

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: P256929

Luminaire Tested: **HGL-S-BA-40L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256929
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-40L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

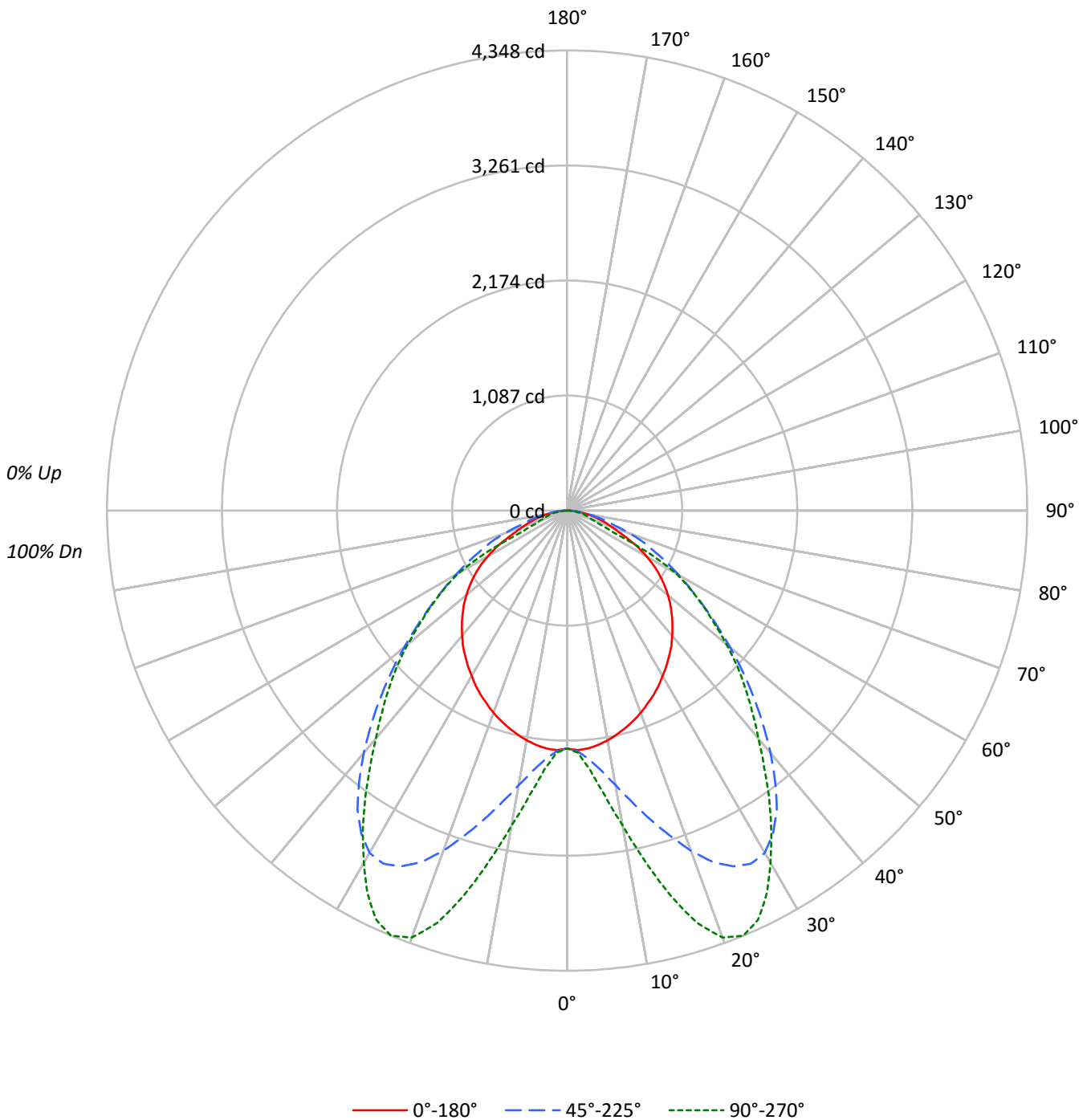
Lumens per Lamp: N/A
Luminaire Lumens: 8779.1 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 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										
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						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°	8797	8797	8797
5°	8866	9230	9607
10°	8758	10410	11919
15°	8612	12115	15068
20°	8469	14082	17601
25°	8314	15787	18063
30°	8150	16577	16939
35°	8022	16149	15429
40°	7885	14884	13865
45°	7740	13369	12652
50°	7563	11802	11373
55°	7284	10296	10053
60°	6791	9042	8664
65°	5885	7836	3873
70°	5064	6609	2677
75°	4642	5132	2420
80°	4175	4176	2118
85°	3474	3644	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	2.7
10°-20°	849.9	9.7
20°-30°	1538.2	17.5
30°-40°	1846.0	21.0
40°-50°	1748.7	19.9
50°-60°	1370.2	15.6
60°-70°	764.7	8.7
70°-80°	324.1	3.7
80°-90°	100.8	1.1
90°-100°	3.6	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°	2621.0	29.9
0°-40°	4467.0	50.9
0°-60°	7585.9	86.4
0°-90°	8775.5	100.0
90°-120°	3.6	0.0
90°-150°	3.6	0.0
90°-180°	4.0	0.0
0°-180°	8779.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2257	2266	2356	2434	2454	214
15°	2126	2381	3015	3569	3762	599
25°	1926	2530	3709	4162	4268	887
35°	1680	2588	3454	3309	3328	1051
45°	1400	2369	2491	2316	2385	1079
55°	1069	1721	1576	1526	1565	952
65°	637	795	903	726	457	636
75°	308	319	379	269	186	328
85°	78	90	110	85	48	87
90°	0	18	34	23	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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2265.9	2263.6	2256.7	2247.5	2249.8	2252.1	2252.1	2254.4	2256.7	2263.6	2277.4
5°	2256.7	2252.1	2249.8	2247.5	2259.0	2265.9	2272.8	2286.6	2302.7	2327.9	2355.5
7.5°	2233.7	2233.7	2238.3	2247.5	2272.8	2288.9	2302.7	2337.1	2376.2	2424.4	2477.3
10°	2203.8	2208.4	2222.2	2242.9	2288.9	2314.1	2341.7	2399.2	2465.8	2546.2	2633.6
12.5°	2167.1	2176.3	2199.2	2238.3	2307.2	2346.3	2387.7	2475.0	2573.8	2688.7	2817.4
15°	2125.7	2137.2	2174.0	2231.4	2325.6	2380.8	2438.2	2557.7	2693.3	2847.3	3015.0
17.5°	2082.0	2098.1	2148.7	2229.1	2350.9	2419.9	2493.4	2649.7	2824.3	3010.5	3217.3
20°	2033.8	2056.8	2121.1	2224.5	2373.9	2458.9	2548.5	2743.9	2957.6	3178.2	3419.5
22.5°	1978.6	2008.5	2088.9	2215.3	2396.9	2498.0	2603.7	2831.2	3079.4	3329.9	3591.9
25°	1925.8	1957.9	2052.2	2203.8	2415.3	2530.2	2652.0	2911.6	3189.7	3454.0	3709.1
27.5°	1868.3	1905.1	2017.7	2192.3	2429.0	2557.7	2693.3	2978.3	3270.1	3532.1	3761.9
30°	1804.0	1852.2	1978.6	2174.0	2435.9	2578.4	2725.5	3031.1	3320.7	3550.5	3734.3
32.5°	1744.2	1797.1	1935.0	2153.3	2438.2	2589.9	2746.2	3047.2	3320.7	3509.1	3619.4
35°	1679.9	1737.3	1891.3	2128.0	2429.0	2587.6	2743.9	3042.6	3272.4	3401.1	3454.0
37.5°	1615.5	1677.6	1845.3	2093.5	2408.4	2571.5	2727.8	2996.7	3173.6	3242.6	3228.8
40°	1544.3	1613.2	1785.6	2049.9	2371.6	2530.2	2679.5	2916.2	3028.8	3040.3	2989.8
42.5°	1473.1	1544.3	1725.8	1992.4	2309.5	2461.2	2599.1	2787.5	2840.4	2815.1	2737.0
45°	1399.5	1473.1	1654.6	1923.5	2231.4	2369.3	2484.2	2619.8	2619.8	2573.8	2491.1
47.5°	1323.7	1394.9	1578.8	1843.0	2130.3	2249.8	2344.0	2424.4	2387.7	2330.2	2247.5
50°	1243.2	1314.5	1493.7	1746.5	1999.3	2098.1	2176.3	2206.1	2148.7	2084.3	2010.8
52.5°	1158.2	1229.5	1392.6	1624.7	1845.3	1918.9	1976.3	1974.0	1905.1	1847.6	1783.3
55°	1068.6	1132.9	1280.0	1479.9	1661.5	1721.2	1755.7	1728.1	1663.8	1610.9	1576.5
57.5°	974.4	1027.2	1153.6	1316.8	1452.4	1498.3	1519.0	1482.2	1436.3	1404.1	1385.7
60°	868.7	912.3	1002.0	1128.3	1227.2	1259.3	1273.1	1247.8	1231.8	1222.6	1218.0
62.5°	758.4	779.0	836.5	919.2	1002.0	1024.9	1041.0	1045.6	1043.3	1047.9	1059.4
65°	636.6	643.5	661.8	703.2	767.6	795.1	825.0	857.2	875.6	893.9	903.1
67.5°	524.0	526.3	535.4	549.2	574.5	604.4	629.7	677.9	719.3	753.8	776.7
70°	443.5	441.2	443.5	450.4	464.2	475.7	487.2	521.7	565.3	622.8	627.4
72.5°	374.6	372.3	374.6	379.2	383.8	388.4	395.3	409.1	434.3	468.8	475.7
75°	307.9	307.9	307.9	312.5	317.1	319.4	324.0	328.6	337.8	363.1	379.2
77.5°	245.9	243.6	248.2	250.5	252.8	257.4	259.7	264.3	268.9	278.1	289.6
80°	186.1	183.8	186.1	190.7	193.0	197.6	197.6	204.5	206.8	213.7	218.3
82.5°	131.0	128.7	131.0	135.6	135.6	140.2	142.5	147.1	151.7	156.3	160.9
85°	78.1	78.1	80.4	82.7	85.0	89.6	91.9	98.8	103.4	108.0	110.3
87.5°	34.5	34.5	36.8	39.1	43.7	48.3	50.6	55.2	59.7	66.6	66.6
90°	0.0	2.3	6.9	11.5	13.8	18.4	18.4	25.3	27.6	32.2	34.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	4.6	6.9	9.2
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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2298.1	2284.3	2293.5	2295.8	2298.1	2293.5	2288.9	2293.5	2288.9	2288.9
5°	2390.0	2387.7	2410.7	2426.7	2433.6	2433.6	2447.4	2456.6	2458.9	2454.3
7.5°	2534.8	2548.5	2594.5	2626.7	2645.1	2654.3	2679.5	2693.3	2711.7	2709.4
10°	2725.5	2769.2	2838.1	2884.1	2916.2	2932.3	2969.1	2994.4	3024.2	3021.9
12.5°	2934.6	3015.0	3111.6	3185.1	3233.4	3263.2	3311.5	3357.5	3385.0	3387.3
15°	3171.3	3281.6	3412.6	3506.8	3568.9	3607.9	3674.6	3720.6	3766.5	3761.9
17.5°	3403.4	3536.7	3695.3	3819.4	3876.8	3913.6	3994.0	4042.3	4085.9	4085.9
20°	3610.2	3764.2	3925.1	4040.0	4095.1	4131.9	4200.8	4249.1	4281.3	4292.8
22.5°	3775.7	3918.2	4053.8	4152.6	4187.1	4216.9	4269.8	4308.9	4329.5	4347.9
25°	3867.6	3982.5	4074.5	4143.4	4161.8	4177.9	4207.7	4237.6	4242.2	4267.5
27.5°	3869.9	3955.0	4005.5	4030.8	4033.1	4033.1	4053.8	4065.3	4074.5	4083.6
30°	3787.2	3826.3	3835.5	3837.8	3826.3	3819.4	3833.2	3835.5	3842.3	3842.3
32.5°	3621.7	3630.9	3614.8	3589.6	3582.7	3568.9	3578.1	3573.5	3585.0	3591.9
35°	3410.3	3394.2	3352.9	3334.5	3309.2	3302.3	3309.2	3304.6	3311.5	3327.6
37.5°	3169.0	3134.5	3100.1	3067.9	3049.5	3031.1	3038.0	3044.9	3054.1	3058.7
40°	2920.8	2874.9	2838.1	2805.9	2787.5	2773.8	2785.2	2792.1	2812.8	2812.8
42.5°	2670.3	2619.8	2583.0	2562.3	2548.5	2537.1	2555.4	2560.0	2585.3	2589.9
45°	2422.1	2378.5	2348.6	2327.9	2316.4	2321.0	2339.4	2350.9	2373.9	2385.4
47.5°	2194.6	2157.9	2125.7	2116.5	2116.5	2121.1	2139.5	2151.0	2169.4	2183.2
50°	1971.7	1944.2	1923.5	1912.0	1914.3	1921.2	1937.3	1946.5	1964.8	1964.8
52.5°	1753.4	1735.0	1725.8	1712.1	1712.1	1709.8	1725.8	1735.0	1748.8	1751.1
55°	1562.7	1546.6	1537.4	1528.2	1525.9	1530.5	1539.7	1546.6	1562.7	1565.0
57.5°	1381.1	1374.2	1367.3	1360.4	1358.2	1360.4	1365.0	1369.6	1378.8	1381.1
60°	1215.7	1213.4	1204.2	1197.3	1195.0	1192.7	1190.4	1188.1	1192.7	1190.4
62.5°	1064.0	1057.1	1050.2	1036.4	1029.5	1011.1	988.2	937.6	896.2	873.3
65°	914.6	910.0	877.9	783.6	726.2	652.6	574.5	498.7	473.4	457.3
67.5°	769.8	694.0	579.1	496.4	466.5	438.9	397.6	356.2	333.2	319.4
70°	553.8	489.5	436.6	390.7	370.0	353.9	321.7	291.9	271.2	262.0
72.5°	448.1	406.8	372.3	337.8	321.7	303.3	271.2	241.3	222.9	213.7
75°	374.6	349.3	314.8	282.7	268.9	255.1	232.1	209.1	193.0	186.1
77.5°	296.4	282.7	262.0	236.7	225.2	216.0	195.3	179.2	163.2	156.3
80°	218.3	213.7	199.9	181.5	172.4	165.5	149.4	135.6	121.8	117.2
82.5°	160.9	156.3	144.8	131.0	126.4	119.5	108.0	96.5	87.3	82.7
85°	110.3	108.0	98.8	89.6	85.0	80.4	68.9	59.7	52.9	48.3
87.5°	68.9	66.6	62.0	52.9	48.3	43.7	34.5	27.6	20.7	18.4
90°	34.5	34.5	32.2	25.3	23.0	20.7	13.8	6.9	2.3	0.0
92.5°	9.2	9.2	9.2	6.9	6.9	4.6	2.3	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: P256929

CATALOG NUMBER: HGL-S-BA-40L940-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)