

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: P256913

Luminaire Tested: **HGL-S-BA-30L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256913
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

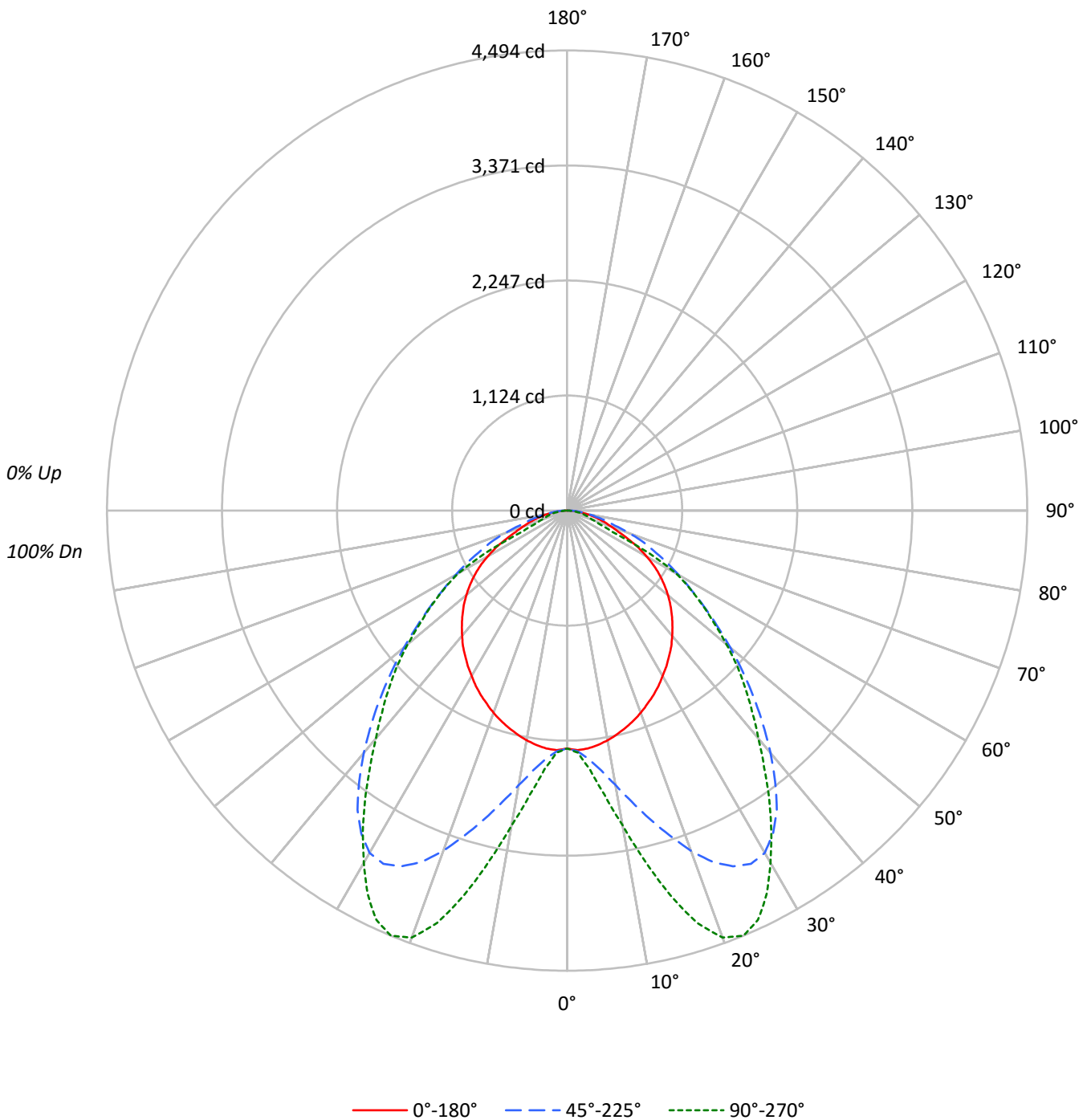
Lumens per Lamp: N/A
Luminaire Lumens: 9074.1 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 65.1
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	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°	9093	9093	9093
5°	9164	9540	9929
10°	9052	10759	12320
15°	8901	12522	15574
20°	8753	14555	18193
25°	8593	16318	18670
30°	8423	17134	17508
35°	8292	16691	15947
40°	8150	15384	14330
45°	8000	13818	13077
50°	7817	12199	11755
55°	7528	10641	10391
60°	7018	9346	8955
65°	6082	8100	4003
70°	5234	6830	2767
75°	4799	5304	2502
80°	4316	4316	2188
85°	3594	3766	1495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	2.7
10°-20°	878.4	9.7
20°-30°	1589.9	17.5
30°-40°	1908.0	21.0
40°-50°	1807.5	19.9
50°-60°	1416.2	15.6
60°-70°	790.4	8.7
70°-80°	335.0	3.7
80°-90°	104.2	1.1
90°-100°	3.8	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°	2709.0	29.9
0°-40°	4617.0	50.9
0°-60°	7840.8	86.4
0°-90°	9070.3	100.0
90°-120°	3.8	0.0
90°-150°	3.8	0.0
90°-180°	4.0	0.0
0°-180°	9074.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2332	2342	2435	2515	2537	221
15°	2197	2461	3116	3689	3888	620
25°	1990	2615	3834	4302	4411	917
35°	1736	2674	3570	3420	3439	1087
45°	1446	2449	2575	2394	2466	1115
55°	1104	1779	1629	1577	1618	984
65°	658	822	934	751	473	658
75°	318	330	392	278	192	339
85°	81	93	114	88	50	90
90°	0	19	36	24	0	5
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°	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0
2.5°	2342.0	2339.6	2332.5	2323.0	2325.4	2327.8	2327.8	2330.1	2332.5	2339.6	2353.9
5°	2332.5	2327.8	2325.4	2323.0	2334.9	2342.0	2349.1	2363.4	2380.0	2406.1	2434.6
7.5°	2308.8	2308.8	2313.5	2323.0	2349.1	2365.8	2380.0	2415.6	2456.0	2505.9	2560.5
10°	2277.9	2282.6	2296.9	2318.3	2365.8	2391.9	2420.4	2479.8	2548.7	2631.8	2722.0
12.5°	2239.9	2249.4	2273.1	2313.5	2384.8	2425.1	2467.9	2558.2	2660.3	2779.1	2912.1
15°	2197.1	2209.0	2247.0	2306.4	2403.8	2460.8	2520.1	2643.7	2783.8	2942.9	3116.3
17.5°	2152.0	2168.6	2220.9	2304.0	2429.9	2501.1	2577.2	2738.7	2919.2	3111.6	3325.4
20°	2102.1	2125.9	2192.4	2299.3	2453.6	2541.5	2634.2	2836.1	3057.0	3285.0	3534.4
22.5°	2045.1	2076.0	2159.1	2289.7	2477.4	2581.9	2691.2	2926.3	3182.8	3441.7	3712.5
25°	1990.5	2023.7	2121.1	2277.9	2496.4	2615.2	2741.0	3009.5	3296.9	3570.0	3833.7
27.5°	1931.1	1969.1	2085.5	2266.0	2510.6	2643.7	2783.8	3078.3	3380.0	3650.8	3888.3
30°	1864.6	1914.5	2045.1	2247.0	2517.8	2665.0	2817.1	3133.0	3432.2	3669.8	3859.8
32.5°	1802.8	1857.5	2000.0	2225.6	2520.1	2676.9	2838.4	3149.6	3432.2	3627.0	3741.0
35°	1736.3	1795.7	1954.8	2199.5	2510.6	2674.5	2836.1	3144.8	3382.4	3515.4	3570.0
37.5°	1669.8	1733.9	1907.3	2163.9	2489.3	2657.9	2819.4	3097.3	3280.2	3351.5	3337.2
40°	1596.2	1667.4	1845.6	2118.7	2451.3	2615.2	2769.6	3014.2	3130.6	3142.5	3090.2
42.5°	1522.5	1596.2	1783.8	2059.3	2387.1	2543.9	2686.4	2881.2	2935.8	2909.7	2828.9
45°	1446.5	1522.5	1710.2	1988.1	2306.4	2448.9	2567.7	2707.8	2707.8	2660.3	2574.8
47.5°	1368.1	1441.8	1631.8	1905.0	2201.9	2325.4	2422.8	2505.9	2467.9	2408.5	2323.0
50°	1285.0	1358.6	1543.9	1805.2	2066.5	2168.6	2249.4	2280.2	2220.9	2154.4	2078.4
52.5°	1197.1	1270.8	1439.4	1679.3	1907.3	1983.3	2042.7	2040.3	1969.1	1909.7	1843.2
55°	1104.5	1171.0	1323.0	1529.7	1717.3	1779.1	1814.7	1786.2	1719.7	1665.1	1629.4
57.5°	1007.1	1061.7	1192.4	1361.0	1501.2	1548.7	1570.0	1532.0	1484.5	1451.3	1432.3
60°	897.8	943.0	1035.6	1166.3	1268.4	1301.6	1315.9	1289.8	1273.1	1263.6	1258.9
62.5°	783.8	805.2	864.6	950.1	1035.6	1059.4	1076.0	1080.7	1078.4	1083.1	1095.0
65°	657.9	665.1	684.1	726.8	793.3	821.8	852.7	886.0	905.0	924.0	933.5
67.5°	541.6	543.9	553.4	567.7	593.8	624.7	650.8	700.7	743.5	779.1	802.8
70°	458.4	456.0	458.4	465.6	479.8	491.7	503.6	539.2	584.3	643.7	648.4
72.5°	387.2	384.8	387.2	391.9	396.7	401.4	408.5	422.8	448.9	484.6	491.7
75°	318.3	318.3	318.3	323.0	327.8	330.2	334.9	339.7	349.2	375.3	391.9
77.5°	254.2	251.8	256.5	258.9	261.3	266.0	268.4	273.2	277.9	287.4	299.3
80°	192.4	190.0	192.4	197.1	199.5	204.3	204.3	211.4	213.8	220.9	225.6
82.5°	135.4	133.0	135.4	140.1	140.1	144.9	147.3	152.0	156.8	161.5	166.3
85°	80.8	80.8	83.1	85.5	87.9	92.6	95.0	102.1	106.9	111.6	114.0
87.5°	35.6	35.6	38.0	40.4	45.1	49.9	52.3	57.0	61.8	68.9	68.9
90°	0.0	2.4	7.1	11.9	14.3	19.0	19.0	26.1	28.5	33.3	35.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	4.8	7.1	9.5
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°	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0	2323.0
2.5°	2375.3	2361.0	2370.5	2372.9	2375.3	2370.5	2365.8	2370.5	2365.8	2365.8
5°	2470.3	2467.9	2491.6	2508.3	2515.4	2515.4	2529.7	2539.2	2541.5	2536.8
7.5°	2619.9	2634.2	2681.7	2714.9	2733.9	2743.4	2769.6	2783.8	2802.8	2800.4
10°	2817.1	2862.2	2933.4	2980.9	3014.2	3030.8	3068.8	3095.0	3125.8	3123.5
12.5°	3033.2	3116.3	3216.1	3292.1	3342.0	3372.9	3422.7	3470.3	3498.8	3501.1
15°	3277.9	3391.9	3527.3	3624.6	3688.8	3729.2	3798.0	3845.5	3893.0	3888.3
17.5°	3517.8	3655.5	3819.4	3947.7	4007.1	4045.1	4128.2	4178.1	4223.2	4223.2
20°	3731.5	3890.7	4056.9	4175.7	4232.7	4270.7	4342.0	4391.9	4425.1	4437.0
22.5°	3902.6	4049.8	4190.0	4292.1	4327.7	4358.6	4413.2	4453.6	4475.0	4494.0
25°	3997.6	4116.3	4211.3	4282.6	4301.6	4318.2	4349.1	4380.0	4384.7	4410.9
27.5°	3999.9	4087.8	4140.1	4166.2	4168.6	4168.6	4190.0	4201.8	4211.3	4220.8
30°	3914.4	3954.8	3964.3	3966.7	3954.8	3947.7	3961.9	3964.3	3971.4	3971.4
32.5°	3743.4	3752.9	3736.3	3710.2	3703.0	3688.8	3698.3	3693.5	3705.4	3712.5
35°	3524.9	3508.3	3465.5	3446.5	3420.4	3413.2	3420.4	3415.6	3422.7	3439.4
37.5°	3275.5	3239.9	3204.2	3171.0	3152.0	3133.0	3140.1	3147.2	3156.7	3161.5
40°	3019.0	2971.4	2933.4	2900.2	2881.2	2866.9	2878.8	2885.9	2907.3	2907.3
42.5°	2760.1	2707.8	2669.8	2648.4	2634.2	2622.3	2641.3	2646.0	2672.2	2676.9
45°	2503.5	2458.4	2427.5	2406.1	2394.3	2399.0	2418.0	2429.9	2453.6	2465.5
47.5°	2268.4	2230.4	2197.1	2187.6	2187.6	2192.4	2211.4	2223.2	2242.2	2256.5
50°	2038.0	2009.5	1988.1	1976.2	1978.6	1985.7	2002.3	2011.8	2030.8	2030.8
52.5°	1812.3	1793.3	1783.8	1769.6	1769.6	1767.2	1783.8	1793.3	1807.6	1809.9
55°	1615.2	1598.5	1589.0	1579.5	1577.2	1581.9	1591.4	1598.5	1615.2	1617.6
57.5°	1427.5	1420.4	1413.3	1406.2	1403.8	1406.2	1410.9	1415.7	1425.2	1427.5
60°	1256.5	1254.1	1244.6	1237.5	1235.1	1232.8	1230.4	1228.0	1232.8	1230.4
62.5°	1099.7	1092.6	1085.5	1071.2	1064.1	1045.1	1021.4	969.1	926.4	902.6
65°	945.4	940.6	907.3	810.0	750.6	674.6	593.8	515.4	489.3	472.7
67.5°	795.7	717.3	598.6	513.1	482.2	453.7	410.9	368.2	344.4	330.2
70°	572.4	505.9	451.3	403.8	382.4	365.8	332.5	301.7	280.3	270.8
72.5°	463.2	420.4	384.8	349.2	332.5	313.5	280.3	249.4	230.4	220.9
75°	387.2	361.0	325.4	292.2	277.9	263.7	239.9	216.1	199.5	192.4
77.5°	306.4	292.2	270.8	244.7	232.8	223.3	201.9	185.3	168.6	161.5
80°	225.6	220.9	206.6	187.6	178.1	171.0	154.4	140.1	125.9	121.1
82.5°	166.3	161.5	149.6	135.4	130.6	123.5	111.6	99.8	90.3	85.5
85°	114.0	111.6	102.1	92.6	87.9	83.1	71.3	61.8	54.6	49.9
87.5°	71.3	68.9	64.1	54.6	49.9	45.1	35.6	28.5	21.4	19.0
90°	35.6	35.6	33.3	26.1	23.8	21.4	14.3	7.1	2.4	0.0
92.5°	9.5	9.5	9.5	7.1	7.1	4.8	2.4	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: P256913

CATALOG NUMBER: HGL-S-BA-30L835-UNV-12

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)