8	1515.0	1519.4	1532.5	1550.0	1567.5
30°	1460.2	1458.1	1455.9	1455.9	1460.2	1462.4	1464.6	1462.4	1479.9	1506.2	1525.9
32.5°	1390.2	1388.0	1390.2	1390.2	1401.1	1407.7	1412.1	1414.3	1429.6	1453.7	1482.1
35°	1333.3	1333.3	1331.1	1335.5	1337.6	1342.0	1346.4	1357.3	1379.2	1403.3	1431.8
37.5°	1265.4	1265.4	1265.4	1276.3	1285.1	1287.3	1289.5	1302.6	1331.1	1355.2	1385.8
40°	1204.1	1204.1	1204.1	1208.5	1215.0	1221.6	1230.4	1245.7	1274.2	1309.2	1339.8
42.5°	1129.7	1131.9	1136.2	1147.2	1155.9	1160.3	1166.9	1191.0	1221.6	1263.2	1296.0
45°	1068.4	1066.2	1070.6	1079.3	1088.1	1096.8	1107.8	1134.0	1171.3	1217.2	1254.5
47.5°	991.7	993.9	998.3	1013.6	1024.6	1035.5	1048.7	1079.3	1123.1	1169.1	1210.7
50°	926.1	928.2	939.2	948.0	958.9	972.0	987.4	1026.8	1074.9	1120.9	1171.3
52.5°	860.4	862.6	871.3	877.9	895.4	910.7	930.4	974.2	1024.6	1074.9	1125.3
55°	788.1	792.5	799.1	814.4	836.3	853.8	875.7	923.9	974.2	1029.0	1079.3
57.5°	720.3	722.5	733.4	748.7	775.0	796.9	823.2	873.5	928.2	980.8	1031.1
60°	656.8	661.2	667.7	687.4	722.5	744.4	770.6	823.2	880.1	932.6	985.2
62.5°	591.1	595.5	604.2	626.1	667.7	691.8	720.3	775.0	831.9	884.5	937.0
65°	516.7	521.0	534.2	562.6	613.0	639.3	667.7	724.6	779.4	834.1	886.7
67.5°	453.2	455.4	472.9	503.5	556.1	588.9	619.6	674.3	729.0	783.8	836.3
70°	391.9	396.3	409.4	451.0	507.9	534.2	567.0	626.1	680.9	735.6	785.9
72.5°	330.6	335.0	354.7	400.6	459.7	488.2	514.5	578.0	632.7	685.2	735.6
75°	269.3	275.8	302.1	354.7	411.6	440.0	468.5	525.4	584.5	634.9	683.1
77.5°	214.5	221.1	254.0	308.7	365.6	394.1	422.5	477.3	532.0	586.7	637.1
80°	162.0	170.8	210.2	264.9	321.8	350.3	376.6	433.5	486.0	536.4	588.9
82.5°	116.0	127.0	173.0	225.5	282.4	308.7	335.0	389.7	442.2	490.4	536.4
85°	72.2	91.9	137.9	188.3	243.0	269.3	295.6	350.3	400.6	448.8	492.6
87.5°	35.0	61.3	105.1	153.2	205.8	232.1	258.3	310.9	359.0	407.2	451.0
90°	2.2	35.0	74.4	120.4	173.0	197.0	223.3	273.7	321.8	367.8	409.4
92.5°	0.0	21.9	59.1	102.9	151.1	177.3	201.4	251.8	297.7	343.7	383.1
95°	0.0	10.9	46.0	87.6	133.5	155.4	179.5	227.7	273.7	317.4	356.9
97.5°	0.0	2.2	32.8	70.1	113.8	137.9	159.8	205.8	251.8	293.4	330.6
100°	0.0	0.0	21.9	56.9	96.3	118.2	140.1	183.9	227.7	267.1	304.3
102.5°	0.0	0.0	10.9	43.8	81.0	100.7	120.4	164.2	205.8	245.2	280.2
105°	0.0	0.0	2.2	30.6	65.7	83.2	102.9	142.3	183.9	221.1	256.1
107.5°	0.0	0.0	0.0	17.5	50.4	67.9	85.4	122.6	162.0	197.0	229.9
110°	0.0	0.0	0.0	8.8	37.2	52.5	70.1	105.1	140.1	175.1	208.0



TEST NUMBER: P257113

CATALOG NUMBER: HGL-S-UF-30L930-UNV-12

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	2.2	24.1	39.4	54.7	87.6	120.4	153.2	183.9
115°	0.0	0.0	0.0	0.0	13.1	26.3	39.4	70.1	100.7	133.5	162.0
117.5°	0.0	0.0	0.0	0.0	4.4	15.3	26.3	54.7	83.2	111.7	140.1
120°	0.0	0.0	0.0	0.0	0.0	6.6	15.3	39.4	65.7	91.9	118.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	24.1	48.2	74.4	98.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	32.8	56.9	78.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	19.7	39.4	59.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	24.1	41.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	13.1	26.3
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.1
137.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
140°	2.2	2.2	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: P257113

CATALOG NUMBER: HGL-S-UF-30L930-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4	1832.4
2.5°	1841.2	1832.4	1832.4	1830.2	1828.0	1825.8	1821.5	1819.3	1814.9	1817.1
5°	1836.8	1828.0	1828.0	1823.7	1821.5	1821.5	1819.3	1819.3	1817.1	1819.3
7.5°	1830.2	1819.3	1819.3	1814.9	1812.7	1810.5	1810.5	1810.5	1810.5	1812.7
10°	1812.7	1806.1	1806.1	1804.0	1801.8	1797.4	1795.2	1797.4	1795.2	1797.4
12.5°	1788.6	1782.1	1786.4	1786.4	1786.4	1782.1	1779.9	1782.1	1779.9	1782.1
15°	1758.0	1755.8	1762.4	1764.6	1766.7	1764.6	1762.4	1762.4	1762.4	1762.4
17.5°	1727.3	1725.1	1733.9	1738.3	1738.3	1738.3	1738.3	1736.1	1736.1	1738.3
20°	1701.1	1692.3	1696.7	1705.4	1707.6	1707.6	1709.8	1712.0	1712.0	1712.0
22.5°	1663.8	1659.5	1661.7	1668.2	1672.6	1674.8	1681.4	1681.4	1683.5	1685.7
25°	1620.1	1626.6	1628.8	1635.4	1637.6	1642.0	1650.7	1655.1	1655.1	1655.1
27.5°	1574.1	1587.2	1596.0	1600.4	1604.7	1609.1	1620.1	1628.8	1628.8	1628.8
30°	1530.3	1543.4	1560.9	1569.7	1574.1	1578.5	1593.8	1604.7	1606.9	1606.9
32.5°	1484.3	1501.8	1528.1	1541.2	1543.4	1550.0	1569.7	1582.8	1585.0	1585.0
35°	1444.9	1466.8	1495.3	1512.8	1517.2	1523.7	1545.6	1560.9	1563.1	1563.1
37.5°	1409.9	1431.8	1462.4	1486.5	1490.9	1499.6	1521.5	1541.2	1543.4	1545.6
40°	1370.5	1396.8	1427.4	1455.9	1464.6	1473.4	1497.5	1517.2	1521.5	1521.5
42.5°	1331.1	1363.9	1394.6	1427.4	1438.3	1447.1	1473.4	1493.1	1497.5	1497.5
45°	1289.5	1331.1	1361.7	1396.8	1409.9	1418.6	1442.7	1464.6	1471.2	1471.2
47.5°	1252.3	1296.0	1326.7	1361.7	1374.9	1388.0	1409.9	1431.8	1438.3	1440.5
50°	1210.7	1258.8	1289.5	1322.3	1339.8	1353.0	1374.9	1398.9	1405.5	1403.3
52.5°	1169.1	1215.0	1247.9	1282.9	1300.4	1313.6	1333.3	1359.5	1366.1	1366.1
55°	1125.3	1171.3	1206.3	1239.1	1256.6	1274.2	1293.9	1315.8	1324.5	1322.3
57.5°	1081.5	1123.1	1160.3	1195.3	1210.7	1228.2	1247.9	1269.8	1276.3	1280.7
60°	1035.5	1072.7	1114.3	1147.2	1162.5	1180.0	1199.7	1219.4	1230.4	1228.2
62.5°	985.2	1026.8	1066.2	1096.8	1112.1	1129.7	1149.4	1166.9	1175.6	1180.0
65°	934.8	974.2	1011.4	1044.3	1057.4	1074.9	1096.8	1110.0	1120.9	1123.1
67.5°	882.3	921.7	958.9	993.9	1007.1	1022.4	1042.1	1055.2	1066.2	1068.4
70°	829.7	871.3	908.5	941.4	954.5	967.7	987.4	1000.5	1011.4	1011.4
72.5°	779.4	821.0	856.0	888.8	902.0	912.9	932.6	945.8	954.5	956.7
75°	729.0	768.4	803.5	836.3	847.2	860.4	877.9	891.0	899.8	902.0
77.5°	678.7	720.3	753.1	783.8	794.7	805.7	825.4	836.3	845.1	845.1
80°	630.5	669.9	702.8	731.2	740.0	753.1	770.6	781.6	788.1	792.5
82.5°	584.5	621.8	652.4	678.7	691.8	700.6	718.1	729.0	735.6	740.0
85°	534.2	573.6	604.2	630.5	639.3	652.4	667.7	678.7	685.2	687.4
87.5°	488.2	523.2	553.9	584.5	595.5	604.2	619.6	630.5	637.1	641.5
90°	448.8	481.6	510.1	534.2	545.1	556.1	573.6	584.5	591.1	593.3
92.5°	420.3	453.2	479.4	503.5	514.5	523.2	538.6	549.5	556.1	558.3
95°	394.1	424.7	451.0	475.1	483.8	492.6	507.9	516.7	521.0	525.4
97.5°	365.6	398.4	422.5	444.4	455.4	461.9	477.3	486.0	492.6	494.8
100°	339.3	370.0	394.1	418.2	426.9	433.5	448.8	457.6	461.9	464.1
102.5°	313.1	343.7	367.8	389.7	398.4	405.0	418.2	426.9	433.5	435.7
105°	286.8	315.3	339.3	361.2	370.0	376.6	389.7	398.4	405.0	407.2
107.5°	262.7	289.0	313.1	332.8	341.5	348.1	361.2	370.0	376.6	378.7
110°	238.6	262.7	286.8	306.5	315.3	321.8	335.0	341.5	348.1	350.3





TEST NUMBER: P257113

CATALOG NUMBER: HGL-S-UF-30L930-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	212.4	238.6	260.5	280.2	286.8	295.6	306.5	315.3	319.6	321.8
115°	190.5	214.5	234.3	254.0	260.5	267.1	280.2	286.8	293.4	293.4
117.5°	166.4	188.3	210.2	227.7	234.3	240.8	254.0	260.5	264.9	267.1
120°	144.5	164.2	183.9	201.4	210.2	214.5	227.7	234.3	238.6	240.8
122.5°	122.6	142.3	162.0	177.3	183.9	190.5	201.4	208.0	212.4	214.5
125°	100.7	120.4	137.9	153.2	159.8	166.4	175.1	181.7	186.1	188.3
127.5°	81.0	98.5	116.0	129.2	135.7	142.3	151.1	157.6	162.0	164.2
130°	61.3	76.6	94.1	107.3	113.8	118.2	127.0	133.5	137.9	140.1
132.5°	41.6	56.9	72.2	85.4	91.9	96.3	105.1	109.5	113.8	116.0
135°	26.3	39.4	52.5	63.5	70.1	74.4	83.2	87.6	91.9	91.9
137.5°	13.1	24.1	35.0	43.8	48.2	54.7	61.3	65.7	67.9	70.1
140°	4.4	10.9	19.7	26.3	30.6	35.0	41.6	46.0	48.2	50.4
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)