

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: P256893

Luminaire Tested: **HGL-S-BA-30L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256893
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-30L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.5 lumens
Efficiency: N/A
Efficacy: 137.7 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

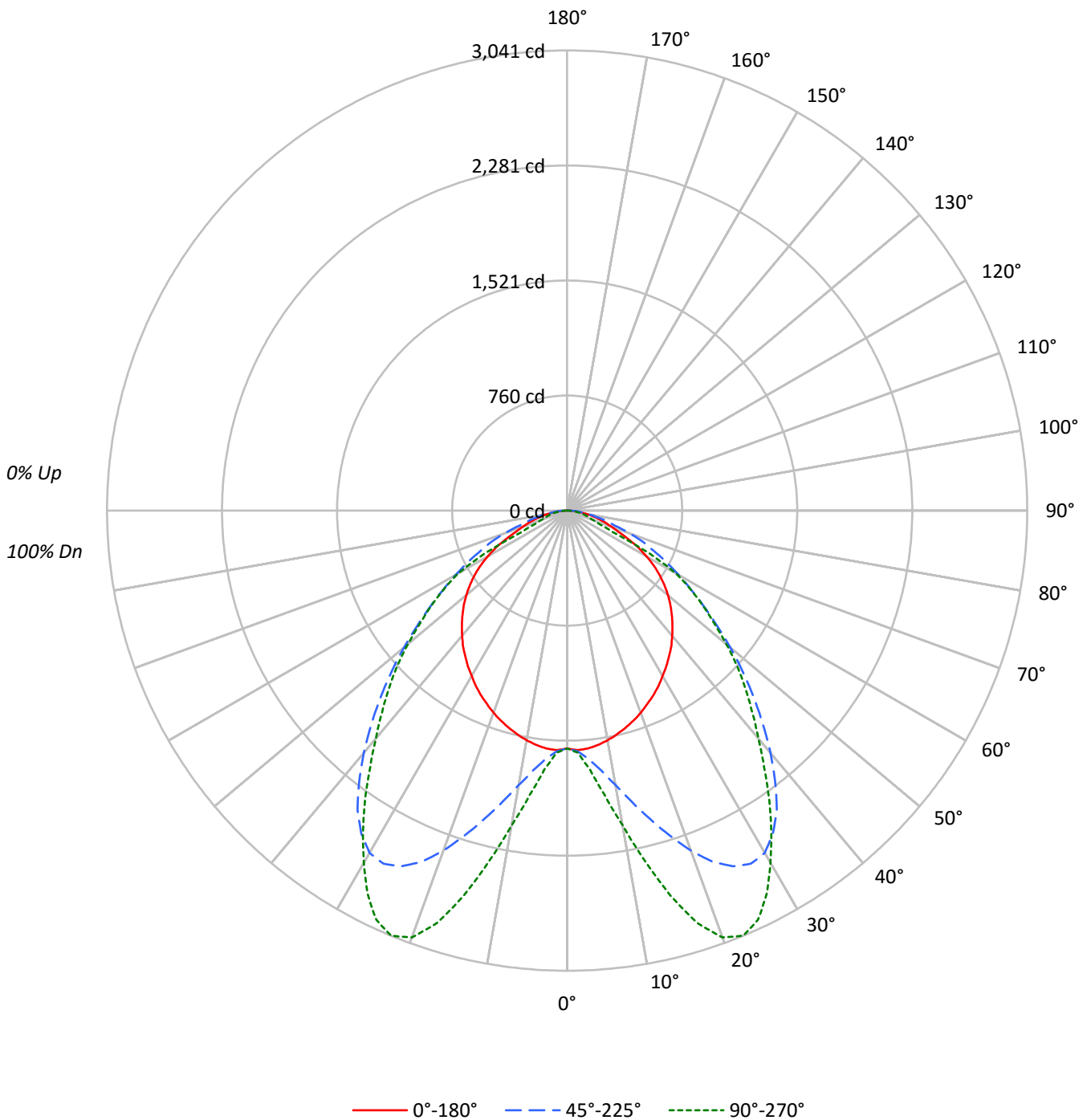
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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						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°	9228	9228	9228
5°	9300	9682	10077
10°	9186	10919	12503
15°	9033	12708	15806
20°	8883	14770	18463
25°	8719	16558	18948
30°	8547	17386	17770
35°	8413	16937	16185
40°	8269	15609	14544
45°	8116	14020	13272
50°	7929	12376	11931
55°	7636	10796	10545
60°	7118	9481	9089
65°	6168	8215	4063
70°	5307	6927	2808
75°	4861	5379	2540
80°	4371	4375	2222
85°	3626	3811	1515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	2.7
10°-20°	594.3	9.7
20°-30°	1075.7	17.5
30°-40°	1290.9	21.0
40°-50°	1222.9	19.9
50°-60°	958.2	15.6
60°-70°	534.8	8.7
70°-80°	226.6	3.7
80°-90°	70.5	1.1
90°-100°	2.5	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°	1832.9	29.9
0°-40°	3123.9	50.9
0°-60°	5305.0	86.4
0°-90°	6137.0	100.0
90°-120°	2.5	0.0
90°-150°	2.5	0.0
90°-180°	3.0	0.0
0°-180°	6139.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1578	1585	1647	1702	1716	149
15°	1487	1665	2108	2496	2631	419
25°	1347	1769	2594	2910	2984	620
35°	1175	1810	2416	2314	2327	735
45°	979	1657	1742	1620	1668	755
55°	747	1204	1102	1067	1094	666
65°	445	556	632	508	320	445
75°	215	223	265	188	130	229
85°	55	63	77	60	34	61
90°	0	13	24	16	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°	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7
2.5°	1584.6	1583.0	1578.2	1571.7	1573.3	1574.9	1574.9	1576.6	1578.2	1583.0	1592.6
5°	1578.2	1574.9	1573.3	1571.7	1579.8	1584.6	1589.4	1599.1	1610.3	1628.0	1647.3
7.5°	1562.1	1562.1	1565.3	1571.7	1589.4	1600.7	1610.3	1634.4	1661.7	1695.5	1732.4
10°	1541.2	1544.4	1554.1	1568.5	1600.7	1618.3	1637.6	1677.8	1724.4	1780.7	1841.7
12.5°	1515.5	1521.9	1538.0	1565.3	1613.5	1640.8	1669.8	1730.8	1799.9	1880.3	1970.3
15°	1486.6	1494.6	1520.3	1560.5	1626.4	1664.9	1705.1	1788.7	1883.5	1991.2	2108.5
17.5°	1456.0	1467.3	1502.6	1558.9	1644.1	1692.3	1743.7	1853.0	1975.1	2105.3	2249.9
20°	1422.3	1438.3	1483.3	1555.7	1660.1	1719.6	1782.3	1918.9	2068.3	2222.6	2391.3
22.5°	1383.7	1404.6	1460.8	1549.2	1676.2	1746.9	1820.8	1979.9	2153.5	2328.7	2511.9
25°	1346.7	1369.2	1435.1	1541.2	1689.0	1769.4	1854.6	2036.2	2230.6	2415.5	2593.8
27.5°	1306.6	1332.3	1411.0	1533.2	1698.7	1788.7	1883.5	2082.8	2286.9	2470.1	2630.8
30°	1261.6	1295.3	1383.7	1520.3	1703.5	1803.2	1906.0	2119.7	2322.2	2483.0	2611.5
32.5°	1219.8	1256.7	1353.2	1505.8	1705.1	1811.2	1920.5	2131.0	2322.2	2454.0	2531.2
35°	1174.8	1215.0	1322.6	1488.2	1698.7	1809.6	1918.9	2127.8	2288.5	2378.5	2415.5
37.5°	1129.8	1173.2	1290.5	1464.1	1684.2	1798.3	1907.6	2095.6	2219.4	2267.6	2258.0
40°	1080.0	1128.2	1248.7	1433.5	1658.5	1769.4	1873.9	2039.4	2118.1	2126.2	2090.8
42.5°	1030.1	1080.0	1206.9	1393.3	1615.1	1721.2	1817.6	1949.4	1986.4	1968.7	1914.0
45°	978.7	1030.1	1157.1	1345.1	1560.5	1656.9	1737.3	1832.1	1832.1	1799.9	1742.1
47.5°	925.7	975.5	1104.1	1288.9	1489.8	1573.3	1639.2	1695.5	1669.8	1629.6	1571.7
50°	869.4	919.3	1044.6	1221.4	1398.2	1467.3	1521.9	1542.8	1502.6	1457.6	1406.2
52.5°	810.0	859.8	973.9	1136.2	1290.5	1341.9	1382.1	1380.5	1332.3	1292.1	1247.1
55°	747.3	792.3	895.1	1035.0	1161.9	1203.7	1227.8	1208.5	1163.5	1126.6	1102.5
57.5°	681.4	718.4	806.8	920.9	1015.7	1047.8	1062.3	1036.6	1004.4	981.9	969.1
60°	607.5	638.0	700.7	789.1	858.2	880.7	890.3	872.6	861.4	855.0	851.8
62.5°	530.3	544.8	585.0	642.8	700.7	716.8	728.0	731.2	729.6	732.8	740.9
65°	445.2	450.0	462.8	491.8	536.8	556.1	576.9	599.4	612.3	625.2	631.6
67.5°	366.4	368.0	374.5	384.1	401.8	422.7	440.3	474.1	503.0	527.1	543.2
70°	310.2	308.6	310.2	315.0	324.6	332.7	340.7	364.8	395.3	435.5	438.7
72.5°	262.0	260.3	262.0	265.2	268.4	271.6	276.4	286.1	303.7	327.8	332.7
75°	215.3	215.3	215.3	218.6	221.8	223.4	226.6	229.8	236.2	253.9	265.2
77.5°	172.0	170.4	173.6	175.2	176.8	180.0	181.6	184.8	188.0	194.5	202.5
80°	130.2	128.6	130.2	133.4	135.0	138.2	138.2	143.0	144.6	149.5	152.7
82.5°	91.6	90.0	91.6	94.8	94.8	98.0	99.6	102.9	106.1	109.3	112.5
85°	54.6	54.6	56.2	57.9	59.5	62.7	64.3	69.1	72.3	75.5	77.1
87.5°	24.1	24.1	25.7	27.3	30.5	33.7	35.4	38.6	41.8	46.6	46.6
90°	0.0	1.6	4.8	8.0	9.6	12.9	12.9	17.7	19.3	22.5	24.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	6.4
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°	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7	1571.7
2.5°	1607.1	1597.4	1603.9	1605.5	1607.1	1603.9	1600.7	1603.9	1600.7	1600.7
5°	1671.4	1669.8	1685.8	1697.1	1701.9	1701.9	1711.5	1718.0	1719.6	1716.4
7.5°	1772.6	1782.3	1814.4	1836.9	1849.8	1856.2	1873.9	1883.5	1896.4	1894.8
10°	1906.0	1936.5	1984.8	2016.9	2039.4	2050.6	2076.4	2094.0	2114.9	2113.3
12.5°	2052.3	2108.5	2176.0	2227.4	2261.2	2282.1	2315.8	2348.0	2367.2	2368.8
15°	2217.8	2294.9	2386.5	2452.4	2495.8	2523.1	2569.7	2601.9	2634.0	2630.8
17.5°	2380.1	2473.3	2584.2	2671.0	2711.2	2736.9	2793.1	2826.9	2857.4	2857.4
20°	2524.7	2632.4	2744.9	2825.3	2863.8	2889.5	2937.8	2971.5	2994.0	3002.0
22.5°	2640.4	2740.1	2834.9	2904.0	2928.1	2949.0	2986.0	3013.3	3027.8	3040.6
25°	2704.7	2785.1	2849.4	2897.6	2910.4	2921.7	2942.6	2963.5	2966.7	2984.4
27.5°	2706.3	2765.8	2801.2	2818.8	2820.4	2820.4	2834.9	2842.9	2849.4	2855.8
30°	2648.5	2675.8	2682.2	2683.8	2675.8	2671.0	2680.6	2682.2	2687.1	2687.1
32.5°	2532.8	2539.2	2527.9	2510.3	2505.4	2495.8	2502.2	2499.0	2507.1	2511.9
35°	2384.9	2373.7	2344.7	2331.9	2314.2	2309.4	2314.2	2311.0	2315.8	2327.1
37.5°	2216.2	2192.1	2168.0	2145.5	2132.6	2119.7	2124.6	2129.4	2135.8	2139.0
40°	2042.6	2010.5	1984.8	1962.3	1949.4	1939.8	1947.8	1952.6	1967.1	1967.1
42.5°	1867.4	1832.1	1806.4	1791.9	1782.3	1774.2	1787.1	1790.3	1808.0	1811.2
45°	1693.9	1663.3	1642.4	1628.0	1619.9	1623.2	1636.0	1644.1	1660.1	1668.2
47.5°	1534.8	1509.1	1486.6	1480.1	1480.1	1483.3	1496.2	1504.2	1517.1	1526.7
50°	1378.9	1359.6	1345.1	1337.1	1338.7	1343.5	1354.8	1361.2	1374.1	1374.1
52.5°	1226.2	1213.4	1206.9	1197.3	1197.3	1195.7	1206.9	1213.4	1223.0	1224.6
55°	1092.8	1081.6	1075.1	1068.7	1067.1	1070.3	1076.7	1081.6	1092.8	1094.4
57.5°	965.9	961.0	956.2	951.4	949.8	951.4	954.6	957.8	964.3	965.9
60°	850.1	848.5	842.1	837.3	835.7	834.1	832.5	830.9	834.1	832.5
62.5°	744.1	739.3	734.4	724.8	720.0	707.1	691.0	655.7	626.8	610.7
65°	639.6	636.4	613.9	548.0	507.8	456.4	401.8	348.7	331.1	319.8
67.5°	538.4	485.3	405.0	347.1	326.2	307.0	278.0	249.1	233.0	223.4
70°	387.3	342.3	305.3	273.2	258.7	247.5	225.0	204.1	189.6	183.2
72.5°	313.4	284.5	260.3	236.2	225.0	212.1	189.6	168.7	155.9	149.5
75°	262.0	244.3	220.2	197.7	188.0	178.4	162.3	146.2	135.0	130.2
77.5°	207.3	197.7	183.2	165.5	157.5	151.1	136.6	125.4	114.1	109.3
80°	152.7	149.5	139.8	127.0	120.5	115.7	104.5	94.8	85.2	82.0
82.5°	112.5	109.3	101.2	91.6	88.4	83.6	75.5	67.5	61.1	57.9
85°	77.1	75.5	69.1	62.7	59.5	56.2	48.2	41.8	37.0	33.7
87.5°	48.2	46.6	43.4	37.0	33.7	30.5	24.1	19.3	14.5	12.9
90°	24.1	24.1	22.5	17.7	16.1	14.5	9.6	4.8	1.6	0.0
92.5°	6.4	6.4	6.4	4.8	4.8	3.2	1.6	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: P256893

CATALOG NUMBER: HGL-S-BA-30L840-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)