

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: P256883

Luminaire Tested: **HGL-S-BA-30L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256883
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-30L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5831.1 lumens
Efficiency: N/A
Efficacy: 130.7 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

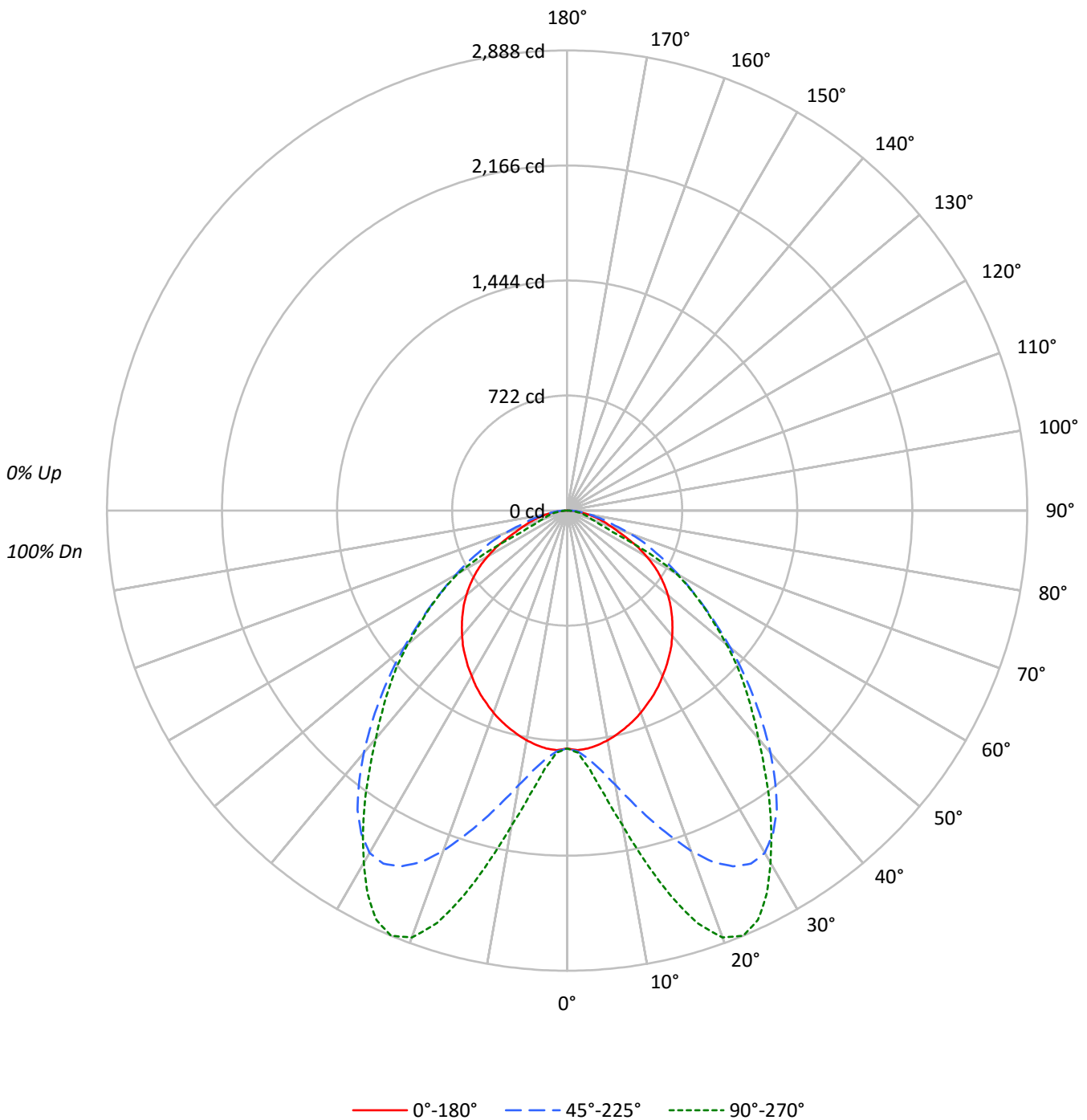
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	8765	8765	8765
5°	8833	9195	9571
10°	8725	10370	11875
15°	8579	12070	15012
20°	8436	14028	17536
25°	8281	15727	17996
30°	8117	16513	16877
35°	7990	16085	15372
40°	7853	14825	13813
45°	7709	13316	12605
50°	7532	11755	11331
55°	7253	10254	10016
60°	6761	9005	8632
65°	5858	7803	3858
70°	5040	6579	2667
75°	4617	5109	2411
80°	4150	4155	2109
85°	3447	3623	1443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	2.7
10°-20°	564.5	9.7
20°-30°	1021.7	17.5
30°-40°	1226.1	21.0
40°-50°	1161.5	19.9
50°-60°	910.1	15.6
60°-70°	507.9	8.7
70°-80°	215.2	3.7
80°-90°	67.0	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°	1740.9	29.9
0°-40°	2967.0	50.9
0°-60°	5038.6	86.4
0°-90°	5828.7	100.0
90°-120°	2.4	0.0
90°-150°	2.4	0.0
90°-180°	2.0	0.0
0°-180°	5831.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1499	1505	1564	1616	1630	142
15°	1412	1581	2003	2370	2499	398
25°	1279	1680	2464	2764	2834	589
35°	1116	1719	2294	2198	2210	698
45°	930	1574	1655	1539	1584	717
55°	710	1143	1047	1014	1040	632
65°	423	528	600	482	304	423
75°	204	212	252	179	124	218
85°	52	60	73	56	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°	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8
2.5°	1505.0	1503.5	1498.9	1492.8	1494.3	1495.8	1495.8	1497.4	1498.9	1503.5	1512.6
5°	1498.9	1495.8	1494.3	1492.8	1500.4	1505.0	1509.6	1518.7	1529.4	1546.2	1564.5
7.5°	1483.6	1483.6	1486.7	1492.8	1509.6	1520.3	1529.4	1552.3	1578.3	1610.3	1645.4
10°	1463.8	1466.8	1476.0	1489.7	1520.3	1537.0	1555.4	1593.5	1637.8	1691.2	1749.2
12.5°	1439.4	1445.5	1460.7	1486.7	1532.5	1558.4	1585.9	1643.9	1709.5	1785.8	1871.3
15°	1411.9	1419.5	1443.9	1482.1	1544.7	1581.3	1619.5	1698.8	1788.9	1891.2	2002.6
17.5°	1382.9	1393.6	1427.2	1480.6	1561.5	1607.3	1656.1	1759.9	1875.9	1999.5	2136.9
20°	1350.8	1366.1	1408.8	1477.5	1576.7	1633.2	1692.7	1822.5	1964.4	2111.0	2271.2
22.5°	1314.2	1334.0	1387.5	1471.4	1592.0	1659.2	1729.4	1880.5	2045.3	2211.7	2385.7
25°	1279.1	1300.5	1363.0	1463.8	1604.2	1680.5	1761.4	1933.9	2118.6	2294.1	2463.6
27.5°	1240.9	1265.4	1340.1	1456.2	1613.4	1698.8	1788.9	1978.2	2172.0	2346.0	2498.7
30°	1198.2	1230.2	1314.2	1443.9	1617.9	1712.6	1810.3	2013.3	2205.6	2358.2	2480.3
32.5°	1158.5	1193.6	1285.2	1430.2	1619.5	1720.2	1824.0	2024.0	2205.6	2330.8	2404.0
35°	1115.8	1153.9	1256.2	1413.4	1613.4	1718.7	1822.5	2020.9	2173.5	2259.0	2294.1
37.5°	1073.0	1114.2	1225.7	1390.5	1599.6	1708.0	1811.8	1990.4	2107.9	2153.7	2144.5
40°	1025.7	1071.5	1186.0	1361.5	1575.2	1680.5	1779.7	1937.0	2011.7	2019.4	1985.8
42.5°	978.4	1025.7	1146.3	1323.4	1534.0	1634.7	1726.3	1851.5	1886.6	1869.8	1817.9
45°	929.6	978.4	1099.0	1277.6	1482.1	1573.7	1650.0	1740.1	1740.1	1709.5	1654.6
47.5°	879.2	926.5	1048.6	1224.1	1414.9	1494.3	1556.9	1610.3	1585.9	1547.7	1492.8
50°	825.8	873.1	992.1	1160.0	1327.9	1393.6	1445.5	1465.3	1427.2	1384.4	1335.6
52.5°	769.3	816.6	925.0	1079.1	1225.7	1274.5	1312.7	1311.1	1265.4	1227.2	1184.5
55°	709.8	752.5	850.2	983.0	1103.6	1143.2	1166.1	1147.8	1105.1	1070.0	1047.1
57.5°	647.2	682.3	766.2	874.6	964.7	995.2	1008.9	984.5	954.0	932.6	920.4
60°	577.0	606.0	665.5	749.4	815.1	836.4	845.6	828.8	818.1	812.0	809.0
62.5°	503.7	517.4	555.6	610.5	665.5	680.8	691.4	694.5	693.0	696.0	703.7
65°	422.8	427.4	439.6	467.1	509.8	528.1	548.0	569.3	581.5	593.8	599.9
67.5°	348.0	349.5	355.6	364.8	381.6	401.4	418.2	450.3	477.8	500.6	515.9
70°	294.6	293.1	294.6	299.2	308.3	316.0	323.6	346.5	375.5	413.6	416.7
72.5°	248.8	247.3	248.8	251.9	254.9	258.0	262.5	271.7	288.5	311.4	316.0
75°	204.5	204.5	204.5	207.6	210.6	212.2	215.2	218.3	224.4	241.2	251.9
77.5°	163.3	161.8	164.8	166.4	167.9	171.0	172.5	175.5	178.6	184.7	192.3
80°	123.6	122.1	123.6	126.7	128.2	131.3	131.3	135.8	137.4	142.0	145.0
82.5°	87.0	85.5	87.0	90.1	90.1	93.1	94.6	97.7	100.7	103.8	106.8
85°	51.9	51.9	53.4	54.9	56.5	59.5	61.1	65.6	68.7	71.7	73.3
87.5°	22.9	22.9	24.4	25.9	29.0	32.1	33.6	36.6	39.7	44.3	44.3
90°	0.0	1.5	4.6	7.6	9.2	12.2	12.2	16.8	18.3	21.4	22.9
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°	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8
2.5°	1526.4	1517.2	1523.3	1524.8	1526.4	1523.3	1520.3	1523.3	1520.3	1520.3
5°	1587.4	1585.9	1601.2	1611.8	1616.4	1616.4	1625.6	1631.7	1633.2	1630.2
7.5°	1683.6	1692.7	1723.3	1744.6	1756.8	1763.0	1779.7	1788.9	1801.1	1799.6
10°	1810.3	1839.3	1885.1	1915.6	1937.0	1947.6	1972.1	1988.9	2008.7	2007.2
12.5°	1949.2	2002.6	2066.7	2115.5	2147.6	2167.4	2199.5	2230.0	2248.3	2249.9
15°	2106.4	2179.6	2266.7	2329.2	2370.4	2396.4	2440.7	2471.2	2501.7	2498.7
17.5°	2260.5	2349.1	2454.4	2536.8	2575.0	2599.4	2652.8	2684.9	2713.9	2713.9
20°	2397.9	2500.2	2607.0	2683.3	2720.0	2744.4	2790.2	2822.2	2843.6	2851.2
22.5°	2507.8	2602.5	2692.5	2758.1	2781.0	2800.9	2836.0	2861.9	2875.7	2887.9
25°	2568.9	2645.2	2706.2	2752.0	2764.2	2774.9	2794.8	2814.6	2817.7	2834.5
27.5°	2570.4	2626.9	2660.5	2677.2	2678.8	2678.8	2692.5	2700.1	2706.2	2712.3
30°	2515.4	2541.4	2547.5	2549.0	2541.4	2536.8	2546.0	2547.5	2552.1	2552.1
32.5°	2405.5	2411.7	2401.0	2384.2	2379.6	2370.4	2376.5	2373.5	2381.1	2385.7
35°	2265.1	2254.4	2227.0	2214.8	2198.0	2193.4	2198.0	2194.9	2199.5	2210.2
37.5°	2104.9	2082.0	2059.1	2037.7	2025.5	2013.3	2017.9	2022.4	2028.5	2031.6
40°	1940.0	1909.5	1885.1	1863.7	1851.5	1842.3	1850.0	1854.5	1868.3	1868.3
42.5°	1773.6	1740.1	1715.6	1701.9	1692.7	1685.1	1697.3	1700.4	1717.2	1720.2
45°	1608.8	1579.8	1559.9	1546.2	1538.6	1541.6	1553.8	1561.5	1576.7	1584.4
47.5°	1457.7	1433.3	1411.9	1405.8	1405.8	1408.8	1421.0	1428.7	1440.9	1450.0
50°	1309.6	1291.3	1277.6	1269.9	1271.5	1276.0	1286.7	1292.8	1305.0	1305.0
52.5°	1164.6	1152.4	1146.3	1137.1	1137.1	1135.6	1146.3	1152.4	1161.6	1163.1
55°	1037.9	1027.2	1021.1	1015.0	1013.5	1016.6	1022.7	1027.2	1037.9	1039.5
57.5°	917.3	912.8	908.2	903.6	902.1	903.6	906.7	909.7	915.8	917.3
60°	807.4	805.9	799.8	795.2	793.7	792.2	790.7	789.1	792.2	790.7
62.5°	706.7	702.1	697.5	688.4	683.8	671.6	656.3	622.8	595.3	580.0
65°	607.5	604.4	583.1	520.5	482.3	433.5	381.6	331.2	314.4	303.7
67.5°	511.3	461.0	384.6	329.7	309.9	291.5	264.1	236.6	221.3	212.2
70°	367.9	325.1	290.0	259.5	245.7	235.1	213.7	193.8	180.1	174.0
72.5°	297.6	270.2	247.3	224.4	213.7	201.5	180.1	160.3	148.1	142.0
75°	248.8	232.0	209.1	187.7	178.6	169.4	154.2	138.9	128.2	123.6
77.5°	196.9	187.7	174.0	157.2	149.6	143.5	129.7	119.1	108.4	103.8
80°	145.0	142.0	132.8	120.6	114.5	109.9	99.2	90.1	80.9	77.8
82.5°	106.8	103.8	96.2	87.0	84.0	79.4	71.7	64.1	58.0	54.9
85°	73.3	71.7	65.6	59.5	56.5	53.4	45.8	39.7	35.1	32.1
87.5°	45.8	44.3	41.2	35.1	32.1	29.0	22.9	18.3	13.7	12.2
90°	22.9	22.9	21.4	16.8	15.3	13.7	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: P256883

CATALOG NUMBER: HGL-S-BA-30L830-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)