

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: P256856

Luminaire Tested: **HGL-S-BA-50L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256856
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-50L830-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: 4608.3 lumens
Efficiency: N/A
Efficacy: 119.7 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

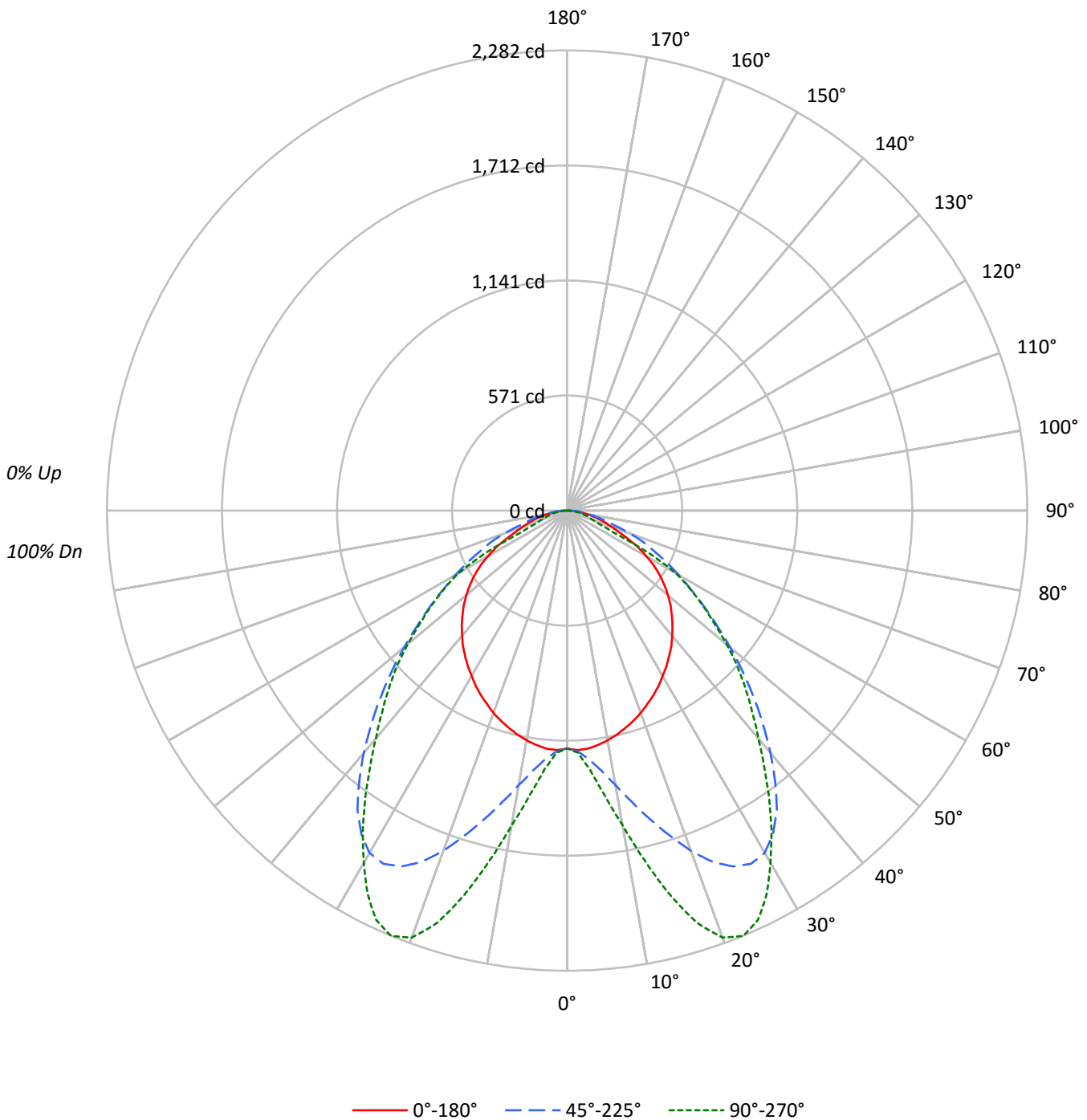
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-50L830-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	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				
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°	13853	13853	13853
5°	13960	14532	15128
10°	13787	16389	18770
15°	13555	19072	23728
20°	13329	22166	27717
25°	13082	24847	28445
30°	12821	26087	26675
35°	12618	25409	24296
40°	12399	23416	21833
45°	12169	21028	19923
50°	11886	18560	17910
55°	11442	16187	15831
60°	10663	14211	13644
65°	9233	12312	6098
70°	7938	10376	4215
75°	7264	8049	3812
80°	6514	6540	3334
85°	5370	5682	2274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	2.7
10°-20°	446.1	9.7
20°-30°	807.4	17.5
30°-40°	969.0	21.0
40°-50°	917.9	19.9
50°-60°	719.2	15.6
60°-70°	401.4	8.7
70°-80°	170.1	3.7
80°-90°	52.9	1.1
90°-100°	1.9	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°	1375.8	29.9
0°-40°	2344.8	50.9
0°-60°	3981.9	86.4
0°-90°	4606.4	100.0
90°-120°	1.9	0.0
90°-150°	1.9	0.0
90°-180°	2.0	0.0
0°-180°	4608.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1185	1189	1236	1277	1288	112
15°	1116	1250	1583	1873	1975	315
25°	1011	1328	1947	2185	2240	466
35°	882	1358	1813	1737	1747	552
45°	735	1244	1308	1216	1252	566
55°	561	904	828	801	822	500
65°	334	417	474	381	240	334
75°	162	168	199	141	98	172
85°	41	47	58	45	25	46
90°	0	10	18	12	0	2
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



TEST NUMBER: P256856

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7
2.5°	1189.4	1188.2	1184.6	1179.7	1180.9	1182.2	1182.2	1183.4	1184.6	1188.2	1195.4
5°	1184.6	1182.2	1180.9	1179.7	1185.8	1189.4	1193.0	1200.2	1208.7	1222.0	1236.4
7.5°	1172.5	1172.5	1174.9	1179.7	1193.0	1201.5	1208.7	1226.8	1247.3	1272.6	1300.4
10°	1156.8	1159.2	1166.5	1177.3	1201.5	1214.7	1229.2	1259.4	1294.3	1336.6	1382.4
12.5°	1137.5	1142.3	1154.4	1174.9	1211.1	1231.6	1253.3	1299.2	1351.0	1411.3	1478.9
15°	1115.8	1121.8	1141.1	1171.3	1220.8	1249.7	1279.9	1342.6	1413.8	1494.6	1582.6
17.5°	1092.9	1101.3	1127.9	1170.1	1234.0	1270.2	1308.8	1390.8	1482.5	1580.2	1688.8
20°	1067.6	1079.6	1113.4	1167.7	1246.1	1290.7	1337.8	1440.3	1552.5	1668.3	1794.9
22.5°	1038.6	1054.3	1096.5	1162.9	1258.1	1311.2	1366.7	1486.1	1616.4	1747.9	1885.4
25°	1010.9	1027.7	1077.2	1156.8	1267.8	1328.1	1392.0	1528.4	1674.3	1813.0	1946.9
27.5°	980.7	1000.0	1059.1	1150.8	1275.0	1342.6	1413.8	1563.3	1716.5	1854.0	1974.7
30°	946.9	972.3	1038.6	1141.1	1278.7	1353.4	1430.6	1591.1	1743.1	1863.7	1960.2
32.5°	915.6	943.3	1015.7	1130.3	1279.9	1359.5	1441.5	1599.5	1743.1	1842.0	1899.9
35°	881.8	911.9	992.8	1117.0	1275.0	1358.3	1440.3	1597.1	1717.7	1785.3	1813.0
37.5°	848.0	880.6	968.6	1098.9	1264.2	1349.8	1431.9	1573.0	1665.9	1702.1	1694.8
40°	810.6	846.8	937.3	1076.0	1244.9	1328.1	1406.5	1530.8	1589.9	1595.9	1569.4
42.5°	773.2	810.6	905.9	1045.8	1212.3	1291.9	1364.3	1463.2	1491.0	1477.7	1436.7
45°	734.6	773.2	868.5	1009.7	1171.3	1243.7	1304.0	1375.2	1375.2	1351.0	1307.6
47.5°	694.8	732.2	828.7	967.4	1118.2	1180.9	1230.4	1272.6	1253.3	1223.2	1179.7
50°	652.6	690.0	784.1	916.8	1049.5	1101.3	1142.3	1158.0	1127.9	1094.1	1055.5
52.5°	608.0	645.4	731.0	852.8	968.6	1007.2	1037.4	1036.2	1000.0	969.8	936.1
55°	560.9	594.7	671.9	776.8	872.1	903.5	921.6	907.1	873.3	845.6	827.5
57.5°	511.5	539.2	605.6	691.2	762.4	786.5	797.3	778.0	753.9	737.0	727.4
60°	456.0	478.9	525.9	592.3	644.2	661.0	668.3	655.0	646.6	641.7	639.3
62.5°	398.1	408.9	439.1	482.5	525.9	538.0	546.4	548.9	547.7	550.1	556.1
65°	334.1	337.8	347.4	369.1	402.9	417.4	433.1	449.9	459.6	469.2	474.1
67.5°	275.0	276.2	281.1	288.3	301.6	317.3	330.5	355.9	377.6	395.7	407.7
70°	232.8	231.6	232.8	236.4	243.7	249.7	255.7	273.8	296.7	326.9	329.3
72.5°	196.6	195.4	196.6	199.0	201.4	203.9	207.5	214.7	228.0	246.1	249.7
75°	161.6	161.6	161.6	164.1	166.5	167.7	170.1	172.5	177.3	190.6	199.0
77.5°	129.1	127.9	130.3	131.5	132.7	135.1	136.3	138.7	141.1	146.0	152.0
80°	97.7	96.5	97.7	100.1	101.3	103.7	103.7	107.4	108.6	112.2	114.6
82.5°	68.8	67.6	68.8	71.2	71.2	73.6	74.8	77.2	79.6	82.0	84.4
85°	41.0	41.0	42.2	43.4	44.6	47.0	48.3	51.9	54.3	56.7	57.9
87.5°	18.1	18.1	19.3	20.5	22.9	25.3	26.5	29.0	31.4	35.0	35.0
90°	0.0	1.2	3.6	6.0	7.2	9.7	9.7	13.3	14.5	16.9	18.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4	3.6	4.8
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°	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7	1179.7
2.5°	1206.3	1199.0	1203.9	1205.1	1206.3	1203.9	1201.5	1203.9	1201.5	1201.5
5°	1254.5	1253.3	1265.4	1273.8	1277.4	1277.4	1284.7	1289.5	1290.7	1288.3
7.5°	1330.5	1337.8	1361.9	1378.8	1388.4	1393.3	1406.5	1413.8	1423.4	1422.2
10°	1430.6	1453.6	1489.8	1513.9	1530.8	1539.2	1558.5	1571.8	1587.5	1586.3
12.5°	1540.4	1582.6	1633.3	1671.9	1697.2	1712.9	1738.2	1762.4	1776.8	1778.1
15°	1664.7	1722.6	1791.3	1840.8	1873.3	1893.9	1928.8	1953.0	1977.1	1974.7
17.5°	1786.5	1856.5	1939.7	2004.8	2035.0	2054.3	2096.5	2121.8	2144.8	2144.8
20°	1895.1	1975.9	2060.3	2120.6	2149.6	2168.9	2205.1	2230.4	2247.3	2253.3
22.5°	1981.9	2056.7	2127.9	2179.7	2197.8	2213.5	2241.3	2261.8	2272.6	2282.3
25°	2030.2	2090.5	2138.7	2174.9	2184.6	2193.0	2208.7	2224.4	2226.8	2240.1
27.5°	2031.4	2076.0	2102.5	2115.8	2117.0	2117.0	2127.9	2133.9	2138.7	2143.6
30°	1987.9	2008.5	2013.3	2014.5	2008.5	2004.8	2012.1	2013.3	2016.9	2016.9
32.5°	1901.1	1905.9	1897.5	1884.2	1880.6	1873.3	1878.2	1875.8	1881.8	1885.4
35°	1790.1	1781.7	1760.0	1750.3	1737.0	1733.4	1737.0	1734.6	1738.2	1746.7
37.5°	1663.5	1645.4	1627.3	1610.4	1600.7	1591.1	1594.7	1598.3	1603.1	1605.6
40°	1533.2	1509.1	1489.8	1472.9	1463.2	1456.0	1462.0	1465.6	1476.5	1476.5
42.5°	1401.7	1375.2	1355.9	1345.0	1337.8	1331.7	1341.4	1343.8	1357.1	1359.5
45°	1271.4	1248.5	1232.8	1222.0	1215.9	1218.3	1228.0	1234.0	1246.1	1252.1
47.5°	1152.0	1132.7	1115.8	1111.0	1111.0	1113.4	1123.0	1129.1	1138.7	1146.0
50°	1035.0	1020.5	1009.7	1003.6	1004.8	1008.4	1016.9	1021.7	1031.4	1031.4
52.5°	920.4	910.7	905.9	898.7	898.7	897.5	905.9	910.7	918.0	919.2
55°	820.3	811.8	807.0	802.2	801.0	803.4	808.2	811.8	820.3	821.5
57.5°	725.0	721.4	717.7	714.1	712.9	714.1	716.5	718.9	723.8	725.0
60°	638.1	636.9	632.1	628.5	627.3	626.1	624.9	623.6	626.1	624.9
62.5°	558.5	554.9	551.3	544.0	540.4	530.8	518.7	492.2	470.4	458.4
65°	480.1	477.7	460.8	411.3	381.2	342.6	301.6	261.8	248.5	240.0
67.5°	404.1	364.3	304.0	260.6	244.9	230.4	208.7	187.0	174.9	167.7
70°	290.7	256.9	229.2	205.1	194.2	185.8	168.9	153.2	142.3	137.5
72.5°	235.2	213.5	195.4	177.3	168.9	159.2	142.3	126.7	117.0	112.2
75°	196.6	183.4	165.3	148.4	141.1	133.9	121.8	109.8	101.3	97.7
77.5°	155.6	148.4	137.5	124.2	118.2	113.4	102.5	94.1	85.6	82.0
80°	114.6	112.2	104.9	95.3	90.5	86.9	78.4	71.2	63.9	61.5
82.5°	84.4	82.0	76.0	68.8	66.3	62.7	56.7	50.7	45.8	43.4
85°	57.9	56.7	51.9	47.0	44.6	42.2	36.2	31.4	27.7	25.3
87.5°	36.2	35.0	32.6	27.7	25.3	22.9	18.1	14.5	10.9	9.7
90°	18.1	18.1	16.9	13.3	12.1	10.9	7.2	3.6	1.2	0.0
92.5°	4.8	4.8	4.8	3.6	3.6	2.4	1.2	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: P256856

CATALOG NUMBER: HGL-S-BA-50L830-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)