

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: P256879

Luminaire Tested: **HGL-S-BA-50L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256879
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-50L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3662.2 lumens
Efficiency: N/A
Efficacy: 95.1 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

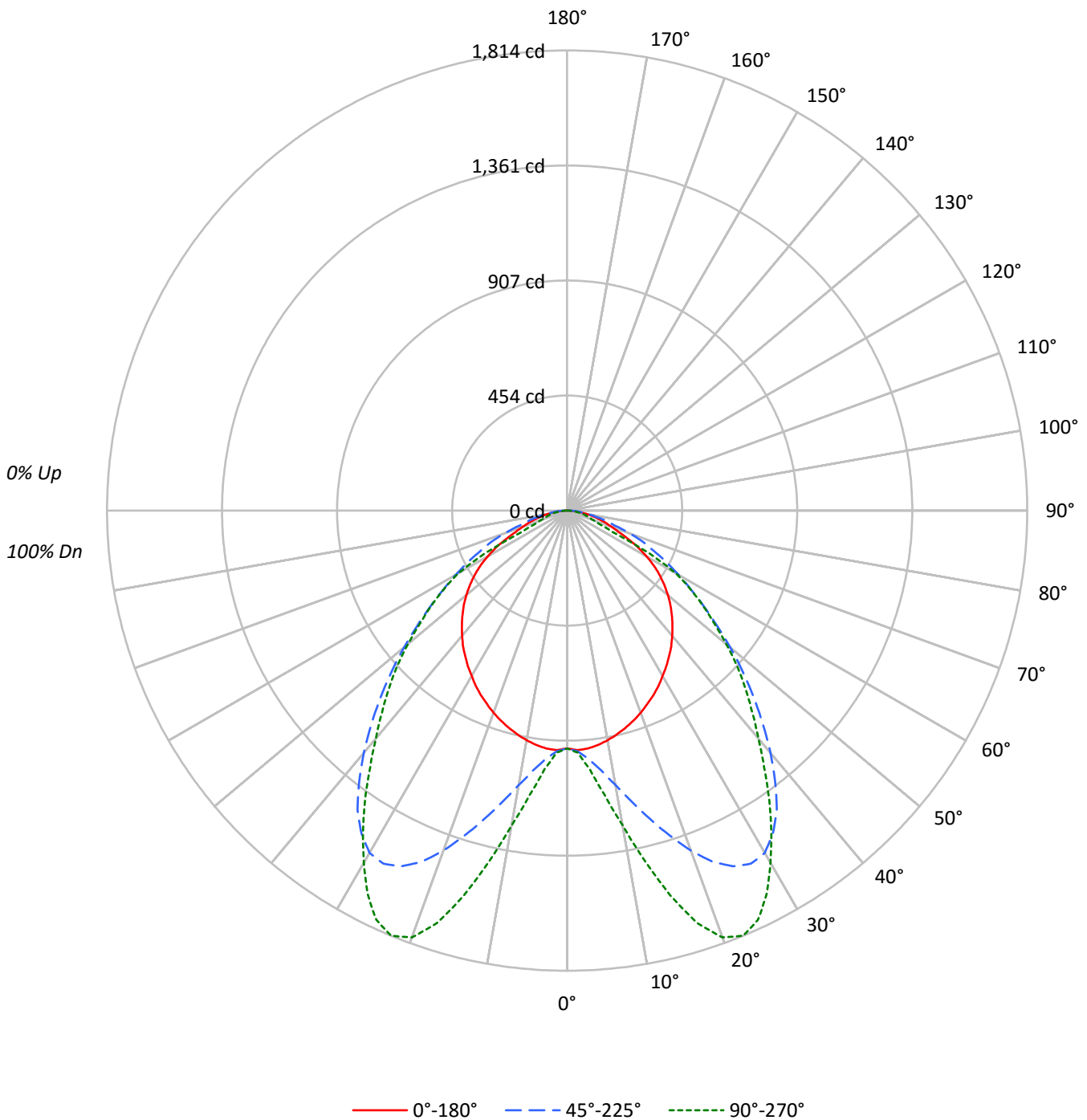
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	11009	11009	11009
5°	11094	11549	12022
10°	10957	13024	14916
15°	10772	15157	18857
20°	10592	17615	22027
25°	10396	19746	22605
30°	10188	20732	21198
35°	10028	20192	19308
40°	9854	18609	17351
45°	9671	16710	15834
50°	9446	14750	14232
55°	9094	12863	12580
60°	8474	11294	10843
65°	7338	9782	4848
70°	6308	8246	3351
75°	5776	6398	3028
80°	5174	5199	2651
85°	4270	4514	1807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	2.7
10°-20°	354.5	9.7
20°-30°	641.7	17.5
30°-40°	770.0	21.0
40°-50°	729.5	19.9
50°-60°	571.6	15.6
60°-70°	319.0	8.7
70°-80°	135.2	3.7
80°-90°	42.1	1.1
90°-100°	1.5	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°	1093.3	29.9
0°-40°	1863.4	50.9
0°-60°	3164.4	86.4
0°-90°	3660.7	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	2.0	0.1
0°-180°	3662.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	941	945	983	1015	1024	89
15°	887	993	1258	1489	1569	250
25°	803	1055	1547	1736	1780	370
35°	701	1079	1441	1380	1388	439
45°	584	988	1039	966	995	450
55°	446	718	658	636	653	397
65°	266	332	377	303	191	265
75°	128	133	158	112	78	137
85°	33	37	46	36	20	36
90°	0	8	14	10	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: P256879

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5
2.5°	945.2	944.2	941.4	937.5	938.5	939.5	939.5	940.4	941.4	944.2	950.0
5°	941.4	939.5	938.5	937.5	942.3	945.2	948.1	953.8	960.5	971.1	982.6
7.5°	931.8	931.8	933.7	937.5	948.1	954.8	960.5	974.9	991.2	1011.3	1033.4
10°	919.3	921.2	927.0	935.6	954.8	965.3	976.8	1000.8	1028.6	1062.2	1098.6
12.5°	904.0	907.8	917.4	933.7	962.5	978.8	996.0	1032.4	1073.7	1121.6	1175.3
15°	886.7	891.5	906.9	930.8	970.1	993.1	1017.1	1066.9	1123.5	1187.7	1257.7
17.5°	868.5	875.2	896.3	929.9	980.7	1009.4	1040.1	1105.3	1178.1	1255.8	1342.1
20°	848.4	858.0	884.8	927.9	990.3	1025.7	1063.1	1144.6	1233.7	1325.8	1426.4
22.5°	825.4	837.8	871.4	924.1	999.8	1042.0	1086.1	1181.0	1284.6	1389.0	1498.3
25°	803.3	816.7	856.1	919.3	1007.5	1055.4	1106.3	1214.6	1330.6	1440.8	1547.2
27.5°	779.4	794.7	841.7	914.5	1013.3	1066.9	1123.5	1242.4	1364.1	1473.4	1569.3
30°	752.5	772.7	825.4	906.9	1016.1	1075.6	1136.9	1264.4	1385.2	1481.1	1557.8
32.5°	727.6	749.6	807.2	898.2	1017.1	1080.4	1145.6	1271.1	1385.2	1463.8	1509.8
35°	700.8	724.7	788.9	887.7	1013.3	1079.4	1144.6	1269.2	1365.1	1418.8	1440.8
37.5°	673.9	699.8	769.8	873.3	1004.6	1072.7	1137.9	1250.0	1323.9	1352.6	1346.9
40°	644.2	673.0	744.9	855.1	989.3	1055.4	1117.8	1216.5	1263.5	1268.3	1247.2
42.5°	614.5	644.2	719.9	831.1	963.4	1026.7	1084.2	1162.8	1184.9	1174.3	1141.7
45°	583.8	614.5	690.2	802.4	930.8	988.3	1036.3	1092.8	1092.8	1073.7	1039.1
47.5°	552.2	581.9	658.6	768.8	888.6	938.5	977.8	1011.3	996.0	972.0	937.5
50°	518.6	548.3	623.1	728.6	834.0	875.2	907.8	920.3	896.3	869.5	838.8
52.5°	483.1	512.9	580.9	677.7	769.8	800.5	824.4	823.5	794.7	770.7	743.9
55°	445.8	472.6	534.0	617.4	693.1	718.0	732.4	720.9	694.0	672.0	657.6
57.5°	406.5	428.5	481.2	549.3	605.9	625.0	633.7	618.3	599.1	585.7	578.1
60°	362.4	380.6	418.0	470.7	511.9	525.3	531.1	520.5	513.8	510.0	508.1
62.5°	316.3	325.0	348.9	383.4	418.0	427.5	434.3	436.2	435.2	437.1	441.9
65°	265.5	268.4	276.1	293.3	320.2	331.7	344.1	357.6	365.2	372.9	376.7
67.5°	218.6	219.5	223.4	229.1	239.7	252.1	262.7	282.8	300.0	314.4	324.0
70°	185.0	184.1	185.0	187.9	193.6	198.4	203.2	217.6	235.8	259.8	261.7
72.5°	156.3	155.3	156.3	158.2	160.1	162.0	164.9	170.6	181.2	195.6	198.4
75°	128.5	128.5	128.5	130.4	132.3	133.2	135.2	137.1	140.9	151.5	158.2
77.5°	102.6	101.6	103.5	104.5	105.4	107.4	108.3	110.2	112.2	116.0	120.8
80°	77.6	76.7	77.6	79.6	80.5	82.4	82.4	85.3	86.3	89.2	91.1
82.5°	54.6	53.7	54.6	56.6	56.6	58.5	59.4	61.4	63.3	65.2	67.1
85°	32.6	32.6	33.6	34.5	35.5	37.4	38.3	41.2	43.1	45.1	46.0
87.5°	14.4	14.4	15.3	16.3	18.2	20.1	21.1	23.0	24.9	27.8	27.8
90°	0.0	1.0	2.9	4.8	5.8	7.7	7.7	10.5	11.5	13.4	14.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9	3.8
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°	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5
2.5°	958.6	952.9	956.7	957.7	958.6	956.7	954.8	956.7	954.8	954.8
5°	997.0	996.0	1005.6	1012.3	1015.2	1015.2	1020.9	1024.8	1025.7	1023.8
7.5°	1057.4	1063.1	1082.3	1095.7	1103.4	1107.2	1117.8	1123.5	1131.2	1130.2
10°	1136.9	1155.1	1183.9	1203.1	1216.5	1223.2	1238.5	1249.1	1261.6	1260.6
12.5°	1224.2	1257.7	1298.0	1328.7	1348.8	1361.2	1381.4	1400.6	1412.1	1413.0
15°	1322.9	1368.9	1423.6	1462.9	1488.7	1505.0	1532.8	1552.0	1571.2	1569.3
17.5°	1419.7	1475.3	1541.5	1593.2	1617.2	1632.5	1666.1	1686.2	1704.4	1704.4
20°	1506.0	1570.2	1637.3	1685.3	1708.3	1723.6	1752.4	1772.5	1785.9	1790.7
22.5°	1575.0	1634.5	1691.0	1732.2	1746.6	1759.1	1781.1	1797.4	1806.0	1813.7
25°	1613.4	1661.3	1699.6	1728.4	1736.1	1742.8	1755.2	1767.7	1769.6	1780.2
27.5°	1614.3	1649.8	1670.9	1681.4	1682.4	1682.4	1691.0	1695.8	1699.6	1703.5
30°	1579.8	1596.1	1599.9	1600.9	1596.1	1593.2	1599.0	1599.9	1602.8	1602.8
32.5°	1510.8	1514.6	1507.9	1497.4	1494.5	1488.7	1492.6	1490.7	1495.5	1498.3
35°	1422.6	1415.9	1398.6	1391.0	1380.4	1377.5	1380.4	1378.5	1381.4	1388.1
37.5°	1321.9	1307.6	1293.2	1279.8	1272.1	1264.4	1267.3	1270.2	1274.0	1275.9
40°	1218.4	1199.2	1183.9	1170.5	1162.8	1157.1	1161.9	1164.7	1173.4	1173.4
42.5°	1113.9	1092.8	1077.5	1068.9	1063.1	1058.3	1066.0	1067.9	1078.5	1080.4
45°	1010.4	992.2	979.7	971.1	966.3	968.2	975.9	980.7	990.3	995.1
47.5°	915.5	900.1	886.7	882.9	882.9	884.8	892.5	897.3	904.9	910.7
50°	822.5	811.0	802.4	797.6	798.5	801.4	808.1	812.0	819.6	819.6
52.5°	731.4	723.8	719.9	714.2	714.2	713.2	719.9	723.8	729.5	730.5
55°	651.9	645.2	641.3	637.5	636.5	638.4	642.3	645.2	651.9	652.8
57.5°	576.1	573.3	570.4	567.5	566.5	567.5	569.4	571.3	575.2	576.1
60°	507.1	506.2	502.3	499.4	498.5	497.5	496.6	495.6	497.5	496.6
62.5°	443.8	441.0	438.1	432.3	429.5	421.8	412.2	391.1	373.9	364.3
65°	381.5	379.6	366.2	326.9	302.9	272.2	239.7	208.0	197.5	190.8
67.5°	321.1	289.5	241.6	207.1	194.6	183.1	165.8	148.6	139.0	133.2
70°	231.0	204.2	182.1	163.0	154.3	147.6	134.2	121.7	113.1	109.3
72.5°	186.9	169.7	155.3	140.9	134.2	126.5	113.1	100.7	93.0	89.2
75°	156.3	145.7	131.3	117.9	112.2	106.4	96.8	87.2	80.5	77.6
77.5°	123.7	117.9	109.3	98.7	93.9	90.1	81.5	74.8	68.1	65.2
80°	91.1	89.2	83.4	75.7	71.9	69.0	62.3	56.6	50.8	48.9
82.5°	67.1	65.2	60.4	54.6	52.7	49.8	45.1	40.3	36.4	34.5
85°	46.0	45.1	41.2	37.4	35.5	33.6	28.8	24.9	22.0	20.1
87.5°	28.8	27.8	25.9	22.0	20.1	18.2	14.4	11.5	8.6	7.7
90°	14.4	14.4	13.4	10.5	9.6	8.6	5.8	2.9	1.0	0.0
92.5°	3.8	3.8	3.8	2.9	2.9	1.9	1.0	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: P256879

CATALOG NUMBER: HGL-S-BA-50L940-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)