

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: P256859

Luminaire Tested: **HGL-S-BA-80L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256859
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-80L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7525.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

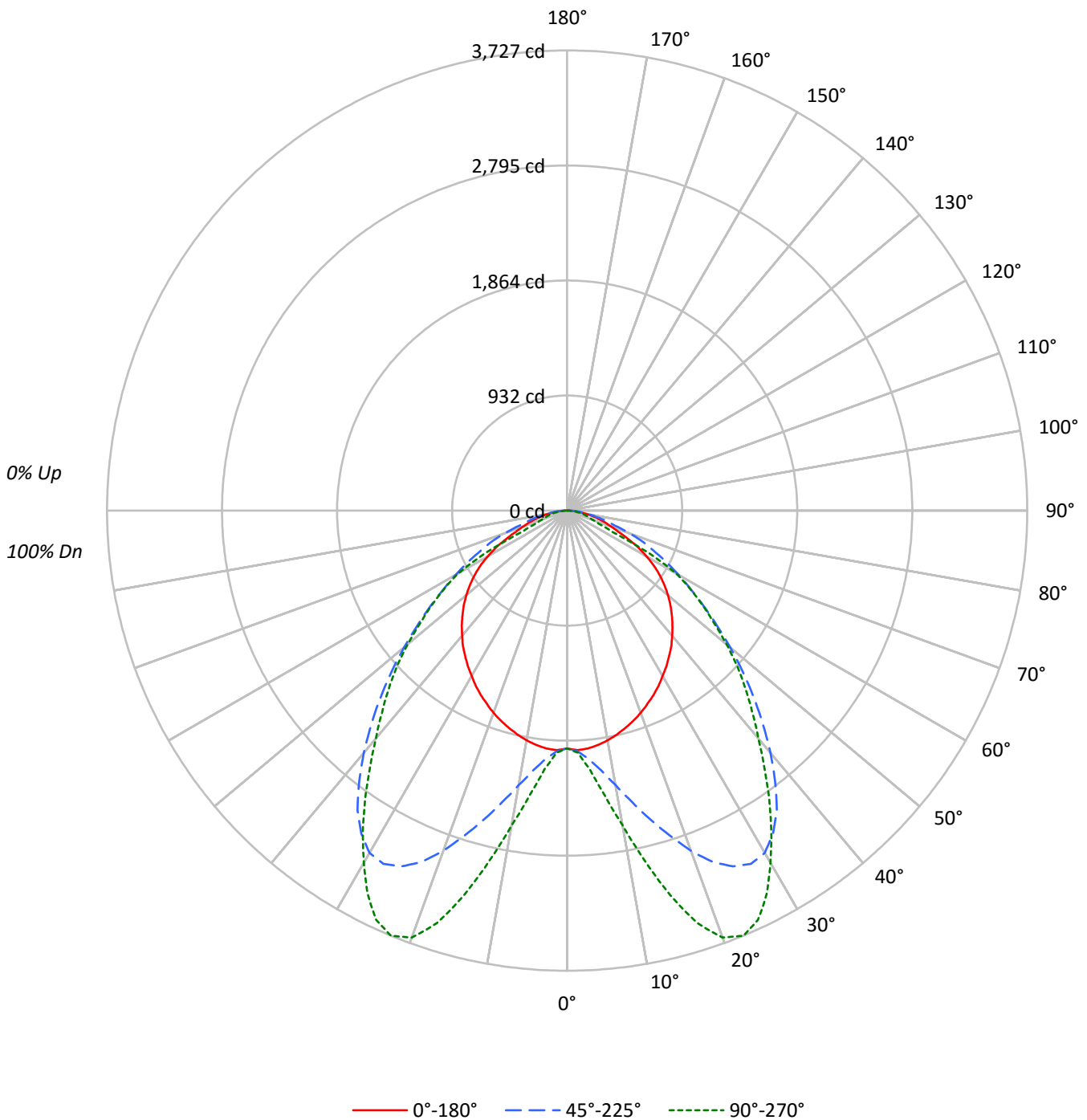
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22623	22623	22623
5°	22798	23733	24705
10°	22516	26765	30652
15°	22137	31148	38751
20°	21766	36200	45265
25°	21363	40579	46453
30°	20937	42603	43563
35°	20608	41496	39678
40°	20250	38239	35656
45°	19873	34342	32537
50°	19412	30310	29248
55°	18686	26435	25854
60°	17414	23209	22282
65°	15081	20105	9960
70°	12964	16945	6886
75°	11867	13145	6227
80°	10642	10677	5448
85°	8776	9284	3722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	2.7
10°-20°	728.5	9.7
20°-30°	1318.6	17.5
30°-40°	1582.5	21.0
40°-50°	1499.1	19.9
50°-60°	1174.6	15.6
60°-70°	655.6	8.7
70°-80°	277.8	3.7
80°-90°	86.4	1.1
90°-100°	3.1	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°	2246.8	29.9
0°-40°	3829.3	50.9
0°-60°	6503.0	86.4
0°-90°	7522.7	100.0
90°-120°	3.1	0.0
90°-150°	3.1	0.0
90°-180°	3.0	0.0
0°-180°	7525.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1934	1942	2019	2086	2104	183
15°	1822	2041	2585	3059	3225	514
25°	1651	2169	3180	3568	3658	760
35°	1440	2218	2961	2837	2852	901
45°	1200	2031	2136	1986	2045	925
55°	916	1476	1351	1308	1342	816
65°	546	682	774	622	392	545
75°	264	274	325	230	160	281
85°	67	77	95	73	41	74
90°	0	16	30	20	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°	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
2.5°	1942.4	1940.4	1934.5	1926.6	1928.6	1930.6	1930.6	1932.6	1934.5	1940.4	1952.3
5°	1934.5	1930.6	1928.6	1926.6	1936.5	1942.4	1948.3	1960.1	1973.9	1995.6	2019.2
7.5°	1914.8	1914.8	1918.8	1926.6	1948.3	1962.1	1973.9	2003.5	2037.0	2078.3	2123.6
10°	1889.2	1893.2	1905.0	1922.7	1962.1	1983.8	2007.4	2056.7	2113.8	2182.7	2257.6
12.5°	1857.7	1865.6	1885.3	1918.8	1977.9	2011.4	2046.8	2121.7	2206.4	2304.9	2415.2
15°	1822.2	1832.1	1863.6	1912.9	1993.6	2040.9	2090.2	2192.6	2308.8	2440.8	2584.6
17.5°	1784.8	1798.6	1841.9	1910.9	2015.3	2074.4	2137.4	2271.4	2421.1	2580.7	2758.0
20°	1743.4	1763.1	1818.3	1906.9	2035.0	2107.9	2184.7	2352.2	2535.4	2724.5	2931.3
22.5°	1696.2	1721.8	1790.7	1899.1	2054.7	2141.4	2232.0	2427.0	2639.8	2854.5	3079.1
25°	1650.8	1678.4	1759.2	1889.2	2070.5	2169.0	2273.4	2496.0	2734.3	2960.9	3179.6
27.5°	1601.6	1633.1	1729.6	1879.4	2082.3	2192.6	2308.8	2553.1	2803.3	3027.9	3224.9
30°	1546.4	1587.8	1696.2	1863.6	2088.2	2210.3	2336.4	2598.4	2846.6	3043.6	3201.2
32.5°	1495.2	1540.5	1658.7	1845.9	2090.2	2220.2	2354.1	2612.2	2846.6	3008.2	3102.7
35°	1440.1	1489.3	1621.3	1824.2	2082.3	2218.2	2352.2	2608.3	2805.3	2915.6	2960.9
37.5°	1384.9	1438.1	1581.9	1794.7	2064.5	2204.4	2338.4	2568.9	2720.5	2779.6	2767.8
40°	1323.8	1382.9	1530.7	1757.2	2033.0	2169.0	2297.0	2499.9	2596.4	2606.3	2562.9
42.5°	1262.8	1323.8	1479.5	1708.0	1979.8	2109.9	2228.1	2389.6	2434.9	2413.2	2346.3
45°	1199.7	1262.8	1418.4	1648.9	1912.9	2031.1	2129.6	2245.8	2245.8	2206.4	2135.5
47.5°	1134.7	1195.8	1353.4	1579.9	1826.2	1928.6	2009.4	2078.3	2046.8	1997.6	1926.6
50°	1065.8	1126.8	1280.5	1497.2	1713.9	1798.6	1865.6	1891.2	1841.9	1786.8	1723.7
52.5°	992.9	1053.9	1193.8	1392.8	1581.9	1644.9	1694.2	1692.2	1633.1	1583.9	1528.7
55°	916.0	971.2	1097.3	1268.7	1424.3	1475.5	1505.1	1481.4	1426.3	1381.0	1351.4
57.5°	835.3	880.6	988.9	1128.8	1245.0	1284.4	1302.2	1270.6	1231.2	1203.7	1187.9
60°	744.7	782.1	858.9	967.3	1052.0	1079.6	1091.4	1069.7	1055.9	1048.0	1044.1
62.5°	650.1	667.8	717.1	788.0	858.9	878.6	892.4	896.3	894.4	898.3	908.2
65°	545.7	551.6	567.4	602.8	658.0	681.6	707.2	734.8	750.6	766.3	774.2
67.5°	449.2	451.1	459.0	470.8	492.5	518.1	539.8	581.1	616.6	646.2	665.9
70°	380.2	378.2	380.2	386.1	397.9	407.8	417.6	447.2	484.6	533.9	537.8
72.5°	321.1	319.1	321.1	325.0	329.0	332.9	338.8	350.7	372.3	401.9	407.8
75°	264.0	264.0	264.0	267.9	271.9	273.8	277.8	281.7	289.6	311.3	325.0
77.5°	210.8	208.8	212.8	214.7	216.7	220.6	222.6	226.5	230.5	238.4	248.2
80°	159.6	157.6	159.6	163.5	165.5	169.4	169.4	175.3	177.3	183.2	187.1
82.5°	112.3	110.3	112.3	116.2	116.2	120.2	122.1	126.1	130.0	134.0	137.9
85°	67.0	67.0	68.9	70.9	72.9	76.8	78.8	84.7	88.6	92.6	94.6
87.5°	29.5	29.5	31.5	33.5	37.4	41.4	43.3	47.3	51.2	57.1	57.1
90°	0.0	2.0	5.9	9.8	11.8	15.8	15.8	21.7	23.6	27.6	29.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.9	5.9	7.9
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°	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
2.5°	1970.0	1958.2	1966.0	1968.0	1970.0	1966.0	1962.1	1966.0	1962.1	1962.1
5°	2048.8	2046.8	2066.5	2080.3	2086.2	2086.2	2098.0	2105.9	2107.9	2103.9
7.5°	2172.9	2184.7	2224.1	2251.7	2267.5	2275.3	2297.0	2308.8	2324.6	2322.6
10°	2336.4	2373.8	2432.9	2472.3	2499.9	2513.7	2545.2	2566.9	2592.5	2590.5
12.5°	2515.7	2584.6	2667.4	2730.4	2771.8	2797.4	2838.7	2878.1	2901.8	2903.8
15°	2718.6	2813.1	2925.4	3006.2	3059.4	3092.9	3150.0	3189.4	3228.8	3224.9
17.5°	2917.5	3031.8	3167.7	3274.1	3323.4	3354.9	3423.8	3465.2	3502.6	3502.6
20°	3094.8	3226.8	3364.7	3463.2	3510.5	3542.0	3601.1	3642.5	3670.1	3679.9
22.5°	3236.7	3358.8	3475.1	3559.8	3589.3	3614.9	3660.2	3693.7	3711.4	3727.2
25°	3315.5	3414.0	3492.8	3551.9	3567.6	3581.4	3607.0	3632.6	3636.6	3658.3
27.5°	3317.5	3390.3	3433.7	3455.4	3457.3	3457.3	3475.1	3484.9	3492.8	3500.7
30°	3246.5	3280.0	3287.9	3289.9	3280.0	3274.1	3285.9	3287.9	3293.8	3293.8
32.5°	3104.7	3112.6	3098.8	3077.1	3071.2	3059.4	3067.3	3063.3	3073.2	3079.1
35°	2923.5	2909.7	2874.2	2858.4	2836.8	2830.9	2836.8	2832.8	2838.7	2852.5
37.5°	2716.6	2687.1	2657.5	2629.9	2614.2	2598.4	2604.3	2610.2	2618.1	2622.0
40°	2503.8	2464.4	2432.9	2405.3	2389.6	2377.8	2387.6	2393.5	2411.3	2411.3
42.5°	2289.1	2245.8	2214.3	2196.5	2184.7	2174.9	2190.6	2194.6	2216.2	2220.2
45°	2076.4	2038.9	2013.3	1995.6	1985.7	1989.7	2005.4	2015.3	2035.0	2044.8
47.5°	1881.3	1849.8	1822.2	1814.4	1814.4	1818.3	1834.1	1843.9	1859.7	1871.5
50°	1690.2	1666.6	1648.9	1639.0	1641.0	1646.9	1660.7	1668.6	1684.3	1684.3
52.5°	1503.1	1487.3	1479.5	1467.6	1467.6	1465.7	1479.5	1487.3	1499.2	1501.1
55°	1339.6	1325.8	1317.9	1310.0	1308.1	1312.0	1319.9	1325.8	1339.6	1341.6
57.5°	1184.0	1178.1	1172.1	1166.2	1164.3	1166.2	1170.2	1174.1	1182.0	1184.0
60°	1042.1	1040.2	1032.3	1026.4	1024.4	1022.4	1020.5	1018.5	1022.4	1020.5
62.5°	912.1	906.2	900.3	888.5	882.6	866.8	847.1	803.8	768.3	748.6
65°	784.1	780.1	752.5	671.8	622.5	559.5	492.5	427.5	405.8	392.0
67.5°	659.9	594.9	496.4	425.5	399.9	376.3	340.8	305.3	285.6	273.8
70°	474.8	419.6	374.3	334.9	317.2	303.4	275.8	250.2	232.5	224.6
72.5°	384.1	348.7	319.1	289.6	275.8	260.0	232.5	206.8	191.1	183.2
75°	321.1	299.4	269.9	242.3	230.5	218.7	199.0	179.3	165.5	159.6
77.5°	254.1	242.3	224.6	202.9	193.1	185.2	167.4	153.7	139.9	134.0
80°	187.1	183.2	171.4	155.6	147.7	141.8	128.0	116.2	104.4	100.5
82.5°	137.9	134.0	124.1	112.3	108.3	102.4	92.6	82.7	74.9	70.9
85°	94.6	92.6	84.7	76.8	72.9	68.9	59.1	51.2	45.3	41.4
87.5°	59.1	57.1	53.2	45.3	41.4	37.4	29.5	23.6	17.7	15.8
90°	29.5	29.5	27.6	21.7	19.7	17.7	11.8	5.9	2.0	0.0
92.5°	7.9	7.9	7.9	5.9	5.9	3.9	2.0	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: P256859

CATALOG NUMBER: HGL-S-BA-80L830-UNV-4

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)