

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: P256900

Luminaire Tested: **HGL-S-BA-50L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256900
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-50L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7081.6 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

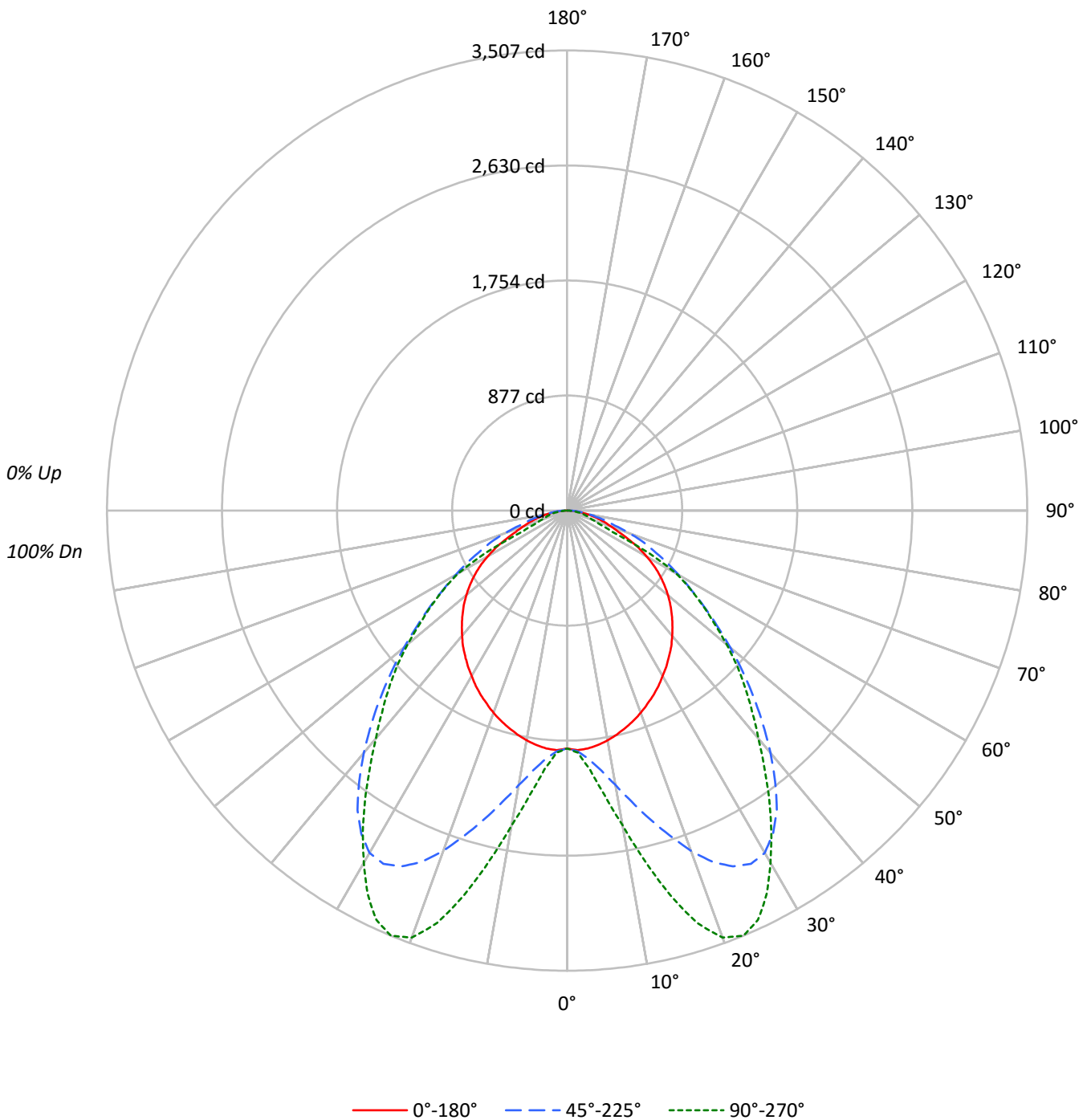
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	10644	10644	10644
5°	10727	11167	11623
10°	10596	12594	14421
15°	10419	14658	18232
20°	10245	17037	21297
25°	10057	19099	21855
30°	9858	20054	20496
35°	9703	19535	18668
40°	9537	18005	16775
45°	9362	16171	15308
50°	9146	14275	13761
55°	8808	12452	12164
60°	8210	10936	10483
65°	7115	9476	4686
70°	6121	7991	3239
75°	5609	6204	2928
80°	5039	5046	2561
85°	4184	4399	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	2.7
10°-20°	685.5	9.7
20°-30°	1240.8	17.5
30°-40°	1489.0	21.0
40°-50°	1410.6	19.9
50°-60°	1105.3	15.6
60°-70°	616.9	8.7
70°-80°	261.4	3.7
80°-90°	81.3	1.1
90°-100°	2.9	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°	2114.2	29.9
0°-40°	3603.2	50.9
0°-60°	6119.1	86.4
0°-90°	7078.6	100.0
90°-120°	2.9	0.0
90°-150°	2.9	0.0
90°-180°	3.0	0.0
0°-180°	7081.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1820	1828	1900	1963	1980	172
15°	1715	1920	2432	2879	3034	484
25°	1553	2041	2992	3357	3442	715
35°	1355	2087	2786	2669	2684	848
45°	1129	1911	2009	1868	1924	870
55°	862	1388	1272	1231	1262	768
65°	514	641	728	586	369	513
75°	248	258	306	217	150	264
85°	63	72	89	69	39	70
90°	0	15	28	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°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9
2.5°	1827.7	1825.9	1820.3	1812.9	1814.8	1816.6	1816.6	1818.5	1820.3	1825.9	1837.0
5°	1820.3	1816.6	1814.8	1812.9	1822.2	1827.7	1833.3	1844.4	1857.4	1877.8	1900.0
7.5°	1801.8	1801.8	1805.5	1812.9	1833.3	1846.3	1857.4	1885.2	1916.7	1955.6	1998.3
10°	1777.7	1781.4	1792.5	1809.2	1846.3	1866.7	1888.9	1935.3	1989.0	2053.9	2124.3
12.5°	1748.0	1755.4	1774.0	1805.5	1861.1	1892.6	1926.0	1996.4	2076.1	2168.8	2272.6
15°	1714.7	1723.9	1753.6	1799.9	1875.9	1920.4	1966.8	2063.2	2172.5	2296.7	2432.0
17.5°	1679.4	1692.4	1733.2	1798.1	1896.3	1951.9	2011.3	2137.3	2278.2	2428.3	2595.2
20°	1640.5	1659.1	1711.0	1794.4	1914.9	1983.4	2055.7	2213.3	2385.7	2563.7	2758.3
22.5°	1596.0	1620.1	1685.0	1787.0	1933.4	2015.0	2100.2	2283.7	2483.9	2686.0	2897.3
25°	1553.4	1579.3	1655.3	1777.7	1948.2	2040.9	2139.2	2348.6	2572.9	2786.1	2991.9
27.5°	1507.1	1536.7	1627.5	1768.4	1959.4	2063.2	2172.5	2402.4	2637.8	2849.1	3034.5
30°	1455.1	1494.1	1596.0	1753.6	1964.9	2079.8	2198.5	2445.0	2678.6	2864.0	3012.2
32.5°	1407.0	1449.6	1560.8	1736.9	1966.8	2089.1	2215.2	2458.0	2678.6	2830.6	2919.6
35°	1355.0	1401.4	1525.6	1716.5	1959.4	2087.3	2213.3	2454.3	2639.7	2743.5	2786.1
37.5°	1303.1	1353.2	1488.5	1688.7	1942.7	2074.3	2200.3	2417.2	2559.9	2615.6	2604.4
40°	1245.7	1301.3	1440.3	1653.5	1913.0	2040.9	2161.4	2352.3	2443.2	2452.4	2411.7
42.5°	1188.2	1245.7	1392.1	1607.1	1863.0	1985.3	2096.5	2248.5	2291.2	2270.8	2207.7
45°	1128.9	1188.2	1334.7	1551.5	1799.9	1911.2	2003.8	2113.2	2113.2	2076.1	2009.4
47.5°	1067.7	1125.2	1273.5	1486.7	1718.4	1814.8	1890.8	1955.6	1926.0	1879.6	1812.9
50°	1002.8	1060.3	1204.9	1408.8	1612.7	1692.4	1755.4	1779.5	1733.2	1681.3	1622.0
52.5°	934.3	991.7	1123.3	1310.6	1488.5	1547.8	1594.2	1592.3	1536.7	1490.4	1438.5
55°	862.0	913.9	1032.5	1193.8	1340.2	1388.4	1416.2	1394.0	1342.1	1299.4	1271.6
57.5°	786.0	828.6	930.6	1062.2	1171.5	1208.6	1225.3	1195.6	1158.6	1132.6	1117.8
60°	700.7	735.9	808.2	910.2	989.9	1015.8	1026.9	1006.6	993.6	986.2	982.5
62.5°	611.7	628.4	674.7	741.5	808.2	826.7	839.7	843.4	841.6	845.3	854.6
65°	513.5	519.0	533.9	567.2	619.1	641.4	665.5	691.4	706.3	721.1	728.5
67.5°	422.6	424.5	431.9	443.0	463.4	487.5	507.9	546.8	580.2	608.0	626.5
70°	357.8	355.9	357.8	363.3	374.4	383.7	393.0	420.8	456.0	502.4	506.1
72.5°	302.2	300.3	302.2	305.9	309.6	313.3	318.8	330.0	350.3	378.2	383.7
75°	248.4	248.4	248.4	252.1	255.8	257.7	261.4	265.1	272.5	292.9	305.9
77.5°	198.3	196.5	200.2	202.1	203.9	207.6	209.5	213.2	216.9	224.3	233.6
80°	150.1	148.3	150.1	153.9	155.7	159.4	159.4	165.0	166.8	172.4	176.1
82.5°	105.7	103.8	105.7	109.4	109.4	113.1	114.9	118.6	122.3	126.1	129.8
85°	63.0	63.0	64.9	66.7	68.6	72.3	74.1	79.7	83.4	87.1	89.0
87.5°	27.8	27.8	29.7	31.5	35.2	38.9	40.8	44.5	48.2	53.8	53.8
90°	0.0	1.9	5.6	9.3	11.1	14.8	14.8	20.4	22.2	26.0	27.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.7	5.6	7.4
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°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9
2.5°	1853.7	1842.6	1850.0	1851.8	1853.7	1850.0	1846.3	1850.0	1846.3	1846.3
5°	1927.8	1926.0	1944.5	1957.5	1963.1	1963.1	1974.2	1981.6	1983.4	1979.7
7.5°	2044.6	2055.7	2092.8	2118.8	2133.6	2141.0	2161.4	2172.5	2187.4	2185.5
10°	2198.5	2233.7	2289.3	2326.4	2352.3	2365.3	2395.0	2415.4	2439.5	2437.6
12.5°	2367.2	2432.0	2509.9	2569.2	2608.1	2632.2	2671.2	2708.2	2730.5	2732.3
15°	2558.1	2647.1	2752.7	2828.7	2878.8	2910.3	2964.1	3001.1	3038.2	3034.5
17.5°	2745.3	2852.8	2980.7	3080.8	3127.2	3156.8	3221.7	3260.6	3295.9	3295.9
20°	2912.1	3036.3	3166.1	3258.8	3303.3	3332.9	3388.5	3427.5	3453.4	3462.7
22.5°	3045.6	3160.5	3269.9	3349.6	3377.4	3401.5	3444.2	3475.7	3492.4	3507.2
25°	3119.8	3212.4	3286.6	3342.2	3357.0	3370.0	3394.1	3418.2	3421.9	3442.3
27.5°	3121.6	3190.2	3231.0	3251.4	3253.2	3253.2	3269.9	3279.2	3286.6	3294.0
30°	3054.9	3086.4	3093.8	3095.7	3086.4	3080.8	3092.0	3093.8	3099.4	3099.4
32.5°	2921.4	2928.8	2915.9	2895.5	2889.9	2878.8	2886.2	2882.5	2891.8	2897.3
35°	2750.9	2737.9	2704.5	2689.7	2669.3	2663.8	2669.3	2665.6	2671.2	2684.1
37.5°	2556.2	2528.4	2500.6	2474.7	2459.8	2445.0	2450.6	2456.1	2463.6	2467.3
40°	2356.0	2319.0	2289.3	2263.4	2248.5	2237.4	2246.7	2252.2	2268.9	2268.9
42.5°	2154.0	2113.2	2083.5	2066.9	2055.7	2046.5	2061.3	2065.0	2085.4	2089.1
45°	1953.8	1918.6	1894.5	1877.8	1868.5	1872.2	1887.1	1896.3	1914.9	1924.1
47.5°	1770.3	1740.6	1714.7	1707.2	1707.2	1711.0	1725.8	1735.1	1749.9	1761.0
50°	1590.5	1568.2	1551.5	1542.3	1544.1	1549.7	1562.7	1570.1	1584.9	1584.9
52.5°	1414.4	1399.5	1392.1	1381.0	1381.0	1379.1	1392.1	1399.5	1410.7	1412.5
55°	1260.5	1247.5	1240.1	1232.7	1230.9	1234.6	1242.0	1247.5	1260.5	1262.4
57.5°	1114.1	1108.5	1102.9	1097.4	1095.5	1097.4	1101.1	1104.8	1112.2	1114.1
60°	980.6	978.7	971.3	965.8	963.9	962.1	960.2	958.4	962.1	960.2
62.5°	858.3	852.7	847.1	836.0	830.5	815.6	797.1	756.3	722.9	704.4
65°	737.8	734.1	708.1	632.1	585.8	526.4	463.4	402.3	381.9	368.9
67.5°	621.0	559.8	467.1	400.4	376.3	354.1	320.7	287.3	268.8	257.7
70°	446.7	394.8	352.2	315.1	298.4	285.5	259.5	235.4	218.7	211.3
72.5°	361.5	328.1	300.3	272.5	259.5	244.7	218.7	194.6	179.8	172.4
75°	302.2	281.8	254.0	228.0	216.9	205.8	187.2	168.7	155.7	150.1
77.5°	239.1	228.0	211.3	190.9	181.7	174.2	157.6	144.6	131.6	126.1
80°	176.1	172.4	161.3	146.4	139.0	133.5	120.5	109.4	98.2	94.5
82.5°	129.8	126.1	116.8	105.7	102.0	96.4	87.1	77.9	70.4	66.7
85°	89.0	87.1	79.7	72.3	68.6	64.9	55.6	48.2	42.6	38.9
87.5°	55.6	53.8	50.0	42.6	38.9	35.2	27.8	22.2	16.7	14.8
90°	27.8	27.8	26.0	20.4	18.5	16.7	11.1	5.6	1.9	0.0
92.5°	7.4	7.4	7.4	5.6	5.6	3.7	1.9	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: P256900

CATALOG NUMBER: HGL-S-BA-50L930-UNV-8

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)