

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: P256871

Luminaire Tested: **HGL-S-BA-30L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256871
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-30L930-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

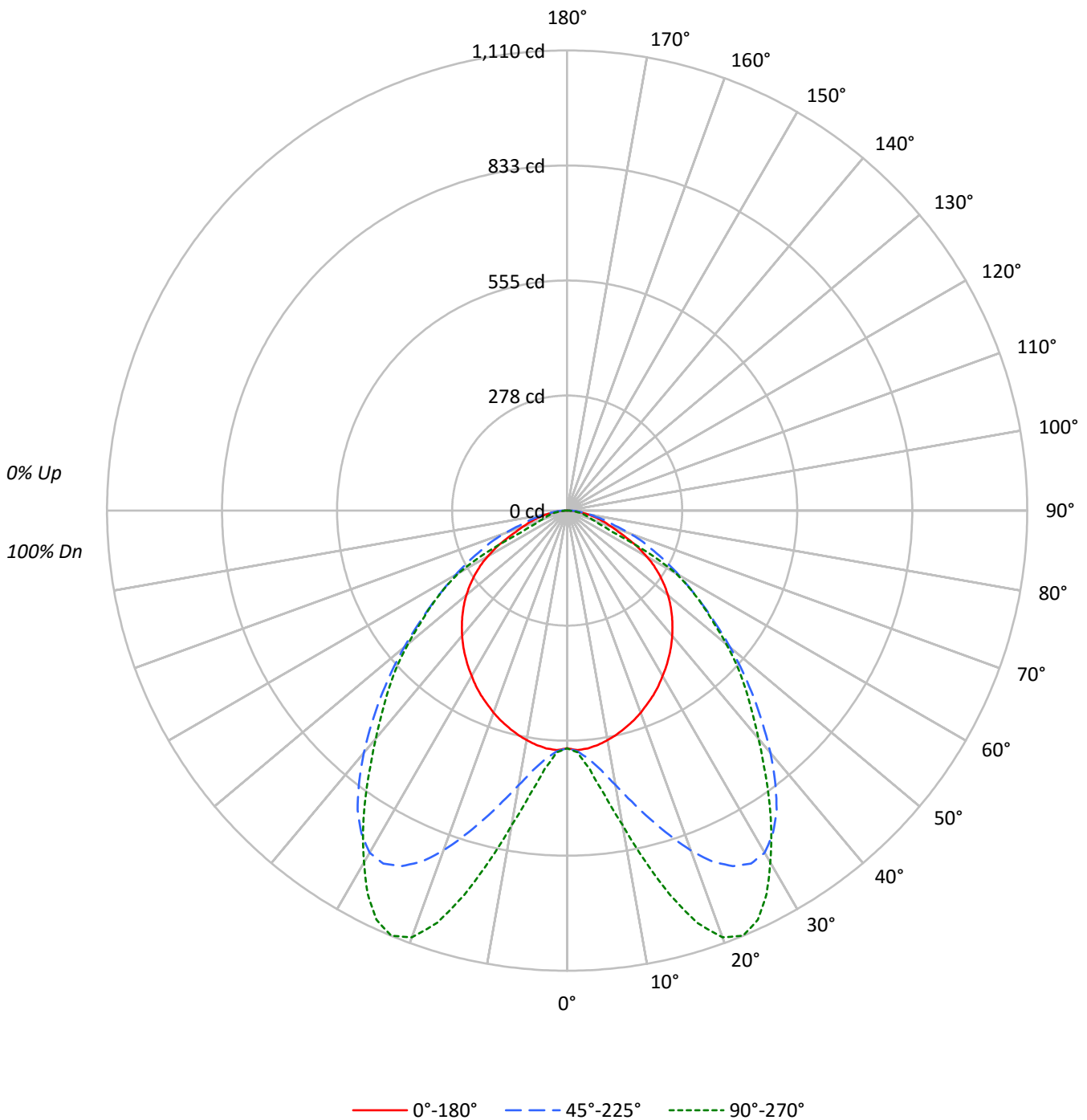
Lumens per Lamp: N/A
Luminaire Lumens: 2240.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

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	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°	6734	6734	6734
5°	6786	7065	7354
10°	6702	7967	9124
15°	6589	9271	11534
20°	6480	10776	13474
25°	6359	12078	13827
30°	6232	12682	12967
35°	6135	12351	11811
40°	6028	11383	10613
45°	5915	10222	9686
50°	5777	9023	8707
55°	5563	7869	7695
60°	5184	6909	6633
65°	4488	5986	2965
70°	3860	5044	2048
75°	3533	3915	1853
80°	3167	3178	1621
85°	2607	2758	1106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	2.7
10°-20°	216.9	9.7
20°-30°	392.5	17.5
30°-40°	471.0	21.0
40°-50°	446.2	19.9
50°-60°	349.6	15.6
60°-70°	195.1	8.7
70°-80°	82.7	3.7
80°-90°	25.7	1.1
90°-100°	0.9	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°	668.8	29.9
0°-40°	1139.8	50.9
0°-60°	1935.7	86.4
0°-90°	2239.2	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	2240.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	576	578	601	621	626	54
15°	542	608	769	911	960	153
25°	491	646	946	1062	1089	226
35°	429	660	881	844	849	268
45°	357	605	636	591	609	275
55°	273	439	402	389	399	243
65°	162	203	230	185	117	162
75°	79	82	97	69	48	84
85°	20	23	28	22	12	22
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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	578.2	577.6	575.8	573.5	574.1	574.7	574.7	575.3	575.8	577.6	581.1
5°	575.8	574.7	574.1	573.5	576.4	578.2	579.9	583.5	587.6	594.0	601.1
7.5°	570.0	570.0	571.1	573.5	579.9	584.0	587.6	596.4	606.3	618.6	632.1
10°	562.3	563.5	567.0	572.3	584.0	590.5	597.5	612.2	629.2	649.7	672.0
12.5°	553.0	555.3	561.2	571.1	588.7	598.7	609.3	631.5	656.8	686.1	718.9
15°	542.4	545.3	554.7	569.4	593.4	607.5	622.2	652.7	687.3	726.5	769.3
17.5°	531.3	535.4	548.3	568.8	599.9	617.5	636.2	676.1	720.7	768.2	820.9
20°	519.0	524.8	541.2	567.6	605.7	627.4	650.3	700.2	754.7	811.0	872.6
22.5°	504.9	512.5	533.0	565.3	611.6	637.4	664.4	722.4	785.8	849.7	916.5
25°	491.4	499.6	523.6	562.3	616.3	645.6	676.7	743.0	813.9	881.3	946.4
27.5°	476.7	486.1	514.9	559.4	619.8	652.7	687.3	760.0	834.4	901.3	959.9
30°	460.3	472.6	504.9	554.7	621.6	657.9	695.5	773.5	847.3	906.0	952.9
32.5°	445.1	458.6	493.7	549.4	622.2	660.9	700.7	777.6	847.3	895.4	923.6
35°	428.7	443.3	482.6	543.0	619.8	660.3	700.2	776.4	835.0	867.9	881.3
37.5°	412.2	428.1	470.9	534.2	614.5	656.2	696.0	764.7	809.8	827.4	823.9
40°	394.1	411.6	455.6	523.1	605.2	645.6	683.7	744.1	772.9	775.8	762.9
42.5°	375.9	394.1	440.4	508.4	589.3	628.0	663.2	711.3	724.8	718.3	698.4
45°	357.1	375.9	422.2	490.8	569.4	604.6	633.9	668.5	668.5	656.8	635.6
47.5°	337.8	355.9	402.9	470.3	543.6	574.1	598.1	618.6	609.3	594.6	573.5
50°	317.2	335.4	381.2	445.7	510.2	535.4	555.3	562.9	548.3	531.9	513.1
52.5°	295.5	313.7	355.4	414.6	470.9	489.6	504.3	503.7	486.1	471.5	455.0
55°	272.7	289.1	326.6	377.6	424.0	439.2	448.0	441.0	424.5	411.1	402.3
57.5°	248.6	262.1	294.4	336.0	370.6	382.3	387.6	378.2	366.5	358.3	353.6
60°	221.7	232.8	255.7	287.9	313.1	321.3	324.9	318.4	314.3	312.0	310.8
62.5°	193.5	198.8	213.4	234.6	255.7	261.5	265.6	266.8	266.2	267.4	270.3
65°	162.4	164.2	168.9	179.4	195.9	202.9	210.5	218.7	223.4	228.1	230.5
67.5°	133.7	134.3	136.6	140.1	146.6	154.2	160.7	173.0	183.5	192.3	198.2
70°	113.2	112.6	113.2	114.9	118.5	121.4	124.3	133.1	144.3	158.9	160.1
72.5°	95.6	95.0	95.6	96.8	97.9	99.1	100.9	104.4	110.8	119.6	121.4
75°	78.6	78.6	78.6	79.7	80.9	81.5	82.7	83.9	86.2	92.6	96.8
77.5°	62.7	62.2	63.3	63.9	64.5	65.7	66.3	67.4	68.6	71.0	73.9
80°	47.5	46.9	47.5	48.7	49.3	50.4	50.4	52.2	52.8	54.5	55.7
82.5°	33.4	32.8	33.4	34.6	34.6	35.8	36.4	37.5	38.7	39.9	41.0
85°	19.9	19.9	20.5	21.1	21.7	22.9	23.5	25.2	26.4	27.6	28.1
87.5°	8.8	8.8	9.4	10.0	11.1	12.3	12.9	14.1	15.2	17.0	17.0
90°	0.0	0.6	1.8	2.9	3.5	4.7	4.7	6.5	7.0	8.2	8.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.8	2.3
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°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	586.4	582.9	585.2	585.8	586.4	585.2	584.0	585.2	584.0	584.0
5°	609.8	609.3	615.1	619.2	621.0	621.0	624.5	626.9	627.4	626.3
7.5°	646.8	650.3	662.0	670.2	674.9	677.3	683.7	687.3	691.9	691.4
10°	695.5	706.6	724.2	735.9	744.1	748.2	757.6	764.1	771.7	771.1
12.5°	748.8	769.3	794.0	812.7	825.1	832.7	845.0	856.7	863.8	864.3
15°	809.2	837.4	870.8	894.8	910.7	920.6	937.6	949.4	961.1	959.9
17.5°	868.4	902.5	942.9	974.6	989.2	998.6	1019.1	1031.5	1042.6	1042.6
20°	921.2	960.5	1001.6	1030.9	1045.0	1054.3	1071.9	1084.2	1092.4	1095.4
22.5°	963.4	999.8	1034.4	1059.6	1068.4	1076.0	1089.5	1099.5	1104.8	1109.5
25°	986.9	1016.2	1039.7	1057.3	1062.0	1066.1	1073.7	1081.3	1082.5	1088.9
27.5°	987.5	1009.2	1022.1	1028.5	1029.1	1029.1	1034.4	1037.3	1039.7	1042.0
30°	966.4	976.3	978.7	979.3	976.3	974.6	978.1	978.7	980.4	980.4
32.5°	924.2	926.5	922.4	915.9	914.2	910.7	913.0	911.8	914.8	916.5
35°	870.2	866.1	855.5	850.9	844.4	842.6	844.4	843.2	845.0	849.1
37.5°	808.6	799.8	791.0	782.8	778.1	773.5	775.2	777.0	779.3	780.5
40°	745.3	733.6	724.2	716.0	711.3	707.8	710.7	712.5	717.7	717.7
42.5°	681.4	668.5	659.1	653.8	650.3	647.4	652.1	653.2	659.7	660.9
45°	618.1	606.9	599.3	594.0	591.1	592.3	596.9	599.9	605.7	608.7
47.5°	560.0	550.6	542.4	540.1	540.1	541.2	545.9	548.9	553.6	557.1
50°	503.1	496.1	490.8	487.9	488.5	490.2	494.3	496.7	501.4	501.4
52.5°	447.4	442.7	440.4	436.9	436.9	436.3	440.4	442.7	446.2	446.8
55°	398.7	394.6	392.3	390.0	389.4	390.5	392.9	394.6	398.7	399.3
57.5°	352.4	350.7	348.9	347.1	346.6	347.1	348.3	349.5	351.8	352.4
60°	310.2	309.6	307.3	305.5	304.9	304.3	303.8	303.2	304.3	303.8
62.5°	271.5	269.7	268.0	264.5	262.7	258.0	252.1	239.2	228.7	222.8
65°	233.4	232.2	224.0	200.0	185.3	166.5	146.6	127.2	120.8	116.7
67.5°	196.4	177.1	147.8	126.7	119.0	112.0	101.4	90.9	85.0	81.5
70°	141.3	124.9	111.4	99.7	94.4	90.3	82.1	74.5	69.2	66.8
72.5°	114.3	103.8	95.0	86.2	82.1	77.4	69.2	61.6	56.9	54.5
75°	95.6	89.1	80.3	72.1	68.6	65.1	59.2	53.4	49.3	47.5
77.5°	75.6	72.1	66.8	60.4	57.5	55.1	49.8	45.7	41.6	39.9
80°	55.7	54.5	51.0	46.3	44.0	42.2	38.1	34.6	31.1	29.9
82.5°	41.0	39.9	36.9	33.4	32.3	30.5	27.6	24.6	22.3	21.1
85°	28.1	27.6	25.2	22.9	21.7	20.5	17.6	15.2	13.5	12.3
87.5°	17.6	17.0	15.8	13.5	12.3	11.1	8.8	7.0	5.3	4.7
90°	8.8	8.8	8.2	6.5	5.9	5.3	3.5	1.8	0.6	0.0
92.5°	2.3	2.3	2.3	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: P256871

CATALOG NUMBER: HGL-S-BA-30L930-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)