

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: P256865

Luminaire Tested: **HGL-S-BA-30L840-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256865  
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-30L840-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

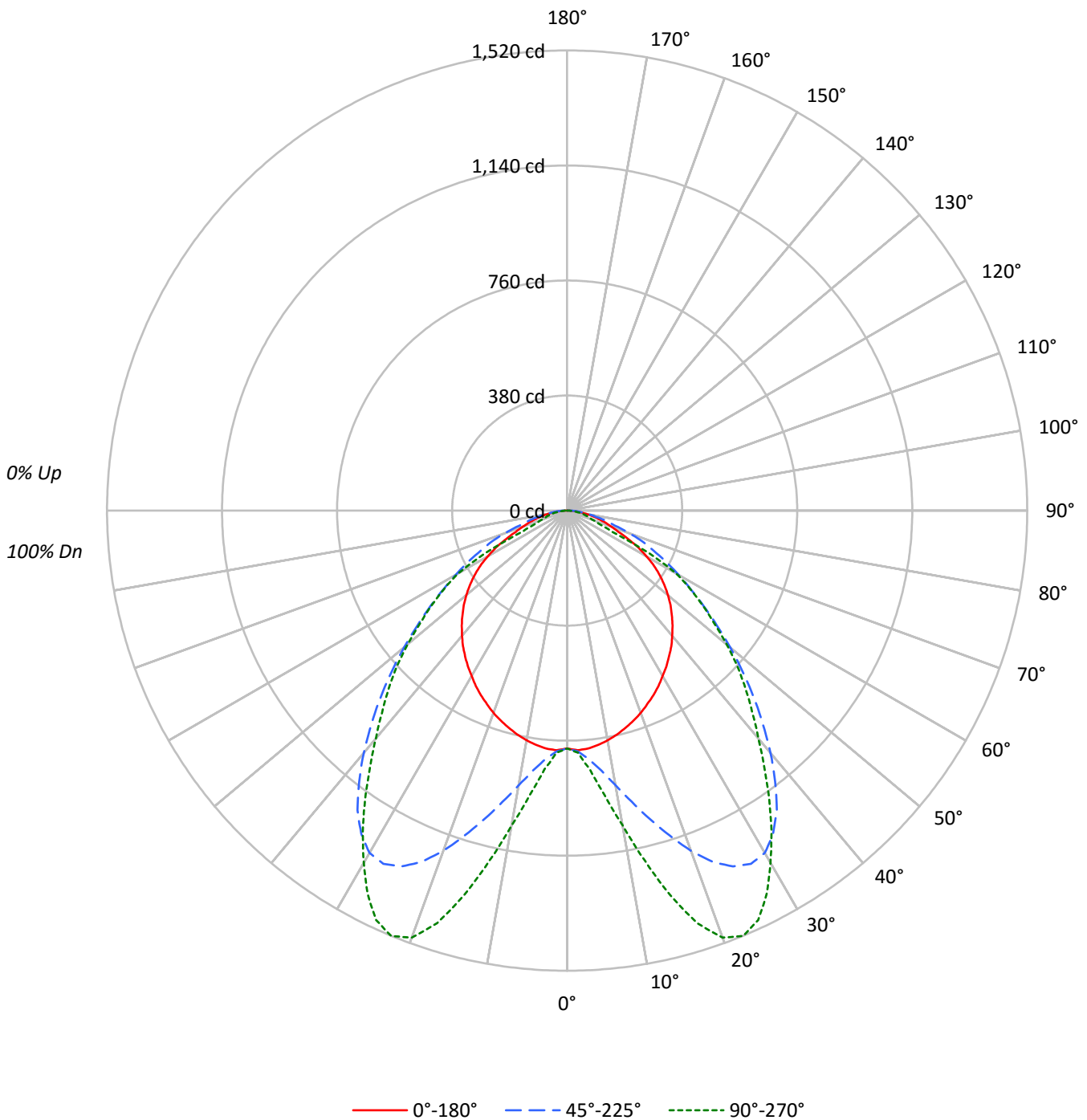
Lumens per Lamp: N/A  
Luminaire Lumens: 3069.7 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')  
CIE Type: Direct

Input Watts (W): 23.2  
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



TEST NUMBER: P256865  
CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: P256865

CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

**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°	9228	9228	9228
5°	9299	9680	10077
10°	9184	10918	12503
15°	9030	12705	15806
20°	8878	14766	18463
25°	8715	16551	18948
30°	8541	17378	17769
35°	8406	16926	16184
40°	8260	15598	14543
45°	8107	14007	13272
50°	7918	12364	11930
55°	7621	10782	10545
60°	7102	9467	9088
65°	6152	8201	4063
70°	5289	6913	2808
75°	4841	5363	2540
80°	4341	4354	2222
85°	3576	3788	1519



TEST NUMBER: P256865

CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	2.7
10°-20°	297.2	9.7
20°-30°	537.8	17.5
30°-40°	645.5	21.0
40°-50°	611.5	19.9
50°-60°	479.1	15.6
60°-70°	267.4	8.7
70°-80°	113.3	3.7
80°-90°	35.2	1.1
90°-100°	1.3	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°	916.5	29.9
0°-40°	1561.9	50.9
0°-60°	2652.5	86.4
0°-90°	3068.5	100.0
90°-120°	1.3	0.0
90°-150°	1.3	0.0
90°-180°	1.0	0.0
0°-180°	3069.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	789	792	824	851	858	75
15°	743	832	1054	1248	1315	210
25°	673	885	1297	1455	1492	310
35°	587	905	1208	1157	1164	368
45°	489	828	871	810	834	377
55°	374	602	551	534	547	333
65°	223	278	316	254	160	222
75°	108	112	133	94	65	115
85°	27	31	39	30	17	30
90°	0	6	12	8	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: P256865

CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	792.3	791.5	789.1	785.9	786.7	787.5	787.5	788.3	789.1	791.5	796.3
5°	789.1	787.5	786.7	785.9	789.9	792.3	794.7	799.5	805.2	814.0	823.6
7.5°	781.0	781.0	782.7	785.9	794.7	800.3	805.2	817.2	830.9	847.7	866.2
10°	770.6	772.2	777.0	784.3	800.3	809.2	818.8	838.9	862.2	890.3	920.9
12.5°	757.7	761.0	769.0	782.7	806.8	820.4	834.9	865.4	900.0	940.1	985.1
15°	743.3	747.3	760.2	780.2	813.2	832.5	852.6	894.3	941.8	995.6	1054.2
17.5°	728.0	733.6	751.3	779.4	822.0	846.1	871.8	926.5	987.6	1052.6	1125.0
20°	711.1	719.2	741.7	777.8	830.1	859.8	891.1	959.4	1034.2	1111.3	1195.7
22.5°	691.9	702.3	730.4	774.6	838.1	873.5	910.4	990.0	1076.7	1164.3	1255.9
25°	673.4	684.6	717.6	770.6	844.5	884.7	927.3	1018.1	1115.3	1207.7	1296.9
27.5°	653.3	666.1	705.5	766.6	849.3	894.3	941.8	1041.4	1143.4	1235.0	1315.4
30°	630.8	647.7	691.9	760.2	851.8	901.6	953.0	1059.9	1161.1	1241.5	1305.8
32.5°	609.9	628.4	676.6	752.9	852.6	905.6	960.2	1065.5	1161.1	1227.0	1265.6
35°	587.4	607.5	661.3	744.1	849.3	904.8	959.4	1063.9	1144.2	1189.2	1207.7
37.5°	564.9	586.6	645.2	732.0	842.1	899.2	953.8	1047.8	1109.7	1133.8	1129.0
40°	540.0	564.1	624.4	716.8	829.3	884.7	936.9	1019.7	1059.1	1063.1	1045.4
42.5°	515.1	540.0	603.5	696.7	807.6	860.6	908.8	974.7	993.2	984.3	957.0
45°	489.4	515.1	578.6	672.6	780.2	828.5	868.6	916.0	916.0	900.0	871.0
47.5°	462.8	487.8	552.0	644.4	744.9	786.7	819.6	847.7	834.9	814.8	785.9
50°	434.7	459.6	522.3	610.7	699.1	733.6	761.0	771.4	751.3	728.8	703.1
52.5°	405.0	429.9	486.9	568.1	645.2	671.0	691.0	690.2	666.1	646.0	623.5
55°	373.6	396.1	447.6	517.5	581.0	601.9	613.9	604.3	581.8	563.3	551.2
57.5°	340.7	359.2	403.4	460.4	507.8	523.9	531.1	518.3	502.2	491.0	484.5
60°	303.7	319.0	350.3	394.5	429.1	440.3	445.2	436.3	430.7	427.5	425.9
62.5°	265.2	272.4	292.5	321.4	350.3	358.4	364.0	365.6	364.8	366.4	370.4
65°	222.6	225.0	231.4	245.9	268.4	278.0	288.5	299.7	306.2	312.6	315.8
67.5°	183.2	184.0	187.2	192.0	200.9	211.3	220.2	237.0	251.5	263.6	271.6
70°	155.1	154.3	155.1	157.5	162.3	166.3	170.4	182.4	197.7	217.8	219.4
72.5°	131.0	130.2	131.0	132.6	134.2	135.8	138.2	143.0	151.9	163.9	166.3
75°	107.7	107.7	107.7	109.3	110.9	111.7	113.3	114.9	118.1	127.0	132.6
77.5°	86.0	85.2	86.8	87.6	88.4	90.0	90.8	92.4	94.0	97.2	101.2
80°	65.1	64.3	65.1	66.7	67.5	69.1	69.1	71.5	72.3	74.7	76.3
82.5°	45.8	45.0	45.8	47.4	47.4	49.0	49.8	51.4	53.0	54.6	56.2
85°	27.3	27.3	28.1	28.9	29.7	31.3	32.1	34.6	36.2	37.8	38.6
87.5°	12.1	12.1	12.9	13.7	15.3	16.9	17.7	19.3	20.9	23.3	23.3
90°	0.0	0.8	2.4	4.0	4.8	6.4	6.4	8.8	9.6	11.2	12.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	3.2
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



TEST NUMBER: P256865

CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

**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



TEST NUMBER: P256865

CATALOG NUMBER: HGL-S-BA-30L840-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9	785.9
2.5°	803.5	798.7	801.9	802.7	803.5	801.9	800.3	801.9	800.3	800.3
5°	835.7	834.9	842.9	848.5	851.0	851.0	855.8	859.0	859.8	858.2
7.5°	886.3	891.1	907.2	918.5	924.9	928.1	936.9	941.8	948.2	947.4
10°	953.0	968.3	992.4	1008.4	1019.7	1025.3	1038.2	1047.0	1057.5	1056.7
12.5°	1026.1	1054.2	1088.0	1113.7	1130.6	1141.0	1157.9	1174.0	1183.6	1184.4
15°	1108.9	1147.5	1193.3	1226.2	1247.9	1261.6	1284.9	1300.9	1317.0	1315.4
17.5°	1190.0	1236.7	1292.1	1335.5	1355.6	1368.4	1396.6	1413.4	1428.7	1428.7
20°	1262.4	1316.2	1372.5	1412.6	1431.9	1444.8	1468.9	1485.8	1497.0	1501.0
22.5°	1320.2	1370.0	1417.5	1452.0	1464.1	1474.5	1493.0	1506.6	1513.9	1520.3
25°	1352.4	1392.5	1424.7	1448.8	1455.2	1460.8	1471.3	1481.7	1483.3	1492.2
27.5°	1353.2	1382.9	1400.6	1409.4	1410.2	1410.2	1417.5	1421.5	1424.7	1427.9
30°	1324.2	1337.9	1341.1	1341.9	1337.9	1335.5	1340.3	1341.1	1343.5	1343.5
32.5°	1266.4	1269.6	1264.0	1255.1	1252.7	1247.9	1251.1	1249.5	1253.5	1255.9
35°	1192.5	1186.8	1172.4	1165.9	1157.1	1154.7	1157.1	1155.5	1157.9	1163.5
37.5°	1108.1	1096.0	1084.0	1072.7	1066.3	1059.9	1062.3	1064.7	1067.9	1069.5
40°	1021.3	1005.2	992.4	981.1	974.7	969.9	973.9	976.3	983.5	983.5
42.5°	933.7	916.0	903.2	896.0	891.1	887.1	893.5	895.1	904.0	905.6
45°	846.9	831.7	821.2	814.0	810.0	811.6	818.0	822.0	830.1	834.1
47.5°	767.4	754.5	743.3	740.1	740.1	741.7	748.1	752.1	758.5	763.4
50°	689.4	679.8	672.6	668.5	669.4	671.8	677.4	680.6	687.0	687.0
52.5°	613.1	606.7	603.5	598.6	598.6	597.8	603.5	606.7	611.5	612.3
55°	546.4	540.8	537.6	534.4	533.6	535.2	538.4	540.8	546.4	547.2
57.5°	482.9	480.5	478.1	475.7	474.9	475.7	477.3	478.9	482.1	482.9
60°	425.1	424.3	421.1	418.6	417.8	417.0	416.2	415.4	417.0	416.2
62.5°	372.0	369.6	367.2	362.4	360.0	353.6	345.5	327.8	313.4	305.3
65°	319.8	318.2	307.0	274.0	253.9	228.2	200.9	174.4	165.5	159.9
67.5°	269.2	242.7	202.5	173.6	163.1	153.5	139.0	124.5	116.5	111.7
70°	193.7	171.2	152.7	136.6	129.4	123.7	112.5	102.1	94.8	91.6
72.5°	156.7	142.2	130.2	118.1	112.5	106.1	94.8	84.4	77.9	74.7
75°	131.0	122.1	110.1	98.8	94.0	89.2	81.2	73.1	67.5	65.1
77.5°	103.7	98.8	91.6	82.8	78.7	75.5	68.3	62.7	57.1	54.6
80°	76.3	74.7	69.9	63.5	60.3	57.9	52.2	47.4	42.6	41.0
82.5°	56.2	54.6	50.6	45.8	44.2	41.8	37.8	33.7	30.5	28.9
85°	38.6	37.8	34.6	31.3	29.7	28.1	24.1	20.9	18.5	16.9
87.5°	24.1	23.3	21.7	18.5	16.9	15.3	12.1	9.6	7.2	6.4
90°	12.1	12.1	11.2	8.8	8.0	7.2	4.8	2.4	0.8	0.0
92.5°	3.2	3.2	3.2	2.4	2.4	1.6	0.8	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: P256865

CATALOG NUMBER: HGL-S-BA-30L840-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)