

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: P256875

Luminaire Tested: **HGL-S-BA-60L930-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256875  
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-60L930-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (168) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

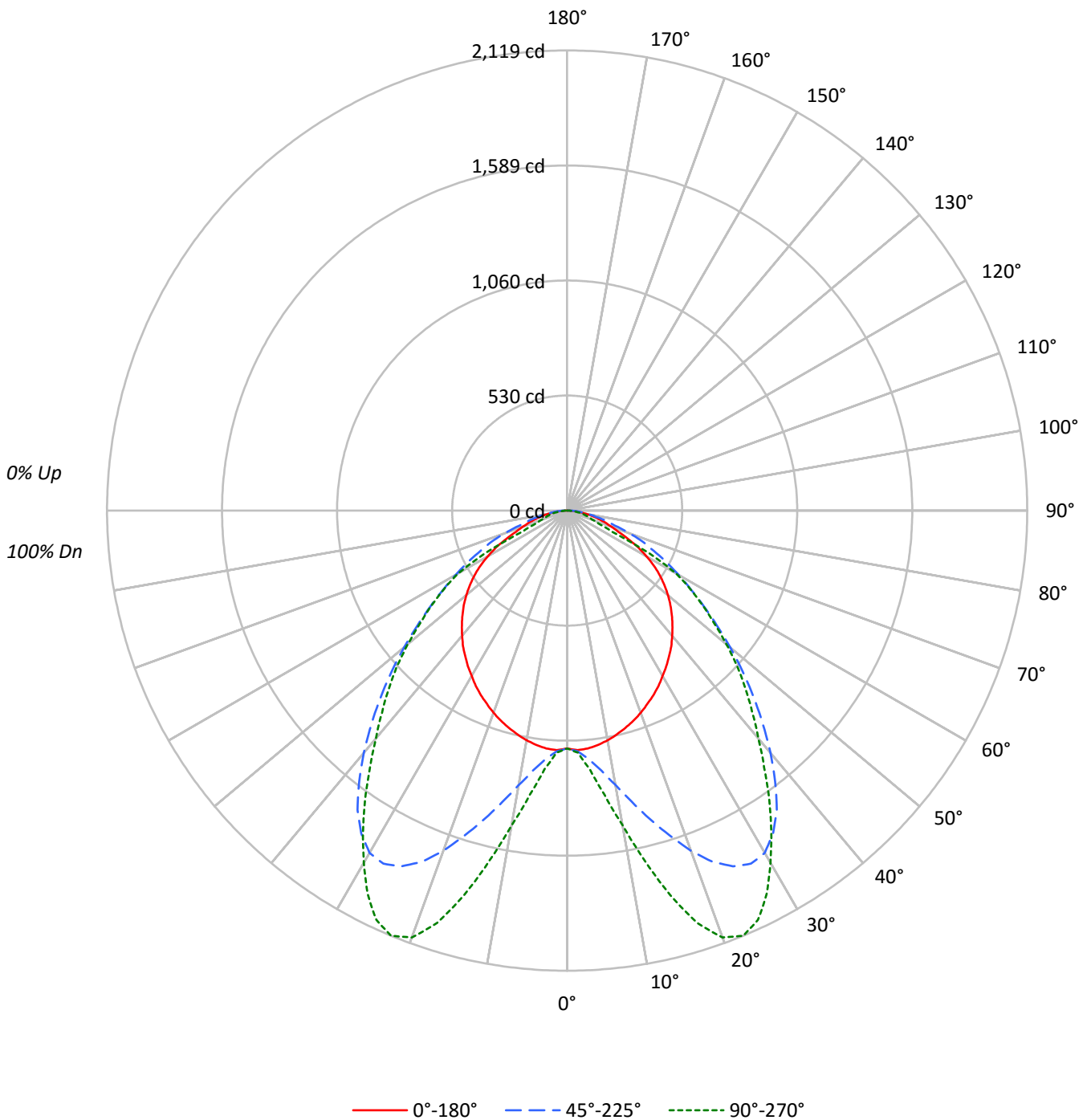
Lumens per Lamp: N/A  
Luminaire Lumens: 4278.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')  
CIE Type: Direct

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°	12861	12861	12861
5°	12961	13492	14045
10°	12800	15215	17426
15°	12585	17707	22029
20°	12374	20579	25733
25°	12145	23069	26408
30°	11903	24220	24765
35°	11715	23590	22556
40°	11512	21739	20270
45°	11297	19523	18498
50°	11036	17231	16627
55°	10624	15029	14698
60°	9898	13195	12666
65°	8573	11429	5663
70°	7369	9632	3915
75°	6747	7474	3539
80°	6048	6072	3095
85°	4991	5280	2112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	2.7
10°-20°	414.2	9.7
20°-30°	749.6	17.5
30°-40°	899.6	21.0
40°-50°	852.2	19.9
50°-60°	667.7	15.6
60°-70°	372.7	8.7
70°-80°	157.9	3.7
80°-90°	49.1	1.1
90°-100°	1.8	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°	1277.3	29.9
0°-40°	2176.9	50.9
0°-60°	3696.9	86.4
0°-90°	4276.6	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	4278.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1100	1104	1148	1186	1196	104
15°	1036	1160	1469	1739	1833	292
25°	938	1233	1808	2028	2080	432
35°	819	1261	1683	1613	1622	512
45°	682	1155	1214	1129	1162	526
55°	521	839	768	744	763	464
65°	310	388	440	354	223	310
75°	150	156	185	131	91	160
85°	38	44	54	41	24	42
90°	0	9	17	11	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°	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3
2.5°	1104.2	1103.1	1099.8	1095.3	1096.4	1097.5	1097.5	1098.6	1099.8	1103.1	1109.8
5°	1099.8	1097.5	1096.4	1095.3	1100.9	1104.2	1107.6	1114.3	1122.2	1134.5	1147.9
7.5°	1088.6	1088.6	1090.8	1095.3	1107.6	1115.4	1122.2	1139.0	1158.0	1181.5	1207.3
10°	1074.0	1076.2	1083.0	1093.0	1115.4	1127.8	1141.2	1169.2	1201.7	1240.9	1283.4
12.5°	1056.1	1060.6	1071.8	1090.8	1124.4	1143.4	1163.6	1206.2	1254.3	1310.3	1373.0
15°	1035.9	1041.5	1059.4	1087.4	1133.4	1160.2	1188.2	1246.5	1312.5	1387.6	1469.3
17.5°	1014.6	1022.5	1047.1	1086.3	1145.7	1179.3	1215.1	1291.3	1376.4	1467.1	1567.9
20°	991.1	1002.3	1033.7	1084.1	1156.9	1198.3	1242.0	1337.2	1441.3	1548.9	1666.4
22.5°	964.3	978.8	1018.0	1079.6	1168.1	1217.4	1268.9	1379.7	1500.7	1622.8	1750.4
25°	938.5	954.2	1000.1	1074.0	1177.0	1233.0	1292.4	1418.9	1554.4	1683.2	1807.6
27.5°	910.5	928.4	983.3	1068.4	1183.8	1246.5	1312.5	1451.4	1593.6	1721.3	1833.3
30°	879.1	902.7	964.3	1059.4	1187.1	1256.6	1328.2	1477.2	1618.3	1730.3	1819.9
32.5°	850.0	875.8	943.0	1049.4	1188.2	1262.2	1338.3	1485.0	1618.3	1710.1	1763.9
35°	818.7	846.7	921.7	1037.0	1183.8	1261.0	1337.2	1482.8	1594.8	1657.5	1683.2
37.5°	787.3	817.5	899.3	1020.2	1173.7	1253.2	1329.3	1460.4	1546.6	1580.2	1573.5
40°	752.6	786.2	870.2	999.0	1155.8	1233.0	1305.8	1421.2	1476.1	1481.7	1457.0
42.5°	717.9	752.6	841.1	971.0	1125.5	1199.4	1266.6	1358.5	1384.2	1371.9	1333.8
45°	682.0	717.9	806.3	937.4	1087.4	1154.6	1210.6	1276.7	1276.7	1254.3	1214.0
47.5°	645.1	679.8	769.4	898.2	1038.2	1096.4	1142.3	1181.5	1163.6	1135.6	1095.3
50°	605.9	640.6	727.9	851.1	974.3	1022.5	1060.6	1075.1	1047.1	1015.8	979.9
52.5°	564.4	599.2	678.7	791.8	899.3	935.1	963.1	962.0	928.4	900.4	869.1
55°	520.8	552.1	623.8	721.2	809.7	838.8	855.6	842.2	810.8	785.1	768.3
57.5°	474.8	500.6	562.2	641.7	707.8	730.2	740.3	722.3	700.0	684.3	675.3
60°	423.3	444.6	488.3	549.9	598.0	613.7	620.4	608.1	600.3	595.8	593.6
62.5°	369.6	379.7	407.7	448.0	488.3	499.5	507.3	509.6	508.4	510.7	516.3
65°	310.2	313.6	322.5	342.7	374.1	387.5	402.1	417.7	426.7	435.6	440.1
67.5°	255.3	256.5	260.9	267.7	280.0	294.5	306.9	330.4	350.5	367.3	378.5
70°	216.1	215.0	216.1	219.5	226.2	231.8	237.4	254.2	275.5	303.5	305.7
72.5°	182.5	181.4	182.5	184.8	187.0	189.3	192.6	199.3	211.7	228.5	231.8
75°	150.1	150.1	150.1	152.3	154.5	155.7	157.9	160.1	164.6	176.9	184.8
77.5°	119.8	118.7	121.0	122.1	123.2	125.4	126.6	128.8	131.0	135.5	141.1
80°	90.7	89.6	90.7	93.0	94.1	96.3	96.3	99.7	100.8	104.2	106.4
82.5°	63.8	62.7	63.8	66.1	66.1	68.3	69.4	71.7	73.9	76.2	78.4
85°	38.1	38.1	39.2	40.3	41.4	43.7	44.8	48.2	50.4	52.6	53.8
87.5°	16.8	16.8	17.9	19.0	21.3	23.5	24.6	26.9	29.1	32.5	32.5
90°	0.0	1.1	3.4	5.6	6.7	9.0	9.0	12.3	13.4	15.7	16.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	3.4	4.5
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°	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3	1095.3
2.5°	1119.9	1113.2	1117.7	1118.8	1119.9	1117.7	1115.4	1117.7	1115.4	1115.4
5°	1164.7	1163.6	1174.8	1182.6	1186.0	1186.0	1192.7	1197.2	1198.3	1196.1
7.5°	1235.3	1242.0	1264.4	1280.1	1289.0	1293.5	1305.8	1312.5	1321.5	1320.4
10°	1328.2	1349.5	1383.1	1405.5	1421.2	1429.0	1446.9	1459.3	1473.8	1472.7
12.5°	1430.1	1469.3	1516.4	1552.2	1575.7	1590.3	1613.8	1636.2	1649.6	1650.8
15°	1545.5	1599.2	1663.1	1709.0	1739.2	1758.3	1790.8	1813.2	1835.6	1833.3
17.5°	1658.6	1723.6	1800.8	1861.3	1889.3	1907.2	1946.4	1969.9	1991.2	1991.2
20°	1759.4	1834.4	1912.8	1968.8	1995.7	2013.6	2047.2	2070.7	2086.4	2092.0
22.5°	1840.0	1909.5	1975.5	2023.7	2040.5	2055.1	2080.8	2099.9	2109.9	2118.9
25°	1884.8	1940.8	1985.6	2019.2	2028.2	2036.0	2050.6	2065.1	2067.4	2079.7
27.5°	1885.9	1927.4	1952.0	1964.3	1965.5	1965.5	1975.5	1981.1	1985.6	1990.1
30°	1845.6	1864.7	1869.1	1870.3	1864.7	1861.3	1868.0	1869.1	1872.5	1872.5
32.5°	1765.0	1769.5	1761.6	1749.3	1746.0	1739.2	1743.7	1741.5	1747.1	1750.4
35°	1662.0	1654.1	1634.0	1625.0	1612.7	1609.3	1612.7	1610.4	1613.8	1621.6
37.5°	1544.4	1527.6	1510.8	1495.1	1486.1	1477.2	1480.5	1483.9	1488.4	1490.6
40°	1423.4	1401.0	1383.1	1367.4	1358.5	1351.7	1357.3	1360.7	1370.8	1370.8
42.5°	1301.3	1276.7	1258.8	1248.7	1242.0	1236.4	1245.4	1247.6	1259.9	1262.2
45°	1180.4	1159.1	1144.6	1134.5	1128.9	1131.1	1140.1	1145.7	1156.9	1162.5
47.5°	1069.5	1051.6	1035.9	1031.4	1031.4	1033.7	1042.6	1048.2	1057.2	1063.9
50°	960.9	947.5	937.4	931.8	932.9	936.3	944.1	948.6	957.5	957.5
52.5°	854.5	845.5	841.1	834.3	834.3	833.2	841.1	845.5	852.3	853.4
55°	761.5	753.7	749.2	744.7	743.6	745.9	750.3	753.7	761.5	762.7
57.5°	673.1	669.7	666.4	663.0	661.9	663.0	665.2	667.5	672.0	673.1
60°	592.4	591.3	586.8	583.5	582.4	581.2	580.1	579.0	581.2	580.1
62.5°	518.5	515.2	511.8	505.1	501.7	492.8	481.6	456.9	436.8	425.6
65°	445.7	443.5	427.8	381.9	353.9	318.1	280.0	243.0	230.7	222.9
67.5°	375.2	338.2	282.2	241.9	227.3	213.9	193.7	173.6	162.4	155.7
70°	269.9	238.5	212.8	190.4	180.3	172.5	156.8	142.2	132.2	127.7
72.5°	218.4	198.2	181.4	164.6	156.8	147.8	132.2	117.6	108.6	104.2
75°	182.5	170.2	153.4	137.8	131.0	124.3	113.1	101.9	94.1	90.7
77.5°	144.5	137.8	127.7	115.4	109.8	105.3	95.2	87.4	79.5	76.2
80°	106.4	104.2	97.4	88.5	84.0	80.6	72.8	66.1	59.4	57.1
82.5°	78.4	76.2	70.6	63.8	61.6	58.2	52.6	47.0	42.6	40.3
85°	53.8	52.6	48.2	43.7	41.4	39.2	33.6	29.1	25.8	23.5
87.5°	33.6	32.5	30.2	25.8	23.5	21.3	16.8	13.4	10.1	9.0
90°	16.8	16.8	15.7	12.3	11.2	10.1	6.7	3.4	1.1	0.0
92.5°	4.5	4.5	4.5	3.4	3.4	2.2	1.1	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: P256875

CATALOG NUMBER: HGL-S-BA-60L930-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)