

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: P256882

Luminaire Tested: **HGL-S-BA-80L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256882  
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-80L940-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (168) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5980.8 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

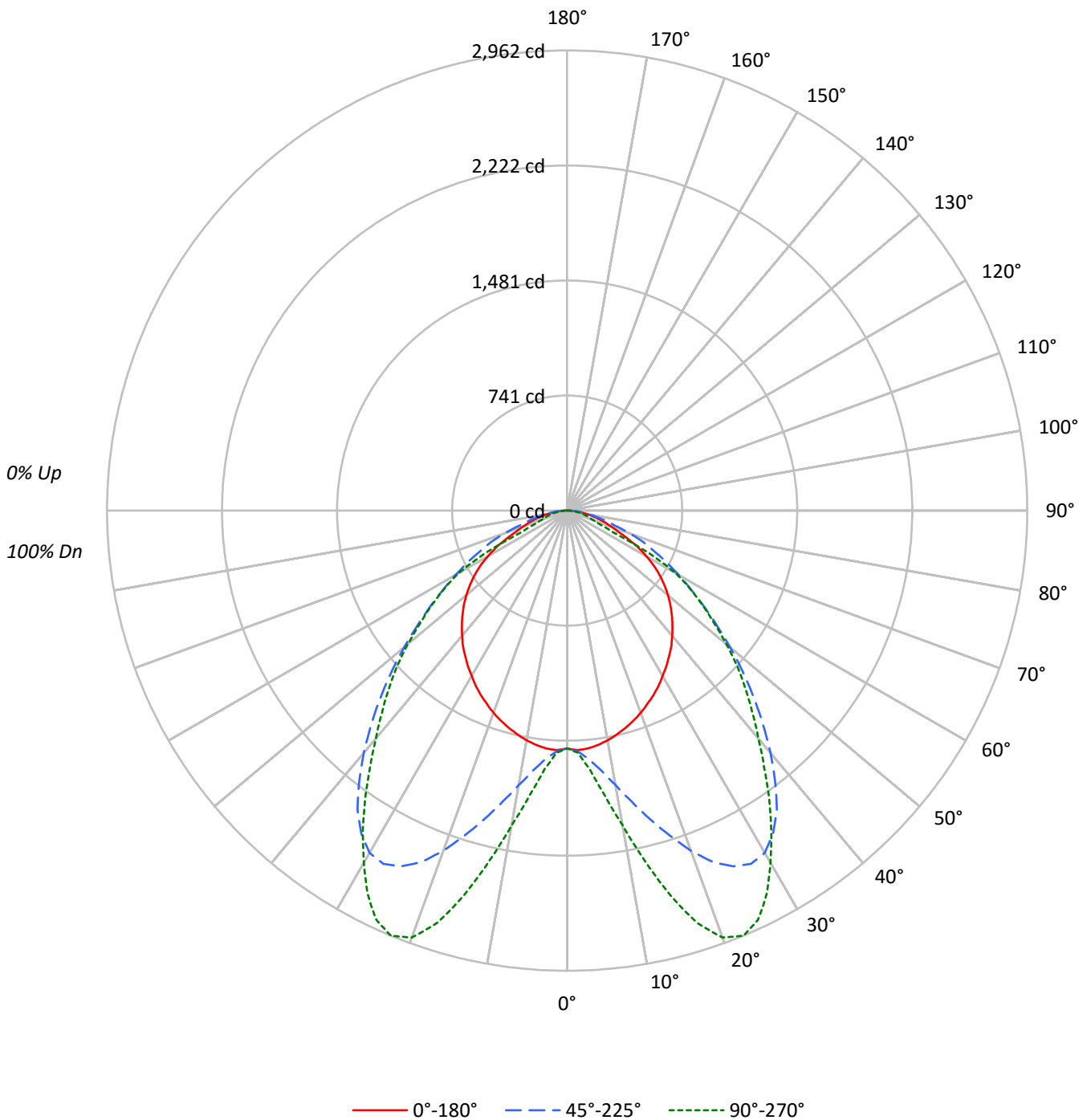
Input Watts (W): 70.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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																												
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°	17979	17979	17979
5°	18118	18861	19633
10°	17894	21270	24360
15°	17592	24753	30795
20°	17298	28768	35972
25°	16978	32248	36916
30°	16639	33856	34620
35°	16376	32977	31532
40°	16092	30390	28335
45°	15793	27291	25857
50°	15427	24087	23243
55°	14851	21008	20545
60°	13838	18443	17706
65°	11986	15978	7914
70°	10301	13467	5472
75°	9430	10447	4947
80°	8455	8485	4326
85°	6968	7370	2957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.7	2.7
10°-20°	579.0	9.7
20°-30°	1047.9	17.5
30°-40°	1257.6	21.0
40°-50°	1191.3	19.9
50°-60°	933.4	15.6
60°-70°	521.0	8.7
70°-80°	220.8	3.7
80°-90°	68.7	1.1
90°-100°	2.5	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°	1785.5	29.9
0°-40°	3043.1	50.9
0°-60°	5167.9	86.4
0°-90°	5978.3	100.0
90°-120°	2.5	0.0
90°-150°	2.5	0.0
90°-180°	2.0	0.0
0°-180°	5980.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1537	1544	1605	1658	1672	145
15°	1448	1622	2054	2431	2563	408
25°	1312	1724	2527	2835	2907	604
35°	1144	1763	2353	2254	2267	716
45°	953	1614	1697	1578	1625	735
55°	728	1173	1074	1040	1066	648
65°	434	542	615	495	312	433
75°	210	218	258	183	127	223
85°	53	61	75	58	33	59
90°	0	12	24	16	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°	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1
2.5°	1543.6	1542.1	1537.4	1531.1	1532.7	1534.2	1534.2	1535.8	1537.4	1542.1	1551.4
5°	1537.4	1534.2	1532.7	1531.1	1538.9	1543.6	1548.3	1557.7	1568.7	1585.9	1604.7
7.5°	1521.7	1521.7	1524.8	1531.1	1548.3	1559.3	1568.7	1592.2	1618.8	1651.6	1687.7
10°	1501.4	1504.5	1513.9	1528.0	1559.3	1576.5	1595.3	1634.4	1679.8	1734.6	1794.1
12.5°	1476.3	1482.6	1498.2	1524.8	1571.8	1598.4	1626.6	1686.1	1753.4	1831.7	1919.3
15°	1448.1	1456.0	1481.0	1520.1	1584.3	1621.9	1661.0	1742.4	1834.8	1939.7	2054.0
17.5°	1418.4	1429.3	1463.8	1518.6	1601.5	1648.5	1698.6	1805.1	1924.0	2050.9	2191.8
20°	1385.5	1401.2	1445.0	1515.4	1617.2	1675.1	1736.2	1869.3	2014.8	2165.1	2329.5
22.5°	1347.9	1368.3	1423.1	1509.2	1632.9	1701.7	1773.8	1928.7	2097.8	2268.5	2446.9
25°	1311.9	1333.8	1398.0	1501.4	1645.4	1723.7	1806.6	1983.5	2173.0	2353.0	2526.8
27.5°	1272.8	1297.8	1374.5	1493.5	1654.8	1742.4	1834.8	2028.9	2227.8	2406.2	2562.8
30°	1228.9	1261.8	1347.9	1481.0	1659.5	1756.5	1856.7	2064.9	2262.2	2418.8	2544.0
32.5°	1188.2	1224.3	1318.2	1466.9	1661.0	1764.4	1870.8	2075.9	2262.2	2390.6	2465.7
35°	1144.4	1183.5	1288.4	1449.7	1654.8	1762.8	1869.3	2072.8	2229.3	2317.0	2353.0
37.5°	1100.6	1142.8	1257.1	1426.2	1640.7	1751.8	1858.3	2041.5	2162.0	2209.0	2199.6
40°	1052.0	1099.0	1216.4	1396.5	1615.6	1723.7	1825.4	1986.7	2063.4	2071.2	2036.8
42.5°	1003.5	1052.0	1175.7	1357.3	1573.4	1676.7	1770.6	1899.0	1935.0	1917.8	1864.6
45°	953.4	1003.5	1127.2	1310.4	1520.1	1614.1	1692.3	1784.7	1784.7	1753.4	1697.0
47.5°	901.8	950.3	1075.5	1255.6	1451.3	1532.7	1596.8	1651.6	1626.6	1587.5	1531.1
50°	847.0	895.5	1017.6	1189.8	1362.0	1429.3	1482.6	1502.9	1463.8	1419.9	1369.8
52.5°	789.0	837.6	948.7	1106.8	1257.1	1307.2	1346.4	1344.8	1297.8	1258.7	1214.9
55°	728.0	771.8	872.0	1008.2	1131.9	1172.6	1196.1	1177.3	1133.4	1097.4	1074.0
57.5°	663.8	699.8	785.9	897.1	989.4	1020.7	1034.8	1009.8	978.5	956.5	944.0
60°	591.8	621.5	682.6	768.7	836.0	857.9	867.3	850.1	839.1	832.9	829.7
62.5°	516.6	530.7	569.9	626.2	682.6	698.2	709.2	712.3	710.8	713.9	721.7
65°	433.7	438.4	450.9	479.1	522.9	541.7	562.0	583.9	596.5	609.0	615.3
67.5°	356.9	358.5	364.8	374.2	391.4	411.7	429.0	461.8	490.0	513.5	529.2
70°	302.1	300.6	302.1	306.8	316.2	324.1	331.9	355.4	385.1	424.3	427.4
72.5°	255.2	253.6	255.2	258.3	261.4	264.6	269.3	278.7	295.9	319.4	324.1
75°	209.8	209.8	209.8	212.9	216.0	217.6	220.7	223.9	230.1	247.4	258.3
77.5°	167.5	165.9	169.1	170.6	172.2	175.3	176.9	180.0	183.2	189.4	197.3
80°	126.8	125.2	126.8	129.9	131.5	134.6	134.6	139.3	140.9	145.6	148.7
82.5°	89.2	87.7	89.2	92.4	92.4	95.5	97.1	100.2	103.3	106.5	109.6
85°	53.2	53.2	54.8	56.4	57.9	61.1	62.6	67.3	70.4	73.6	75.1
87.5°	23.5	23.5	25.0	26.6	29.7	32.9	34.4	37.6	40.7	45.4	45.4
90°	0.0	1.6	4.7	7.8	9.4	12.5	12.5	17.2	18.8	21.9	23.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.1	4.7	6.3
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°	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1
2.5°	1565.5	1556.1	1562.4	1564.0	1565.5	1562.4	1559.3	1562.4	1559.3	1559.3
5°	1628.2	1626.6	1642.2	1653.2	1657.9	1657.9	1667.3	1673.6	1675.1	1672.0
7.5°	1726.8	1736.2	1767.5	1789.4	1801.9	1808.2	1825.4	1834.8	1847.3	1845.8
10°	1856.7	1886.5	1933.4	1964.8	1986.7	1997.6	2022.7	2039.9	2060.2	2058.7
12.5°	1999.2	2054.0	2119.7	2169.8	2202.7	2223.1	2255.9	2287.3	2306.0	2307.6
15°	2160.4	2235.6	2324.8	2389.0	2431.3	2457.9	2503.3	2534.6	2565.9	2562.8
17.5°	2318.6	2409.4	2517.4	2601.9	2641.1	2666.1	2720.9	2753.8	2783.5	2783.5
20°	2459.5	2564.4	2673.9	2752.2	2789.8	2814.8	2861.8	2894.7	2916.6	2924.4
22.5°	2572.2	2669.2	2761.6	2828.9	2852.4	2872.8	2908.8	2935.4	2949.5	2962.0
25°	2634.8	2713.1	2775.7	2822.7	2835.2	2846.1	2866.5	2886.9	2890.0	2907.2
27.5°	2636.4	2694.3	2728.7	2746.0	2747.5	2747.5	2761.6	2769.4	2775.7	2782.0
30°	2580.0	2606.6	2612.9	2614.4	2606.6	2601.9	2611.3	2612.9	2617.6	2617.6
32.5°	2467.3	2473.6	2462.6	2445.4	2440.7	2431.3	2437.5	2434.4	2442.2	2446.9
35°	2323.3	2312.3	2284.1	2271.6	2254.4	2249.7	2254.4	2251.2	2255.9	2266.9
37.5°	2158.9	2135.4	2111.9	2090.0	2077.5	2064.9	2069.6	2074.3	2080.6	2083.7
40°	1989.8	1958.5	1933.4	1911.5	1899.0	1889.6	1897.4	1902.1	1916.2	1916.2
42.5°	1819.2	1784.7	1759.7	1745.6	1736.2	1728.4	1740.9	1744.0	1761.2	1764.4
45°	1650.1	1620.3	1600.0	1585.9	1578.1	1581.2	1593.7	1601.5	1617.2	1625.0
47.5°	1495.1	1470.0	1448.1	1441.9	1441.9	1445.0	1457.5	1465.3	1477.9	1487.3
50°	1343.2	1324.4	1310.4	1302.5	1304.1	1308.8	1319.7	1326.0	1338.5	1338.5
52.5°	1194.5	1182.0	1175.7	1166.3	1166.3	1164.8	1175.7	1182.0	1191.4	1192.9
55°	1064.6	1053.6	1047.3	1041.1	1039.5	1042.6	1048.9	1053.6	1064.6	1066.1
57.5°	940.9	936.2	931.5	926.8	925.2	926.8	929.9	933.1	939.3	940.9
60°	828.2	826.6	820.3	815.6	814.1	812.5	810.9	809.4	812.5	810.9
62.5°	724.8	720.1	715.5	706.1	701.4	688.8	673.2	638.7	610.6	594.9
65°	623.1	620.0	598.0	533.8	494.7	444.6	391.4	339.7	322.5	311.5
67.5°	524.5	472.8	394.5	338.2	317.8	299.0	270.8	242.7	227.0	217.6
70°	377.3	333.5	297.5	266.1	252.1	241.1	219.2	198.8	184.7	178.5
72.5°	305.3	277.1	253.6	230.1	219.2	206.7	184.7	164.4	151.9	145.6
75°	255.2	238.0	214.5	192.6	183.2	173.8	158.1	142.5	131.5	126.8
77.5°	202.0	192.6	178.5	161.3	153.4	147.2	133.1	122.1	111.2	106.5
80°	148.7	145.6	136.2	123.7	117.4	112.7	101.8	92.4	83.0	79.8
82.5°	109.6	106.5	98.6	89.2	86.1	81.4	73.6	65.8	59.5	56.4
85°	75.1	73.6	67.3	61.1	57.9	54.8	47.0	40.7	36.0	32.9
87.5°	47.0	45.4	42.3	36.0	32.9	29.7	23.5	18.8	14.1	12.5
90°	23.5	23.5	21.9	17.2	15.7	14.1	9.4	4.7	1.6	0.0
92.5°	6.3	6.3	6.3	4.7	4.7	3.1	1.6	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: P256882

CATALOG NUMBER: HGL-S-BA-80L940-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)