

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: P256904

Luminaire Tested: **HGL-S-BA-40L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256904
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-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: 5852.8 lumens
Efficiency: N/A
Efficacy: 100.9 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

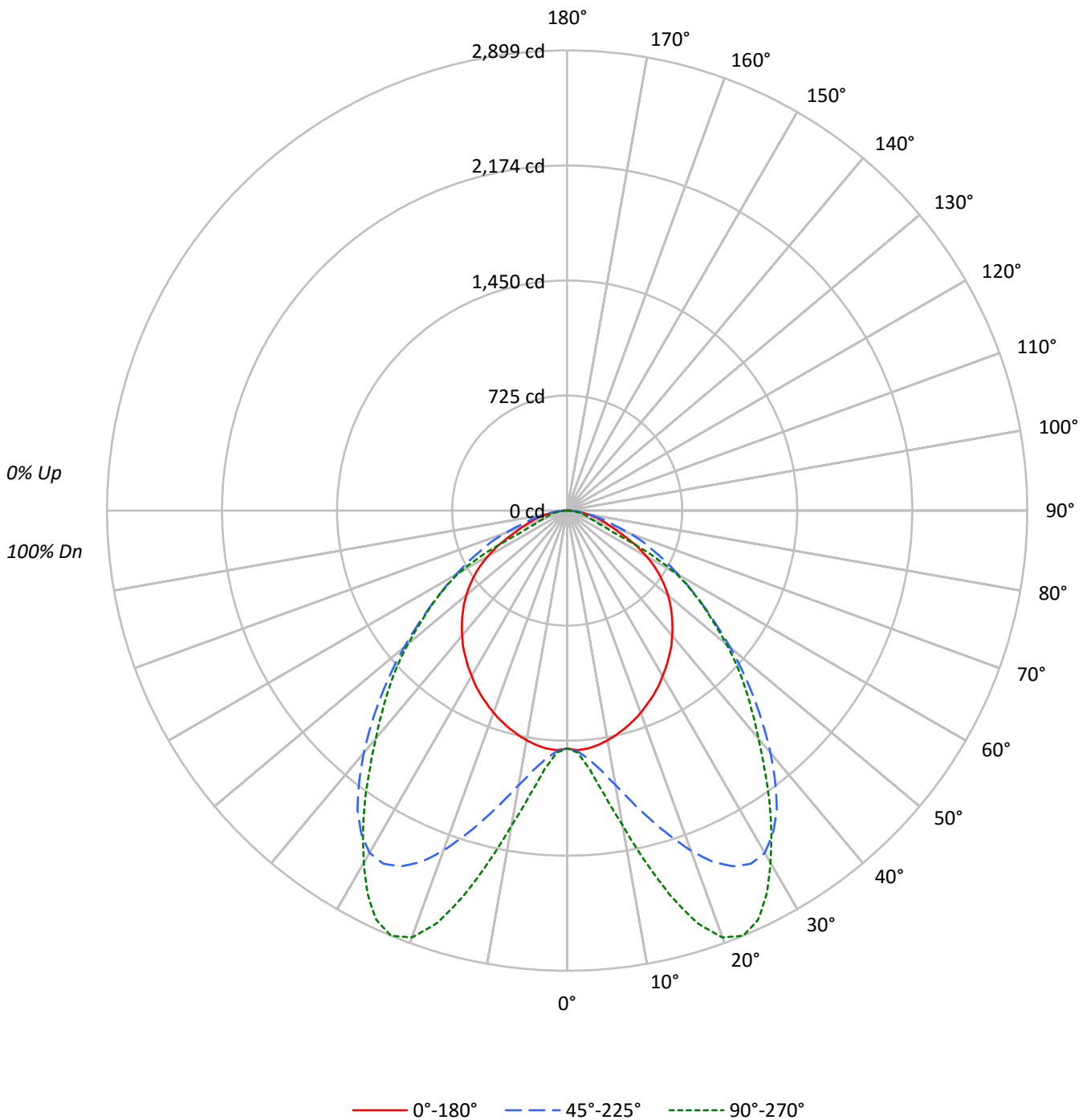
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	9229	9607
10°	8757	10409	11919
15°	8611	12114	15068
20°	8468	14081	17601
25°	8312	15785	18063
30°	8147	16575	16940
35°	8020	16146	15429
40°	7882	14880	13865
45°	7737	13365	12652
50°	7559	11798	11373
55°	7279	10292	10053
60°	6785	9038	8664
65°	5880	7832	3873
70°	5059	6603	2678
75°	4636	5127	2421
80°	4166	4169	2117
85°	3460	3633	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	2.7
10°-20°	566.6	9.7
20°-30°	1025.5	17.5
30°-40°	1230.7	21.0
40°-50°	1165.8	19.9
50°-60°	913.5	15.6
60°-70°	509.8	8.7
70°-80°	216.0	3.7
80°-90°	67.2	1.1
90°-100°	2.4	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°	1747.3	29.9
0°-40°	2978.0	50.9
0°-60°	5057.3	86.4
0°-90°	5850.4	100.0
90°-120°	2.4	0.0
90°-150°	2.4	0.0
90°-180°	2.0	0.0
0°-180°	5852.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1504	1511	1570	1622	1636	142
15°	1417	1587	2010	2379	2508	400
25°	1284	1687	2473	2774	2845	591
35°	1120	1725	2303	2206	2218	701
45°	933	1580	1661	1544	1590	719
55°	712	1148	1051	1017	1043	634
65°	424	530	602	484	305	424
75°	205	213	253	179	124	219
85°	52	60	74	57	32	58
90°	0	12	23	15	0	3
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°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1510.6	1509.1	1504.5	1498.3	1499.9	1501.4	1501.4	1502.9	1504.5	1509.1	1518.2
5°	1504.5	1501.4	1499.9	1498.3	1506.0	1510.6	1515.2	1524.4	1535.1	1552.0	1570.3
7.5°	1489.1	1489.1	1492.2	1498.3	1515.2	1525.9	1535.1	1558.1	1584.1	1616.3	1651.5
10°	1469.2	1472.3	1481.5	1495.3	1525.9	1542.8	1561.1	1599.4	1643.9	1697.5	1755.7
12.5°	1444.7	1450.8	1466.2	1492.2	1538.2	1564.2	1591.8	1650.0	1715.9	1792.5	1878.3
15°	1417.1	1424.8	1449.3	1487.6	1550.4	1587.2	1625.5	1705.2	1795.5	1898.2	2010.0
17.5°	1388.0	1398.7	1432.5	1486.1	1567.3	1613.2	1662.3	1766.4	1882.9	2007.0	2144.9
20°	1355.9	1371.2	1414.1	1483.0	1582.6	1639.3	1699.0	1829.3	1971.7	2118.8	2279.7
22.5°	1319.1	1339.0	1392.6	1476.9	1597.9	1665.3	1735.8	1887.5	2052.9	2219.9	2394.6
25°	1283.8	1305.3	1368.1	1469.2	1610.2	1686.8	1768.0	1941.1	2126.5	2302.7	2472.7
27.5°	1245.5	1270.1	1345.1	1461.6	1619.4	1705.2	1795.5	1985.5	2180.1	2354.7	2507.9
30°	1202.6	1234.8	1319.1	1449.3	1624.0	1718.9	1817.0	2020.8	2213.8	2367.0	2489.6
32.5°	1162.8	1198.1	1290.0	1435.5	1625.5	1726.6	1830.8	2031.5	2213.8	2339.4	2413.0
35°	1119.9	1158.2	1260.9	1418.7	1619.4	1725.1	1829.3	2028.4	2181.6	2267.4	2302.7
37.5°	1077.0	1118.4	1230.2	1395.7	1605.6	1714.3	1818.5	1997.8	2115.7	2161.7	2152.5
40°	1029.5	1075.5	1190.4	1366.6	1581.1	1686.8	1786.4	1944.2	2019.2	2026.9	1993.2
42.5°	982.0	1029.5	1150.6	1328.3	1539.7	1640.8	1732.7	1858.4	1893.6	1876.7	1824.7
45°	933.0	982.0	1103.1	1282.3	1487.6	1579.5	1656.1	1746.5	1746.5	1715.9	1660.7
47.5°	882.5	929.9	1052.5	1228.7	1420.2	1499.9	1562.7	1616.3	1591.8	1553.5	1498.3
50°	828.8	876.3	995.8	1164.3	1332.9	1398.7	1450.8	1470.8	1432.5	1389.6	1340.5
52.5°	772.1	819.6	928.4	1083.1	1230.2	1279.3	1317.6	1316.0	1270.1	1231.8	1188.9
55°	712.4	755.3	853.3	986.6	1107.7	1147.5	1170.5	1152.1	1109.2	1074.0	1051.0
57.5°	649.6	684.8	769.1	877.9	968.2	998.9	1012.7	988.2	957.5	936.1	923.8
60°	579.1	608.2	668.0	752.2	818.1	839.6	848.7	831.9	821.2	815.0	812.0
62.5°	505.6	519.4	557.7	612.8	668.0	683.3	694.0	697.1	695.5	698.6	706.3
65°	424.4	429.0	441.2	468.8	511.7	530.1	550.0	571.4	583.7	596.0	602.1
67.5°	349.3	350.8	357.0	366.2	383.0	402.9	419.8	452.0	479.5	502.5	517.8
70°	295.7	294.2	295.7	300.3	309.5	317.1	324.8	347.8	376.9	415.2	418.2
72.5°	249.7	248.2	249.7	252.8	255.9	258.9	263.5	272.7	289.6	312.5	317.1
75°	205.3	205.3	205.3	208.4	211.4	213.0	216.0	219.1	225.2	242.1	252.8
77.5°	163.9	162.4	165.5	167.0	168.5	171.6	173.1	176.2	179.2	185.4	193.0
80°	124.1	122.6	124.1	127.2	128.7	131.8	131.8	136.4	137.9	142.5	145.5
82.5°	87.3	85.8	87.3	90.4	90.4	93.5	95.0	98.1	101.1	104.2	107.2
85°	52.1	52.1	53.6	55.2	56.7	59.7	61.3	65.9	68.9	72.0	73.5
87.5°	23.0	23.0	24.5	26.0	29.1	32.2	33.7	36.8	39.8	44.4	44.4
90°	0.0	1.5	4.6	7.7	9.2	12.3	12.3	16.9	18.4	21.4	23.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	4.6	6.1
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°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1532.0	1522.8	1529.0	1530.5	1532.0	1529.0	1525.9	1529.0	1525.9	1525.9
5°	1593.3	1591.8	1607.1	1617.8	1622.4	1622.4	1631.6	1637.7	1639.3	1636.2
7.5°	1689.8	1699.0	1729.7	1751.1	1763.4	1769.5	1786.4	1795.5	1807.8	1806.3
10°	1817.0	1846.1	1892.1	1922.7	1944.2	1954.9	1979.4	1996.2	2016.2	2014.6
12.5°	1956.4	2010.0	2074.4	2123.4	2155.6	2175.5	2207.7	2238.3	2256.7	2258.2
15°	2114.2	2187.7	2275.1	2337.9	2379.3	2405.3	2449.7	2480.4	2511.0	2507.9
17.5°	2268.9	2357.8	2463.5	2546.2	2584.5	2609.1	2662.7	2694.9	2724.0	2724.0
20°	2406.8	2509.5	2616.7	2693.3	2730.1	2754.6	2800.6	2832.7	2854.2	2861.8
22.5°	2517.1	2612.1	2702.5	2768.4	2791.4	2811.3	2846.5	2872.6	2886.4	2898.6
25°	2578.4	2655.0	2716.3	2762.3	2774.5	2785.2	2805.2	2825.1	2828.1	2845.0
27.5°	2579.9	2636.6	2670.3	2687.2	2688.7	2688.7	2702.5	2710.2	2716.3	2722.4
30°	2524.8	2550.8	2557.0	2558.5	2550.8	2546.2	2555.4	2557.0	2561.6	2561.6
32.5°	2414.5	2420.6	2409.9	2393.0	2388.4	2379.3	2385.4	2382.3	2390.0	2394.6
35°	2273.5	2262.8	2235.2	2223.0	2206.1	2201.5	2206.1	2203.1	2207.7	2218.4
37.5°	2112.7	2089.7	2066.7	2045.3	2033.0	2020.8	2025.4	2029.9	2036.1	2039.1
40°	1947.2	1916.6	1892.1	1870.6	1858.4	1849.2	1856.8	1861.4	1875.2	1875.2
42.5°	1780.2	1746.5	1722.0	1708.2	1699.0	1691.4	1703.6	1706.7	1723.5	1726.6
45°	1614.8	1585.7	1565.7	1552.0	1544.3	1547.4	1559.6	1567.3	1582.6	1590.3
47.5°	1463.1	1438.6	1417.1	1411.0	1411.0	1414.1	1426.3	1434.0	1446.2	1455.4
50°	1314.5	1296.1	1282.3	1274.7	1276.2	1280.8	1291.5	1297.6	1309.9	1309.9
52.5°	1168.9	1156.7	1150.6	1141.4	1141.4	1139.8	1150.6	1156.7	1165.9	1167.4
55°	1041.8	1031.1	1024.9	1018.8	1017.3	1020.3	1026.5	1031.1	1041.8	1043.3
57.5°	920.8	916.2	911.6	907.0	905.4	907.0	910.0	913.1	919.2	920.8
60°	810.4	808.9	802.8	798.2	796.7	795.1	793.6	792.1	795.1	793.6
62.5°	709.3	704.7	700.1	690.9	686.4	674.1	658.8	625.1	597.5	582.2
65°	609.8	606.7	585.2	522.4	484.1	435.1	383.0	332.5	315.6	304.9
67.5°	513.2	462.7	386.1	330.9	311.0	292.6	265.0	237.5	222.1	213.0
70°	369.2	326.3	291.1	260.4	246.7	235.9	214.5	194.6	180.8	174.7
72.5°	298.7	271.2	248.2	225.2	214.5	202.2	180.8	160.9	148.6	142.5
75°	249.7	232.9	209.9	188.4	179.2	170.1	154.7	139.4	128.7	124.1
77.5°	197.6	188.4	174.7	157.8	150.1	144.0	130.2	119.5	108.8	104.2
80°	145.5	142.5	133.3	121.0	114.9	110.3	99.6	90.4	81.2	78.1
82.5°	107.2	104.2	96.5	87.3	84.3	79.7	72.0	64.3	58.2	55.2
85°	73.5	72.0	65.9	59.7	56.7	53.6	46.0	39.8	35.2	32.2
87.5°	46.0	44.4	41.4	35.2	32.2	29.1	23.0	18.4	13.8	12.3
90°	23.0	23.0	21.4	16.9	15.3	13.8	9.2	4.6	1.5	0.0
92.5°	6.1	6.1	6.1	4.6	4.6	3.1	1.5	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: P256904

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