

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: P256923

Luminaire Tested: **HGL-S-BA-30L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256923
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6720.5 lumens
Efficiency: N/A
Efficacy: 103.2 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

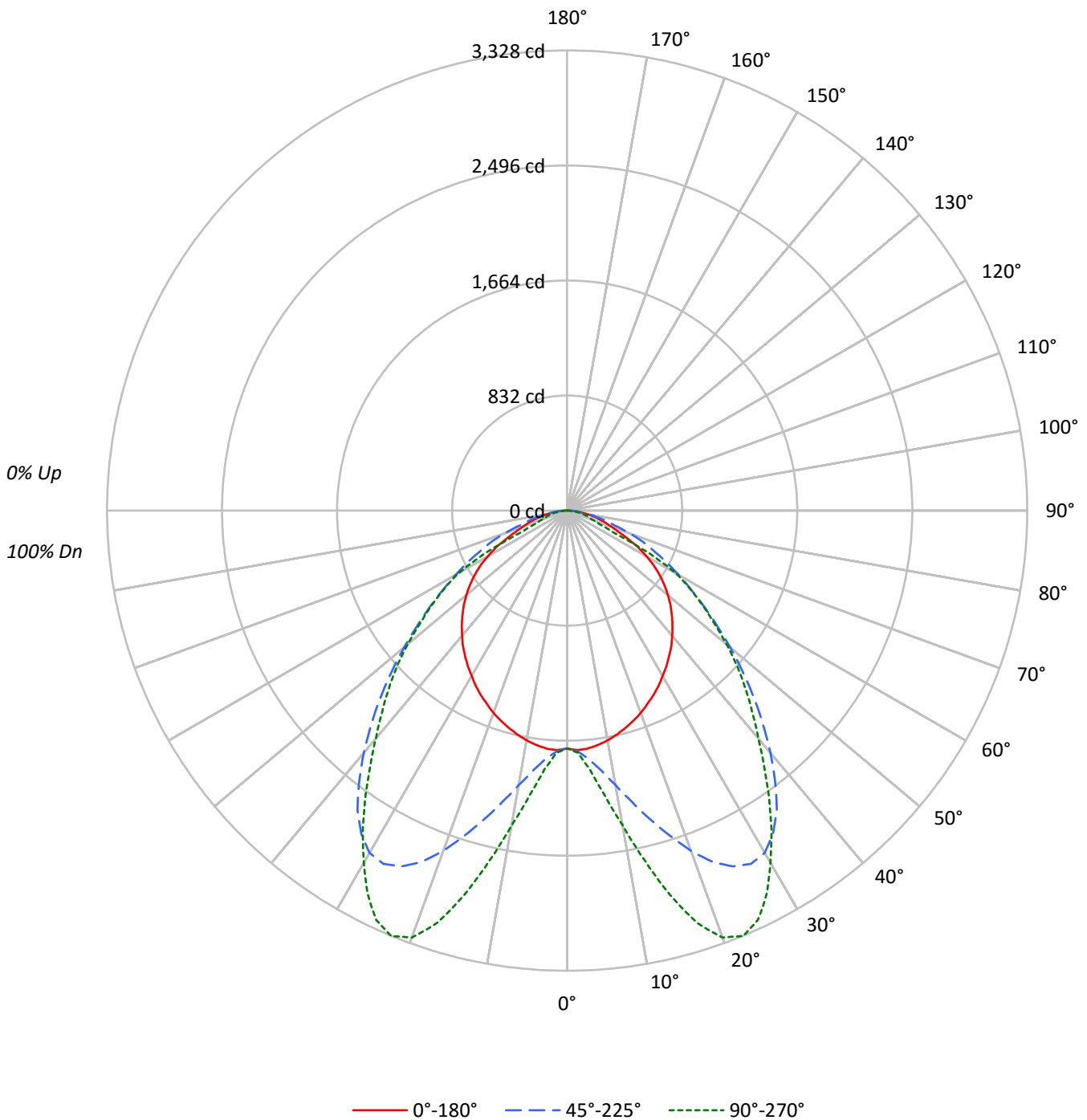
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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°	6734	6734	6734
5°	6787	7066	7354
10°	6704	7968	9124
15°	6592	9274	11535
20°	6483	10780	13474
25°	6364	12085	13827
30°	6239	12690	12967
35°	6141	12362	11811
40°	6036	11394	10613
45°	5925	10234	9685
50°	5789	9035	8706
55°	5575	7881	7696
60°	5198	6922	6633
65°	4505	5999	2965
70°	3876	5060	2049
75°	3553	3929	1853
80°	3197	3197	1621
85°	2660	2788	1106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	2.7
10°-20°	650.6	9.7
20°-30°	1177.5	17.5
30°-40°	1413.1	21.0
40°-50°	1338.7	19.9
50°-60°	1048.9	15.6
60°-70°	585.4	8.7
70°-80°	248.1	3.7
80°-90°	77.2	1.1
90°-100°	2.8	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°	2006.4	29.9
0°-40°	3419.5	50.9
0°-60°	5807.1	86.4
0°-90°	6717.7	100.0
90°-120°	2.8	0.0
90°-150°	2.8	0.0
90°-180°	3.0	0.0
0°-180°	6720.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1728	1734	1803	1863	1879	163
15°	1627	1822	2308	2732	2880	459
25°	1474	1937	2839	3186	3267	679
35°	1286	1981	2644	2533	2547	805
45°	1071	1814	1907	1773	1826	826
55°	818	1318	1207	1168	1198	728
65°	487	609	691	556	350	487
75°	236	244	290	206	142	251
85°	60	69	84	65	37	66
90°	0	14	26	18	0	4
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°	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5
2.5°	1734.5	1732.8	1727.5	1720.5	1722.2	1724.0	1724.0	1725.8	1727.5	1732.8	1743.3
5°	1727.5	1724.0	1722.2	1720.5	1729.3	1734.5	1739.8	1750.4	1762.7	1782.0	1803.2
7.5°	1709.9	1709.9	1713.4	1720.5	1739.8	1752.1	1762.7	1789.1	1819.0	1855.9	1896.4
10°	1687.0	1690.6	1701.1	1717.0	1752.1	1771.5	1792.6	1836.6	1887.6	1949.2	2016.0
12.5°	1658.9	1665.9	1683.5	1713.4	1766.2	1796.1	1827.8	1894.6	1970.3	2058.2	2156.7
15°	1627.2	1636.0	1664.2	1708.2	1780.3	1822.5	1866.5	1958.0	2061.8	2179.6	2308.0
17.5°	1593.8	1606.1	1644.8	1706.4	1799.6	1852.4	1908.7	2028.3	2162.0	2304.5	2462.8
20°	1556.9	1574.5	1623.7	1702.9	1817.2	1882.3	1950.9	2100.5	2264.1	2432.9	2617.7
22.5°	1514.6	1537.5	1599.1	1695.8	1834.8	1912.2	1993.1	2167.3	2357.3	2549.0	2749.6
25°	1474.2	1498.8	1570.9	1687.0	1848.9	1936.9	2030.1	2228.9	2441.7	2644.0	2839.3
27.5°	1430.2	1458.4	1544.6	1678.3	1859.4	1958.0	2061.8	2279.9	2503.3	2703.9	2879.8
30°	1381.0	1417.9	1514.6	1664.2	1864.7	1973.8	2086.4	2320.4	2542.0	2717.9	2858.7
32.5°	1335.2	1375.7	1481.2	1648.3	1866.5	1982.6	2102.2	2332.7	2542.0	2686.3	2770.7
35°	1286.0	1329.9	1447.8	1629.0	1859.4	1980.8	2100.5	2329.1	2505.1	2603.6	2644.0
37.5°	1236.7	1284.2	1412.6	1602.6	1843.6	1968.5	2088.1	2294.0	2429.4	2482.2	2471.6
40°	1182.2	1234.9	1366.9	1569.2	1815.5	1936.9	2051.2	2232.4	2318.6	2327.4	2288.7
42.5°	1127.6	1182.2	1321.1	1525.2	1768.0	1884.1	1989.6	2133.9	2174.3	2155.0	2095.2
45°	1071.3	1127.6	1266.6	1472.4	1708.2	1813.7	1901.7	2005.5	2005.5	1970.3	1906.9
47.5°	1013.3	1067.8	1208.6	1410.9	1630.8	1722.2	1794.4	1855.9	1827.8	1783.8	1720.5
50°	951.7	1006.2	1143.5	1337.0	1530.5	1606.1	1665.9	1688.8	1644.8	1595.6	1539.3
52.5°	886.6	941.2	1066.1	1243.7	1412.6	1468.9	1512.9	1511.1	1458.4	1414.4	1365.1
55°	818.0	867.3	979.9	1132.9	1271.9	1317.6	1344.0	1322.9	1273.6	1233.2	1206.8
57.5°	745.9	786.4	883.1	1008.0	1111.8	1147.0	1162.8	1134.7	1099.5	1074.9	1060.8
60°	665.0	698.4	767.0	863.8	939.4	964.0	974.6	955.2	942.9	935.9	932.4
62.5°	580.5	596.4	640.3	703.7	767.0	784.6	796.9	800.4	798.7	802.2	811.0
65°	487.3	492.6	506.6	538.3	587.6	608.7	631.5	656.2	670.2	684.3	691.4
67.5°	401.1	402.9	409.9	420.4	439.8	462.7	482.0	519.0	550.6	577.0	594.6
70°	339.5	337.8	339.5	344.8	355.4	364.1	372.9	399.3	432.8	476.7	480.3
72.5°	286.7	285.0	286.7	290.3	293.8	297.3	302.6	313.1	332.5	358.9	364.1
75°	235.7	235.7	235.7	239.2	242.8	244.5	248.0	251.6	258.6	277.9	290.3
77.5°	188.2	186.5	190.0	191.8	193.5	197.0	198.8	202.3	205.8	212.9	221.7
80°	142.5	140.7	142.5	146.0	147.8	151.3	151.3	156.6	158.3	163.6	167.1
82.5°	100.3	98.5	100.3	103.8	103.8	107.3	109.1	112.6	116.1	119.6	123.1
85°	59.8	59.8	61.6	63.3	65.1	68.6	70.4	75.6	79.2	82.7	84.4
87.5°	26.4	26.4	28.1	29.9	33.4	36.9	38.7	42.2	45.7	51.0	51.0
90°	0.0	1.8	5.3	8.8	10.6	14.1	14.1	19.4	21.1	24.6	26.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.5	5.3	7.0
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°	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5
2.5°	1759.2	1748.6	1755.7	1757.4	1759.2	1755.7	1752.1	1755.7	1752.1	1752.1
5°	1829.5	1827.8	1845.4	1857.7	1863.0	1863.0	1873.5	1880.6	1882.3	1878.8
7.5°	1940.4	1950.9	1986.1	2010.7	2024.8	2031.8	2051.2	2061.8	2075.8	2074.1
10°	2086.4	2119.8	2172.6	2207.8	2232.4	2244.7	2272.9	2292.2	2315.1	2313.3
12.5°	2246.5	2308.0	2381.9	2438.2	2475.2	2498.0	2535.0	2570.2	2591.3	2593.0
15°	2427.7	2512.1	2612.4	2684.5	2732.0	2761.9	2812.9	2848.1	2883.3	2879.8
17.5°	2605.3	2707.4	2828.8	2923.7	2967.7	2995.9	3057.4	3094.4	3127.8	3127.8
20°	2763.7	2881.5	3004.7	3092.6	3134.9	3163.0	3215.8	3252.7	3277.3	3286.1
22.5°	2890.3	2999.4	3103.2	3178.8	3205.2	3228.1	3268.5	3298.5	3314.3	3328.4
25°	2960.7	3048.7	3119.0	3171.8	3185.9	3198.2	3221.0	3243.9	3247.4	3266.8
27.5°	2962.5	3027.5	3066.2	3085.6	3087.4	3087.4	3103.2	3112.0	3119.0	3126.1
30°	2899.1	2929.0	2936.1	2937.8	2929.0	2923.7	2934.3	2936.1	2941.3	2941.3
32.5°	2772.5	2779.5	2767.2	2747.8	2742.6	2732.0	2739.0	2735.5	2744.3	2749.6
35°	2610.6	2598.3	2566.6	2552.6	2533.2	2527.9	2533.2	2529.7	2535.0	2547.3
37.5°	2425.9	2399.5	2373.1	2348.5	2334.4	2320.4	2325.6	2330.9	2337.9	2341.5
40°	2235.9	2200.7	2172.6	2148.0	2133.9	2123.3	2132.1	2137.4	2153.2	2153.2
42.5°	2044.2	2005.5	1977.3	1961.5	1950.9	1942.1	1956.2	1959.7	1979.1	1982.6
45°	1854.2	1820.7	1797.9	1782.0	1773.2	1776.8	1790.8	1799.6	1817.2	1826.0
47.5°	1680.0	1651.9	1627.2	1620.2	1620.2	1623.7	1637.8	1646.6	1660.7	1671.2
50°	1509.4	1488.3	1472.4	1463.6	1465.4	1470.7	1483.0	1490.0	1504.1	1504.1
52.5°	1342.3	1328.2	1321.1	1310.6	1310.6	1308.8	1321.1	1328.2	1338.7	1340.5
55°	1196.2	1183.9	1176.9	1169.9	1168.1	1171.6	1178.6	1183.9	1196.2	1198.0
57.5°	1057.3	1052.0	1046.7	1041.4	1039.7	1041.4	1045.0	1048.5	1055.5	1057.3
60°	930.6	928.8	921.8	916.5	914.8	913.0	911.3	909.5	913.0	911.3
62.5°	814.5	809.2	803.9	793.4	788.1	774.0	756.4	717.7	686.1	668.5
65°	700.2	696.6	672.0	599.9	555.9	499.6	439.8	381.7	362.4	350.1
67.5°	589.3	531.3	443.3	380.0	357.1	336.0	304.3	272.7	255.1	244.5
70°	424.0	374.7	334.2	299.1	283.2	270.9	246.3	223.4	207.6	200.5
72.5°	343.0	311.4	285.0	258.6	246.3	232.2	207.6	184.7	170.6	163.6
75°	286.7	267.4	241.0	216.4	205.8	195.3	177.7	160.1	147.8	142.5
77.5°	226.9	216.4	200.5	181.2	172.4	165.4	149.5	137.2	124.9	119.6
80°	167.1	163.6	153.0	139.0	131.9	126.7	114.3	103.8	93.2	89.7
82.5°	123.1	119.6	110.8	100.3	96.8	91.5	82.7	73.9	66.8	63.3
85°	84.4	82.7	75.6	68.6	65.1	61.6	52.8	45.7	40.5	36.9
87.5°	52.8	51.0	47.5	40.5	36.9	33.4	26.4	21.1	15.8	14.1
90°	26.4	26.4	24.6	19.4	17.6	15.8	10.6	5.3	1.8	0.0
92.5°	7.0	7.0	7.0	5.3	5.3	3.5	1.8	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: P256923

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