

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: P256867

Luminaire Tested: **HGL-S-BA-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256867
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-50L840-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: 4852.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

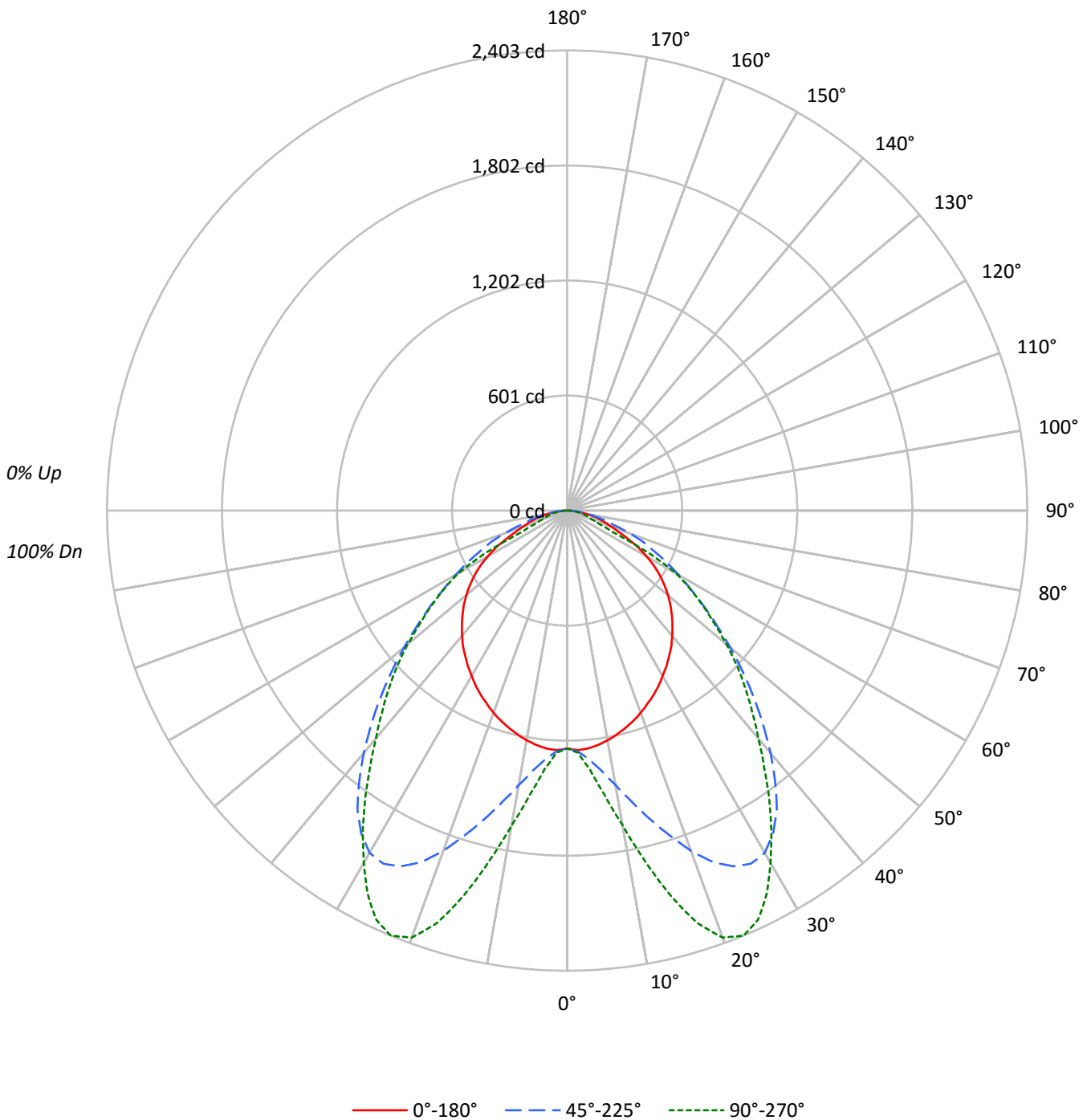
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14585	14585	14585
5°	14698	15301	15927
10°	14517	17256	19762
15°	14272	20081	24983
20°	14033	23339	29183
25°	13773	26161	29948
30°	13499	27467	28086
35°	13285	26753	25582
40°	13056	24654	22988
45°	12813	22141	20977
50°	12515	19541	18857
55°	12048	17043	16668
60°	11226	14962	14365
65°	9723	12961	6420
70°	8358	10924	4439
75°	7650	8477	4015
80°	6861	6888	3513
85°	5659	5986	2400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	2.7
10°-20°	469.7	9.7
20°-30°	850.1	17.5
30°-40°	1020.2	21.0
40°-50°	966.5	19.9
50°-60°	757.3	15.6
60°-70°	422.6	8.7
70°-80°	179.1	3.7
80°-90°	55.7	1.1
90°-100°	2.0	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°	1448.6	29.9
0°-40°	2468.8	50.9
0°-60°	4192.5	86.4
0°-90°	4850.0	100.0
90°-120°	2.0	0.0
90°-150°	2.0	0.0
90°-180°	2.0	0.0
0°-180°	4852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1247	1252	1302	1345	1356	118
15°	1175	1316	1666	1972	2079	331
25°	1064	1398	2050	2300	2358	490
35°	928	1430	1909	1829	1839	581
45°	774	1309	1377	1280	1318	596
55°	591	951	871	843	865	526
65°	352	439	499	401	253	352
75°	170	176	210	149	103	181
85°	43	50	61	47	27	48
90°	0	10	19	13	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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1252.3	1251.0	1247.2	1242.1	1243.4	1244.7	1244.7	1245.9	1247.2	1251.0	1258.6
5°	1247.2	1244.7	1243.4	1242.1	1248.5	1252.3	1256.1	1263.7	1272.6	1286.6	1301.8
7.5°	1234.5	1234.5	1237.1	1242.1	1256.1	1265.0	1272.6	1291.7	1313.3	1339.9	1369.1
10°	1218.0	1220.5	1228.2	1239.6	1265.0	1279.0	1294.2	1326.0	1362.8	1407.2	1455.5
12.5°	1197.7	1202.8	1215.5	1237.1	1275.2	1296.7	1319.6	1367.9	1422.5	1486.0	1557.1
15°	1174.8	1181.2	1201.5	1233.2	1285.3	1315.8	1347.5	1413.6	1488.5	1573.6	1666.3
17.5°	1150.7	1159.6	1187.5	1232.0	1299.3	1337.4	1378.0	1464.4	1560.9	1663.8	1778.1
20°	1124.0	1136.7	1172.3	1229.4	1312.0	1359.0	1408.5	1516.5	1634.6	1756.5	1889.9
22.5°	1093.5	1110.0	1154.5	1224.4	1324.7	1380.6	1439.0	1564.7	1701.9	1840.3	1985.1
25°	1064.3	1082.1	1134.2	1218.0	1334.8	1398.4	1465.7	1609.2	1762.9	1908.9	2049.9
27.5°	1032.6	1052.9	1115.1	1211.7	1342.5	1413.6	1488.5	1646.0	1807.3	1952.1	2079.1
30°	997.0	1023.7	1093.5	1201.5	1346.3	1425.0	1506.3	1675.2	1835.3	1962.3	2063.9
32.5°	964.0	993.2	1069.4	1190.1	1347.5	1431.4	1517.7	1684.1	1835.3	1939.4	2000.4
35°	928.4	960.2	1045.3	1176.1	1342.5	1430.1	1516.5	1681.6	1808.6	1879.7	1908.9
37.5°	892.9	927.2	1019.9	1157.0	1331.0	1421.2	1507.6	1656.2	1754.0	1792.1	1784.5
40°	853.5	891.6	986.8	1132.9	1310.7	1398.4	1480.9	1611.7	1674.0	1680.3	1652.4
42.5°	814.1	853.5	953.8	1101.2	1276.4	1360.2	1436.5	1540.6	1569.8	1555.8	1512.7
45°	773.5	814.1	914.5	1063.1	1233.2	1309.4	1372.9	1447.9	1447.9	1422.5	1376.8
47.5°	731.6	770.9	872.5	1018.6	1177.4	1243.4	1295.5	1339.9	1319.6	1287.9	1242.1
50°	687.1	726.5	825.5	965.3	1105.0	1159.6	1202.8	1219.3	1187.5	1152.0	1111.3
52.5°	640.1	679.5	769.7	897.9	1019.9	1060.5	1092.3	1091.0	1052.9	1021.1	985.6
55°	590.6	626.1	707.4	817.9	918.3	951.3	970.3	955.1	919.5	890.3	871.3
57.5°	538.5	567.7	637.6	727.8	802.7	828.1	839.5	819.2	793.8	776.0	765.9
60°	480.1	504.2	553.8	623.6	678.2	696.0	703.6	689.6	680.8	675.7	673.1
62.5°	419.1	430.6	462.3	508.0	553.8	566.5	575.3	577.9	576.6	579.2	585.5
65°	351.8	355.6	365.8	388.6	424.2	439.4	456.0	473.7	483.9	494.1	499.1
67.5°	289.6	290.8	295.9	303.5	317.5	334.0	348.0	374.7	397.5	416.6	429.3
70°	245.1	243.9	245.1	248.9	256.6	262.9	269.3	288.3	312.4	344.2	346.7
72.5°	207.0	205.8	207.0	209.6	212.1	214.6	218.5	226.1	240.0	259.1	262.9
75°	170.2	170.2	170.2	172.7	175.3	176.5	179.1	181.6	186.7	200.7	209.6
77.5°	135.9	134.6	137.2	138.4	139.7	142.2	143.5	146.1	148.6	153.7	160.0
80°	102.9	101.6	102.9	105.4	106.7	109.2	109.2	113.0	114.3	118.1	120.7
82.5°	72.4	71.1	72.4	74.9	74.9	77.5	78.7	81.3	83.8	86.4	88.9
85°	43.2	43.2	44.5	45.7	47.0	49.5	50.8	54.6	57.2	59.7	61.0
87.5°	19.1	19.1	20.3	21.6	24.1	26.7	27.9	30.5	33.0	36.8	36.8
90°	0.0	1.3	3.8	6.4	7.6	10.2	10.2	14.0	15.2	17.8	19.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.5	3.8	5.1
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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1270.1	1262.5	1267.5	1268.8	1270.1	1267.5	1265.0	1267.5	1265.0	1265.0
5°	1320.9	1319.6	1332.3	1341.2	1345.0	1345.0	1352.6	1357.7	1359.0	1356.4
7.5°	1400.9	1408.5	1433.9	1451.7	1461.9	1466.9	1480.9	1488.5	1498.7	1497.4
10°	1506.3	1530.4	1568.5	1593.9	1611.7	1620.6	1640.9	1654.9	1671.4	1670.1
12.5°	1621.9	1666.3	1719.7	1760.3	1787.0	1803.5	1830.2	1855.6	1870.8	1872.1
15°	1752.7	1813.7	1886.1	1938.1	1972.4	1994.0	2030.8	2056.2	2081.7	2079.1
17.5°	1881.0	1954.6	2042.3	2110.9	2142.6	2162.9	2207.4	2234.1	2258.2	2258.2
20°	1995.3	2080.4	2169.3	2232.8	2263.3	2283.6	2321.7	2348.4	2366.1	2372.5
22.5°	2086.7	2165.5	2240.4	2295.0	2314.1	2330.6	2359.8	2381.4	2392.8	2403.0
25°	2137.5	2201.0	2251.8	2289.9	2300.1	2309.0	2325.5	2342.0	2344.6	2358.5
27.5°	2138.8	2185.8	2213.7	2227.7	2229.0	2229.0	2240.4	2246.8	2251.8	2256.9
30°	2093.1	2114.7	2119.8	2121.0	2114.7	2110.9	2118.5	2119.8	2123.6	2123.6
32.5°	2001.6	2006.7	1997.8	1983.9	1980.0	1972.4	1977.5	1975.0	1981.3	1985.1
35°	1884.8	1875.9	1853.0	1842.9	1828.9	1825.1	1828.9	1826.4	1830.2	1839.1
37.5°	1751.4	1732.4	1713.3	1695.5	1685.4	1675.2	1679.0	1682.8	1687.9	1690.5
40°	1614.3	1588.9	1568.5	1550.8	1540.6	1533.0	1539.3	1543.1	1554.6	1554.6
42.5°	1475.8	1447.9	1427.6	1416.1	1408.5	1402.2	1412.3	1414.9	1428.8	1431.4
45°	1338.7	1314.5	1298.0	1286.6	1280.2	1282.8	1292.9	1299.3	1312.0	1318.3
47.5°	1212.9	1192.6	1174.8	1169.7	1169.7	1172.3	1182.4	1188.8	1198.9	1206.6
50°	1089.7	1074.5	1063.1	1056.7	1058.0	1061.8	1070.7	1075.8	1085.9	1085.9
52.5°	969.1	958.9	953.8	946.2	946.2	944.9	953.8	958.9	966.5	967.8
55°	863.7	854.8	849.7	844.6	843.3	845.9	850.9	854.8	863.7	864.9
57.5°	763.3	759.5	755.7	751.9	750.6	751.9	754.4	757.0	762.0	763.3
60°	671.9	670.6	665.5	661.7	660.4	659.2	657.9	656.6	659.2	657.9
62.5°	588.0	584.2	580.4	572.8	569.0	558.8	546.1	518.2	495.3	482.6
65°	505.5	502.9	485.2	433.1	401.3	360.7	317.5	275.6	261.6	252.7
67.5°	425.5	383.6	320.1	274.3	257.8	242.6	219.7	196.9	184.2	176.5
70°	306.1	270.5	241.3	215.9	204.5	195.6	177.8	161.3	149.9	144.8
72.5°	247.7	224.8	205.8	186.7	177.8	167.6	149.9	133.4	123.2	118.1
75°	207.0	193.1	174.0	156.2	148.6	141.0	128.3	115.6	106.7	102.9
77.5°	163.8	156.2	144.8	130.8	124.5	119.4	108.0	99.1	90.2	86.4
80°	120.7	118.1	110.5	100.3	95.3	91.4	82.6	74.9	67.3	64.8
82.5°	88.9	86.4	80.0	72.4	69.9	66.0	59.7	53.3	48.3	45.7
85°	61.0	59.7	54.6	49.5	47.0	44.5	38.1	33.0	29.2	26.7
87.5°	38.1	36.8	34.3	29.2	26.7	24.1	19.1	15.2	11.4	10.2
90°	19.1	19.1	17.8	14.0	12.7	11.4	7.6	3.8	1.3	0.0
92.5°	5.1	5.1	5.1	3.8	3.8	2.5	1.3	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: P256867

CATALOG NUMBER: HGL-S-BA-50L840-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)