

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: P256919

Luminaire Tested: **HGL-S-BA-40L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256919
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-40L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

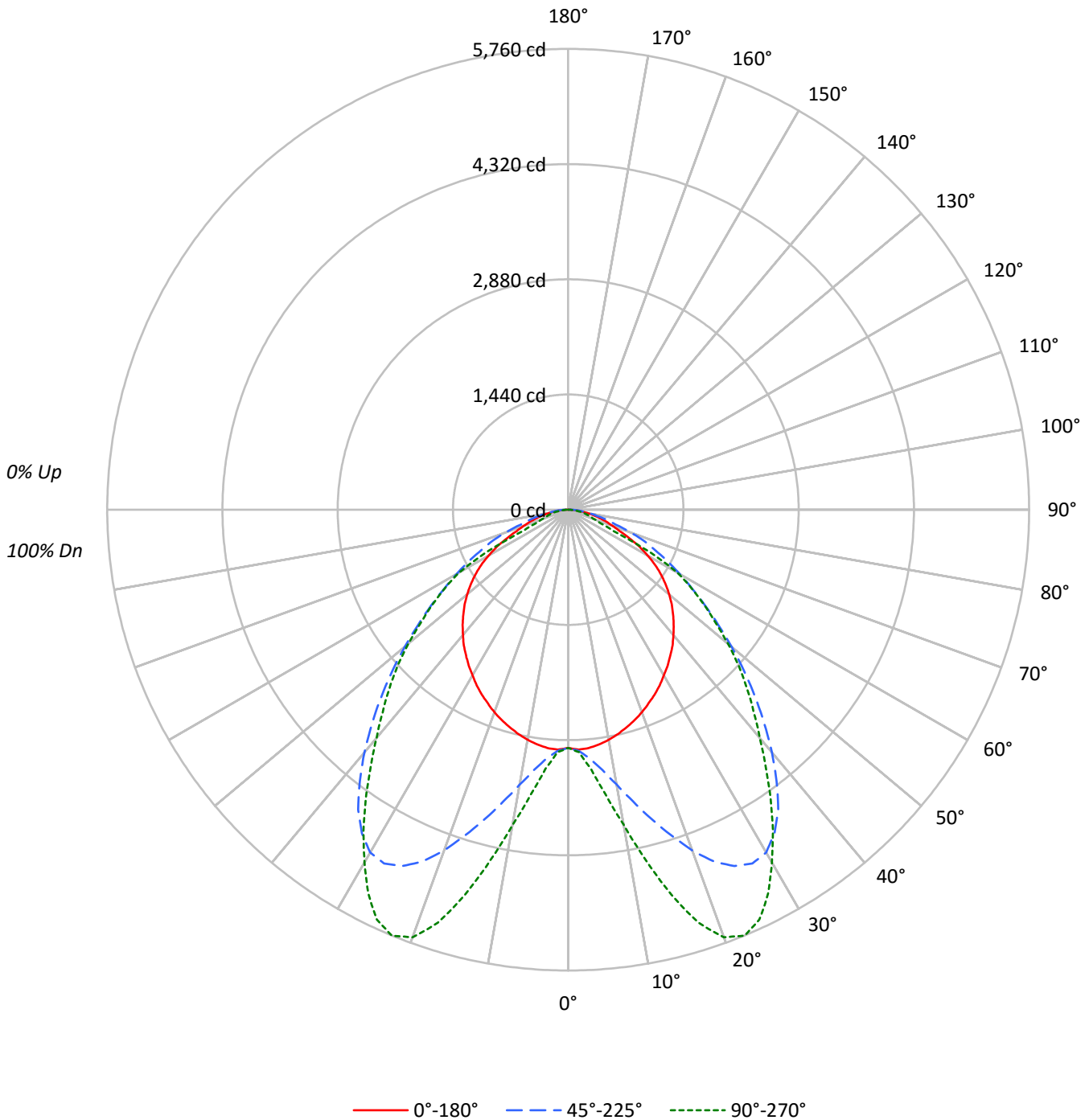
Lumens per Lamp: N/A
Luminaire Lumens: 11631.4 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 85.7
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	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°	11655	11655	11655
5°	11747	12228	12728
10°	11603	13791	15791
15°	11410	16052	19963
20°	11220	18658	23320
25°	11015	20916	23931
30°	10797	21963	22443
35°	10629	21395	20441
40°	10447	19719	18369
45°	10255	17712	16763
50°	10020	15637	15068
55°	9650	13640	13319
60°	8997	11980	11478
65°	7797	10382	5131
70°	6709	8756	3547
75°	6151	6800	3207
80°	5532	5532	2806
85°	4604	4827	1915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	2.7
10°-20°	1126.0	9.7
20°-30°	2037.9	17.5
30°-40°	2445.7	21.0
40°-50°	2316.9	19.9
50°-60°	1815.4	15.6
60°-70°	1013.2	8.7
70°-80°	429.4	3.7
80°-90°	133.6	1.1
90°-100°	4.8	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°	3472.5	29.9
0°-40°	5918.3	50.9
0°-60°	10050.5	86.4
0°-90°	11626.6	100.0
90°-120°	4.8	0.0
90°-150°	4.8	0.0
90°-180°	5.0	0.0
0°-180°	11631.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2990	3002	3121	3224	3252	283
15°	2816	3154	3995	4728	4984	794
25°	2551	3352	4914	5514	5654	1175
35°	2226	3428	4576	4384	4409	1393
45°	1854	3139	3300	3069	3160	1430
55°	1416	2280	2089	2022	2073	1261
65°	843	1054	1197	962	606	843
75°	408	423	502	356	247	434
85°	104	119	146	113	64	115
90°	0	24	46	30	0	6
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°	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7
2.5°	3002.0	2999.0	2989.9	2977.7	2980.7	2983.8	2983.8	2986.8	2989.9	2999.0	3017.3
5°	2989.9	2983.8	2980.7	2977.7	2992.9	3002.0	3011.2	3029.4	3050.8	3084.3	3120.8
7.5°	2959.4	2959.4	2965.5	2977.7	3011.2	3032.5	3050.8	3096.4	3148.2	3212.1	3282.2
10°	2919.8	2925.9	2944.2	2971.6	3032.5	3066.0	3102.5	3178.6	3266.9	3373.5	3489.2
12.5°	2871.1	2883.3	2913.8	2965.5	3056.9	3108.6	3163.4	3279.1	3410.0	3562.3	3732.8
15°	2816.3	2831.5	2880.3	2956.4	3081.2	3154.3	3230.4	3388.7	3568.4	3772.3	3994.6
17.5°	2758.5	2779.8	2846.8	2953.3	3114.7	3206.0	3303.5	3510.5	3741.9	3988.5	4262.5
20°	2694.5	2725.0	2810.2	2947.2	3145.1	3257.8	3376.5	3635.3	3918.5	4210.8	4530.5
22.5°	2621.5	2661.0	2767.6	2935.1	3175.6	3309.6	3449.6	3751.0	4079.9	4411.7	4758.8
25°	2551.4	2594.1	2718.9	2919.8	3200.0	3352.2	3513.6	3857.6	4226.0	4576.1	4914.1
27.5°	2475.3	2524.0	2673.2	2904.6	3218.2	3388.7	3568.4	3945.9	4332.6	4679.7	4984.1
30°	2390.1	2454.0	2621.5	2880.3	3227.4	3416.1	3611.0	4015.9	4399.6	4704.0	4947.6
32.5°	2310.9	2380.9	2563.6	2852.9	3230.4	3431.3	3638.4	4037.2	4399.6	4649.2	4795.4
35°	2225.7	2301.8	2505.8	2819.4	3218.2	3428.3	3635.3	4031.1	4335.6	4506.1	4576.1
37.5°	2140.4	2222.6	2444.9	2773.7	3190.8	3407.0	3614.0	3970.3	4204.7	4296.0	4277.8
40°	2046.0	2137.4	2365.7	2715.8	3142.1	3352.2	3550.1	3863.7	4012.9	4028.1	3961.1
42.5°	1951.6	2046.0	2286.5	2639.7	3059.9	3260.8	3443.5	3693.2	3763.2	3729.7	3626.2
45°	1854.2	1951.6	2192.2	2548.4	2956.4	3139.1	3291.3	3470.9	3470.9	3410.0	3300.4
47.5°	1753.7	1848.1	2091.7	2441.8	2822.4	2980.7	3105.6	3212.1	3163.4	3087.3	2977.7
50°	1647.2	1741.6	1979.0	2314.0	2648.9	2779.8	2883.3	2922.9	2846.8	2761.5	2664.1
52.5°	1534.5	1628.9	1845.1	2152.6	2444.9	2542.3	2618.4	2615.4	2524.0	2447.9	2362.7
55°	1415.8	1501.0	1695.9	1960.8	2201.3	2280.5	2326.1	2289.6	2204.3	2134.3	2088.6
57.5°	1290.9	1361.0	1528.4	1744.6	1924.2	1985.1	2012.5	1963.8	1902.9	1860.3	1835.9
60°	1150.9	1208.7	1327.5	1494.9	1625.9	1668.5	1686.7	1653.3	1631.9	1619.8	1613.7
62.5°	1004.7	1032.1	1108.3	1217.9	1327.5	1357.9	1379.2	1385.3	1382.3	1388.4	1403.6
65°	843.4	852.5	876.9	931.7	1016.9	1053.5	1093.0	1135.7	1160.0	1184.4	1196.6
67.5°	694.2	697.2	709.4	727.7	761.2	800.7	834.2	898.2	953.0	998.7	1029.1
70°	587.6	584.6	587.6	596.8	615.0	630.2	645.5	691.1	749.0	825.1	831.2
72.5°	496.3	493.2	496.3	502.4	508.5	514.5	523.7	542.0	575.4	621.1	630.2
75°	408.0	408.0	408.0	414.1	420.2	423.2	429.3	435.4	447.6	481.1	502.4
77.5°	325.8	322.7	328.8	331.9	334.9	341.0	344.0	350.1	356.2	368.4	383.6
80°	246.6	243.6	246.6	252.7	255.8	261.8	261.8	271.0	274.0	283.2	289.2
82.5°	173.5	170.5	173.5	179.6	179.6	185.7	188.8	194.9	200.9	207.0	213.1
85°	103.5	103.5	106.6	109.6	112.7	118.7	121.8	130.9	137.0	143.1	146.1
87.5°	45.7	45.7	48.7	51.8	57.8	63.9	67.0	73.1	79.2	88.3	88.3
90°	0.0	3.0	9.1	15.2	18.3	24.4	24.4	33.5	36.5	42.6	45.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	6.1	9.1	12.2
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°	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7	2977.7
2.5°	3044.7	3026.4	3038.6	3041.6	3044.7	3038.6	3032.5	3038.6	3032.5	3032.5
5°	3166.5	3163.4	3193.9	3215.2	3224.3	3224.3	3242.6	3254.8	3257.8	3251.7
7.5°	3358.3	3376.5	3437.4	3480.1	3504.4	3516.6	3550.1	3568.4	3592.7	3589.7
10°	3611.0	3668.8	3760.2	3821.1	3863.7	3885.0	3933.7	3967.2	4006.8	4003.7
12.5°	3888.0	3994.6	4122.5	4219.9	4283.9	4323.4	4387.4	4448.3	4484.8	4487.8
15°	4201.6	4347.8	4521.3	4646.2	4728.4	4780.1	4868.4	4929.3	4990.2	4984.1
17.5°	4509.2	4685.8	4895.8	5060.2	5136.4	5185.1	5291.6	5355.6	5413.4	5413.4
20°	4783.2	4987.2	5200.3	5352.5	5425.6	5474.3	5565.7	5629.6	5672.2	5687.4
22.5°	5002.4	5191.2	5370.8	5501.7	5547.4	5587.0	5657.0	5708.8	5736.2	5760.5
25°	5124.2	5276.4	5398.2	5489.5	5513.9	5535.2	5574.8	5614.4	5620.5	5654.0
27.5°	5127.2	5239.9	5306.9	5340.4	5343.4	5343.4	5370.8	5386.0	5398.2	5410.4
30°	5017.6	5069.4	5081.6	5084.6	5069.4	5060.2	5078.5	5081.6	5090.7	5090.7
32.5°	4798.4	4810.6	4789.3	4755.8	4746.6	4728.4	4740.6	4734.5	4749.7	4758.8
35°	4518.3	4497.0	4442.2	4417.8	4384.3	4375.2	4384.3	4378.2	4387.4	4408.7
37.5°	4198.6	4152.9	4107.3	4064.6	4040.3	4015.9	4025.1	4034.2	4046.4	4052.5
40°	3869.8	3808.9	3760.2	3717.5	3693.2	3674.9	3690.1	3699.3	3726.7	3726.7
42.5°	3537.9	3470.9	3422.2	3394.8	3376.5	3361.3	3385.7	3391.8	3425.3	3431.3
45°	3209.1	3151.2	3111.7	3084.3	3069.0	3075.1	3099.5	3114.7	3145.1	3160.4
47.5°	2907.7	2858.9	2816.3	2804.1	2804.1	2810.2	2834.6	2849.8	2874.2	2892.4
50°	2612.3	2575.8	2548.4	2533.2	2536.2	2545.3	2566.7	2578.8	2603.2	2603.2
52.5°	2323.1	2298.7	2286.5	2268.3	2268.3	2265.2	2286.5	2298.7	2317.0	2320.0
55°	2070.4	2049.1	2036.9	2024.7	2021.7	2027.8	2039.9	2049.1	2070.4	2073.4
57.5°	1829.8	1820.7	1811.6	1802.4	1799.4	1802.4	1808.5	1814.6	1826.8	1829.8
60°	1610.6	1607.6	1595.4	1586.3	1583.2	1580.2	1577.1	1574.1	1580.2	1577.1
62.5°	1409.7	1400.5	1391.4	1373.1	1364.0	1339.7	1309.2	1242.2	1187.4	1157.0
65°	1211.8	1205.7	1163.1	1038.2	962.1	864.7	761.2	660.7	627.2	605.9
67.5°	1020.0	919.5	767.3	657.6	618.1	581.5	526.7	471.9	441.5	423.2
70°	733.8	648.5	578.5	517.6	490.2	468.9	426.3	386.7	359.3	347.1
72.5°	593.7	538.9	493.2	447.6	426.3	401.9	359.3	319.7	295.3	283.2
75°	496.3	462.8	417.1	374.5	356.2	338.0	307.5	277.1	255.8	246.6
77.5°	392.8	374.5	347.1	313.6	298.4	286.2	258.8	237.5	216.2	207.0
80°	289.2	283.2	264.9	240.5	228.4	219.2	197.9	179.6	161.4	155.3
82.5°	213.1	207.0	191.8	173.5	167.5	158.3	143.1	127.9	115.7	109.6
85°	146.1	143.1	130.9	118.7	112.7	106.6	91.3	79.2	70.0	63.9
87.5°	91.3	88.3	82.2	70.0	63.9	57.8	45.7	36.5	27.4	24.4
90°	45.7	45.7	42.6	33.5	30.4	27.4	18.3	9.1	3.0	0.0
92.5°	12.2	12.2	12.2	9.1	9.1	6.1	3.0	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: P256919

CATALOG NUMBER: HGL-S-BA-40L840-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)