

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: P256918

Luminaire Tested: **HGL-S-BA-30L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256918
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-30L840-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

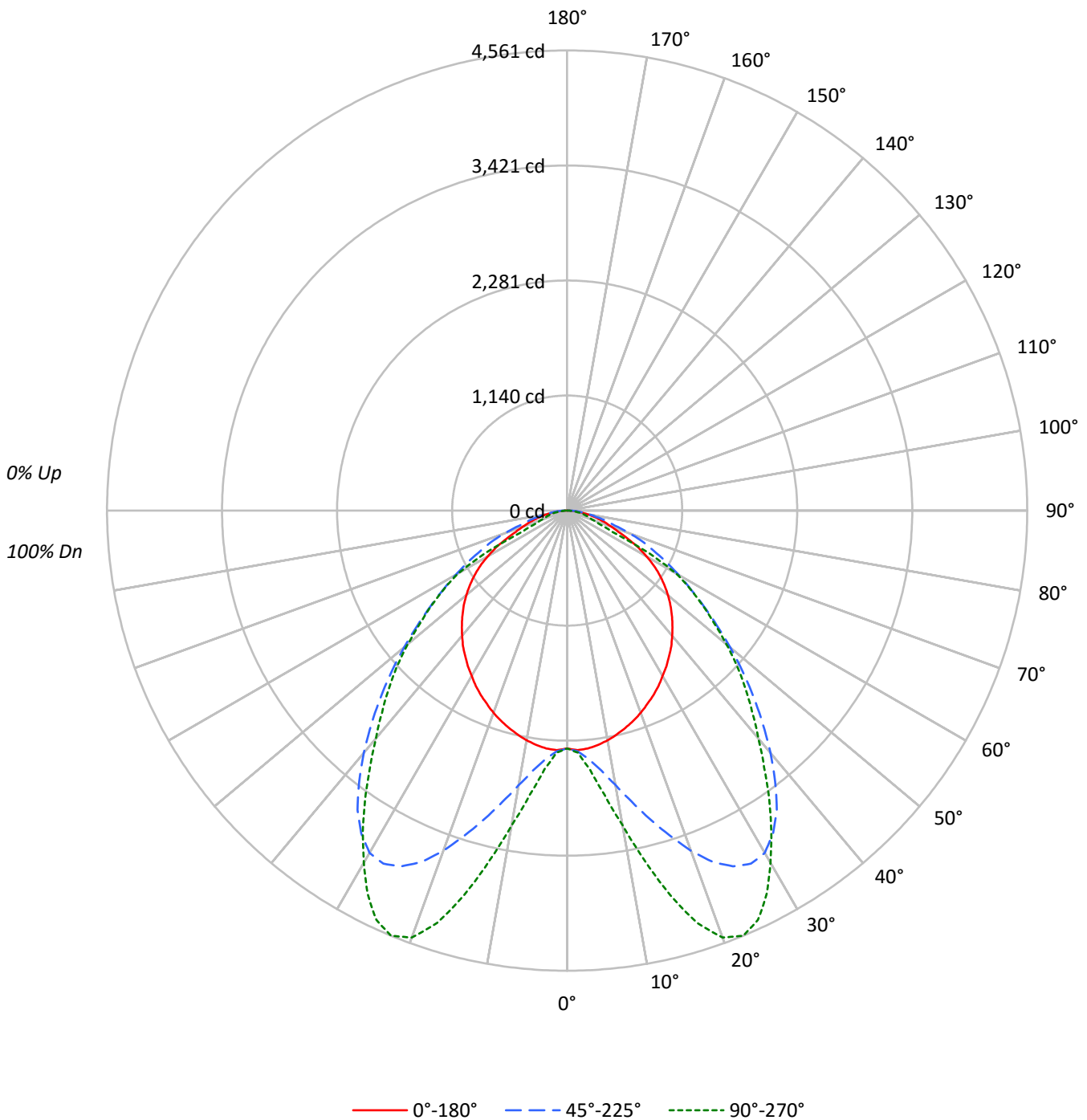
Lumens per Lamp: N/A
Luminaire Lumens: 9209.2 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

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°	9228	9228	9228
5°	9300	9682	10077
10°	9187	10919	12503
15°	9034	12709	15806
20°	8884	14772	18464
25°	8721	16561	18947
30°	8548	17389	17769
35°	8415	16940	16185
40°	8271	15613	14544
45°	8120	14024	13272
50°	7934	12380	11930
55°	7640	10800	10545
60°	7123	9485	9088
65°	6173	8220	4063
70°	5313	6932	2808
75°	4870	5384	2540
80°	4381	4381	2221
85°	3648	3822	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	2.7
10°-20°	891.5	9.7
20°-30°	1613.6	17.5
30°-40°	1936.4	21.0
40°-50°	1834.4	19.9
50°-60°	1437.3	15.6
60°-70°	802.2	8.7
70°-80°	339.9	3.7
80°-90°	105.8	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°	2749.4	29.9
0°-40°	4685.8	50.9
0°-60°	7957.5	86.4
0°-90°	9205.4	100.0
90°-120°	3.8	0.0
90°-150°	3.8	0.0
90°-180°	4.0	0.0
0°-180°	9209.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2367	2377	2471	2553	2575	224
15°	2230	2497	3163	3744	3946	629
25°	2020	2654	3891	4366	4476	930
35°	1762	2714	3623	3471	3491	1103
45°	1468	2485	2613	2430	2502	1132
55°	1121	1806	1654	1601	1642	998
65°	668	834	947	762	480	667
75°	323	335	398	282	195	344
85°	82	94	116	89	51	91
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°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2376.9	2374.5	2367.2	2357.6	2360.0	2362.4	2362.4	2364.8	2367.2	2374.5	2388.9
5°	2367.2	2362.4	2360.0	2357.6	2369.7	2376.9	2384.1	2398.6	2415.5	2442.0	2470.9
7.5°	2343.1	2343.1	2348.0	2357.6	2384.1	2401.0	2415.5	2451.6	2492.6	2543.2	2598.7
10°	2311.8	2316.6	2331.1	2352.8	2401.0	2427.5	2456.4	2516.7	2586.6	2671.0	2762.6
12.5°	2273.2	2282.9	2307.0	2348.0	2420.3	2461.3	2504.6	2596.2	2699.9	2820.4	2955.4
15°	2229.8	2241.9	2280.5	2340.7	2439.6	2497.4	2557.7	2683.0	2825.3	2986.8	3162.7
17.5°	2184.0	2200.9	2253.9	2338.3	2466.1	2538.4	2615.5	2779.5	2962.7	3157.9	3374.9
20°	2133.4	2157.5	2225.0	2333.5	2490.2	2579.4	2673.4	2878.3	3102.5	3333.9	3587.0
22.5°	2075.6	2106.9	2191.3	2323.8	2514.3	2620.4	2731.2	2969.9	3230.2	3493.0	3767.8
25°	2020.1	2053.9	2152.7	2311.8	2533.6	2654.1	2781.9	3054.3	3346.0	3623.2	3890.8
27.5°	1959.8	1998.4	2116.5	2299.7	2548.0	2683.0	2825.3	3124.2	3430.3	3705.1	3946.2
30°	1892.3	1943.0	2075.6	2280.5	2555.3	2704.7	2859.0	3179.6	3483.4	3724.4	3917.3
32.5°	1829.7	1885.1	2029.8	2258.8	2557.7	2716.8	2880.7	3196.5	3483.4	3681.0	3796.7
35°	1762.2	1822.4	1983.9	2232.2	2548.0	2714.4	2878.3	3191.7	3432.7	3567.7	3623.2
37.5°	1694.7	1759.8	1935.7	2196.1	2526.3	2697.5	2861.4	3143.5	3329.1	3401.4	3386.9
40°	1619.9	1692.3	1873.1	2150.3	2487.8	2654.1	2810.8	3059.1	3177.2	3189.3	3136.2
42.5°	1545.2	1619.9	1810.4	2090.0	2422.7	2581.8	2726.4	2924.1	2979.5	2953.0	2871.1
45°	1468.1	1545.2	1735.7	2017.7	2340.7	2485.4	2605.9	2748.1	2748.1	2699.9	2613.1
47.5°	1388.5	1463.3	1656.1	1933.3	2234.7	2360.0	2458.8	2543.2	2504.6	2444.4	2357.6
50°	1304.2	1378.9	1566.9	1832.1	2097.2	2200.9	2282.9	2314.2	2253.9	2186.4	2109.3
52.5°	1215.0	1289.7	1460.8	1704.3	1935.7	2012.9	2073.1	2070.7	1998.4	1938.1	1870.6
55°	1120.9	1188.4	1342.7	1552.4	1742.9	1805.6	1841.7	1812.8	1745.3	1689.9	1653.7
57.5°	1022.1	1077.6	1210.1	1381.3	1523.5	1571.7	1593.4	1554.9	1506.6	1472.9	1453.6
60°	911.2	957.0	1051.0	1183.6	1287.3	1321.0	1335.5	1309.0	1292.1	1282.5	1277.6
62.5°	795.5	817.2	877.5	964.3	1051.0	1075.1	1092.0	1096.8	1094.4	1099.2	1111.3
65°	667.7	675.0	694.3	737.7	805.2	834.1	865.4	899.2	918.5	937.7	947.4
67.5°	549.6	552.0	561.7	576.1	602.7	634.0	660.5	711.1	754.5	790.7	814.8
70°	465.3	462.8	465.3	472.5	486.9	499.0	511.1	547.2	593.0	653.3	658.1
72.5°	392.9	390.5	392.9	397.8	402.6	407.4	414.6	429.1	455.6	491.8	499.0
75°	323.0	323.0	323.0	327.8	332.7	335.1	339.9	344.7	354.4	380.9	397.8
77.5°	257.9	255.5	260.3	262.8	265.2	270.0	272.4	277.2	282.0	291.7	303.7
80°	195.3	192.9	195.3	200.1	202.5	207.3	207.3	214.5	217.0	224.2	229.0
82.5°	137.4	135.0	137.4	142.2	142.2	147.0	149.5	154.3	159.1	163.9	168.7
85°	82.0	82.0	84.4	86.8	89.2	94.0	96.4	103.7	108.5	113.3	115.7
87.5°	36.2	36.2	38.6	41.0	45.8	50.6	53.0	57.9	62.7	69.9	69.9
90°	0.0	2.4	7.2	12.1	14.5	19.3	19.3	26.5	28.9	33.7	36.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	4.8	7.2	9.6
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°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2410.6	2396.2	2405.8	2408.2	2410.6	2405.8	2401.0	2405.8	2401.0	2401.0
5°	2507.1	2504.6	2528.8	2545.6	2552.9	2552.9	2567.3	2577.0	2579.4	2574.6
7.5°	2658.9	2673.4	2721.6	2755.4	2774.6	2784.3	2810.8	2825.3	2844.5	2842.1
10°	2859.0	2904.8	2977.1	3025.3	3059.1	3076.0	3114.5	3141.1	3172.4	3170.0
12.5°	3078.4	3162.7	3264.0	3341.1	3391.8	3423.1	3473.7	3521.9	3550.9	3553.3
15°	3326.7	3442.4	3579.8	3678.6	3743.7	3784.7	3854.6	3902.8	3951.0	3946.2
17.5°	3570.1	3710.0	3876.3	4006.5	4066.7	4105.3	4189.7	4240.3	4286.1	4286.1
20°	3787.1	3948.6	4117.4	4237.9	4295.7	4334.3	4406.6	4457.3	4491.0	4503.1
22.5°	3960.7	4110.1	4252.4	4356.0	4392.2	4423.5	4479.0	4519.9	4541.6	4560.9
25°	4057.1	4177.6	4274.0	4346.4	4365.7	4382.5	4413.9	4445.2	4450.0	4476.5
27.5°	4059.5	4148.7	4201.7	4228.2	4230.7	4230.7	4252.4	4264.4	4274.0	4283.7
30°	3972.7	4013.7	4023.3	4025.8	4013.7	4006.5	4020.9	4023.3	4030.6	4030.6
32.5°	3799.2	3808.8	3791.9	3765.4	3758.2	3743.7	3753.4	3748.5	3760.6	3767.8
35°	3577.4	3560.5	3517.1	3497.8	3471.3	3464.1	3471.3	3466.5	3473.7	3490.6
37.5°	3324.3	3288.1	3251.9	3218.2	3198.9	3179.6	3186.9	3194.1	3203.7	3208.6
40°	3063.9	3015.7	2977.1	2943.4	2924.1	2909.6	2921.7	2928.9	2950.6	2950.6
42.5°	2801.2	2748.1	2709.5	2687.9	2673.4	2661.3	2680.6	2685.4	2712.0	2716.8
45°	2540.8	2495.0	2463.7	2442.0	2429.9	2434.7	2454.0	2466.1	2490.2	2502.2
47.5°	2302.2	2263.6	2229.8	2220.2	2220.2	2225.0	2244.3	2256.4	2275.6	2290.1
50°	2068.3	2039.4	2017.7	2005.6	2008.1	2015.3	2032.2	2041.8	2061.1	2061.1
52.5°	1839.3	1820.0	1810.4	1795.9	1795.9	1793.5	1810.4	1820.0	1834.5	1836.9
55°	1639.2	1622.4	1612.7	1603.1	1600.7	1605.5	1615.1	1622.4	1639.2	1641.6
57.5°	1448.8	1441.6	1434.3	1427.1	1424.7	1427.1	1431.9	1436.7	1446.4	1448.8
60°	1275.2	1272.8	1263.2	1255.9	1253.5	1251.1	1248.7	1246.3	1251.1	1248.7
62.5°	1116.1	1108.9	1101.7	1087.2	1080.0	1060.7	1036.6	983.5	940.1	916.0
65°	959.4	954.6	920.9	822.0	761.8	684.6	602.7	523.1	496.6	479.7
67.5°	807.6	728.0	607.5	520.7	489.4	460.4	417.0	373.6	349.5	335.1
70°	581.0	513.5	458.0	409.8	388.1	371.2	337.5	306.2	284.5	274.8
72.5°	470.1	426.7	390.5	354.4	337.5	318.2	284.5	253.1	233.8	224.2
75°	392.9	366.4	330.3	296.5	282.0	267.6	243.5	219.4	202.5	195.3
77.5°	311.0	296.5	274.8	248.3	236.2	226.6	204.9	188.0	171.2	163.9
80°	229.0	224.2	209.7	190.4	180.8	173.6	156.7	142.2	127.8	122.9
82.5°	168.7	163.9	151.9	137.4	132.6	125.4	113.3	101.2	91.6	86.8
85°	115.7	113.3	103.7	94.0	89.2	84.4	72.3	62.7	55.4	50.6
87.5°	72.3	69.9	65.1	55.4	50.6	45.8	36.2	28.9	21.7	19.3
90°	36.2	36.2	33.7	26.5	24.1	21.7	14.5	7.2	2.4	0.0
92.5°	9.6	9.6	9.6	7.2	7.2	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: P256918

CATALOG NUMBER: HGL-S-BA-30L840-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)