

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: P256869

Luminaire Tested: **HGL-S-BA-60L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256869
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-60L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5862.7 lumens
Efficiency: N/A
Efficacy: 123.2 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

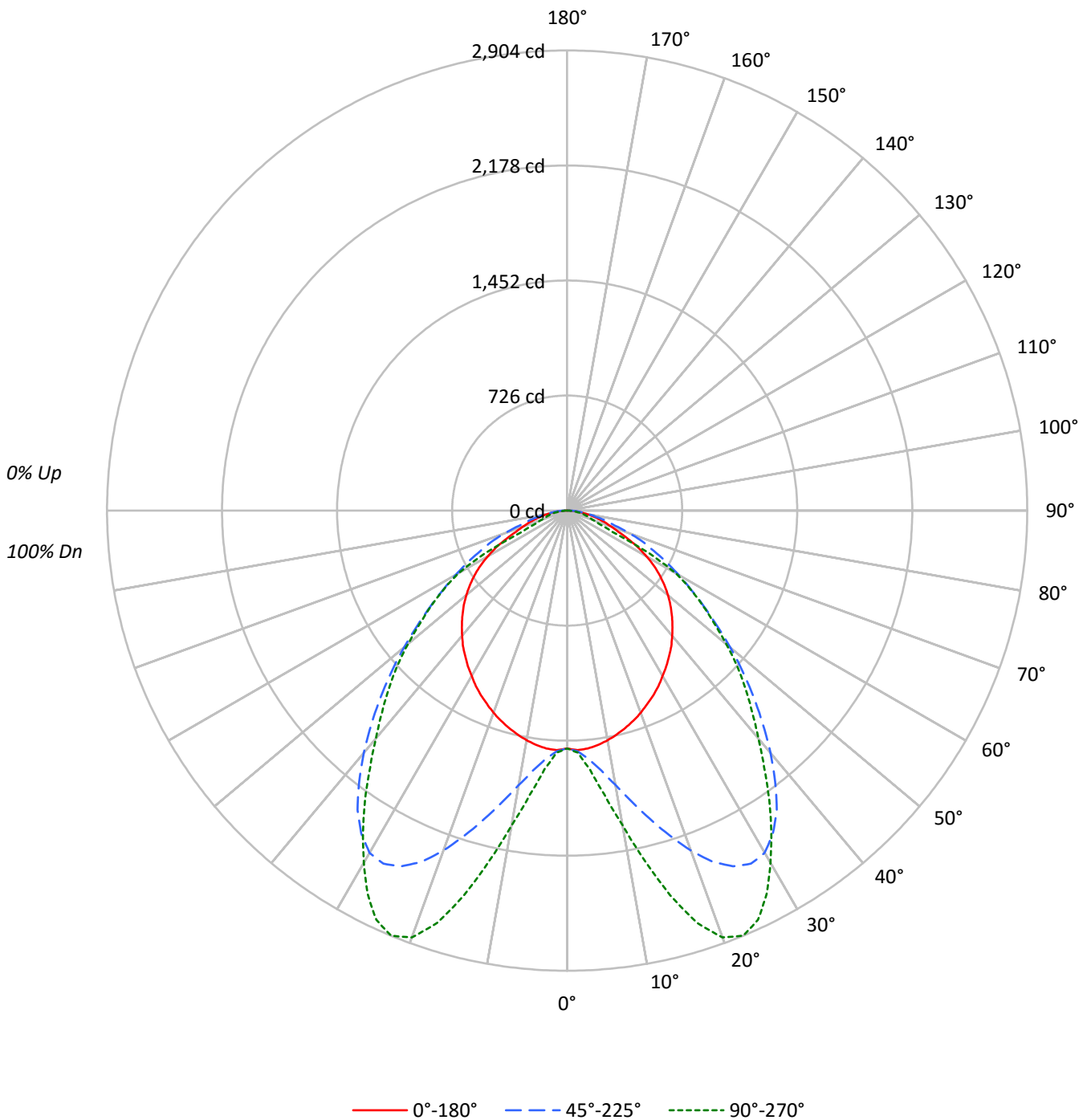
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17624	17624	17624
5°	17760	18489	19246
10°	17540	20850	23879
15°	17245	24265	30187
20°	16957	28201	35262
25°	16642	31611	36187
30°	16311	33188	33936
35°	16053	32326	30910
40°	15775	29790	27776
45°	15482	26753	25348
50°	15121	23612	22785
55°	14557	20594	20140
60°	13565	18081	17356
65°	11748	15661	7759
70°	10100	13202	5362
75°	9242	10241	4850
80°	8288	8320	4244
85°	6837	7233	2895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	2.7
10°-20°	567.5	9.7
20°-30°	1027.2	17.5
30°-40°	1232.8	21.0
40°-50°	1167.8	19.9
50°-60°	915.0	15.6
60°-70°	510.7	8.7
70°-80°	216.4	3.7
80°-90°	67.3	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°	1750.3	29.9
0°-40°	2983.1	50.9
0°-60°	5065.9	86.4
0°-90°	5860.3	100.0
90°-120°	2.4	0.0
90°-150°	2.4	0.0
90°-180°	2.0	0.0
0°-180°	5862.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1507	1513	1573	1625	1639	143
15°	1420	1590	2014	2383	2512	400
25°	1286	1690	2477	2779	2850	592
35°	1122	1728	2307	2210	2222	702
45°	935	1582	1664	1547	1593	721
55°	714	1150	1053	1019	1045	636
65°	425	531	603	485	305	425
75°	206	213	253	180	124	219
85°	52	60	74	57	32	58
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°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1513.2	1511.6	1507.0	1500.9	1502.4	1504.0	1504.0	1505.5	1507.0	1511.6	1520.8
5°	1507.0	1504.0	1502.4	1500.9	1508.6	1513.2	1517.8	1527.0	1537.7	1554.6	1573.0
7.5°	1491.7	1491.7	1494.7	1500.9	1517.8	1528.5	1537.7	1560.7	1586.8	1619.1	1654.4
10°	1471.7	1474.8	1484.0	1497.8	1528.5	1545.4	1563.8	1602.2	1646.7	1700.4	1758.7
12.5°	1447.2	1453.3	1468.7	1494.7	1540.8	1566.9	1594.5	1652.8	1718.8	1795.5	1881.5
15°	1419.5	1427.2	1451.8	1490.1	1553.1	1589.9	1628.3	1708.1	1798.6	1901.4	2013.5
17.5°	1390.4	1401.1	1434.9	1488.6	1569.9	1616.0	1665.1	1769.4	1886.1	2010.4	2148.5
20°	1358.2	1373.5	1416.5	1485.5	1585.3	1642.1	1701.9	1832.4	1975.1	2122.4	2283.6
22.5°	1321.3	1341.3	1395.0	1479.4	1600.6	1668.2	1738.8	1890.7	2056.4	2223.7	2398.7
25°	1286.0	1307.5	1370.4	1471.7	1612.9	1689.6	1771.0	1944.4	2130.1	2306.6	2476.9
27.5°	1247.7	1272.2	1347.4	1464.1	1622.1	1708.1	1798.6	1988.9	2183.8	2358.8	2512.2
30°	1204.7	1236.9	1321.3	1451.8	1626.7	1721.9	1820.1	2024.2	2217.6	2371.0	2493.8
32.5°	1164.8	1200.1	1292.2	1438.0	1628.3	1729.5	1833.9	2034.9	2217.6	2343.4	2417.1
35°	1121.8	1160.2	1263.0	1421.1	1622.1	1728.0	1832.4	2031.9	2185.3	2271.3	2306.6
37.5°	1078.9	1120.3	1232.3	1398.1	1608.3	1717.3	1821.6	2001.2	2119.3	2165.4	2156.2
40°	1031.3	1077.3	1192.4	1368.9	1583.8	1689.6	1789.4	1947.5	2022.7	2030.3	1996.6
42.5°	983.7	1031.3	1152.5	1330.5	1542.3	1643.6	1735.7	1861.5	1896.8	1879.9	1827.8
45°	934.6	983.7	1104.9	1284.5	1490.1	1582.2	1659.0	1749.5	1749.5	1718.8	1663.6
47.5°	884.0	931.5	1054.3	1230.8	1422.6	1502.4	1565.3	1619.1	1594.5	1556.1	1500.9
50°	830.2	877.8	997.5	1166.3	1335.1	1401.1	1453.3	1473.3	1434.9	1391.9	1342.8
52.5°	773.5	821.0	930.0	1085.0	1232.3	1281.4	1319.8	1318.3	1272.2	1233.9	1190.9
55°	713.6	756.6	854.8	988.3	1109.6	1149.5	1172.5	1154.1	1111.1	1075.8	1052.8
57.5°	650.7	686.0	770.4	879.4	969.9	1000.6	1014.4	989.8	959.2	937.7	925.4
60°	580.1	609.3	669.1	753.5	819.5	841.0	850.2	833.3	822.6	816.4	813.4
62.5°	506.4	520.2	558.6	613.9	669.1	684.5	695.2	698.3	696.7	699.8	707.5
65°	425.1	429.7	442.0	469.6	512.6	531.0	550.9	572.4	584.7	597.0	603.1
67.5°	349.9	351.4	357.6	366.8	383.7	403.6	420.5	452.7	480.3	503.4	518.7
70°	296.2	294.7	296.2	300.8	310.0	317.7	325.3	348.4	377.5	415.9	419.0
72.5°	250.1	248.6	250.1	253.2	256.3	259.4	264.0	273.2	290.0	313.1	317.7
75°	205.6	205.6	205.6	208.7	211.8	213.3	216.4	219.5	225.6	242.5	253.2
77.5°	164.2	162.7	165.7	167.3	168.8	171.9	173.4	176.5	179.6	185.7	193.4
80°	124.3	122.8	124.3	127.4	128.9	132.0	132.0	136.6	138.1	142.7	145.8
82.5°	87.5	85.9	87.5	90.5	90.5	93.6	95.1	98.2	101.3	104.4	107.4
85°	52.2	52.2	53.7	55.2	56.8	59.9	61.4	66.0	69.1	72.1	73.7
87.5°	23.0	23.0	24.6	26.1	29.2	32.2	33.8	36.8	39.9	44.5	44.5
90°	0.0	1.5	4.6	7.7	9.2	12.3	12.3	16.9	18.4	21.5	23.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	4.6	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°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1534.6	1525.4	1531.6	1533.1	1534.6	1531.6	1528.5	1531.6	1528.5	1528.5
5°	1596.0	1594.5	1609.8	1620.6	1625.2	1625.2	1634.4	1640.5	1642.1	1639.0
7.5°	1692.7	1701.9	1732.6	1754.1	1766.4	1772.5	1789.4	1798.6	1810.9	1809.4
10°	1820.1	1849.3	1895.3	1926.0	1947.5	1958.2	1982.8	1999.6	2019.6	2018.1
12.5°	1959.7	2013.5	2077.9	2127.0	2159.3	2179.2	2211.4	2242.1	2260.5	2262.1
15°	2117.8	2191.5	2279.0	2341.9	2383.3	2409.4	2453.9	2484.6	2515.3	2512.2
17.5°	2272.8	2361.8	2467.7	2550.6	2589.0	2613.5	2667.2	2699.4	2728.6	2728.6
20°	2410.9	2513.8	2621.2	2697.9	2734.7	2759.3	2805.3	2837.6	2859.1	2866.7
22.5°	2521.4	2616.6	2707.1	2773.1	2796.1	2816.1	2851.4	2877.5	2891.3	2903.6
25°	2582.8	2659.5	2720.9	2767.0	2779.2	2790.0	2809.9	2829.9	2833.0	2849.8
27.5°	2584.3	2641.1	2674.9	2691.8	2693.3	2693.3	2707.1	2714.8	2720.9	2727.1
30°	2529.1	2555.2	2561.3	2562.9	2555.2	2550.6	2559.8	2561.3	2565.9	2565.9
32.5°	2418.6	2424.7	2414.0	2397.1	2392.5	2383.3	2389.4	2386.4	2394.1	2398.7
35°	2277.4	2266.7	2239.1	2226.8	2209.9	2205.3	2209.9	2206.8	2211.4	2222.2
37.5°	2116.3	2093.3	2070.2	2048.8	2036.5	2024.2	2028.8	2033.4	2039.5	2042.6
40°	1950.5	1919.8	1895.3	1873.8	1861.5	1852.3	1860.0	1864.6	1878.4	1878.4
42.5°	1783.3	1749.5	1724.9	1711.1	1701.9	1694.3	1706.5	1709.6	1726.5	1729.5
45°	1617.5	1588.4	1568.4	1554.6	1546.9	1550.0	1562.3	1569.9	1585.3	1593.0
47.5°	1465.6	1441.0	1419.5	1413.4	1413.4	1416.5	1428.8	1436.4	1448.7	1457.9
50°	1316.7	1298.3	1284.5	1276.8	1278.4	1283.0	1293.7	1299.8	1312.1	1312.1
52.5°	1170.9	1158.7	1152.5	1143.3	1143.3	1141.8	1152.5	1158.7	1167.9	1169.4
55°	1043.6	1032.8	1026.7	1020.5	1019.0	1022.1	1028.2	1032.8	1043.6	1045.1
57.5°	922.3	917.7	913.1	908.5	907.0	908.5	911.6	914.7	920.8	922.3
60°	811.8	810.3	804.2	799.6	798.0	796.5	794.9	793.4	796.5	794.9
62.5°	710.5	705.9	701.3	692.1	687.5	675.2	659.9	626.1	598.5	583.2
65°	610.8	607.7	586.2	523.3	484.9	435.8	383.7	333.0	316.1	305.4
67.5°	514.1	463.5	386.7	331.5	311.5	293.1	265.5	237.9	222.5	213.3
70°	369.9	326.9	291.6	260.9	247.1	236.3	214.9	194.9	181.1	174.9
72.5°	299.3	271.6	248.6	225.6	214.9	202.6	181.1	161.1	148.9	142.7
75°	250.1	233.3	210.2	188.8	179.6	170.3	155.0	139.7	128.9	124.3
77.5°	198.0	188.8	174.9	158.1	150.4	144.3	130.4	119.7	109.0	104.4
80°	145.8	142.7	133.5	121.2	115.1	110.5	99.8	90.5	81.3	78.3
82.5°	107.4	104.4	96.7	87.5	84.4	79.8	72.1	64.5	58.3	55.2
85°	73.7	72.1	66.0	59.9	56.8	53.7	46.0	39.9	35.3	32.2
87.5°	46.0	44.5	41.4	35.3	32.2	29.2	23.0	18.4	13.8	12.3
90°	23.0	23.0	21.5	16.9	15.3	13.8	9.2	4.6	1.5	0.0
92.5°	6.1	6.1	6.1	4.6	4.6	3.1	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: P256869

CATALOG NUMBER: HGL-S-BA-60L840-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)