

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: P256877

Luminaire Tested: **HGL-S-BA-30L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256877
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-30L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

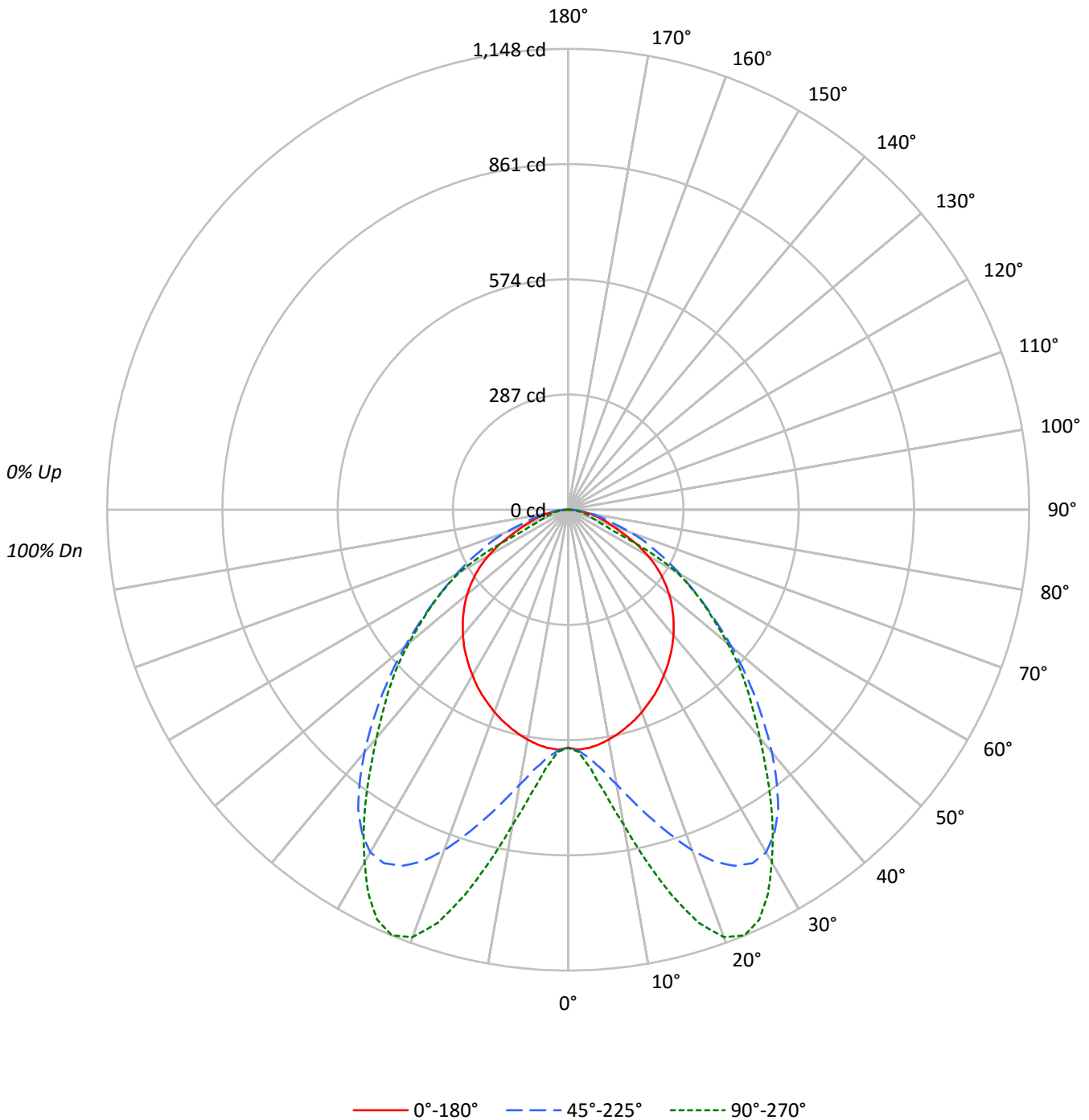
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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°	6966	6966	6966
5°	7019	7307	7606
10°	6932	8239	9436
15°	6815	9589	11930
20°	6702	11145	13935
25°	6577	12493	14302
30°	6446	13117	13412
35°	6344	12776	12216
40°	6235	11774	10978
45°	6119	10572	10017
50°	5976	9332	9005
55°	5753	8139	7959
60°	5362	7144	6860
65°	4643	6191	3067
70°	3993	5218	2118
75°	3654	4049	1916
80°	3274	3287	1675
85°	2698	2856	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	2.7
10°-20°	224.3	9.7
20°-30°	406.0	17.5
30°-40°	487.2	21.0
40°-50°	461.5	19.9
50°-60°	361.6	15.6
60°-70°	201.8	8.7
70°-80°	85.5	3.7
80°-90°	26.6	1.1
90°-100°	1.0	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°	691.7	29.9
0°-40°	1178.9	50.9
0°-60°	2002.1	86.4
0°-90°	2316.0	100.0
90°-120°	1.0	0.0
90°-150°	1.0	0.0
90°-180°	1.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	596	598	622	642	648	56
15°	561	628	796	942	993	158
25°	508	668	979	1098	1126	234
35°	443	683	912	873	878	277
45°	369	625	657	611	630	285
55°	282	454	416	403	413	251
65°	168	210	238	192	121	168
75°	81	84	100	71	49	87
85°	21	24	29	22	13	23
90°	0	5	9	6	0	1
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°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	598.0	597.4	595.6	593.2	593.8	594.4	594.4	595.0	595.6	597.4	601.0
5°	595.6	594.4	593.8	593.2	596.2	598.0	599.8	603.5	607.7	614.4	621.7
7.5°	589.5	589.5	590.7	593.2	599.8	604.1	607.7	616.8	627.1	639.9	653.8
10°	581.6	582.8	586.5	591.9	604.1	610.7	618.0	633.2	650.8	672.0	695.0
12.5°	571.9	574.4	580.4	590.7	608.9	619.2	630.2	653.2	679.3	709.6	743.6
15°	561.0	564.0	573.7	588.9	613.8	628.3	643.5	675.0	710.8	751.5	795.7
17.5°	549.5	553.7	567.1	588.3	620.4	638.6	658.1	699.3	745.4	794.5	849.1
20°	536.8	542.8	559.8	587.1	626.5	649.0	672.6	724.2	780.6	838.8	902.5
22.5°	522.2	530.1	551.3	584.7	632.6	659.3	687.2	747.2	812.7	878.8	948.0
25°	508.2	516.7	541.6	581.6	637.4	667.8	699.9	768.4	841.8	911.6	978.9
27.5°	493.1	502.8	532.5	578.6	641.1	675.0	710.8	786.0	863.0	932.2	992.8
30°	476.1	488.8	522.2	573.7	642.9	680.5	719.3	800.0	876.4	937.0	985.6
32.5°	460.3	474.3	510.7	568.3	643.5	683.5	724.8	804.2	876.4	926.1	955.2
35°	443.3	458.5	499.1	561.6	641.1	682.9	724.2	803.0	863.7	897.6	911.6
37.5°	426.4	442.7	487.0	552.5	635.6	678.7	719.9	790.9	837.6	855.8	852.1
40°	407.6	425.8	471.2	541.0	625.9	667.8	707.2	769.6	799.4	802.4	789.1
42.5°	388.8	407.6	455.5	525.8	609.5	649.6	685.9	735.7	749.6	743.0	722.3
45°	369.4	388.8	436.7	507.6	588.9	625.3	655.6	691.4	691.4	679.3	657.4
47.5°	349.3	368.1	416.7	486.4	562.2	593.8	618.6	639.9	630.2	615.0	593.2
50°	328.1	346.9	394.2	460.9	527.7	553.7	574.4	582.2	567.1	550.1	530.7
52.5°	305.7	324.5	367.5	428.8	487.0	506.4	521.6	521.0	502.8	487.6	470.6
55°	282.0	299.0	337.8	390.6	438.5	454.3	463.4	456.1	439.1	425.2	416.1
57.5°	257.2	271.1	304.5	347.5	383.3	395.4	400.9	391.2	379.1	370.6	365.7
60°	229.3	240.8	264.4	297.8	323.9	332.4	336.0	329.3	325.1	322.7	321.4
62.5°	200.1	205.6	220.8	242.6	264.4	270.5	274.7	276.0	275.4	276.6	279.6
65°	168.0	169.8	174.7	185.6	202.6	209.8	217.7	226.2	231.1	235.9	238.4
67.5°	138.3	138.9	141.3	145.0	151.6	159.5	166.2	178.9	189.8	198.9	205.0
70°	117.1	116.4	117.1	118.9	122.5	125.5	128.6	137.7	149.2	164.4	165.6
72.5°	98.9	98.3	98.9	100.1	101.3	102.5	104.3	108.0	114.6	123.7	125.5
75°	81.3	81.3	81.3	82.5	83.7	84.3	85.5	86.7	89.2	95.8	100.1
77.5°	64.9	64.3	65.5	66.1	66.7	67.9	68.5	69.7	71.0	73.4	76.4
80°	49.1	48.5	49.1	50.3	50.9	52.2	52.2	54.0	54.6	56.4	57.6
82.5°	34.6	34.0	34.6	35.8	35.8	37.0	37.6	38.8	40.0	41.2	42.5
85°	20.6	20.6	21.2	21.8	22.4	23.7	24.3	26.1	27.3	28.5	29.1
87.5°	9.1	9.1	9.7	10.3	11.5	12.7	13.3	14.6	15.8	17.6	17.6
90°	0.0	0.6	1.8	3.0	3.6	4.9	4.9	6.7	7.3	8.5	9.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.8	2.4
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°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	606.5	602.9	605.3	605.9	606.5	605.3	604.1	605.3	604.1	604.1
5°	630.8	630.2	636.2	640.5	642.3	642.3	645.9	648.3	649.0	647.7
7.5°	669.0	672.6	684.7	693.2	698.1	700.5	707.2	710.8	715.7	715.1
10°	719.3	730.8	749.0	761.2	769.6	773.9	783.6	790.3	798.2	797.5
12.5°	774.5	795.7	821.2	840.6	853.3	861.2	874.0	886.1	893.4	894.0
15°	837.0	866.1	900.6	925.5	941.9	952.2	969.8	981.9	994.0	992.8
17.5°	898.2	933.4	975.2	1008.0	1023.2	1032.9	1054.1	1066.8	1078.4	1078.4
20°	952.8	993.4	1035.9	1066.2	1080.8	1090.5	1108.7	1121.4	1129.9	1132.9
22.5°	996.5	1034.1	1069.9	1095.9	1105.0	1112.9	1126.9	1137.2	1142.6	1147.5
25°	1020.7	1051.1	1075.3	1093.5	1098.4	1102.6	1110.5	1118.4	1119.6	1126.3
27.5°	1021.3	1043.8	1057.1	1063.8	1064.4	1064.4	1069.9	1072.9	1075.3	1077.7
30°	999.5	1009.8	1012.2	1012.9	1009.8	1008.0	1011.6	1012.2	1014.1	1014.1
32.5°	955.8	958.3	954.0	947.3	945.5	941.9	944.3	943.1	946.1	948.0
35°	900.0	895.8	884.9	880.0	873.4	871.5	873.4	872.1	874.0	878.2
37.5°	836.4	827.3	818.2	809.7	804.8	800.0	801.8	803.6	806.0	807.2
40°	770.9	758.7	749.0	740.5	735.7	732.0	735.1	736.9	742.4	742.4
42.5°	704.8	691.4	681.7	676.2	672.6	669.6	674.4	675.6	682.3	683.5
45°	639.2	627.7	619.8	614.4	611.3	612.6	617.4	620.4	626.5	629.5
47.5°	579.2	569.5	561.0	558.6	558.6	559.8	564.6	567.7	572.5	576.2
50°	520.4	513.1	507.6	504.6	505.2	507.0	511.3	513.7	518.6	518.6
52.5°	462.8	457.9	455.5	451.8	451.8	451.2	455.5	457.9	461.5	462.2
55°	412.4	408.2	405.7	403.3	402.7	403.9	406.4	408.2	412.4	413.0
57.5°	364.5	362.7	360.9	359.0	358.4	359.0	360.3	361.5	363.9	364.5
60°	320.8	320.2	317.8	316.0	315.4	314.8	314.2	313.6	314.8	314.2
62.5°	280.8	279.0	277.2	273.5	271.7	266.9	260.8	247.5	236.5	230.5
65°	241.4	240.2	231.7	206.8	191.7	172.2	151.6	131.6	124.9	120.7
67.5°	203.2	183.2	152.8	131.0	123.1	115.8	104.9	94.0	87.9	84.3
70°	146.2	129.2	115.2	103.1	97.6	93.4	84.9	77.0	71.6	69.1
72.5°	118.3	107.4	98.3	89.2	84.9	80.1	71.6	63.7	58.8	56.4
75°	98.9	92.2	83.1	74.6	71.0	67.3	61.3	55.2	50.9	49.1
77.5°	78.2	74.6	69.1	62.5	59.4	57.0	51.6	47.3	43.1	41.2
80°	57.6	56.4	52.8	47.9	45.5	43.7	39.4	35.8	32.1	30.9
82.5°	42.5	41.2	38.2	34.6	33.4	31.5	28.5	25.5	23.0	21.8
85°	29.1	28.5	26.1	23.7	22.4	21.2	18.2	15.8	13.9	12.7
87.5°	18.2	17.6	16.4	13.9	12.7	11.5	9.1	7.3	5.5	4.9
90°	9.1	9.1	8.5	6.7	6.1	5.5	3.6	1.8	0.6	0.0
92.5°	2.4	2.4	2.4	1.8	1.8	1.2	0.6	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: P256877

CATALOG NUMBER: HGL-S-BA-30L940-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)