

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: P256899

Luminaire Tested: **HGL-S-BA-40L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256899
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-40L930-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: 5658.7 lumens
Efficiency: N/A
Efficacy: 97.6 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

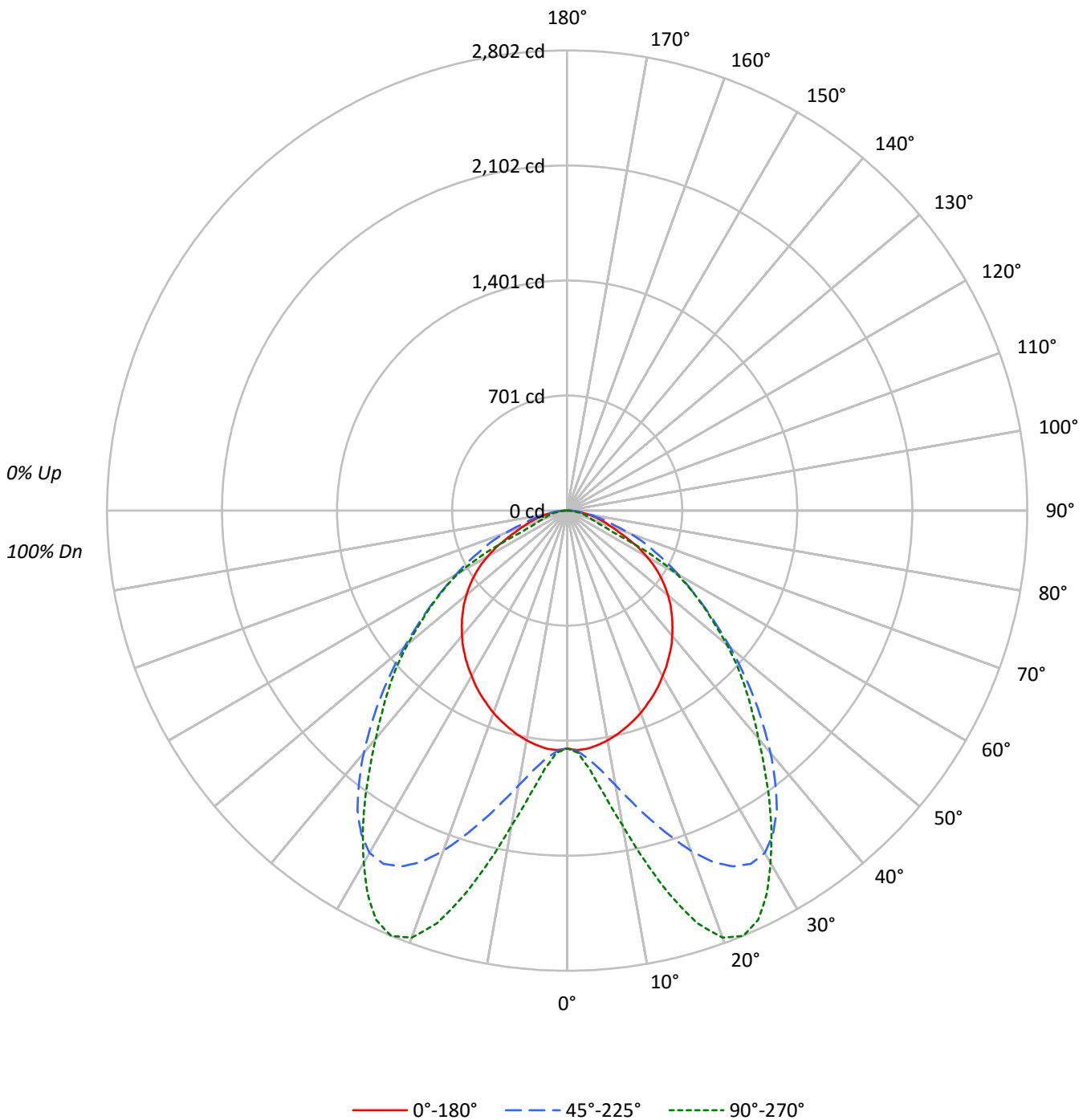
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8506	8506	8506
5°	8572	8924	9288
10°	8467	10064	11524
15°	8326	11713	14568
20°	8187	13614	17018
25°	8037	15261	17464
30°	7878	16025	16378
35°	7754	15610	14917
40°	7621	14387	13405
45°	7481	12922	12232
50°	7309	11407	10996
55°	7038	9950	9720
60°	6560	8739	8377
65°	5685	7571	3745
70°	4891	6385	2589
75°	4482	4957	2341
80°	4029	4032	2046
85°	3347	3515	1398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	2.7
10°-20°	547.8	9.7
20°-30°	991.5	17.5
30°-40°	1189.9	21.0
40°-50°	1127.2	19.9
50°-60°	883.2	15.6
60°-70°	492.9	8.7
70°-80°	208.9	3.7
80°-90°	65.0	1.1
90°-100°	2.3	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°	1689.4	29.9
0°-40°	2879.3	50.9
0°-60°	4889.6	86.4
0°-90°	5656.4	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	5658.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1455	1460	1518	1569	1582	138
15°	1370	1535	1943	2300	2425	386
25°	1241	1631	2391	2682	2751	572
35°	1083	1668	2226	2133	2145	678
45°	902	1527	1606	1493	1538	696
55°	689	1110	1016	984	1009	613
65°	410	512	582	468	295	410
75°	198	206	244	173	120	211
85°	50	58	71	55	31	56
90°	0	12	22	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°	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7
2.5°	1460.5	1459.0	1454.6	1448.7	1450.1	1451.6	1451.6	1453.1	1454.6	1459.0	1467.9
5°	1454.6	1451.6	1450.1	1448.7	1456.1	1460.5	1465.0	1473.8	1484.2	1500.5	1518.3
7.5°	1439.8	1439.8	1442.7	1448.7	1465.0	1475.3	1484.2	1506.4	1531.6	1562.7	1596.8
10°	1420.5	1423.5	1432.4	1445.7	1475.3	1491.6	1509.4	1546.4	1589.4	1641.2	1697.5
12.5°	1396.8	1402.7	1417.6	1442.7	1487.2	1512.4	1539.0	1595.3	1659.0	1733.1	1816.0
15°	1370.2	1377.6	1401.3	1438.3	1499.0	1534.6	1571.6	1648.6	1736.0	1835.3	1943.4
17.5°	1342.0	1352.4	1385.0	1436.8	1515.3	1559.8	1607.2	1707.9	1820.5	1940.4	2073.7
20°	1310.9	1325.7	1367.2	1433.8	1530.1	1584.9	1642.7	1768.6	1906.4	2048.6	2204.1
22.5°	1275.4	1294.6	1346.5	1427.9	1544.9	1610.1	1678.3	1824.9	1984.9	2146.3	2315.2
25°	1241.3	1262.0	1322.8	1420.5	1556.8	1630.9	1709.4	1876.7	2056.0	2226.3	2390.7
27.5°	1204.3	1228.0	1300.5	1413.1	1565.7	1648.6	1736.0	1919.7	2107.8	2276.7	2424.8
30°	1162.8	1193.9	1275.4	1401.3	1570.1	1662.0	1756.8	1953.8	2140.4	2288.5	2407.0
32.5°	1124.3	1158.3	1247.2	1387.9	1571.6	1669.4	1770.1	1964.1	2140.4	2261.9	2333.0
35°	1082.8	1119.8	1219.1	1371.6	1565.7	1667.9	1768.6	1961.2	2109.3	2192.2	2226.3
37.5°	1041.3	1081.3	1189.4	1349.4	1552.3	1657.5	1758.2	1931.5	2045.6	2090.0	2081.2
40°	995.4	1039.8	1150.9	1321.3	1528.6	1630.9	1727.1	1879.7	1952.3	1959.7	1927.1
42.5°	949.5	995.4	1112.4	1284.2	1488.7	1586.4	1675.3	1796.8	1830.8	1814.5	1764.2
45°	902.1	949.5	1066.5	1239.8	1438.3	1527.2	1601.2	1688.6	1688.6	1659.0	1605.7
47.5°	853.2	899.1	1017.6	1188.0	1373.1	1450.1	1510.9	1562.7	1539.0	1502.0	1448.7
50°	801.4	847.3	962.8	1125.7	1288.7	1352.4	1402.7	1422.0	1385.0	1343.5	1296.1
52.5°	746.5	792.5	897.6	1047.2	1189.4	1236.8	1273.9	1272.4	1228.0	1190.9	1149.4
55°	688.8	730.3	825.1	953.9	1070.9	1109.5	1131.7	1113.9	1072.4	1038.4	1016.1
57.5°	628.0	662.1	743.6	848.8	936.1	965.8	979.1	955.4	925.8	905.0	893.2
60°	559.9	588.1	645.8	727.3	791.0	811.7	820.6	804.3	793.9	788.0	785.1
62.5°	488.8	502.1	539.2	592.5	645.8	660.6	671.0	674.0	672.5	675.4	682.9
65°	410.3	414.7	426.6	453.3	494.7	512.5	531.8	552.5	564.4	576.2	582.1
67.5°	337.7	339.2	345.1	354.0	370.3	389.6	405.9	437.0	463.6	485.8	500.7
70°	285.9	284.4	285.9	290.3	299.2	306.6	314.0	336.2	364.4	401.4	404.4
72.5°	241.4	240.0	241.4	244.4	247.4	250.3	254.8	263.7	280.0	302.2	306.6
75°	198.5	198.5	198.5	201.4	204.4	205.9	208.9	211.8	217.7	234.0	244.4
77.5°	158.5	157.0	160.0	161.5	162.9	165.9	167.4	170.3	173.3	179.2	186.6
80°	120.0	118.5	120.0	122.9	124.4	127.4	127.4	131.8	133.3	137.8	140.7
82.5°	84.4	82.9	84.4	87.4	87.4	90.4	91.8	94.8	97.8	100.7	103.7
85°	50.4	50.4	51.8	53.3	54.8	57.8	59.2	63.7	66.7	69.6	71.1
87.5°	22.2	22.2	23.7	25.2	28.1	31.1	32.6	35.5	38.5	43.0	43.0
90°	0.0	1.5	4.4	7.4	8.9	11.8	11.8	16.3	17.8	20.7	22.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	4.4	5.9
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°	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7
2.5°	1481.2	1472.4	1478.3	1479.8	1481.2	1478.3	1475.3	1478.3	1475.3	1475.3
5°	1540.5	1539.0	1553.8	1564.2	1568.6	1568.6	1577.5	1583.5	1584.9	1582.0
7.5°	1633.8	1642.7	1672.3	1693.1	1704.9	1710.8	1727.1	1736.0	1747.9	1746.4
10°	1756.8	1784.9	1829.3	1859.0	1879.7	1890.1	1913.8	1930.1	1949.3	1947.8
12.5°	1891.6	1943.4	2005.6	2053.0	2084.1	2103.4	2134.5	2164.1	2181.9	2183.4
15°	2044.1	2115.2	2199.7	2260.4	2300.4	2325.6	2368.5	2398.1	2427.8	2424.8
17.5°	2193.7	2279.6	2381.8	2461.8	2498.9	2522.6	2574.4	2605.5	2633.7	2633.7
20°	2327.0	2426.3	2530.0	2604.0	2639.6	2663.3	2707.7	2738.8	2759.6	2767.0
22.5°	2433.7	2525.5	2612.9	2676.6	2698.8	2718.1	2752.2	2777.3	2790.7	2802.5
25°	2492.9	2567.0	2626.3	2670.7	2682.5	2692.9	2712.2	2731.4	2734.4	2750.7
27.5°	2494.4	2549.2	2581.8	2598.1	2599.6	2599.6	2612.9	2620.3	2626.3	2632.2
30°	2441.1	2466.3	2472.2	2473.7	2466.3	2461.8	2470.7	2472.2	2476.6	2476.6
32.5°	2334.4	2340.4	2330.0	2313.7	2309.3	2300.4	2306.3	2303.3	2310.7	2315.2
35°	2198.2	2187.8	2161.1	2149.3	2133.0	2128.6	2133.0	2130.0	2134.5	2144.8
37.5°	2042.6	2020.4	1998.2	1977.5	1965.6	1953.8	1958.2	1962.7	1968.6	1971.5
40°	1882.7	1853.0	1829.3	1808.6	1796.8	1787.9	1795.3	1799.7	1813.0	1813.0
42.5°	1721.2	1688.6	1664.9	1651.6	1642.7	1635.3	1647.1	1650.1	1666.4	1669.4
45°	1561.2	1533.1	1513.8	1500.5	1493.1	1496.1	1507.9	1515.3	1530.1	1537.5
47.5°	1414.6	1390.9	1370.2	1364.2	1364.2	1367.2	1379.0	1386.4	1398.3	1407.2
50°	1270.9	1253.1	1239.8	1232.4	1233.9	1238.3	1248.7	1254.6	1266.5	1266.5
52.5°	1130.2	1118.3	1112.4	1103.5	1103.5	1102.0	1112.4	1118.3	1127.2	1128.7
55°	1007.2	996.9	991.0	985.0	983.5	986.5	992.4	996.9	1007.2	1008.7
57.5°	890.2	885.8	881.3	876.9	875.4	876.9	879.9	882.8	888.7	890.2
60°	783.6	782.1	776.2	771.7	770.2	768.8	767.3	765.8	768.8	767.3
62.5°	685.8	681.4	676.9	668.0	663.6	651.7	636.9	604.3	577.7	562.9
65°	589.5	586.6	565.8	505.1	468.1	420.7	370.3	321.4	305.1	294.8
67.5°	496.2	447.3	373.3	319.9	300.7	282.9	256.3	229.6	214.8	205.9
70°	357.0	315.5	281.4	251.8	238.5	228.1	207.4	188.1	174.8	168.9
72.5°	288.8	262.2	240.0	217.7	207.4	195.5	174.8	155.5	143.7	137.8
75°	241.4	225.1	202.9	182.2	173.3	164.4	149.6	134.8	124.4	120.0
77.5°	191.1	182.2	168.9	152.6	145.2	139.2	125.9	115.5	105.2	100.7
80°	140.7	137.8	128.9	117.0	111.1	106.6	96.3	87.4	78.5	75.5
82.5°	103.7	100.7	93.3	84.4	81.5	77.0	69.6	62.2	56.3	53.3
85°	71.1	69.6	63.7	57.8	54.8	51.8	44.4	38.5	34.1	31.1
87.5°	44.4	43.0	40.0	34.1	31.1	28.1	22.2	17.8	13.3	11.8
90°	22.2	22.2	20.7	16.3	14.8	13.3	8.9	4.4	1.5	0.0
92.5°	5.9	5.9	5.9	4.4	4.4	3.0	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: P256899

CATALOG NUMBER: HGL-S-BA-40L930-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)