

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: P256858

Luminaire Tested: **HGL-S-BA-60L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256858
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-60L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5568.3 lumens
Efficiency: N/A
Efficacy: 117.0 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

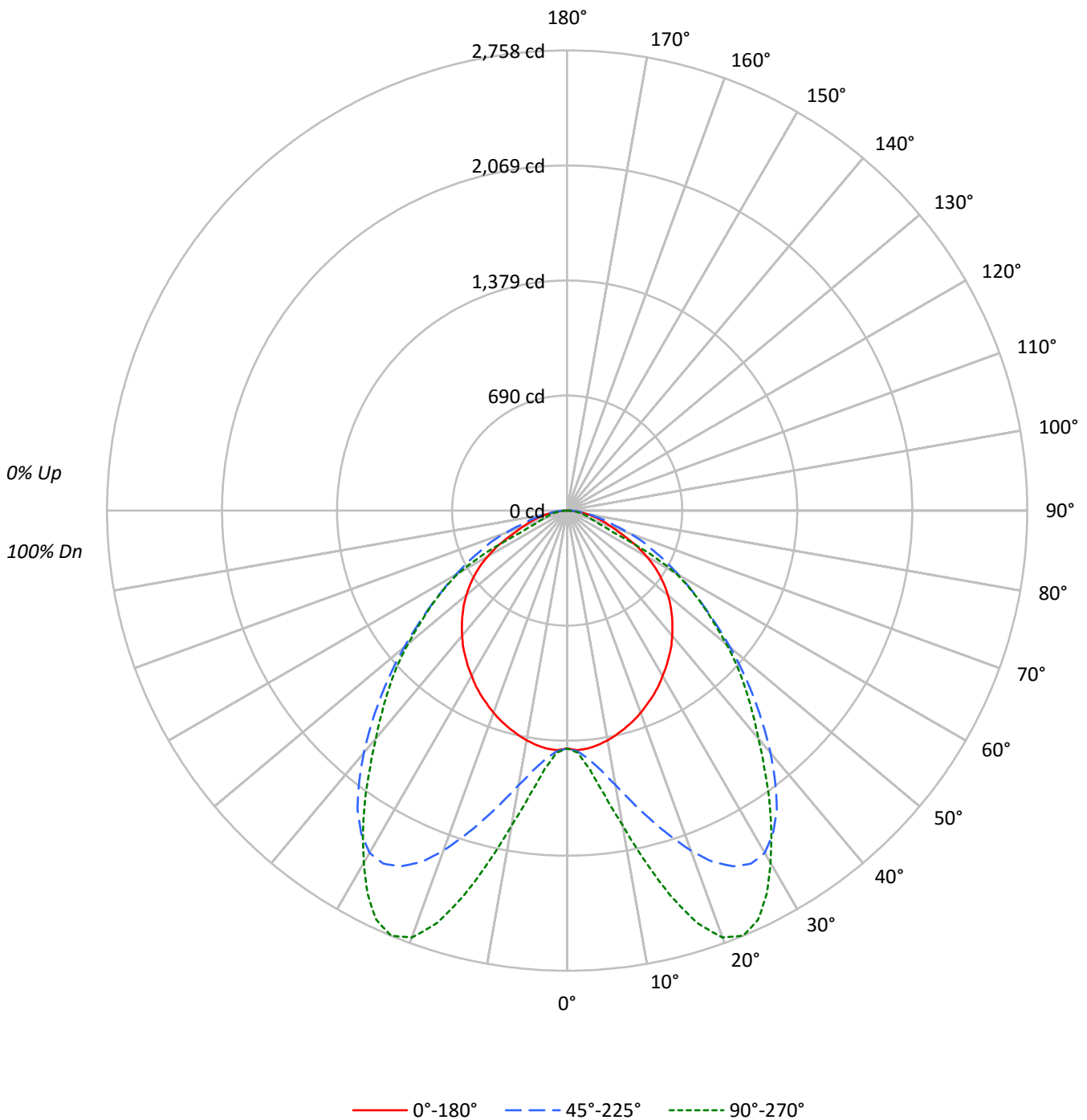
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-60L830-UNV-4

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	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°	16739	16739	16739
5°	16867	17560	18279
10°	16659	19803	22679
15°	16379	23046	28671
20°	16104	26785	33491
25°	15806	30023	34370
30°	15492	31521	32231
35°	15247	30702	29358
40°	14983	28293	26382
45°	14705	25409	24075
50°	14362	22427	21640
55°	13827	19559	19129
60°	12884	17172	16485
65°	11157	14875	7371
70°	9592	12537	5095
75°	8779	9727	4608
80°	7875	7903	4028
85°	6497	6870	2751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.7
10°-20°	539.0	9.7
20°-30°	975.6	17.5
30°-40°	1170.8	21.0
40°-50°	1109.2	19.9
50°-60°	869.1	15.6
60°-70°	485.0	8.7
70°-80°	205.5	3.7
80°-90°	63.9	1.1
90°-100°	2.3	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°	1662.4	29.9
0°-40°	2833.2	50.9
0°-60°	4811.4	86.4
0°-90°	5566.0	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	5568.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1431	1437	1494	1544	1557	135
15°	1348	1510	1912	2264	2386	380
25°	1221	1605	2352	2640	2707	563
35°	1066	1641	2191	2099	2111	667
45°	888	1503	1580	1469	1513	684
55°	678	1092	1000	968	993	604
65°	404	504	573	461	290	403
75°	195	203	240	170	118	208
85°	50	57	70	54	31	55
90°	0	12	22	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°	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5
2.5°	1437.2	1435.7	1431.3	1425.5	1427.0	1428.4	1428.4	1429.9	1431.3	1435.7	1444.4
5°	1431.3	1428.4	1427.0	1425.5	1432.8	1437.2	1441.5	1450.3	1460.5	1476.5	1494.0
7.5°	1416.8	1416.8	1419.7	1425.5	1441.5	1451.7	1460.5	1482.3	1507.1	1537.7	1571.3
10°	1397.8	1400.7	1409.5	1422.6	1451.7	1467.8	1485.3	1521.7	1564.0	1615.0	1670.4
12.5°	1374.5	1380.3	1394.9	1419.7	1463.4	1488.2	1514.4	1569.8	1632.5	1705.3	1787.0
15°	1348.2	1355.5	1378.9	1415.3	1475.1	1510.0	1546.5	1622.3	1708.3	1805.9	1912.3
17.5°	1320.6	1330.8	1362.8	1413.8	1491.1	1534.8	1581.5	1680.6	1791.3	1909.4	2040.6
20°	1289.9	1304.5	1345.3	1410.9	1505.7	1559.6	1616.4	1740.3	1875.9	2015.8	2168.9
22.5°	1255.0	1273.9	1324.9	1405.1	1520.2	1584.4	1651.4	1795.7	1953.1	2112.0	2278.2
25°	1221.4	1241.8	1301.6	1397.8	1531.9	1604.8	1682.0	1846.7	2023.1	2190.7	2352.5
27.5°	1185.0	1208.3	1279.7	1390.5	1540.6	1622.3	1708.3	1889.0	2074.1	2240.3	2386.0
30°	1144.2	1174.8	1255.0	1378.9	1545.0	1635.4	1728.7	1922.5	2106.2	2251.9	2368.5
32.5°	1106.3	1139.8	1227.3	1365.7	1546.5	1642.7	1741.8	1932.7	2106.2	2225.7	2295.7
35°	1065.5	1101.9	1199.6	1349.7	1540.6	1641.2	1740.3	1929.8	2075.6	2157.2	2190.7
37.5°	1024.7	1064.0	1170.4	1327.8	1527.5	1631.0	1730.1	1900.7	2012.9	2056.6	2047.9
40°	979.5	1023.2	1132.5	1300.1	1504.2	1604.8	1699.5	1849.6	1921.1	1928.4	1896.3
42.5°	934.3	979.5	1094.6	1263.7	1464.9	1561.1	1648.5	1768.0	1801.5	1785.5	1736.0
45°	887.7	934.3	1049.4	1220.0	1415.3	1502.7	1575.6	1661.6	1661.6	1632.5	1580.0
47.5°	839.6	884.7	1001.3	1169.0	1351.2	1427.0	1486.7	1537.7	1514.4	1478.0	1425.5
50°	788.5	833.7	947.4	1107.7	1268.1	1330.8	1380.3	1399.3	1362.8	1322.0	1275.4
52.5°	734.6	779.8	883.3	1030.5	1170.4	1217.1	1253.5	1252.0	1208.3	1171.9	1131.1
55°	677.8	718.6	811.9	938.7	1053.8	1091.7	1113.6	1096.1	1055.3	1021.8	999.9
57.5°	618.0	651.5	731.7	835.2	921.2	950.3	963.4	940.1	911.0	890.6	878.9
60°	551.0	578.7	635.5	715.7	778.3	798.7	807.5	791.5	781.3	775.4	772.5
62.5°	481.0	494.1	530.6	583.0	635.5	650.1	660.3	663.2	661.7	664.6	671.9
65°	403.7	408.1	419.8	446.0	486.8	504.3	523.3	543.7	555.3	567.0	572.8
67.5°	332.3	333.8	339.6	348.4	364.4	383.3	399.4	430.0	456.2	478.1	492.7
70°	281.3	279.9	281.3	285.7	294.4	301.7	309.0	330.9	358.6	395.0	397.9
72.5°	237.6	236.1	237.6	240.5	243.4	246.3	250.7	259.4	275.5	297.3	301.7
75°	195.3	195.3	195.3	198.2	201.1	202.6	205.5	208.4	214.3	230.3	240.5
77.5°	156.0	154.5	157.4	158.9	160.3	163.2	164.7	167.6	170.5	176.4	183.7
80°	118.1	116.6	118.1	121.0	122.4	125.4	125.4	129.7	131.2	135.6	138.5
82.5°	83.1	81.6	83.1	86.0	86.0	88.9	90.4	93.3	96.2	99.1	102.0
85°	49.6	49.6	51.0	52.5	53.9	56.8	58.3	62.7	65.6	68.5	70.0
87.5°	21.9	21.9	23.3	24.8	27.7	30.6	32.1	35.0	37.9	42.3	42.3
90°	0.0	1.5	4.4	7.3	8.7	11.7	11.7	16.0	17.5	20.4	21.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.9	4.4	5.8
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°	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5	1425.5
2.5°	1457.6	1448.8	1454.6	1456.1	1457.6	1454.6	1451.7	1454.6	1451.7	1451.7
5°	1515.9	1514.4	1529.0	1539.2	1543.6	1543.6	1552.3	1558.1	1559.6	1556.7
7.5°	1607.7	1616.4	1645.6	1666.0	1677.7	1683.5	1699.5	1708.3	1719.9	1718.5
10°	1728.7	1756.4	1800.1	1829.2	1849.6	1859.9	1883.2	1899.2	1918.2	1916.7
12.5°	1861.3	1912.3	1973.5	2020.2	2050.8	2069.7	2100.3	2129.5	2147.0	2148.4
15°	2011.4	2081.4	2164.5	2224.2	2263.6	2288.4	2330.6	2359.8	2388.9	2386.0
17.5°	2158.7	2243.2	2343.8	2422.5	2458.9	2482.2	2533.2	2563.9	2591.5	2591.5
20°	2289.8	2387.5	2489.5	2562.4	2597.4	2620.7	2664.4	2695.0	2715.4	2722.7
22.5°	2394.8	2485.1	2571.1	2633.8	2655.7	2674.6	2708.2	2732.9	2746.0	2757.7
25°	2453.1	2526.0	2584.3	2628.0	2639.6	2649.9	2668.8	2687.7	2690.7	2706.7
27.5°	2454.5	2508.5	2540.5	2556.6	2558.0	2558.0	2571.1	2578.4	2584.3	2590.1
30°	2402.1	2426.8	2432.7	2434.1	2426.8	2422.5	2431.2	2432.7	2437.0	2437.0
32.5°	2297.1	2303.0	2292.7	2276.7	2272.3	2263.6	2269.4	2266.5	2273.8	2278.2
35°	2163.0	2152.8	2126.6	2114.9	2098.9	2094.5	2098.9	2096.0	2100.3	2110.6
37.5°	2010.0	1988.1	1966.3	1945.8	1934.2	1922.5	1926.9	1931.3	1937.1	1940.0
40°	1852.6	1823.4	1800.1	1779.7	1768.0	1759.3	1766.6	1770.9	1784.1	1784.1
42.5°	1693.7	1661.6	1638.3	1625.2	1616.4	1609.2	1620.8	1623.7	1639.8	1642.7
45°	1536.3	1508.6	1489.6	1476.5	1469.2	1472.1	1483.8	1491.1	1505.7	1513.0
47.5°	1392.0	1368.7	1348.2	1342.4	1342.4	1345.3	1357.0	1364.3	1375.9	1384.7
50°	1250.6	1233.1	1220.0	1212.7	1214.2	1218.5	1228.7	1234.6	1246.2	1246.2
52.5°	1112.1	1100.5	1094.6	1085.9	1085.9	1084.4	1094.6	1100.5	1109.2	1110.7
55°	991.1	980.9	975.1	969.3	967.8	970.7	976.6	980.9	991.1	992.6
57.5°	876.0	871.6	867.3	862.9	861.4	862.9	865.8	868.7	874.5	876.0
60°	771.1	769.6	763.8	759.4	757.9	756.5	755.0	753.6	756.5	755.0
62.5°	674.9	670.5	666.1	657.4	653.0	641.3	626.8	594.7	568.4	553.9
65°	580.1	577.2	556.8	497.0	460.6	413.9	364.4	316.3	300.3	290.1
67.5°	488.3	440.2	367.3	314.8	295.9	278.4	252.2	225.9	211.3	202.6
70°	351.3	310.5	276.9	247.8	234.7	224.5	204.1	185.1	172.0	166.2
72.5°	284.2	258.0	236.1	214.3	204.1	192.4	172.0	153.0	141.4	135.6
75°	237.6	221.5	199.7	179.3	170.5	161.8	147.2	132.6	122.4	118.1
77.5°	188.0	179.3	166.2	150.1	142.8	137.0	123.9	113.7	103.5	99.1
80°	138.5	135.6	126.8	115.1	109.3	104.9	94.7	86.0	77.3	74.3
82.5°	102.0	99.1	91.8	83.1	80.2	75.8	68.5	61.2	55.4	52.5
85°	70.0	68.5	62.7	56.8	53.9	51.0	43.7	37.9	33.5	30.6
87.5°	43.7	42.3	39.4	33.5	30.6	27.7	21.9	17.5	13.1	11.7
90°	21.9	21.9	20.4	16.0	14.6	13.1	8.7	4.4	1.5	0.0
92.5°	5.8	5.8	5.8	4.4	4.4	2.9	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: P256858

CATALOG NUMBER: HGL-S-BA-60L830-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)