

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: P256876

Luminaire Tested: **HGL-S-BA-80L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-80L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5782.5 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

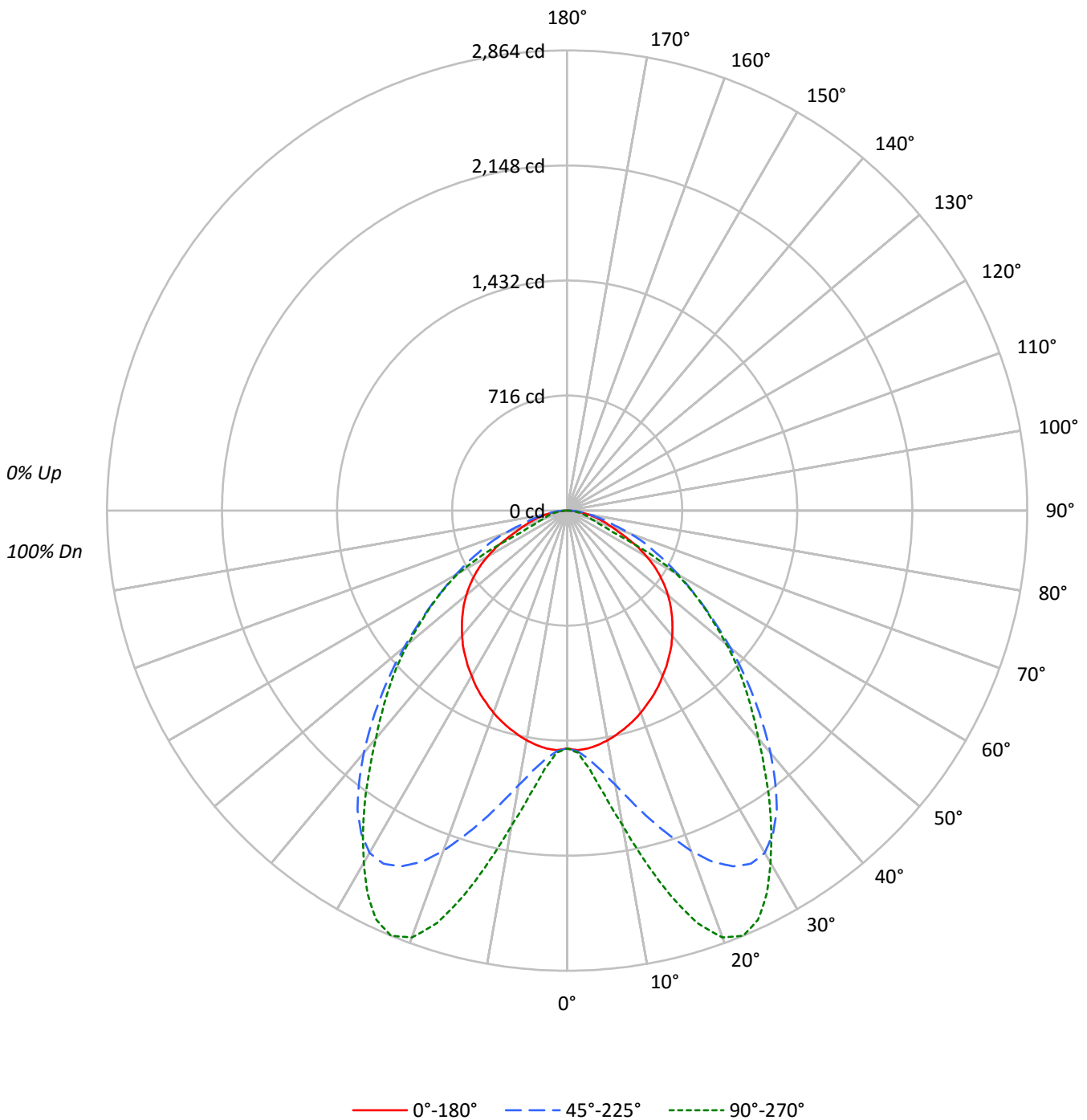
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49					47				
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34					32				
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17382	17382	17382
5°	17517	18236	18983
10°	17301	20564	23551
15°	17009	23933	29774
20°	16724	27815	34780
25°	16415	31178	35691
30°	16088	32735	33472
35°	15834	31884	30486
40°	15560	29381	27396
45°	15270	26387	25001
50°	14915	23289	22474
55°	14357	20312	19865
60°	13380	17832	17121
65°	11588	15448	7653
70°	9960	13019	5291
75°	9116	10103	4783
80°	8175	8206	4185
85°	6746	7134	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	2.7
10°-20°	559.8	9.7
20°-30°	1013.2	17.5
30°-40°	1215.9	21.0
40°-50°	1151.8	19.9
50°-60°	902.5	15.6
60°-70°	503.7	8.7
70°-80°	213.5	3.7
80°-90°	66.4	1.1
90°-100°	2.4	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1726.3	29.9
0°-40°	2942.2	50.9
0°-60°	4996.6	86.4
0°-90°	5780.1	100.0
90°-120°	2.4	0.0
90°-150°	2.4	0.0
90°-180°	2.0	0.0
0°-180°	5782.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1486	1492	1552	1603	1617	141
15°	1400	1568	1986	2351	2478	395
25°	1268	1666	2443	2741	2811	584
35°	1106	1704	2275	2180	2192	692
45°	922	1561	1641	1526	1571	711
55°	704	1134	1038	1005	1031	627
65°	419	524	595	478	301	419
75°	203	210	250	177	123	216
85°	52	59	73	56	32	57
90°	0	12	23	15	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
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°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1492.4	1490.9	1486.4	1480.3	1481.9	1483.4	1483.4	1484.9	1486.4	1490.9	1500.0
5°	1486.4	1483.4	1481.9	1480.3	1487.9	1492.4	1497.0	1506.1	1516.7	1533.3	1551.5
7.5°	1471.3	1471.3	1474.3	1480.3	1497.0	1507.6	1516.7	1539.4	1565.1	1596.9	1631.7
10°	1451.6	1454.6	1463.7	1477.3	1507.6	1524.2	1542.4	1580.2	1624.1	1677.1	1734.6
12.5°	1427.4	1433.4	1448.6	1474.3	1519.7	1545.4	1572.7	1630.2	1695.3	1771.0	1855.7
15°	1400.1	1407.7	1431.9	1469.7	1531.8	1568.1	1606.0	1684.7	1774.0	1875.4	1985.9
17.5°	1371.4	1382.0	1415.3	1468.2	1548.5	1593.9	1642.3	1745.2	1860.3	1982.9	2119.1
20°	1339.6	1354.7	1397.1	1465.2	1563.6	1619.6	1678.6	1807.3	1948.1	2093.4	2252.3
22.5°	1303.2	1322.9	1375.9	1459.1	1578.7	1645.3	1715.0	1864.8	2028.3	2193.3	2365.8
25°	1268.4	1289.6	1351.7	1451.6	1590.8	1666.5	1746.7	1917.8	2100.9	2275.0	2443.0
27.5°	1230.6	1254.8	1329.0	1444.0	1599.9	1684.7	1774.0	1961.7	2153.9	2326.5	2477.8
30°	1188.2	1220.0	1303.2	1431.9	1604.5	1698.3	1795.2	1996.5	2187.2	2338.6	2459.7
32.5°	1148.9	1183.7	1274.5	1418.3	1606.0	1705.9	1808.8	2007.1	2187.2	2311.3	2384.0
35°	1106.5	1144.3	1245.7	1401.6	1599.9	1704.4	1807.3	2004.1	2155.4	2240.2	2275.0
37.5°	1064.1	1105.0	1215.5	1378.9	1586.3	1693.8	1796.7	1973.8	2090.3	2135.7	2126.7
40°	1017.2	1062.6	1176.1	1350.2	1562.1	1666.5	1764.9	1920.8	1995.0	2002.5	1969.2
42.5°	970.2	1017.2	1136.7	1312.3	1521.2	1621.1	1711.9	1836.0	1870.9	1854.2	1802.7
45°	921.8	970.2	1089.8	1266.9	1469.7	1560.6	1636.2	1725.5	1725.5	1695.3	1640.8
47.5°	871.9	918.8	1039.9	1213.9	1403.1	1481.9	1543.9	1596.9	1572.7	1534.8	1480.3
50°	818.9	865.8	983.9	1150.4	1316.9	1382.0	1433.4	1453.1	1415.3	1372.9	1324.4
52.5°	762.9	809.8	917.3	1070.1	1215.5	1263.9	1301.7	1300.2	1254.8	1217.0	1174.6
55°	703.8	746.2	843.1	974.8	1094.4	1133.7	1156.4	1138.3	1095.9	1061.1	1038.4
57.5°	641.8	676.6	759.8	867.3	956.6	986.9	1000.5	976.3	946.0	924.8	912.7
60°	572.2	600.9	659.9	743.2	808.3	829.5	838.6	821.9	811.3	805.3	802.2
62.5°	499.5	513.1	551.0	605.5	659.9	675.1	685.7	688.7	687.2	690.2	697.8
65°	419.3	423.8	435.9	463.2	505.6	523.7	543.4	564.6	576.7	588.8	594.9
67.5°	345.1	346.6	352.7	361.8	378.4	398.1	414.7	446.5	473.8	496.5	511.6
70°	292.1	290.6	292.1	296.7	305.8	313.3	320.9	343.6	372.4	410.2	413.2
72.5°	246.7	245.2	246.7	249.8	252.8	255.8	260.3	269.4	286.1	308.8	313.3
75°	202.8	202.8	202.8	205.9	208.9	210.4	213.4	216.5	222.5	239.2	249.8
77.5°	162.0	160.4	163.5	165.0	166.5	169.5	171.0	174.1	177.1	183.2	190.7
80°	122.6	121.1	122.6	125.6	127.1	130.2	130.2	134.7	136.2	140.8	143.8
82.5°	86.3	84.8	86.3	89.3	89.3	92.3	93.8	96.9	99.9	102.9	106.0
85°	51.5	51.5	53.0	54.5	56.0	59.0	60.5	65.1	68.1	71.1	72.7
87.5°	22.7	22.7	24.2	25.7	28.8	31.8	33.3	36.3	39.4	43.9	43.9
90°	0.0	1.5	4.5	7.6	9.1	12.1	12.1	16.7	18.2	21.2	22.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	4.5	6.1
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	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°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1513.6	1504.6	1510.6	1512.1	1513.6	1510.6	1507.6	1510.6	1507.6	1507.6
5°	1574.2	1572.7	1587.8	1598.4	1602.9	1602.9	1612.0	1618.1	1619.6	1616.6
7.5°	1669.5	1678.6	1708.9	1730.1	1742.2	1748.3	1764.9	1774.0	1786.1	1784.6
10°	1795.2	1823.9	1869.3	1899.6	1920.8	1931.4	1955.6	1972.3	1991.9	1990.4
12.5°	1932.9	1985.9	2049.5	2097.9	2129.7	2149.4	2181.2	2211.4	2229.6	2231.1
15°	2088.8	2161.5	2247.8	2309.8	2350.7	2376.4	2420.3	2450.6	2480.9	2477.8
17.5°	2241.7	2329.5	2433.9	2515.7	2553.5	2577.7	2630.7	2662.5	2691.3	2691.3
20°	2377.9	2479.3	2585.3	2661.0	2697.3	2721.5	2766.9	2798.7	2819.9	2827.5
22.5°	2486.9	2580.8	2670.1	2735.1	2757.9	2777.5	2812.3	2838.1	2851.7	2863.8
25°	2547.5	2623.1	2683.7	2729.1	2741.2	2751.8	2771.5	2791.2	2794.2	2810.8
27.5°	2549.0	2605.0	2638.3	2654.9	2656.4	2656.4	2670.1	2677.6	2683.7	2689.7
30°	2494.5	2520.2	2526.3	2527.8	2520.2	2515.7	2524.7	2526.3	2530.8	2530.8
32.5°	2385.5	2391.5	2381.0	2364.3	2359.8	2350.7	2356.7	2353.7	2361.3	2365.8
35°	2246.2	2235.6	2208.4	2196.3	2179.6	2175.1	2179.6	2176.6	2181.2	2191.7
37.5°	2087.3	2064.6	2041.9	2020.7	2008.6	1996.5	2001.0	2005.6	2011.6	2014.7
40°	1923.8	1893.6	1869.3	1848.2	1836.0	1827.0	1834.5	1839.1	1852.7	1852.7
42.5°	1758.8	1725.5	1701.3	1687.7	1678.6	1671.1	1683.2	1686.2	1702.8	1705.9
45°	1595.4	1566.6	1546.9	1533.3	1525.7	1528.8	1540.9	1548.5	1563.6	1571.2
47.5°	1445.5	1421.3	1400.1	1394.1	1394.1	1397.1	1409.2	1416.8	1428.9	1438.0
50°	1298.7	1280.5	1266.9	1259.3	1260.9	1265.4	1276.0	1282.1	1294.2	1294.2
52.5°	1154.9	1142.8	1136.7	1127.7	1127.7	1126.1	1136.7	1142.8	1151.9	1153.4
55°	1029.3	1018.7	1012.6	1006.6	1005.1	1008.1	1014.1	1018.7	1029.3	1030.8
57.5°	909.7	905.2	900.6	896.1	894.6	896.1	899.1	902.1	908.2	909.7
60°	800.7	799.2	793.1	788.6	787.1	785.6	784.1	782.6	785.6	784.1
62.5°	700.8	696.3	691.7	682.7	678.1	666.0	650.9	617.6	590.3	575.2
65°	602.4	599.4	578.2	516.2	478.3	429.9	378.4	328.5	311.8	301.2
67.5°	507.1	457.1	381.4	326.9	307.3	289.1	261.9	234.6	219.5	210.4
70°	364.8	322.4	287.6	257.3	243.7	233.1	211.9	192.2	178.6	172.6
72.5°	295.2	267.9	245.2	222.5	211.9	199.8	178.6	158.9	146.8	140.8
75°	246.7	230.1	207.4	186.2	177.1	168.0	152.9	137.7	127.1	122.6
77.5°	195.3	186.2	172.6	155.9	148.3	142.3	128.7	118.1	107.5	102.9
80°	143.8	140.8	131.7	119.6	113.5	109.0	98.4	89.3	80.2	77.2
82.5°	106.0	102.9	95.4	86.3	83.3	78.7	71.1	63.6	57.5	54.5
85°	72.7	71.1	65.1	59.0	56.0	53.0	45.4	39.4	34.8	31.8
87.5°	45.4	43.9	40.9	34.8	31.8	28.8	22.7	18.2	13.6	12.1
90°	22.7	22.7	21.2	16.7	15.1	13.6	9.1	4.5	1.5	0.0
92.5°	6.1	6.1	6.1	4.5	4.5	3.0	1.5	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256876

CATALOG NUMBER: HGL-S-BA-80L930-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	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
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)