

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: P256861

Luminaire Tested: **HGL-S-BA-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256861
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-50L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4780.8 lumens
Efficiency: N/A
Efficacy: 124.2 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

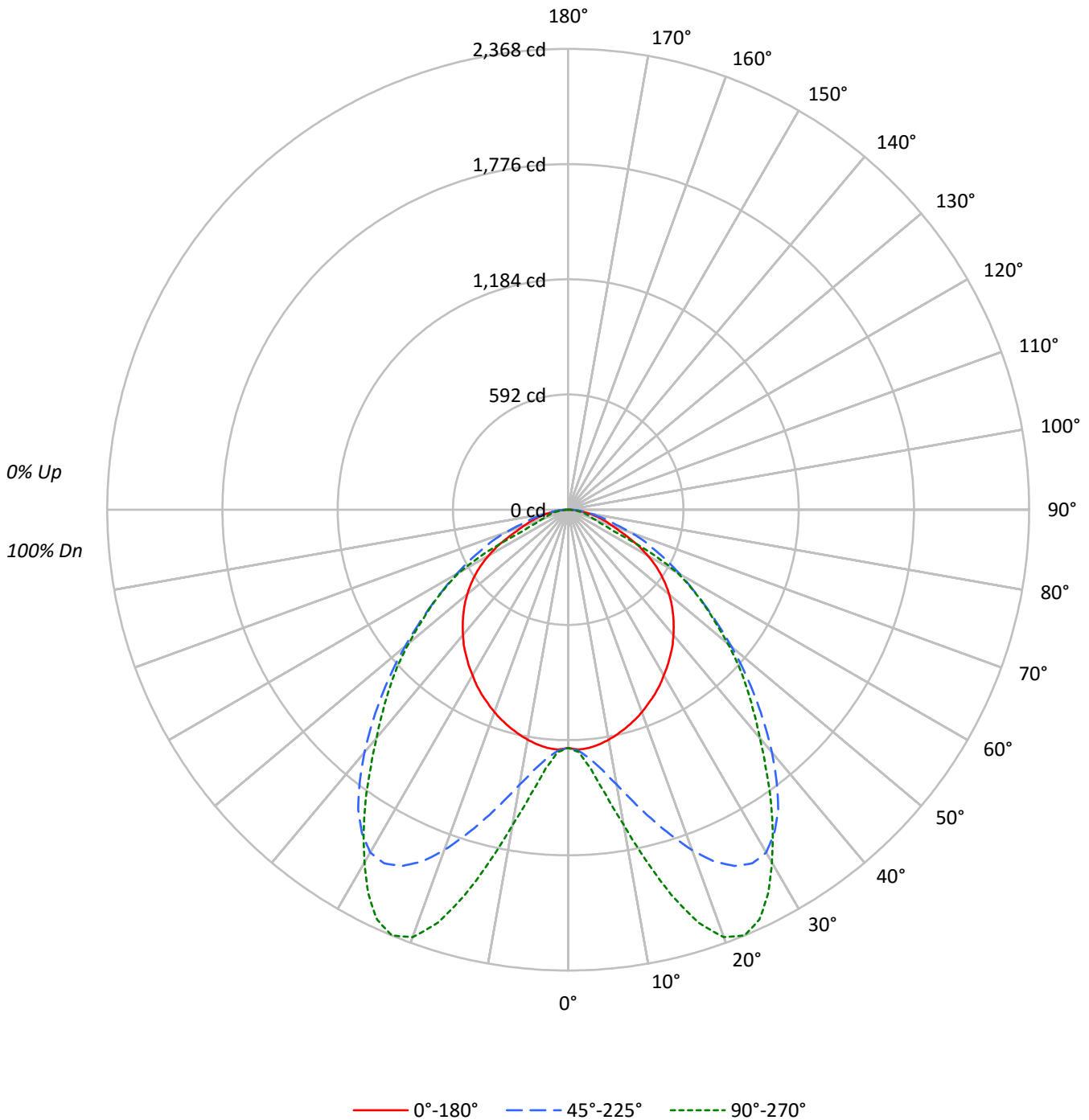
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14372	14372	14372
5°	14482	15077	15694
10°	14303	17002	19472
15°	14063	19787	24616
20°	13827	22996	28755
25°	13571	25777	29509
30°	13301	27064	27674
35°	13091	26360	25206
40°	12864	24292	22651
45°	12624	21816	20670
50°	12331	19255	18580
55°	11870	16793	16423
60°	11060	14744	14153
65°	9579	12771	6326
70°	8235	10763	4375
75°	7538	8352	3956
80°	6761	6785	3458
85°	5567	5898	2364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	2.7
10°-20°	462.8	9.7
20°-30°	837.6	17.5
30°-40°	1005.3	21.0
40°-50°	952.3	19.9
50°-60°	746.2	15.6
60°-70°	416.4	8.7
70°-80°	176.5	3.7
80°-90°	54.9	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°	1427.3	29.9
0°-40°	2432.6	50.9
0°-60°	4131.0	86.4
0°-90°	4778.8	100.0
90°-120°	2.0	0.0
90°-150°	2.0	0.0
90°-180°	2.0	0.0
0°-180°	4780.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1229	1234	1283	1325	1336	116
15°	1158	1296	1642	1944	2049	326
25°	1049	1378	2020	2266	2324	483
35°	915	1409	1881	1802	1812	572
45°	762	1290	1357	1261	1299	588
55°	582	937	858	831	852	518
65°	347	433	492	396	249	346
75°	168	174	206	146	101	179
85°	42	49	60	46	26	47
90°	0	10	19	12	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°	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9
2.5°	1233.9	1232.7	1228.9	1223.9	1225.2	1226.4	1226.4	1227.7	1228.9	1232.7	1240.2
5°	1228.9	1226.4	1225.2	1223.9	1230.2	1233.9	1237.7	1245.2	1253.9	1267.7	1282.7
7.5°	1216.4	1216.4	1218.9	1223.9	1237.7	1246.4	1253.9	1272.7	1294.0	1320.3	1349.0
10°	1200.1	1202.6	1210.1	1221.4	1246.4	1260.2	1275.2	1306.5	1342.8	1386.6	1434.1
12.5°	1180.1	1185.1	1197.6	1218.9	1256.4	1277.7	1300.2	1347.8	1401.6	1464.2	1534.3
15°	1157.6	1163.8	1183.9	1215.1	1266.5	1296.5	1327.8	1392.8	1466.7	1550.5	1641.9
17.5°	1133.8	1142.6	1170.1	1213.9	1280.2	1317.8	1357.8	1442.9	1538.0	1639.4	1752.0
20°	1107.5	1120.0	1155.1	1211.4	1292.7	1339.0	1387.8	1494.2	1610.6	1730.7	1862.1
22.5°	1077.5	1093.8	1137.6	1206.4	1305.2	1360.3	1417.9	1541.8	1676.9	1813.3	1956.0
25°	1048.7	1066.2	1117.5	1200.1	1315.3	1377.8	1444.2	1585.6	1737.0	1880.9	2019.8
27.5°	1017.4	1037.4	1098.8	1193.9	1322.8	1392.8	1466.7	1621.9	1780.8	1923.5	2048.6
30°	982.4	1008.7	1077.5	1183.9	1326.5	1404.1	1484.2	1650.6	1808.3	1933.5	2033.6
32.5°	949.8	978.6	1053.7	1172.6	1327.8	1410.4	1495.5	1659.4	1808.3	1910.9	1971.0
35°	914.8	946.1	1029.9	1158.8	1322.8	1409.1	1494.2	1656.9	1782.0	1852.1	1880.9
37.5°	879.8	913.5	1004.9	1140.1	1311.5	1400.4	1485.5	1631.9	1728.2	1765.8	1758.3
40°	841.0	878.5	972.4	1116.3	1291.5	1377.8	1459.2	1588.1	1649.4	1655.7	1628.1
42.5°	802.2	841.0	939.8	1085.0	1257.7	1340.3	1415.4	1518.0	1546.8	1533.0	1490.5
45°	762.1	802.2	901.0	1047.5	1215.1	1290.2	1352.8	1426.6	1426.6	1401.6	1356.6
47.5°	720.8	759.6	859.7	1003.7	1160.1	1225.2	1276.5	1320.3	1300.2	1269.0	1223.9
50°	677.0	715.8	813.4	951.1	1088.8	1142.6	1185.1	1201.4	1170.1	1135.1	1095.0
52.5°	630.7	669.5	758.4	884.8	1004.9	1044.9	1076.2	1075.0	1037.4	1006.2	971.1
55°	581.9	617.0	697.1	805.9	904.8	937.3	956.1	941.1	906.0	877.3	858.5
57.5°	530.6	559.4	628.2	717.1	790.9	815.9	827.2	807.2	782.1	764.6	754.6
60°	473.0	496.8	545.6	614.5	668.3	685.8	693.3	679.5	670.8	665.8	663.3
62.5°	413.0	424.2	455.5	500.6	545.6	558.1	566.9	569.4	568.2	570.7	576.9
65°	346.6	350.4	360.4	382.9	418.0	433.0	449.3	466.8	476.8	486.8	491.8
67.5°	285.3	286.6	291.6	299.1	312.9	329.1	342.9	369.2	391.7	410.5	423.0
70°	241.5	240.3	241.5	245.3	252.8	259.0	265.3	284.1	307.9	339.1	341.6
72.5°	204.0	202.7	204.0	206.5	209.0	211.5	215.2	222.8	236.5	255.3	259.0
75°	167.7	167.7	167.7	170.2	172.7	173.9	176.5	179.0	184.0	197.7	206.5
77.5°	133.9	132.7	135.2	136.4	137.7	140.2	141.4	143.9	146.4	151.4	157.7
80°	101.4	100.1	101.4	103.9	105.1	107.6	107.6	111.4	112.6	116.4	118.9
82.5°	71.3	70.1	71.3	73.8	73.8	76.3	77.6	80.1	82.6	85.1	87.6
85°	42.5	42.5	43.8	45.1	46.3	48.8	50.1	53.8	56.3	58.8	60.1
87.5°	18.8	18.8	20.0	21.3	23.8	26.3	27.5	30.0	32.5	36.3	36.3
90°	0.0	1.3	3.8	6.3	7.5	10.0	10.0	13.8	15.0	17.5	18.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.5	3.8	5.0
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°	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9	1223.9
2.5°	1251.4	1243.9	1248.9	1250.2	1251.4	1248.9	1246.4	1248.9	1246.4	1246.4
5°	1301.5	1300.2	1312.8	1321.5	1325.3	1325.3	1332.8	1337.8	1339.0	1336.5
7.5°	1380.3	1387.8	1412.9	1430.4	1440.4	1445.4	1459.2	1466.7	1476.7	1475.4
10°	1484.2	1508.0	1545.5	1570.6	1588.1	1596.8	1616.9	1630.6	1646.9	1645.6
12.5°	1598.1	1641.9	1694.4	1734.5	1760.8	1777.0	1803.3	1828.3	1843.4	1844.6
15°	1727.0	1787.1	1858.4	1909.7	1943.5	1964.8	2001.0	2026.1	2051.1	2048.6
17.5°	1853.4	1926.0	2012.3	2079.9	2111.2	2131.2	2175.0	2201.3	2225.1	2225.1
20°	1966.0	2049.9	2137.5	2200.0	2230.1	2250.1	2287.6	2313.9	2331.4	2337.7
22.5°	2056.1	2133.7	2207.5	2261.3	2280.1	2296.4	2325.2	2346.4	2357.7	2367.7
25°	2106.2	2168.7	2218.8	2256.3	2266.4	2275.1	2291.4	2307.6	2310.2	2323.9
27.5°	2107.4	2153.7	2181.3	2195.0	2196.3	2196.3	2207.5	2213.8	2218.8	2223.8
30°	2062.4	2083.6	2088.6	2089.9	2083.6	2079.9	2087.4	2088.6	2092.4	2092.4
32.5°	1972.3	1977.3	1968.5	1954.7	1951.0	1943.5	1948.5	1946.0	1952.2	1956.0
35°	1857.1	1848.4	1825.8	1815.8	1802.1	1798.3	1802.1	1799.6	1803.3	1812.1
37.5°	1725.7	1707.0	1688.2	1670.7	1660.7	1650.6	1654.4	1658.2	1663.2	1665.7
40°	1590.6	1565.5	1545.5	1528.0	1518.0	1510.5	1516.7	1520.5	1531.8	1531.8
42.5°	1454.2	1426.6	1406.6	1395.4	1387.8	1381.6	1391.6	1394.1	1407.9	1410.4
45°	1319.0	1295.2	1279.0	1267.7	1261.4	1264.0	1274.0	1280.2	1292.7	1299.0
47.5°	1195.1	1175.1	1157.6	1152.6	1152.6	1155.1	1165.1	1171.3	1181.4	1188.9
50°	1073.7	1058.7	1047.5	1041.2	1042.4	1046.2	1055.0	1060.0	1070.0	1070.0
52.5°	954.8	944.8	939.8	932.3	932.3	931.1	939.8	944.8	952.3	953.6
55°	851.0	842.2	837.2	832.2	831.0	833.5	838.5	842.2	851.0	852.2
57.5°	752.1	748.4	744.6	740.9	739.6	740.9	743.4	745.9	750.9	752.1
60°	662.0	660.8	655.8	652.0	650.7	649.5	648.2	647.0	649.5	648.2
62.5°	579.4	575.7	571.9	564.4	560.6	550.6	538.1	510.6	488.1	475.5
65°	498.1	495.6	478.0	426.7	395.5	355.4	312.9	271.6	257.8	249.0
67.5°	419.2	377.9	315.4	270.3	254.0	239.0	216.5	194.0	181.5	173.9
70°	301.6	266.6	237.8	212.7	201.5	192.7	175.2	158.9	147.7	142.7
72.5°	244.0	221.5	202.7	184.0	175.2	165.2	147.7	131.4	121.4	116.4
75°	204.0	190.2	171.4	153.9	146.4	138.9	126.4	113.9	105.1	101.4
77.5°	161.4	153.9	142.7	128.9	122.6	117.6	106.4	97.6	88.9	85.1
80°	118.9	116.4	108.9	98.9	93.9	90.1	81.3	73.8	66.3	63.8
82.5°	87.6	85.1	78.8	71.3	68.8	65.1	58.8	52.6	47.6	45.1
85°	60.1	58.8	53.8	48.8	46.3	43.8	37.5	32.5	28.8	26.3
87.5°	37.5	36.3	33.8	28.8	26.3	23.8	18.8	15.0	11.3	10.0
90°	18.8	18.8	17.5	13.8	12.5	11.3	7.5	3.8	1.3	0.0
92.5°	5.0	5.0	5.0	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: P256861

CATALOG NUMBER: HGL-S-BA-50L835-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)