

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: P256854

Luminaire Tested: **HGL-S-BA-30L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256854
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-30L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

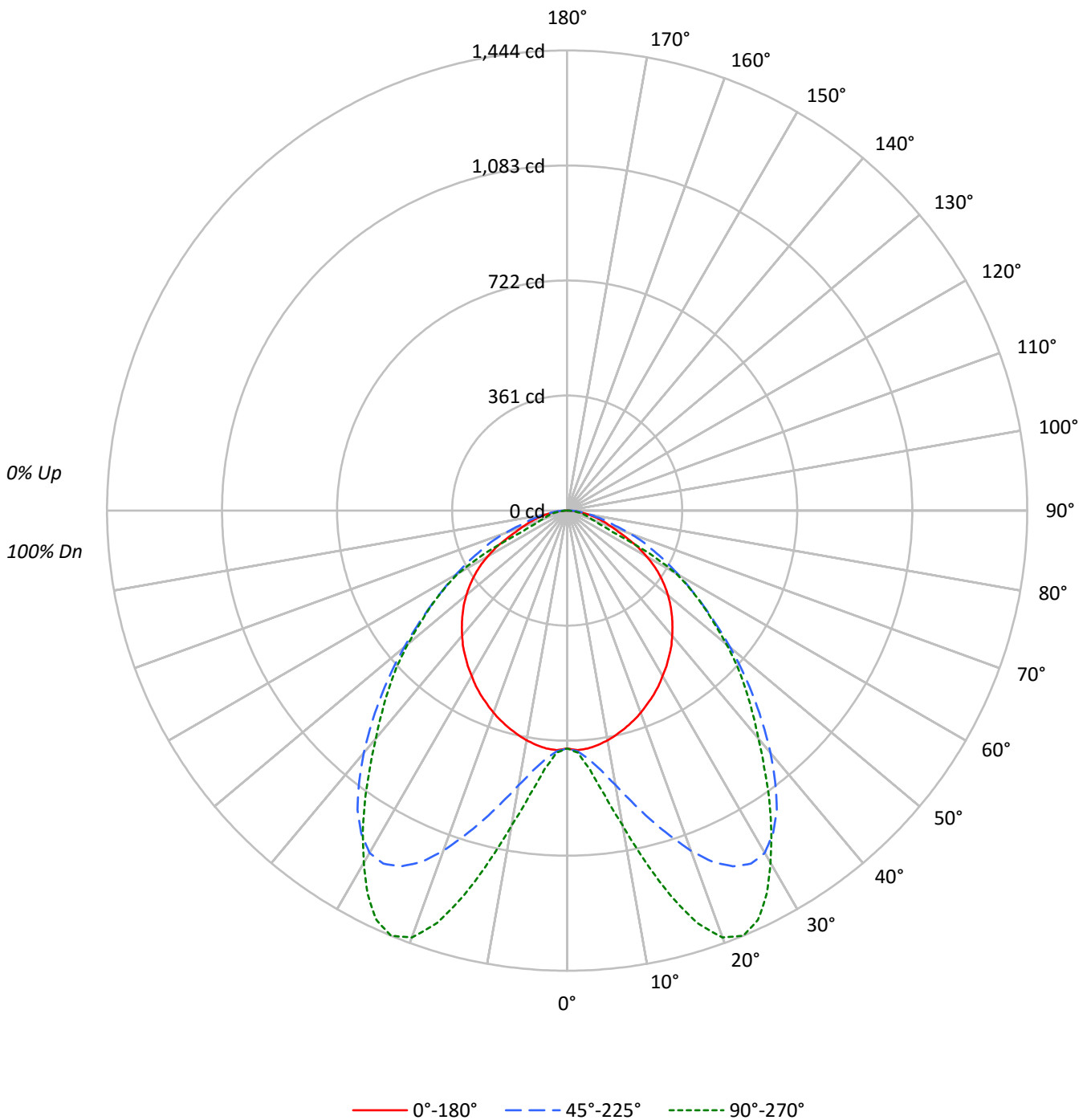
Lumens per Lamp: N/A
Luminaire Lumens: 2915.5 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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						86														
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73						73														
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63						63														
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54						54														
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47						47														
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41						41														
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36						36														
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32						32														
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29						29														
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26						26														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8765	8765	8765
5°	8831	9195	9571
10°	8723	10369	11875
15°	8576	12067	15012
20°	8432	14024	17536
25°	8276	15720	17996
30°	8111	16505	16876
35°	7983	16076	15372
40°	7846	14814	13813
45°	7699	13304	12605
50°	7520	11743	11331
55°	7240	10240	10015
60°	6746	8992	8631
65°	5842	7788	3859
70°	5023	6563	2667
75°	4598	5092	2411
80°	4121	4137	2109
85°	3393	3592	1438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	2.7
10°-20°	282.2	9.7
20°-30°	510.8	17.5
30°-40°	613.1	21.0
40°-50°	580.8	19.9
50°-60°	455.0	15.6
60°-70°	254.0	8.7
70°-80°	107.6	3.7
80°-90°	33.5	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°	870.4	29.9
0°-40°	1483.5	50.9
0°-60°	2519.3	86.4
0°-90°	2914.3	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	2915.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	749	752	782	808	815	71
15°	706	791	1001	1185	1249	199
25°	640	840	1232	1382	1417	295
35°	558	859	1147	1099	1105	349
45°	465	787	827	769	792	358
55°	355	572	524	507	520	316
65°	211	264	300	241	152	211
75°	102	106	126	89	62	109
85°	26	30	37	28	16	29
90°	0	6	11	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
2.5°	752.5	751.7	749.4	746.4	747.2	747.9	747.9	748.7	749.4	751.7	756.3
5°	749.4	747.9	747.2	746.4	750.2	752.5	754.8	759.4	764.7	773.1	782.3
7.5°	741.8	741.8	743.3	746.4	754.8	760.1	764.7	776.2	789.1	805.2	822.7
10°	731.9	733.4	738.0	744.9	760.1	768.5	777.7	796.8	818.9	845.6	874.6
12.5°	719.7	722.7	730.4	743.3	766.2	779.2	792.9	821.9	854.8	892.9	935.7
15°	705.9	709.8	722.0	741.0	772.3	790.7	809.7	849.4	894.4	945.6	1001.3
17.5°	691.4	696.8	713.6	740.3	780.7	803.6	828.1	879.9	938.0	999.8	1068.5
20°	675.4	683.0	704.4	738.8	788.4	816.6	846.4	911.2	982.2	1055.5	1135.6
22.5°	657.1	667.0	693.7	735.7	796.0	829.6	864.7	940.2	1022.7	1105.9	1192.9
25°	639.5	650.2	681.5	731.9	802.1	840.3	880.7	967.0	1059.3	1147.1	1231.8
27.5°	620.5	632.7	670.1	728.1	806.7	849.4	894.4	989.1	1086.0	1173.0	1249.3
30°	599.1	615.1	657.1	722.0	809.0	856.3	905.1	1006.6	1102.8	1179.1	1240.2
32.5°	579.3	596.8	642.6	715.1	809.7	860.1	912.0	1012.0	1102.8	1165.4	1202.0
35°	557.9	577.0	628.1	706.7	806.7	859.3	911.2	1010.5	1086.8	1129.5	1147.1
37.5°	536.5	557.1	612.8	695.3	799.8	854.0	905.9	995.2	1054.0	1076.8	1072.3
40°	512.9	535.8	593.0	680.8	787.6	840.3	889.9	968.5	1005.9	1009.7	992.9
42.5°	489.2	512.9	573.1	661.7	767.0	817.4	863.2	925.7	943.3	934.9	908.9
45°	464.8	489.2	549.5	638.8	741.0	786.8	825.0	870.0	870.0	854.8	827.3
47.5°	439.6	463.3	524.3	612.1	707.5	747.2	778.4	805.2	792.9	773.9	746.4
50°	412.9	436.5	496.1	580.0	664.0	696.8	722.7	732.7	713.6	692.2	667.8
52.5°	384.6	408.3	462.5	539.6	612.8	637.3	656.3	655.6	632.7	613.6	592.2
55°	354.9	376.2	425.1	491.5	551.8	571.6	583.1	573.9	552.5	535.0	523.5
57.5°	323.6	341.1	383.1	437.3	482.3	497.6	504.5	492.3	477.0	466.3	460.2
60°	288.5	303.0	332.7	374.7	407.5	418.2	422.8	414.4	409.1	406.0	404.5
62.5°	251.9	258.7	277.8	305.3	332.7	340.4	345.7	347.2	346.5	348.0	351.8
65°	211.4	213.7	219.8	233.5	254.9	264.1	274.0	284.7	290.8	296.9	299.9
67.5°	174.0	174.8	177.8	182.4	190.8	200.7	209.1	225.1	238.9	250.3	258.0
70°	147.3	146.5	147.3	149.6	154.2	158.0	161.8	173.2	187.7	206.8	208.3
72.5°	124.4	123.6	124.4	125.9	127.5	129.0	131.3	135.8	144.2	155.7	158.0
75°	102.3	102.3	102.3	103.8	105.3	106.1	107.6	109.1	112.2	120.6	125.9
77.5°	81.7	80.9	82.4	83.2	84.0	85.5	86.2	87.8	89.3	92.3	96.2
80°	61.8	61.1	61.8	63.3	64.1	65.6	65.6	67.9	68.7	71.0	72.5
82.5°	43.5	42.7	43.5	45.0	45.0	46.6	47.3	48.8	50.4	51.9	53.4
85°	25.9	25.9	26.7	27.5	28.2	29.8	30.5	32.8	34.3	35.9	36.6
87.5°	11.4	11.4	12.2	13.0	14.5	16.0	16.8	18.3	19.8	22.1	22.1
90°	0.0	0.8	2.3	3.8	4.6	6.1	6.1	8.4	9.2	10.7	11.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	2.3	3.1
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°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
2.5°	763.2	758.6	761.7	762.4	763.2	761.7	760.1	761.7	760.1	760.1
5°	793.7	792.9	800.6	805.9	808.2	808.2	812.8	815.8	816.6	815.1
7.5°	841.8	846.4	861.6	872.3	878.4	881.5	889.9	894.4	900.6	899.8
10°	905.1	919.6	942.5	957.8	968.5	973.8	986.0	994.4	1004.3	1003.6
12.5°	974.6	1001.3	1033.3	1057.8	1073.8	1083.7	1099.7	1115.0	1124.2	1124.9
15°	1053.2	1089.8	1133.3	1164.6	1185.2	1198.2	1220.3	1235.6	1250.9	1249.3
17.5°	1130.3	1174.5	1227.2	1268.4	1287.5	1299.7	1326.4	1342.4	1356.9	1356.9
20°	1199.0	1250.1	1303.5	1341.7	1360.0	1372.2	1395.1	1411.1	1421.8	1425.6
22.5°	1253.9	1301.2	1346.3	1379.1	1390.5	1400.4	1418.0	1431.0	1437.8	1443.9
25°	1284.4	1322.6	1353.1	1376.0	1382.1	1387.5	1397.4	1407.3	1408.8	1417.2
27.5°	1285.2	1313.4	1330.2	1338.6	1339.4	1339.4	1346.3	1350.1	1353.1	1356.2
30°	1257.7	1270.7	1273.8	1274.5	1270.7	1268.4	1273.0	1273.8	1276.0	1276.0
32.5°	1202.8	1205.8	1200.5	1192.1	1189.8	1185.2	1188.3	1186.7	1190.6	1192.9
35°	1132.6	1127.2	1113.5	1107.4	1099.0	1096.7	1099.0	1097.5	1099.7	1105.1
37.5°	1052.4	1041.0	1029.5	1018.8	1012.7	1006.6	1008.9	1011.2	1014.3	1015.8
40°	970.0	954.7	942.5	931.8	925.7	921.2	925.0	927.3	934.1	934.1
42.5°	886.8	870.0	857.8	850.9	846.4	842.6	848.7	850.2	858.6	860.1
45°	804.4	789.9	780.0	773.1	769.3	770.8	776.9	780.7	788.4	792.2
47.5°	728.8	716.6	705.9	702.9	702.9	704.4	710.5	714.3	720.4	725.0
50°	654.8	645.7	638.8	635.0	635.7	638.0	643.4	646.4	652.5	652.5
52.5°	582.3	576.2	573.1	568.6	568.6	567.8	573.1	576.2	580.8	581.5
55°	519.0	513.6	510.6	507.5	506.8	508.3	511.3	513.6	519.0	519.7
57.5°	458.7	456.4	454.1	451.8	451.0	451.8	453.3	454.9	457.9	458.7
60°	403.7	403.0	399.9	397.6	396.9	396.1	395.3	394.6	396.1	395.3
62.5°	353.4	351.1	348.8	344.2	341.9	335.8	328.2	311.4	297.6	290.0
65°	303.7	302.2	291.5	260.2	241.2	216.7	190.8	165.6	157.2	151.9
67.5°	255.7	230.5	192.3	164.8	154.9	145.8	132.0	118.3	110.7	106.1
70°	183.9	162.6	145.0	129.7	122.9	117.5	106.8	96.9	90.1	87.0
72.5°	148.8	135.1	123.6	112.2	106.8	100.7	90.1	80.1	74.0	71.0
75°	124.4	116.0	104.6	93.9	89.3	84.7	77.1	69.4	64.1	61.8
77.5°	98.5	93.9	87.0	78.6	74.8	71.7	64.9	59.5	54.2	51.9
80°	72.5	71.0	66.4	60.3	57.2	54.9	49.6	45.0	40.4	38.9
82.5°	53.4	51.9	48.1	43.5	42.0	39.7	35.9	32.1	29.0	27.5
85°	36.6	35.9	32.8	29.8	28.2	26.7	22.9	19.8	17.6	16.0
87.5°	22.9	22.1	20.6	17.6	16.0	14.5	11.4	9.2	6.9	6.1
90°	11.4	11.4	10.7	8.4	7.6	6.9	4.6	2.3	0.8	0.0
92.5°	3.1	3.1	3.1	2.3	2.3	1.5	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: P256854

CATALOG NUMBER: HGL-S-BA-30L830-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)