

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: P256872

Luminaire Tested: **HGL-S-BA-40L930-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256872  
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-40L930-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: 2829.4 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

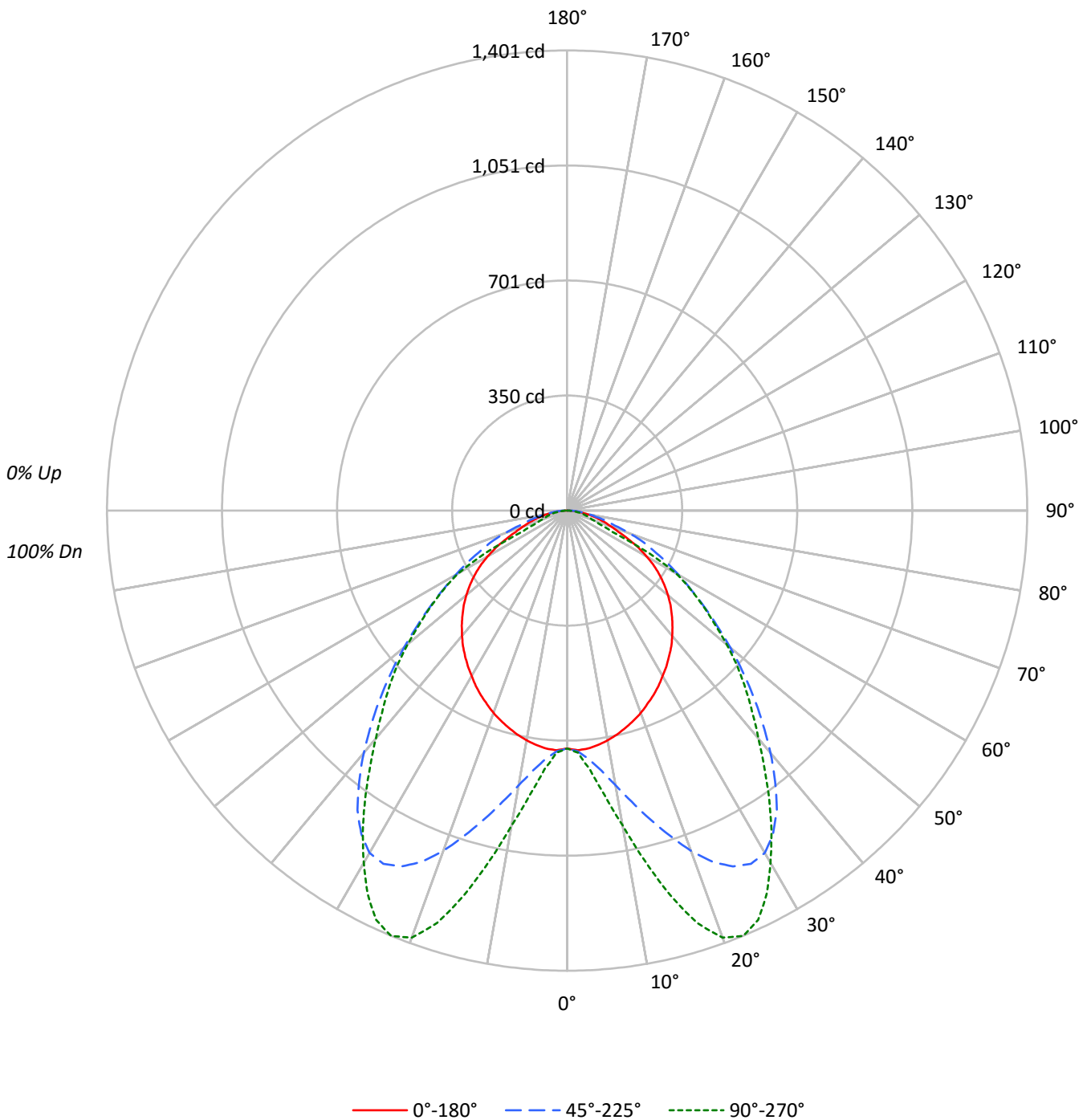
Input Watts (W): 29.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	8505	8505	8505
5°	8571	8922	9288
10°	8466	10063	11524
15°	8323	11710	14568
20°	8184	13609	17018
25°	8031	15256	17464
30°	7872	16017	16378
35°	7747	15601	14917
40°	7613	14377	13405
45°	7471	12910	12233
50°	7298	11395	10995
55°	7026	9939	9720
60°	6547	8725	8376
65°	5671	7559	3745
70°	4873	6371	2587
75°	4459	4942	2341
80°	4001	4017	2049
85°	3301	3484	1402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	2.7
10°-20°	273.9	9.7
20°-30°	495.7	17.5
30°-40°	594.9	21.0
40°-50°	563.6	19.9
50°-60°	441.6	15.6
60°-70°	246.5	8.7
70°-80°	104.4	3.7
80°-90°	32.5	1.1
90°-100°	1.2	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°	844.7	29.9
0°-40°	1439.6	50.9
0°-60°	2444.8	86.4
0°-90°	2828.2	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	2829.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	727	730	759	784	791	69
15°	685	767	972	1150	1212	193
25°	621	815	1195	1341	1375	286
35°	541	834	1113	1066	1072	339
45°	451	764	803	746	769	348
55°	344	555	508	492	504	307
65°	205	256	291	234	147	205
75°	99	103	122	87	60	106
85°	25	29	36	27	16	28
90°	0	6	11	7	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: P256872

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	730.3	729.5	727.3	724.3	725.1	725.8	725.8	726.6	727.3	729.5	734.0
5°	727.3	725.8	725.1	724.3	728.0	730.3	732.5	736.9	742.1	750.3	759.1
7.5°	719.9	719.9	721.4	724.3	732.5	737.7	742.1	753.2	765.8	781.4	798.4
10°	710.3	711.7	716.2	722.8	737.7	745.8	754.7	773.2	794.7	820.6	848.8
12.5°	698.4	701.4	708.8	721.4	743.6	756.2	769.5	797.7	829.5	866.5	908.0
15°	685.1	688.8	700.6	719.1	749.5	767.3	785.8	824.3	868.0	917.6	971.7
17.5°	671.0	676.2	692.5	718.4	757.7	779.9	803.6	853.9	910.2	970.2	1036.9
20°	655.5	662.9	683.6	716.9	765.1	792.5	821.4	884.3	953.2	1024.3	1102.0
22.5°	637.7	647.3	673.2	714.0	772.5	805.1	839.1	912.4	992.4	1073.2	1157.6
25°	620.6	631.0	661.4	710.3	778.4	815.4	854.7	938.4	1028.0	1113.2	1195.4
27.5°	602.1	614.0	650.3	706.6	782.8	824.3	868.0	959.8	1053.9	1138.3	1212.4
30°	581.4	596.9	637.7	700.6	785.1	831.0	878.4	976.9	1070.2	1144.3	1203.5
32.5°	562.1	579.2	623.6	694.0	785.8	834.7	885.0	982.1	1070.2	1130.9	1166.5
35°	541.4	559.9	609.5	685.8	782.8	833.9	884.3	980.6	1054.6	1096.1	1113.2
37.5°	520.7	540.7	594.7	674.7	776.2	828.8	879.1	965.8	1022.8	1045.0	1040.6
40°	497.7	519.9	575.5	660.6	764.3	815.4	863.6	939.9	976.1	979.8	963.6
42.5°	474.7	497.7	556.2	642.1	744.3	793.2	837.6	898.4	915.4	907.3	882.1
45°	451.0	474.7	533.2	619.9	719.1	763.6	800.6	844.3	844.3	829.5	802.8
47.5°	426.6	449.6	508.8	594.0	686.6	725.1	755.4	781.4	769.5	751.0	724.3
50°	400.7	423.6	481.4	562.9	644.3	676.2	701.4	711.0	692.5	671.7	648.0
52.5°	373.3	396.2	448.8	523.6	594.7	618.4	636.9	636.2	614.0	595.5	574.7
55°	344.4	365.1	412.5	477.0	535.5	554.7	565.8	556.9	536.2	519.2	508.1
57.5°	314.0	331.1	371.8	424.4	468.1	482.9	489.6	477.7	462.9	452.5	446.6
60°	280.0	294.0	322.9	363.6	395.5	405.9	410.3	402.2	397.0	394.0	392.5
62.5°	244.4	251.1	269.6	296.2	322.9	330.3	335.5	337.0	336.2	337.7	341.4
65°	205.2	207.4	213.3	226.6	247.4	256.3	265.9	276.3	282.2	288.1	291.1
67.5°	168.9	169.6	172.6	177.0	185.2	194.8	202.9	218.5	231.8	242.9	250.3
70°	142.9	142.2	142.9	145.2	149.6	153.3	157.0	168.1	182.2	200.7	202.2
72.5°	120.7	120.0	120.7	122.2	123.7	125.2	127.4	131.8	140.0	151.1	153.3
75°	99.2	99.2	99.2	100.7	102.2	102.9	104.4	105.9	108.9	117.0	122.2
77.5°	79.2	78.5	80.0	80.7	81.5	82.9	83.7	85.2	86.7	89.6	93.3
80°	60.0	59.2	60.0	61.5	62.2	63.7	63.7	65.9	66.7	68.9	70.4
82.5°	42.2	41.5	42.2	43.7	43.7	45.2	45.9	47.4	48.9	50.4	51.8
85°	25.2	25.2	25.9	26.7	27.4	28.9	29.6	31.8	33.3	34.8	35.5
87.5°	11.1	11.1	11.8	12.6	14.1	15.6	16.3	17.8	19.3	21.5	21.5
90°	0.0	0.7	2.2	3.7	4.4	5.9	5.9	8.1	8.9	10.4	11.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.5	2.2	3.0
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°	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3	724.3
2.5°	740.6	736.2	739.1	739.9	740.6	739.1	737.7	739.1	737.7	737.7
5°	770.2	769.5	776.9	782.1	784.3	784.3	788.8	791.7	792.5	791.0
7.5°	816.9	821.4	836.2	846.5	852.5	855.4	863.6	868.0	873.9	873.2
10°	878.4	892.5	914.7	929.5	939.9	945.0	956.9	965.0	974.7	973.9
12.5°	945.8	971.7	1002.8	1026.5	1042.1	1051.7	1067.2	1082.1	1090.9	1091.7
15°	1022.1	1057.6	1099.8	1130.2	1150.2	1162.8	1184.3	1199.1	1213.9	1212.4
17.5°	1096.9	1139.8	1190.9	1230.9	1249.4	1261.3	1287.2	1302.8	1316.8	1316.8
20°	1163.5	1213.1	1265.0	1302.0	1319.8	1331.6	1353.9	1369.4	1379.8	1383.5
22.5°	1216.8	1262.8	1306.5	1338.3	1349.4	1359.0	1376.1	1388.7	1395.3	1401.3
25°	1246.5	1283.5	1313.1	1335.3	1341.3	1346.5	1356.1	1365.7	1367.2	1375.3
27.5°	1247.2	1274.6	1290.9	1299.1	1299.8	1299.8	1306.5	1310.2	1313.1	1316.1
30°	1220.5	1233.1	1236.1	1236.8	1233.1	1230.9	1235.4	1236.1	1238.3	1238.3
32.5°	1167.2	1170.2	1165.0	1156.9	1154.6	1150.2	1153.2	1151.7	1155.4	1157.6
35°	1099.1	1093.9	1080.6	1074.6	1066.5	1064.3	1066.5	1065.0	1067.2	1072.4
37.5°	1021.3	1010.2	999.1	988.7	982.8	976.9	979.1	981.3	984.3	985.8
40°	941.3	926.5	914.7	904.3	898.4	893.9	897.6	899.9	906.5	906.5
42.5°	860.6	844.3	832.5	825.8	821.4	817.6	823.6	825.1	833.2	834.7
45°	780.6	766.5	756.9	750.3	746.5	748.0	754.0	757.7	765.1	768.8
47.5°	707.3	695.4	685.1	682.1	682.1	683.6	689.5	693.2	699.1	703.6
50°	635.5	626.6	619.9	616.2	616.9	619.2	624.3	627.3	633.2	633.2
52.5°	565.1	559.2	556.2	551.8	551.8	551.0	556.2	559.2	563.6	564.4
55°	503.6	498.4	495.5	492.5	491.8	493.3	496.2	498.4	503.6	504.4
57.5°	445.1	442.9	440.7	438.4	437.7	438.4	439.9	441.4	444.4	445.1
60°	391.8	391.0	388.1	385.9	385.1	384.4	383.6	382.9	384.4	383.6
62.5°	342.9	340.7	338.5	334.0	331.8	325.9	318.5	302.2	288.8	281.4
65°	294.8	293.3	282.9	252.6	234.0	210.3	185.2	160.7	152.6	147.4
67.5°	248.1	223.7	186.6	160.0	150.3	141.5	128.1	114.8	107.4	102.9
70°	178.5	157.8	140.7	125.9	119.2	114.1	103.7	94.1	87.4	84.4
72.5°	144.4	131.1	120.0	108.9	103.7	97.8	87.4	77.8	71.8	68.9
75°	120.7	112.6	101.5	91.1	86.7	82.2	74.8	67.4	62.2	60.0
77.5°	95.5	91.1	84.4	76.3	72.6	69.6	63.0	57.8	52.6	50.4
80°	70.4	68.9	64.4	58.5	55.5	53.3	48.1	43.7	39.3	37.8
82.5°	51.8	50.4	46.7	42.2	40.7	38.5	34.8	31.1	28.1	26.7
85°	35.5	34.8	31.8	28.9	27.4	25.9	22.2	19.3	17.0	15.6
87.5°	22.2	21.5	20.0	17.0	15.6	14.1	11.1	8.9	6.7	5.9
90°	11.1	11.1	10.4	8.1	7.4	6.7	4.4	2.2	0.7	0.0
92.5°	3.0	3.0	3.0	2.2	2.2	1.5	0.7	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: P256872

CATALOG NUMBER: HGL-S-BA-40L930-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)