

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: P256873

Luminaire Tested: **HGL-S-BA-50L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256873
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-50L930-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: 3540.8 lumens
Efficiency: N/A
Efficacy: 92.0 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

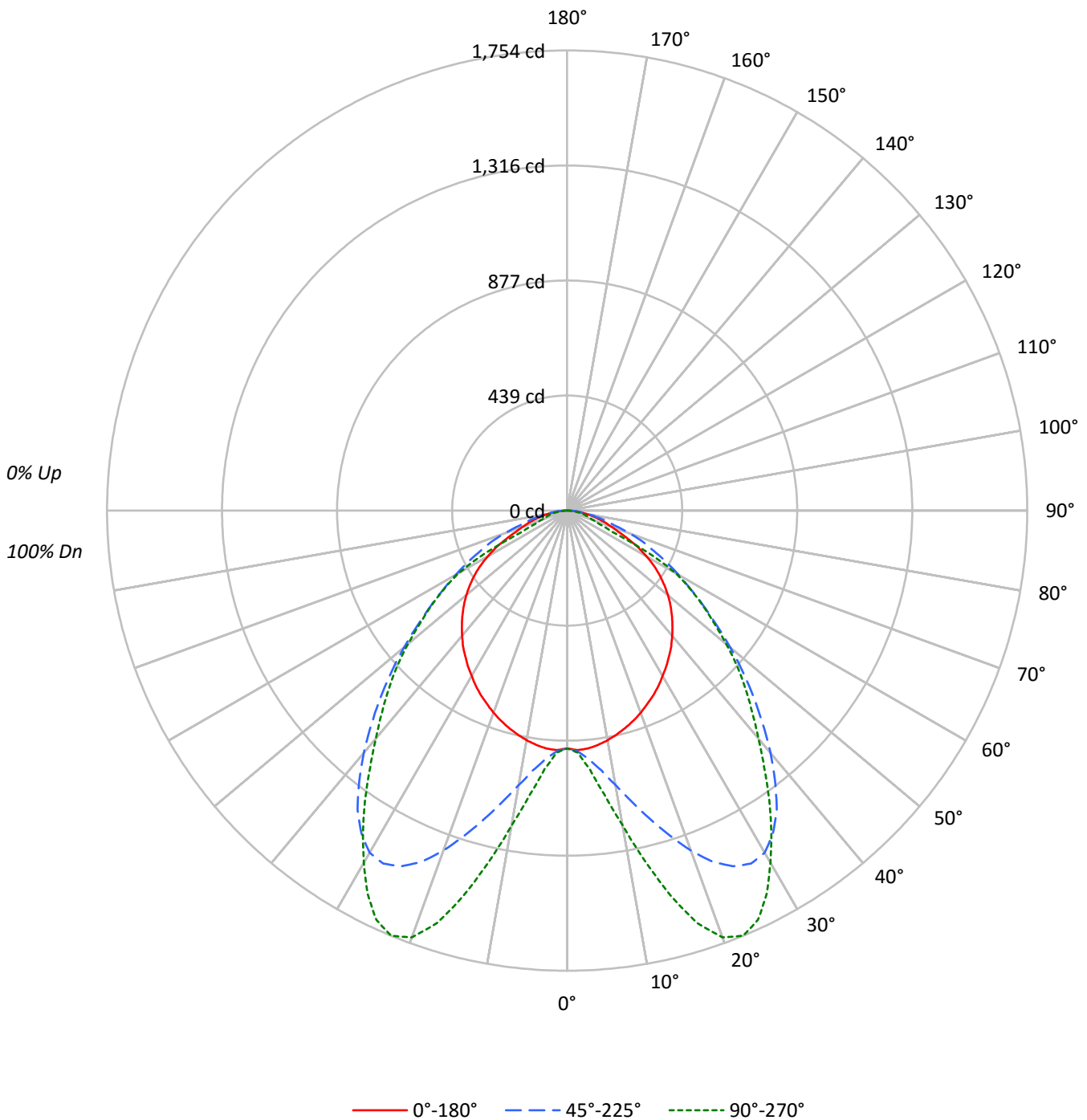
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10645	10645	10645
5°	10726	11166	11624
10°	10593	12593	14421
15°	10415	14654	18231
20°	10241	17031	21296
25°	10051	19091	21856
30°	9851	20044	20496
35°	9695	19523	18668
40°	9527	17991	16776
45°	9349	16157	15309
50°	9132	14261	13762
55°	8792	12437	12164
60°	8191	10919	10483
65°	7094	9460	4685
70°	6100	7972	3240
75°	5583	6184	2930
80°	5007	5027	2564
85°	4126	4367	1753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	2.7
10°-20°	342.8	9.7
20°-30°	620.4	17.5
30°-40°	744.5	21.0
40°-50°	705.3	19.9
50°-60°	552.6	15.6
60°-70°	308.4	8.7
70°-80°	130.7	3.7
80°-90°	40.7	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°	1057.1	29.9
0°-40°	1801.6	50.9
0°-60°	3059.5	86.4
0°-90°	3539.3	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	3540.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	910	914	950	982	990	86
15°	857	960	1216	1439	1517	242
25°	777	1020	1496	1678	1721	358
35°	678	1044	1393	1335	1342	424
45°	564	956	1005	934	962	435
55°	431	694	636	615	631	384
65°	257	321	364	293	184	257
75°	124	129	153	108	75	132
85°	32	36	44	34	20	35
90°	0	7	14	9	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°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	913.9	912.9	910.2	906.5	907.4	908.3	908.3	909.2	910.2	912.9	918.5
5°	910.2	908.3	907.4	906.5	911.1	913.9	916.6	922.2	928.7	938.9	950.0
7.5°	900.9	900.9	902.7	906.5	916.6	923.1	928.7	942.6	958.4	977.8	999.1
10°	888.8	890.7	896.3	904.6	923.1	933.3	944.5	967.6	994.5	1026.9	1062.2
12.5°	874.0	877.7	887.0	902.7	930.6	946.3	963.0	998.2	1038.1	1084.4	1136.3
15°	857.3	862.0	876.8	900.0	938.0	960.2	983.4	1031.6	1086.3	1148.4	1216.0
17.5°	839.7	846.2	866.6	899.0	948.2	976.0	1005.6	1068.7	1139.1	1214.2	1297.6
20°	820.3	829.5	855.5	897.2	957.4	991.7	1027.9	1106.7	1192.8	1281.8	1379.1
22.5°	798.0	810.1	842.5	893.5	966.7	1007.5	1050.1	1141.9	1242.0	1343.0	1448.7
25°	776.7	789.7	827.7	888.8	974.1	1020.5	1069.6	1174.3	1286.5	1393.0	1495.9
27.5°	753.5	768.4	813.8	884.2	979.7	1031.6	1086.3	1201.2	1318.9	1424.6	1517.2
30°	727.6	747.0	798.0	876.8	982.5	1039.9	1099.2	1222.5	1339.3	1432.0	1506.1
32.5°	703.5	724.8	780.4	868.5	983.4	1044.6	1107.6	1229.0	1339.3	1415.3	1459.8
35°	677.5	700.7	762.8	858.3	979.7	1043.6	1106.7	1227.1	1319.8	1371.7	1393.0
37.5°	651.6	676.6	744.3	844.4	971.3	1037.1	1100.2	1208.6	1280.0	1307.8	1302.2
40°	622.8	650.6	720.2	826.7	956.5	1020.5	1080.7	1176.2	1221.6	1226.2	1205.8
42.5°	594.1	622.8	696.1	803.6	931.5	992.7	1048.3	1124.3	1145.6	1135.4	1103.9
45°	564.4	594.1	667.3	775.8	900.0	955.6	1001.9	1056.6	1056.6	1038.1	1004.7
47.5°	533.9	562.6	636.7	743.3	859.2	907.4	945.4	977.8	963.0	939.8	906.5
50°	501.4	530.2	602.4	704.4	806.4	846.2	877.7	889.8	866.6	840.6	811.0
52.5°	467.1	495.9	561.7	655.3	744.3	773.9	797.1	796.2	768.4	745.2	719.2
55°	431.0	456.9	516.3	596.9	670.1	694.2	708.1	697.0	671.0	649.7	635.8
57.5°	393.0	414.3	465.3	531.1	585.8	604.3	612.6	597.8	579.3	566.3	558.9
60°	350.3	368.0	404.1	455.1	494.9	507.9	513.5	503.3	496.8	493.1	491.2
62.5°	305.9	314.2	337.4	370.7	404.1	413.4	419.9	421.7	420.8	422.6	427.3
65°	256.7	259.5	266.9	283.6	309.6	320.7	332.7	345.7	353.1	360.5	364.3
67.5°	211.3	212.2	216.0	221.5	231.7	243.8	254.0	273.4	290.1	304.0	313.3
70°	178.9	178.0	178.9	181.7	187.2	191.9	196.5	210.4	228.0	251.2	253.0
72.5°	151.1	150.1	151.1	152.9	154.8	156.6	159.4	165.0	175.2	189.1	191.9
75°	124.2	124.2	124.2	126.1	127.9	128.8	130.7	132.5	136.2	146.4	152.9
77.5°	99.2	98.2	100.1	101.0	102.0	103.8	104.7	106.6	108.4	112.1	116.8
80°	75.1	74.1	75.1	76.9	77.9	79.7	79.7	82.5	83.4	86.2	88.1
82.5°	52.8	51.9	52.8	54.7	54.7	56.5	57.5	59.3	61.2	63.0	64.9
85°	31.5	31.5	32.4	33.4	34.3	36.1	37.1	39.9	41.7	43.6	44.5
87.5°	13.9	13.9	14.8	15.8	17.6	19.5	20.4	22.2	24.1	26.9	26.9
90°	0.0	0.9	2.8	4.6	5.6	7.4	7.4	10.2	11.1	13.0	13.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.9	2.8	3.7
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°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	926.8	921.3	925.0	925.9	926.8	925.0	923.1	925.0	923.1	923.1
5°	963.9	963.0	972.3	978.7	981.5	981.5	987.1	990.8	991.7	989.9
7.5°	1022.3	1027.9	1046.4	1059.4	1066.8	1070.5	1080.7	1086.3	1093.7	1092.8
10°	1099.2	1116.8	1144.7	1163.2	1176.2	1182.7	1197.5	1207.7	1219.7	1218.8
12.5°	1183.6	1216.0	1254.9	1284.6	1304.1	1316.1	1335.6	1354.1	1365.2	1366.2
15°	1279.0	1323.5	1376.4	1414.4	1439.4	1455.1	1482.0	1500.6	1519.1	1517.2
17.5°	1372.7	1426.4	1490.4	1540.4	1563.6	1578.4	1610.9	1630.3	1647.9	1647.9
20°	1456.1	1518.2	1583.1	1629.4	1651.6	1666.5	1694.3	1713.7	1726.7	1731.3
22.5°	1522.8	1580.3	1635.0	1674.8	1688.7	1700.8	1722.1	1737.8	1746.2	1753.6
25°	1559.9	1606.2	1643.3	1671.1	1678.5	1685.0	1697.1	1709.1	1711.0	1721.2
27.5°	1560.8	1595.1	1615.5	1625.7	1626.6	1626.6	1635.0	1639.6	1643.3	1647.0
30°	1527.4	1543.2	1546.9	1547.8	1543.2	1540.4	1546.0	1546.9	1549.7	1549.7
32.5°	1460.7	1464.4	1457.9	1447.7	1445.0	1439.4	1443.1	1441.2	1445.9	1448.7
35°	1375.4	1369.0	1352.3	1344.9	1334.7	1331.9	1334.7	1332.8	1335.6	1342.1
37.5°	1278.1	1264.2	1250.3	1237.3	1229.9	1222.5	1225.3	1228.1	1231.8	1233.6
40°	1178.0	1159.5	1144.7	1131.7	1124.3	1118.7	1123.3	1126.1	1134.5	1134.5
42.5°	1077.0	1056.6	1041.8	1033.4	1027.9	1023.2	1030.7	1032.5	1042.7	1044.6
45°	976.9	959.3	947.2	938.9	934.3	936.1	943.5	948.2	957.4	962.1
47.5°	885.1	870.3	857.3	853.6	853.6	855.5	862.9	867.5	874.9	880.5
50°	795.2	784.1	775.8	771.1	772.1	774.8	781.3	785.0	792.5	792.5
52.5°	707.2	699.8	696.1	690.5	690.5	689.6	696.1	699.8	705.3	706.3
55°	630.3	623.8	620.1	616.4	615.4	617.3	621.0	623.8	630.3	631.2
57.5°	557.0	554.3	551.5	548.7	547.8	548.7	550.5	552.4	556.1	557.0
60°	490.3	489.4	485.7	482.9	482.0	481.0	480.1	479.2	481.0	480.1
62.5°	429.1	426.3	423.6	418.0	415.2	407.8	398.5	378.2	361.5	352.2
65°	368.9	367.0	354.1	316.1	292.9	263.2	231.7	201.1	190.9	184.4
67.5°	310.5	279.9	233.6	200.2	188.1	177.0	160.3	143.7	134.4	128.8
70°	223.4	197.4	176.1	157.6	149.2	142.7	129.8	117.7	109.4	105.7
72.5°	180.7	164.1	150.1	136.2	129.8	122.3	109.4	97.3	89.9	86.2
75°	151.1	140.9	127.0	114.0	108.4	102.9	93.6	84.3	77.9	75.1
77.5°	119.6	114.0	105.7	95.5	90.8	87.1	78.8	72.3	65.8	63.0
80°	88.1	86.2	80.6	73.2	69.5	66.7	60.2	54.7	49.1	47.3
82.5°	64.9	63.0	58.4	52.8	51.0	48.2	43.6	38.9	35.2	33.4
85°	44.5	43.6	39.9	36.1	34.3	32.4	27.8	24.1	21.3	19.5
87.5°	27.8	26.9	25.0	21.3	19.5	17.6	13.9	11.1	8.3	7.4
90°	13.9	13.9	13.0	10.2	9.3	8.3	5.6	2.8	0.9	0.0
92.5°	3.7	3.7	3.7	2.8	2.8	1.9	0.9	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: P256873

CATALOG NUMBER: HGL-S-BA-50L930-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)