

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: P256905

Luminaire Tested: **HGL-S-BA-50L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256905
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-50L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7324.4 lumens
Efficiency: N/A
Efficacy: 98.2 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

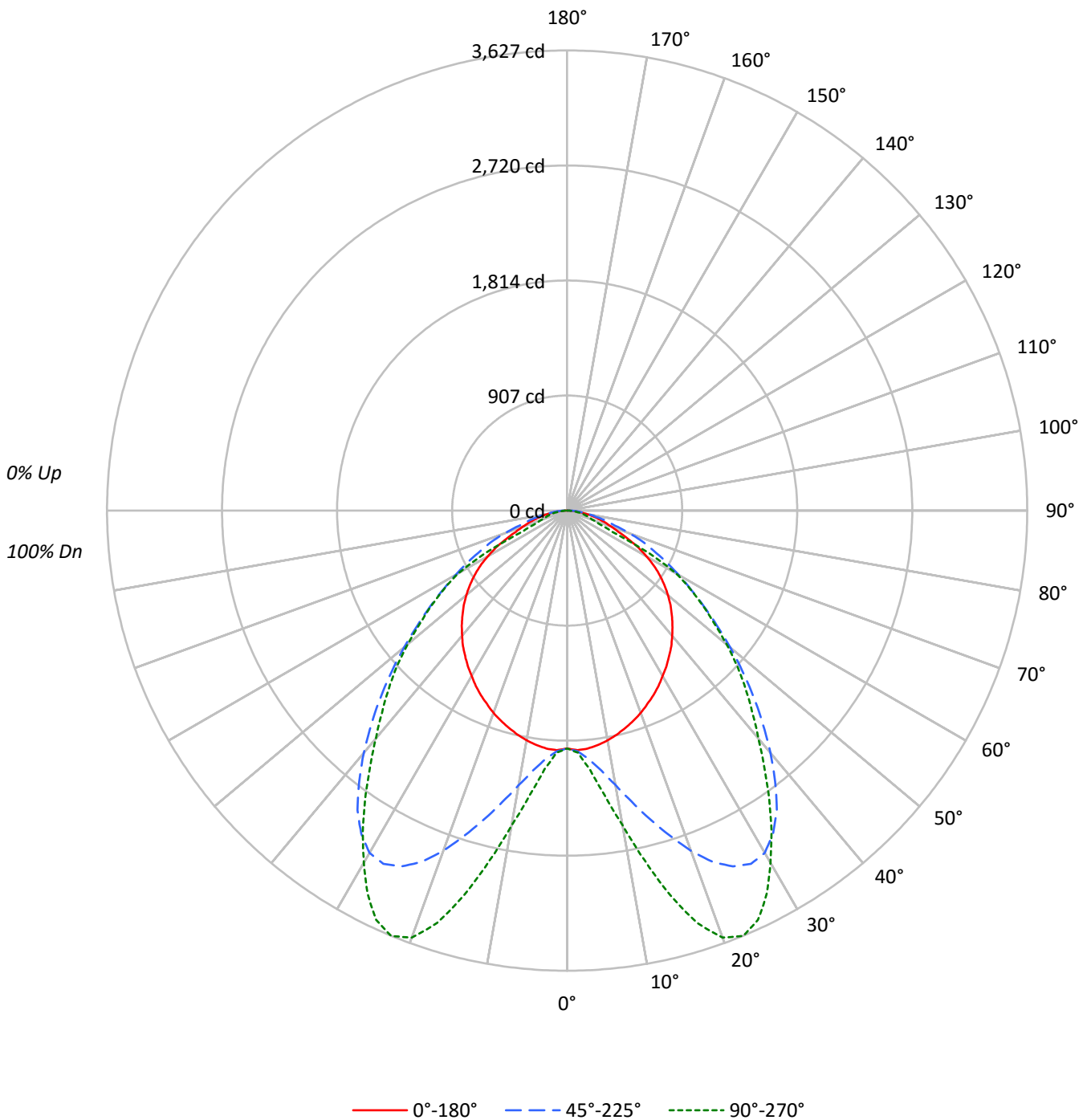
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11009	11009	11009
5°	11095	11550	12022
10°	10959	13026	14916
15°	10776	15161	18856
20°	10597	17621	22027
25°	10402	19754	22604
30°	10196	20741	21198
35°	10036	20205	19308
40°	9864	18621	17351
45°	9683	16726	15833
50°	9460	14765	14232
55°	9109	12879	12580
60°	8491	11310	10842
65°	7359	9801	4846
70°	6330	8264	3351
75°	5801	6415	3030
80°	5214	5218	2651
85°	4330	4548	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	2.7
10°-20°	709.0	9.7
20°-30°	1283.3	17.5
30°-40°	1540.1	21.0
40°-50°	1459.0	19.9
50°-60°	1143.1	15.6
60°-70°	638.0	8.7
70°-80°	270.4	3.7
80°-90°	84.1	1.1
90°-100°	3.0	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°	2186.7	29.9
0°-40°	3726.8	50.9
0°-60°	6328.9	86.4
0°-90°	7321.3	100.0
90°-120°	3.0	0.0
90°-150°	3.0	0.0
90°-180°	3.0	0.0
0°-180°	7324.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1883	1890	1965	2030	2048	178
15°	1774	1986	2515	2978	3138	500
25°	1607	2111	3094	3472	3560	740
35°	1402	2159	2882	2761	2776	877
45°	1168	1977	2078	1933	1990	900
55°	892	1436	1315	1273	1306	794
65°	531	663	754	606	382	531
75°	257	266	316	224	155	273
85°	65	75	92	71	40	72
90°	0	15	29	19	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°	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1
2.5°	1890.4	1888.5	1882.7	1875.1	1877.0	1878.9	1878.9	1880.8	1882.7	1888.5	1900.0
5°	1882.7	1878.9	1877.0	1875.1	1884.7	1890.4	1896.2	1907.7	1921.1	1942.2	1965.2
7.5°	1863.6	1863.6	1867.4	1875.1	1896.2	1909.6	1921.1	1949.8	1982.4	2022.7	2066.8
10°	1838.6	1842.5	1854.0	1871.2	1909.6	1930.7	1953.7	2001.6	2057.2	2124.3	2197.2
12.5°	1808.0	1815.6	1834.8	1867.4	1924.9	1957.5	1992.0	2064.9	2147.3	2243.2	2350.5
15°	1773.5	1783.0	1813.7	1861.6	1940.3	1986.3	2034.2	2133.9	2247.0	2375.5	2515.4
17.5°	1737.0	1750.4	1792.6	1859.7	1961.3	2018.9	2080.2	2210.6	2356.3	2511.6	2684.1
20°	1696.8	1715.9	1769.6	1855.9	1980.5	2051.5	2126.2	2289.2	2467.5	2651.6	2852.9
22.5°	1650.8	1675.7	1742.8	1848.2	1999.7	2084.0	2172.2	2362.1	2569.1	2778.1	2996.7
25°	1606.7	1633.5	1712.1	1838.6	2015.0	2110.9	2212.5	2429.2	2661.1	2881.6	3094.4
27.5°	1558.7	1589.4	1683.3	1829.1	2026.5	2133.9	2247.0	2484.8	2728.2	2946.8	3138.5
30°	1505.0	1545.3	1650.8	1813.7	2032.3	2151.2	2273.9	2528.9	2770.4	2962.2	3115.5
32.5°	1455.2	1499.3	1614.3	1796.5	2034.2	2160.7	2291.1	2542.3	2770.4	2927.6	3019.7
35°	1401.5	1449.4	1577.9	1775.4	2026.5	2158.8	2289.2	2538.4	2730.2	2837.5	2881.6
37.5°	1347.8	1399.6	1539.6	1746.6	2009.3	2145.4	2275.8	2500.1	2647.7	2705.2	2693.7
40°	1288.4	1345.9	1489.7	1710.2	1978.6	2110.9	2235.5	2433.0	2526.9	2536.5	2494.3
42.5°	1229.0	1288.4	1439.9	1662.3	1926.8	2053.4	2168.4	2325.6	2369.7	2348.6	2283.4
45°	1167.6	1229.0	1380.4	1604.7	1861.6	1976.7	2072.5	2185.7	2185.7	2147.3	2078.3
47.5°	1104.3	1163.8	1317.2	1537.6	1777.3	1877.0	1955.6	2022.7	1992.0	1944.1	1875.1
50°	1037.2	1096.7	1246.2	1457.1	1668.0	1750.4	1815.6	1840.6	1792.6	1738.9	1677.6
52.5°	966.3	1025.7	1161.9	1355.5	1539.6	1600.9	1648.8	1646.9	1589.4	1541.5	1487.8
55°	891.5	945.2	1067.9	1234.7	1386.2	1436.0	1464.8	1441.8	1388.1	1344.0	1315.2
57.5°	812.9	857.0	962.5	1098.6	1211.7	1250.0	1267.3	1236.6	1198.3	1171.4	1156.1
60°	724.7	761.1	835.9	941.4	1023.8	1050.7	1062.2	1041.1	1027.6	1020.0	1016.1
62.5°	632.7	649.9	697.9	766.9	835.9	855.1	868.5	872.3	870.4	874.3	883.9
65°	531.1	536.8	552.2	586.7	640.4	663.4	688.3	715.1	730.5	745.8	753.5
67.5°	437.1	439.1	446.7	458.2	479.3	504.2	525.3	565.6	600.1	628.9	648.0
70°	370.0	368.1	370.0	375.8	387.3	396.9	406.5	435.2	471.6	519.6	523.4
72.5°	312.5	310.6	312.5	316.3	320.2	324.0	329.8	341.3	362.4	391.1	396.9
75°	256.9	256.9	256.9	260.7	264.6	266.5	270.3	274.2	281.8	302.9	316.3
77.5°	205.1	203.2	207.1	209.0	210.9	214.7	216.6	220.5	224.3	232.0	241.6
80°	155.3	153.4	155.3	159.1	161.0	164.9	164.9	170.6	172.6	178.3	182.1
82.5°	109.3	107.4	109.3	113.1	113.1	117.0	118.9	122.7	126.5	130.4	134.2
85°	65.2	65.2	67.1	69.0	70.9	74.8	76.7	82.4	86.3	90.1	92.0
87.5°	28.8	28.8	30.7	32.6	36.4	40.3	42.2	46.0	49.8	55.6	55.6
90°	0.0	1.9	5.8	9.6	11.5	15.3	15.3	21.1	23.0	26.8	28.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	5.8	7.7
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°	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1	1875.1
2.5°	1917.2	1905.7	1913.4	1915.3	1917.2	1913.4	1909.6	1913.4	1909.6	1909.6
5°	1993.9	1992.0	2011.2	2024.6	2030.4	2030.4	2041.9	2049.5	2051.5	2047.6
7.5°	2114.7	2126.2	2164.6	2191.4	2206.8	2214.4	2235.5	2247.0	2262.4	2260.4
10°	2273.9	2310.3	2367.8	2406.1	2433.0	2446.4	2477.1	2498.2	2523.1	2521.2
12.5°	2448.3	2515.4	2596.0	2657.3	2697.6	2722.5	2762.8	2801.1	2824.1	2826.0
15°	2645.8	2737.8	2847.1	2925.7	2977.5	3010.1	3065.7	3104.0	3142.4	3138.5
17.5°	2839.4	2950.6	3082.9	3186.5	3234.4	3265.1	3332.2	3372.4	3408.9	3408.9
20°	3012.0	3140.5	3274.7	3370.5	3416.5	3447.2	3504.7	3545.0	3571.8	3581.4
22.5°	3150.0	3268.9	3382.0	3464.5	3493.2	3518.2	3562.2	3594.8	3612.1	3627.4
25°	3226.7	3322.6	3399.3	3456.8	3472.1	3485.6	3510.5	3535.4	3539.2	3560.3
27.5°	3228.6	3299.6	3341.8	3362.9	3364.8	3364.8	3382.0	3391.6	3399.3	3407.0
30°	3159.6	3192.2	3199.9	3201.8	3192.2	3186.5	3198.0	3199.9	3205.6	3205.6
32.5°	3021.6	3029.3	3015.8	2994.7	2989.0	2977.5	2985.2	2981.3	2990.9	2996.7
35°	2845.2	2831.8	2797.3	2781.9	2760.8	2755.1	2760.8	2757.0	2762.8	2776.2
37.5°	2643.9	2615.1	2586.4	2559.5	2544.2	2528.9	2534.6	2540.4	2548.0	2551.9
40°	2436.8	2398.5	2367.8	2341.0	2325.6	2314.1	2323.7	2329.5	2346.7	2346.7
42.5°	2227.8	2185.7	2155.0	2137.7	2126.2	2116.6	2132.0	2135.8	2156.9	2160.7
45°	2020.8	1984.4	1959.4	1942.2	1932.6	1936.4	1951.8	1961.3	1980.5	1990.1
47.5°	1831.0	1800.3	1773.5	1765.8	1765.8	1769.6	1785.0	1794.5	1809.9	1821.4
50°	1645.0	1622.0	1604.7	1595.2	1597.1	1602.8	1616.2	1623.9	1639.2	1639.2
52.5°	1462.9	1447.5	1439.9	1428.4	1428.4	1426.4	1439.9	1447.5	1459.0	1460.9
55°	1303.7	1290.3	1282.6	1275.0	1273.1	1276.9	1284.6	1290.3	1303.7	1305.6
57.5°	1152.3	1146.5	1140.8	1135.0	1133.1	1135.0	1138.8	1142.7	1150.3	1152.3
60°	1014.2	1012.3	1004.6	998.9	997.0	995.1	993.1	991.2	995.1	993.1
62.5°	887.7	881.9	876.2	864.7	858.9	843.6	824.4	782.2	747.7	728.6
65°	763.1	759.2	732.4	653.8	605.9	544.5	479.3	416.0	395.0	381.5
67.5°	642.3	579.0	483.1	414.1	389.2	366.2	331.7	297.2	278.0	266.5
70°	462.1	408.4	364.3	325.9	308.7	295.3	268.4	243.5	226.2	218.6
72.5°	373.9	339.4	310.6	281.8	268.4	253.1	226.2	201.3	186.0	178.3
75°	312.5	291.4	262.7	235.8	224.3	212.8	193.6	174.5	161.0	155.3
77.5°	247.3	235.8	218.6	197.5	187.9	180.2	163.0	149.5	136.1	130.4
80°	182.1	178.3	166.8	151.5	143.8	138.0	124.6	113.1	101.6	97.8
82.5°	134.2	130.4	120.8	109.3	105.4	99.7	90.1	80.5	72.9	69.0
85°	92.0	90.1	82.4	74.8	70.9	67.1	57.5	49.8	44.1	40.3
87.5°	57.5	55.6	51.8	44.1	40.3	36.4	28.8	23.0	17.3	15.3
90°	28.8	28.8	26.8	21.1	19.2	17.3	11.5	5.8	1.9	0.0
92.5°	7.7	7.7	7.7	5.8	5.8	3.8	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: P256905

CATALOG NUMBER: HGL-S-BA-50L940-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)