

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: P256860

Luminaire Tested: **HGL-S-BA-30L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256860  
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-30L835-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3024.7 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

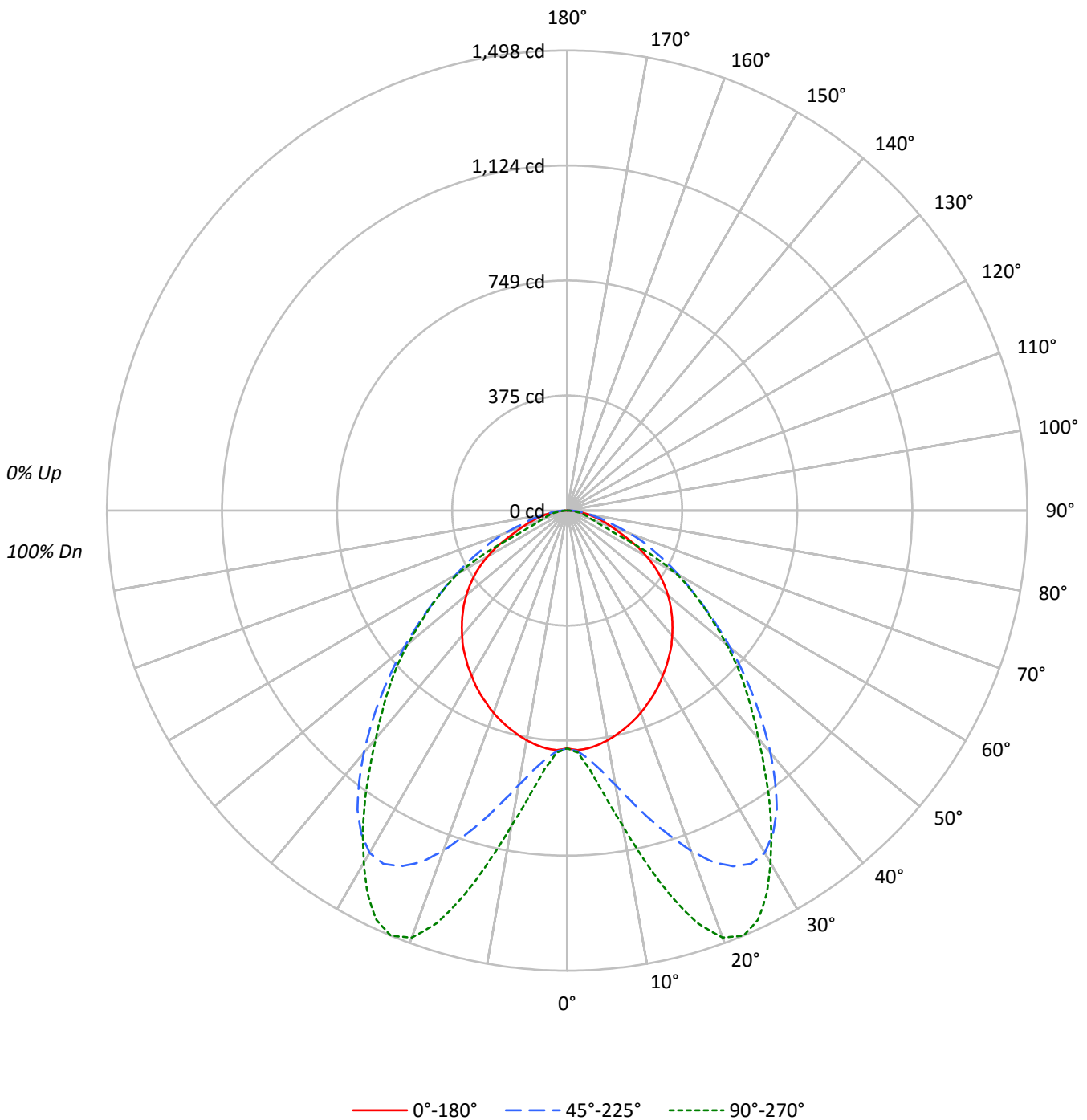
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BA-30L835-UNV-4

### 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	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°	9092	9092	9092
5°	9163	9538	9929
10°	9050	10756	12320
15°	8898	12519	15574
20°	8748	14549	18193
25°	8587	16309	18670
30°	8415	17123	17508
35°	8283	16678	15948
40°	8139	15369	14330
45°	7988	13803	13076
50°	7801	12182	11754
55°	7511	10624	10391
60°	6999	9327	8954
65°	6061	8081	4004
70°	5210	6809	2768
75°	4769	5282	2501
80°	4274	4291	2190
85°	3524	3729	1492



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	2.7
10°-20°	292.8	9.7
20°-30°	530.0	17.5
30°-40°	636.0	21.0
40°-50°	602.5	19.9
50°-60°	472.1	15.6
60°-70°	263.5	8.7
70°-80°	111.6	3.7
80°-90°	34.7	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°	903.0	29.9
0°-40°	1539.0	50.9
0°-60°	2613.6	86.4
0°-90°	3023.4	100.0
90°-120°	1.3	0.0
90°-150°	1.3	0.0
90°-180°	1.0	0.0
0°-180°	3024.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	778	781	812	838	846	74
15°	732	820	1039	1230	1296	207
25°	664	872	1278	1434	1470	306
35°	579	892	1190	1140	1146	362
45°	482	816	858	798	822	372
55°	368	593	543	526	539	328
65°	219	274	311	250	158	219
75°	106	110	131	93	64	113
85°	27	31	38	29	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: P256860

CATALOG NUMBER: HGL-S-BA-30L835-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3
2.5°	780.7	779.9	777.5	774.3	775.1	775.9	775.9	776.7	777.5	779.9	784.6
5°	777.5	775.9	775.1	774.3	778.3	780.7	783.0	787.8	793.3	802.0	811.5
7.5°	769.6	769.6	771.2	774.3	783.0	788.6	793.3	805.2	818.7	835.3	853.5
10°	759.3	760.9	765.6	772.8	788.6	797.3	806.8	826.6	849.6	877.3	907.3
12.5°	746.6	749.8	757.7	771.2	794.9	808.4	822.6	852.7	886.8	926.4	970.7
15°	732.4	736.3	749.0	768.8	801.3	820.3	840.0	881.2	927.9	981.0	1038.8
17.5°	717.3	722.9	740.3	768.0	810.0	833.7	859.1	912.9	973.1	1037.2	1108.5
20°	700.7	708.6	730.8	766.4	817.9	847.2	878.1	945.4	1019.0	1095.0	1178.1
22.5°	681.7	692.0	719.7	763.2	825.8	860.6	897.1	975.4	1060.9	1147.2	1237.5
25°	663.5	674.6	707.0	759.3	832.1	871.7	913.7	1003.2	1099.0	1190.0	1277.9
27.5°	643.7	656.4	695.2	755.3	836.9	881.2	927.9	1026.1	1126.7	1216.9	1296.1
30°	621.5	638.2	681.7	749.0	839.3	888.3	939.0	1044.3	1144.1	1223.3	1286.6
32.5°	600.9	619.2	666.7	741.9	840.0	892.3	946.1	1049.9	1144.1	1209.0	1247.0
35°	578.8	598.6	651.6	733.2	836.9	891.5	945.4	1048.3	1127.5	1171.8	1190.0
37.5°	556.6	578.0	635.8	721.3	829.8	886.0	939.8	1032.4	1093.4	1117.2	1112.4
40°	532.1	555.8	615.2	706.2	817.1	871.7	923.2	1004.7	1043.5	1047.5	1030.1
42.5°	507.5	532.1	594.6	686.4	795.7	848.0	895.5	960.4	978.6	969.9	943.0
45°	482.2	507.5	570.1	662.7	768.8	816.3	855.9	902.6	902.6	886.8	858.3
47.5°	456.0	480.6	543.9	635.0	734.0	775.1	807.6	835.3	822.6	802.8	774.3
50°	428.3	452.9	514.6	601.7	688.8	722.9	749.8	760.1	740.3	718.1	692.8
52.5°	399.0	423.6	479.8	559.8	635.8	661.1	680.9	680.1	656.4	636.6	614.4
55°	368.2	390.3	441.0	509.9	572.4	593.0	604.9	595.4	573.2	555.0	543.1
57.5°	335.7	353.9	397.5	453.7	500.4	516.2	523.3	510.7	494.8	483.8	477.4
60°	299.3	314.3	345.2	388.8	422.8	433.9	438.6	429.9	424.4	421.2	419.6
62.5°	261.3	268.4	288.2	316.7	345.2	353.1	358.7	360.2	359.5	361.0	365.0
65°	219.3	221.7	228.0	242.3	264.4	273.9	284.2	295.3	301.7	308.0	311.2
67.5°	180.5	181.3	184.5	189.2	197.9	208.2	216.9	233.6	247.8	259.7	267.6
70°	152.8	152.0	152.8	155.2	159.9	163.9	167.9	179.7	194.8	214.6	216.1
72.5°	129.1	128.3	129.1	130.6	132.2	133.8	136.2	140.9	149.6	161.5	163.9
75°	106.1	106.1	106.1	107.7	109.3	110.1	111.6	113.2	116.4	125.1	130.6
77.5°	84.7	83.9	85.5	86.3	87.1	88.7	89.5	91.1	92.6	95.8	99.8
80°	64.1	63.3	64.1	65.7	66.5	68.1	68.1	70.5	71.3	73.6	75.2
82.5°	45.1	44.3	45.1	46.7	46.7	48.3	49.1	50.7	52.3	53.8	55.4
85°	26.9	26.9	27.7	28.5	29.3	30.9	31.7	34.0	35.6	37.2	38.0
87.5°	11.9	11.9	12.7	13.5	15.0	16.6	17.4	19.0	20.6	23.0	23.0
90°	0.0	0.8	2.4	4.0	4.8	6.3	6.3	8.7	9.5	11.1	11.9
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



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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°	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3	774.3
2.5°	791.8	787.0	790.2	791.0	791.8	790.2	788.6	790.2	788.6	788.6
5°	823.4	822.6	830.5	836.1	838.5	838.5	843.2	846.4	847.2	845.6
7.5°	873.3	878.1	893.9	905.0	911.3	914.5	923.2	927.9	934.3	933.5
10°	939.0	954.1	977.8	993.6	1004.7	1010.3	1022.9	1031.7	1041.9	1041.2
12.5°	1011.1	1038.8	1072.0	1097.4	1114.0	1124.3	1140.9	1156.8	1166.3	1167.0
15°	1092.6	1130.6	1175.8	1208.2	1229.6	1243.1	1266.0	1281.8	1297.7	1296.1
17.5°	1172.6	1218.5	1273.1	1315.9	1335.7	1348.4	1376.1	1392.7	1407.7	1407.7
20°	1243.8	1296.9	1352.3	1391.9	1410.9	1423.6	1447.3	1464.0	1475.0	1479.0
22.5°	1300.9	1349.9	1396.7	1430.7	1442.6	1452.9	1471.1	1484.5	1491.7	1498.0
25°	1332.5	1372.1	1403.8	1427.5	1433.9	1439.4	1449.7	1460.0	1461.6	1470.3
27.5°	1333.3	1362.6	1380.0	1388.7	1389.5	1389.5	1396.7	1400.6	1403.8	1406.9
30°	1304.8	1318.3	1321.4	1322.2	1318.3	1315.9	1320.6	1321.4	1323.8	1323.8
32.5°	1247.8	1251.0	1245.4	1236.7	1234.3	1229.6	1232.8	1231.2	1235.1	1237.5
35°	1175.0	1169.4	1155.2	1148.8	1140.1	1137.7	1140.1	1138.5	1140.9	1146.5
37.5°	1091.8	1080.0	1068.1	1057.0	1050.7	1044.3	1046.7	1049.1	1052.2	1053.8
40°	1006.3	990.5	977.8	966.7	960.4	955.6	959.6	962.0	969.1	969.1
42.5°	920.0	902.6	889.9	882.8	878.1	874.1	880.4	882.0	890.7	892.3
45°	834.5	819.5	809.2	802.0	798.1	799.7	806.0	810.0	817.9	821.8
47.5°	756.1	743.5	732.4	729.2	729.2	730.8	737.1	741.1	747.4	752.2
50°	679.3	669.8	662.7	658.7	659.5	661.9	667.4	670.6	676.9	676.9
52.5°	604.1	597.8	594.6	589.9	589.9	589.1	594.6	597.8	602.5	603.3
55°	538.4	532.8	529.7	526.5	525.7	527.3	530.5	532.8	538.4	539.2
57.5°	475.8	473.5	471.1	468.7	467.9	468.7	470.3	471.9	475.1	475.8
60°	418.8	418.0	414.9	412.5	411.7	410.9	410.1	409.3	410.9	410.1
62.5°	366.6	364.2	361.8	357.1	354.7	348.4	340.5	323.0	308.8	300.9
65°	315.1	313.5	302.4	270.0	250.2	224.9	197.9	171.8	163.1	157.6
67.5°	265.2	239.1	199.5	171.0	160.7	151.2	137.0	122.7	114.8	110.1
70°	190.8	168.6	150.4	134.6	127.5	121.9	110.8	100.6	93.4	90.3
72.5°	154.4	140.1	128.3	116.4	110.8	104.5	93.4	83.1	76.8	73.6
75°	129.1	120.3	108.5	97.4	92.6	87.9	80.0	72.0	66.5	64.1
77.5°	102.1	97.4	90.3	81.6	77.6	74.4	67.3	61.8	56.2	53.8
80°	75.2	73.6	68.9	62.5	59.4	57.0	51.5	46.7	42.0	40.4
82.5°	55.4	53.8	49.9	45.1	43.5	41.2	37.2	33.3	30.1	28.5
85°	38.0	37.2	34.0	30.9	29.3	27.7	23.8	20.6	18.2	16.6
87.5°	23.8	23.0	21.4	18.2	16.6	15.0	11.9	9.5	7.1	6.3
90°	11.9	11.9	11.1	8.7	7.9	7.1	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: P256860

CATALOG NUMBER: HGL-S-BA-30L835-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)