

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: P256903

Luminaire Tested: **HGL-S-BA-30L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256903
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-30L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4633.9 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

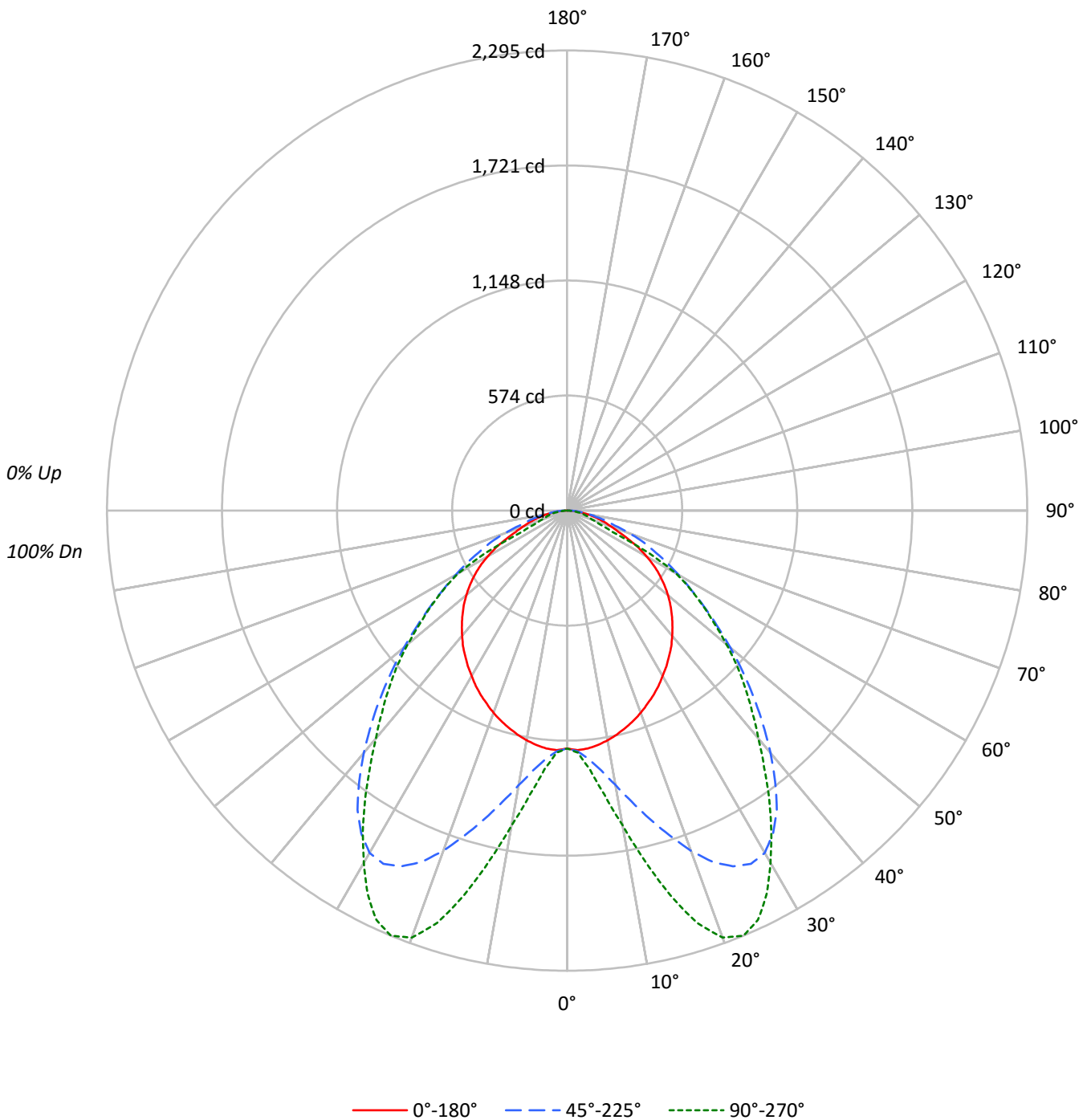
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6965	6965	6965
5°	7020	7307	7606
10°	6934	8241	9437
15°	6818	9592	11930
20°	6704	11148	13936
25°	6581	12498	14301
30°	6451	13123	13412
35°	6350	12783	12216
40°	6241	11781	10977
45°	6126	10582	10017
50°	5985	9341	9005
55°	5763	8148	7960
60°	5372	7156	6859
65°	4655	6201	3067
70°	4005	5228	2120
75°	3669	4058	1918
80°	3300	3301	1678
85°	2736	2877	1146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	2.7
10°-20°	448.6	9.7
20°-30°	811.9	17.5
30°-40°	974.4	21.0
40°-50°	923.1	19.9
50°-60°	723.2	15.6
60°-70°	403.6	8.7
70°-80°	171.1	3.7
80°-90°	53.2	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°	1383.5	29.9
0°-40°	2357.8	50.9
0°-60°	4004.1	86.4
0°-90°	4632.0	100.0
90°-120°	1.9	0.0
90°-150°	1.9	0.0
90°-180°	2.0	0.0
0°-180°	4633.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1191	1196	1243	1285	1296	113
15°	1122	1257	1592	1884	1986	316
25°	1016	1336	1958	2197	2252	468
35°	887	1366	1823	1747	1756	555
45°	739	1251	1315	1223	1259	570
55°	564	908	832	805	826	502
65°	336	420	477	383	241	336
75°	162	169	200	142	98	173
85°	41	47	58	45	26	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3
2.5°	1196.0	1194.8	1191.2	1186.3	1187.5	1188.7	1188.7	1189.9	1191.2	1194.8	1202.1
5°	1191.2	1188.7	1187.5	1186.3	1192.4	1196.0	1199.7	1206.9	1215.4	1228.8	1243.3
7.5°	1179.0	1179.0	1181.5	1186.3	1199.7	1208.1	1215.4	1233.6	1254.2	1279.7	1307.6
10°	1163.3	1165.7	1173.0	1183.9	1208.1	1221.5	1236.0	1266.4	1301.5	1344.0	1390.1
12.5°	1143.9	1148.7	1160.8	1181.5	1217.8	1238.5	1260.3	1306.4	1358.6	1419.2	1487.1
15°	1122.0	1128.1	1147.5	1177.8	1227.6	1256.7	1287.0	1350.1	1421.6	1502.9	1591.5
17.5°	1099.0	1107.5	1134.2	1176.6	1240.9	1277.3	1316.1	1398.6	1490.8	1589.0	1698.2
20°	1073.5	1085.6	1119.6	1174.2	1253.0	1297.9	1345.2	1448.3	1561.1	1677.6	1804.9
22.5°	1044.4	1060.2	1102.6	1169.3	1265.2	1318.5	1374.3	1494.4	1625.4	1757.6	1895.9
25°	1016.5	1033.5	1083.2	1163.3	1274.9	1335.5	1399.8	1536.9	1683.6	1823.1	1957.8
27.5°	986.2	1005.6	1065.0	1157.2	1282.1	1350.1	1421.6	1572.0	1726.1	1864.4	1985.7
30°	952.2	977.7	1044.4	1147.5	1285.8	1361.0	1438.6	1599.9	1752.8	1874.1	1971.1
32.5°	920.7	948.6	1021.3	1136.6	1287.0	1367.0	1449.5	1608.4	1752.8	1852.2	1910.5
35°	886.7	917.0	998.3	1123.2	1282.1	1365.8	1448.3	1606.0	1727.3	1795.2	1823.1
37.5°	852.7	885.5	974.0	1105.0	1271.2	1357.3	1439.8	1581.7	1675.1	1711.5	1704.3
40°	815.1	851.5	942.5	1082.0	1251.8	1335.5	1414.4	1539.3	1598.7	1604.8	1578.1
42.5°	777.5	815.1	911.0	1051.7	1219.1	1299.1	1371.9	1471.4	1499.3	1485.9	1444.7
45°	738.7	777.5	873.4	1015.3	1177.8	1250.6	1311.2	1382.8	1382.8	1358.6	1314.9
47.5°	698.7	736.3	833.3	972.8	1124.4	1187.5	1237.3	1279.7	1260.3	1230.0	1186.3
50°	656.2	693.8	788.4	921.9	1055.3	1107.5	1148.7	1164.5	1134.2	1100.2	1061.4
52.5°	611.3	649.0	735.1	857.6	974.0	1012.9	1043.2	1042.0	1005.6	975.2	941.3
55°	564.0	598.0	675.6	781.2	877.0	908.5	926.7	912.2	878.2	850.3	832.1
57.5°	514.3	542.2	608.9	695.0	766.6	790.9	801.8	782.4	758.1	741.1	731.4
60°	458.5	481.6	528.9	595.6	647.7	664.7	672.0	658.7	650.2	645.3	642.9
62.5°	400.3	411.2	441.5	485.2	528.9	541.0	549.5	551.9	550.7	553.1	559.2
65°	336.0	339.6	349.3	371.2	405.1	419.7	435.5	452.4	462.2	471.9	476.7
67.5°	276.6	277.8	282.6	289.9	303.2	319.0	332.4	357.8	379.7	397.9	410.0
70°	234.1	232.9	234.1	237.7	245.0	251.1	257.2	275.4	298.4	328.7	331.1
72.5°	197.7	196.5	197.7	200.1	202.6	205.0	208.6	215.9	229.3	247.5	251.1
75°	162.5	162.5	162.5	165.0	167.4	168.6	171.0	173.5	178.3	191.7	200.1
77.5°	129.8	128.6	131.0	132.2	133.4	135.9	137.1	139.5	141.9	146.8	152.8
80°	98.3	97.0	98.3	100.7	101.9	104.3	104.3	108.0	109.2	112.8	115.2
82.5°	69.1	67.9	69.1	71.6	71.6	74.0	75.2	77.6	80.1	82.5	84.9
85°	41.2	41.2	42.5	43.7	44.9	47.3	48.5	52.2	54.6	57.0	58.2
87.5°	18.2	18.2	19.4	20.6	23.0	25.5	26.7	29.1	31.5	35.2	35.2
90°	0.0	1.2	3.6	6.1	7.3	9.7	9.7	13.3	14.6	17.0	18.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.4	3.6	4.9
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°	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3
2.5°	1213.0	1205.7	1210.6	1211.8	1213.0	1210.6	1208.1	1210.6	1208.1	1208.1
5°	1261.5	1260.3	1272.4	1280.9	1284.6	1284.6	1291.8	1296.7	1297.9	1295.5
7.5°	1337.9	1345.2	1369.5	1386.5	1396.2	1401.0	1414.4	1421.6	1431.3	1430.1
10°	1438.6	1461.7	1498.0	1522.3	1539.3	1547.8	1567.2	1580.5	1596.3	1595.1
12.5°	1549.0	1591.5	1642.4	1681.2	1706.7	1722.5	1747.9	1772.2	1786.7	1788.0
15°	1673.9	1732.2	1801.3	1851.0	1883.8	1904.4	1939.6	1963.8	1988.1	1985.7
17.5°	1796.4	1866.8	1950.5	2016.0	2046.3	2065.7	2108.2	2133.7	2156.7	2156.7
20°	1905.6	1986.9	2071.8	2132.4	2161.6	2181.0	2217.4	2242.8	2259.8	2265.9
22.5°	1993.0	2068.2	2139.7	2191.9	2210.1	2225.8	2253.7	2274.4	2285.3	2295.0
25°	2041.5	2102.1	2150.6	2187.0	2196.7	2205.2	2221.0	2236.8	2239.2	2252.5
27.5°	2042.7	2087.6	2114.3	2127.6	2128.8	2128.8	2139.7	2145.8	2150.6	2155.5
30°	1999.0	2019.6	2024.5	2025.7	2019.6	2016.0	2023.3	2024.5	2028.1	2028.1
32.5°	1911.7	1916.5	1908.0	1894.7	1891.1	1883.8	1888.6	1886.2	1892.3	1895.9
35°	1800.1	1791.6	1769.8	1760.1	1746.7	1743.1	1746.7	1744.3	1747.9	1756.4
37.5°	1672.7	1654.5	1636.3	1619.3	1609.6	1599.9	1603.6	1607.2	1612.1	1614.5
40°	1541.7	1517.5	1498.0	1481.1	1471.4	1464.1	1470.2	1473.8	1484.7	1484.7
42.5°	1409.5	1382.8	1363.4	1352.5	1345.2	1339.1	1348.9	1351.3	1364.6	1367.0
45°	1278.5	1255.5	1239.7	1228.8	1222.7	1225.1	1234.8	1240.9	1253.0	1259.1
47.5°	1158.4	1139.0	1122.0	1117.2	1117.2	1119.6	1129.3	1135.4	1145.1	1152.3
50°	1040.8	1026.2	1015.3	1009.2	1010.4	1014.1	1022.6	1027.4	1037.1	1037.1
52.5°	925.5	915.8	911.0	903.7	903.7	902.5	911.0	915.8	923.1	924.3
55°	824.8	816.3	811.5	806.6	805.4	807.9	812.7	816.3	824.8	826.1
57.5°	729.0	725.4	721.7	718.1	716.9	718.1	720.5	722.9	727.8	729.0
60°	641.7	640.5	635.6	632.0	630.8	629.5	628.3	627.1	629.5	628.3
62.5°	561.6	558.0	554.3	547.1	543.4	533.7	521.6	494.9	473.1	460.9
65°	482.8	480.3	463.4	413.6	383.3	344.5	303.2	263.2	249.9	241.4
67.5°	406.4	366.3	305.7	262.0	246.2	231.7	209.8	188.0	175.9	168.6
70°	292.3	258.4	230.5	206.2	195.3	186.8	169.8	154.1	143.1	138.3
72.5°	236.5	214.7	196.5	178.3	169.8	160.1	143.1	127.4	117.7	112.8
75°	197.7	184.4	166.2	149.2	141.9	134.6	122.5	110.4	101.9	98.3
77.5°	156.5	149.2	138.3	124.9	118.9	114.0	103.1	94.6	86.1	82.5
80°	115.2	112.8	105.5	95.8	91.0	87.3	78.8	71.6	64.3	61.9
82.5°	84.9	82.5	76.4	69.1	66.7	63.1	57.0	50.9	46.1	43.7
85°	58.2	57.0	52.2	47.3	44.9	42.5	36.4	31.5	27.9	25.5
87.5°	36.4	35.2	32.8	27.9	25.5	23.0	18.2	14.6	10.9	9.7
90°	18.2	18.2	17.0	13.3	12.1	10.9	7.3	3.6	1.2	0.0
92.5°	4.9	4.9	4.9	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: P256903

CATALOG NUMBER: HGL-S-BA-30L940-UNV-8

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)