

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: P256863

Luminaire Tested: **HGL-S-BA-60L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256863
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-60L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

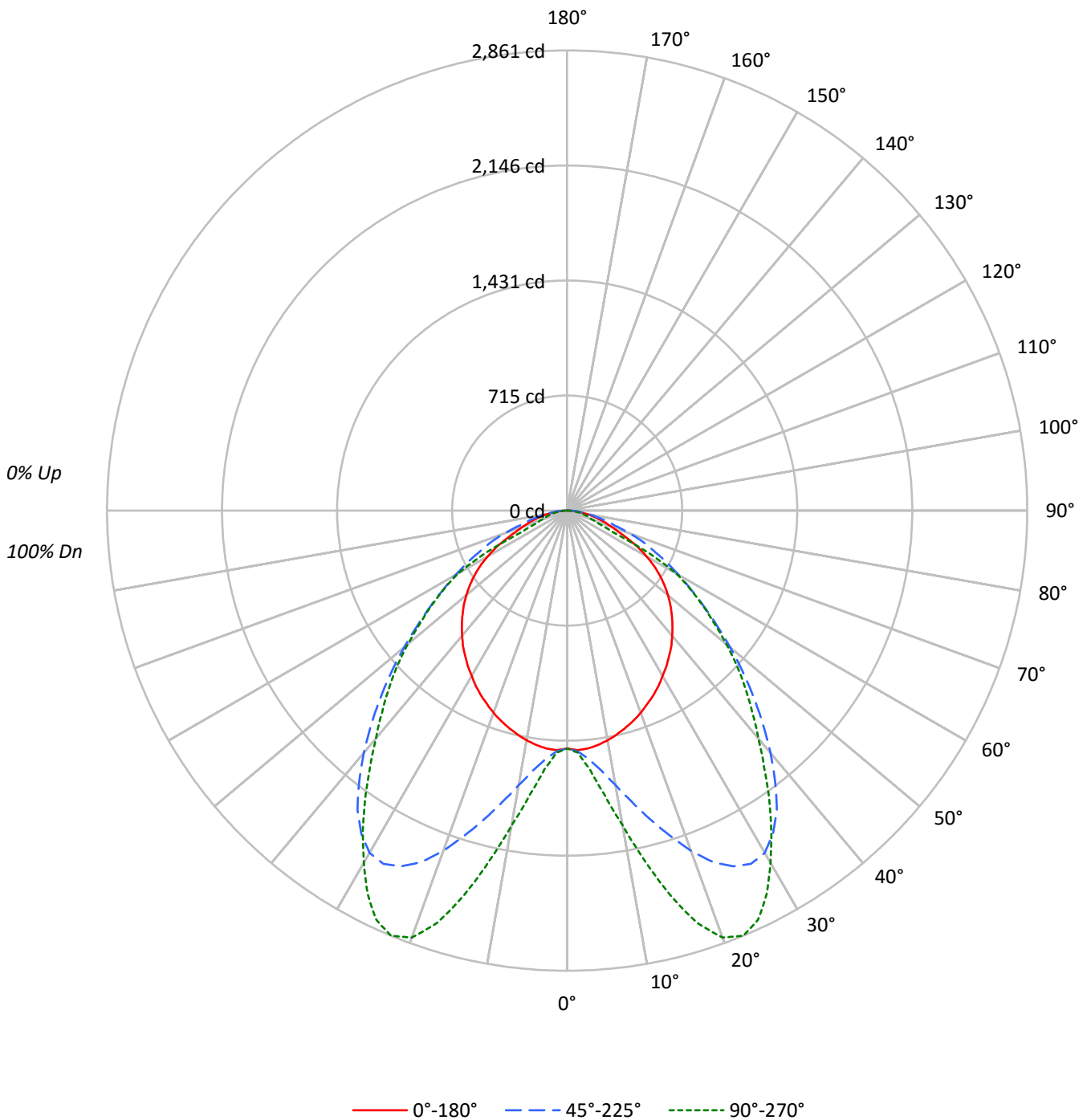
Lumens per Lamp: N/A
Luminaire Lumens: 5776.7 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

Input Watts (W): 47.6
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°	17366	17366	17366
5°	17499	18217	18964
10°	17283	20544	23529
15°	16992	23909	29745
20°	16707	27786	34746
25°	16399	31147	35656
30°	16071	32701	33439
35°	15818	31851	30457
40°	15544	29353	27368
45°	15255	26359	24975
50°	14901	23266	22451
55°	14343	20291	19846
60°	13366	17814	17103
65°	11577	15433	7645
70°	9950	13007	5285
75°	9107	10091	4779
80°	8168	8200	4179
85°	6733	7125	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	2.7
10°-20°	559.2	9.7
20°-30°	1012.1	17.5
30°-40°	1214.7	21.0
40°-50°	1150.7	19.9
50°-60°	901.6	15.6
60°-70°	503.2	8.7
70°-80°	213.2	3.7
80°-90°	66.3	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°	1724.6	29.9
0°-40°	2939.3	50.9
0°-60°	4991.6	86.4
0°-90°	5774.3	100.0
90°-120°	2.4	0.0
90°-150°	2.4	0.0
90°-180°	2.0	0.0
0°-180°	5776.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1485	1491	1550	1601	1615	141
15°	1399	1567	1984	2348	2475	394
25°	1267	1665	2441	2738	2808	584
35°	1105	1703	2273	2178	2190	692
45°	921	1559	1639	1524	1570	710
55°	703	1133	1037	1004	1030	626
65°	419	523	594	478	301	419
75°	203	210	250	177	122	216
85°	51	59	73	56	32	57
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°	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1491.0	1489.4	1484.9	1478.9	1480.4	1481.9	1481.9	1483.4	1484.9	1489.4	1498.5
5°	1484.9	1481.9	1480.4	1478.9	1486.4	1491.0	1495.5	1504.6	1515.2	1531.8	1549.9
7.5°	1469.8	1469.8	1472.8	1478.9	1495.5	1506.1	1515.2	1537.8	1563.5	1595.3	1630.1
10°	1450.1	1453.2	1462.2	1475.8	1506.1	1522.7	1540.9	1578.7	1622.5	1675.4	1732.9
12.5°	1425.9	1432.0	1447.1	1472.8	1518.2	1543.9	1571.1	1628.6	1693.6	1769.2	1853.9
15°	1398.7	1406.3	1430.5	1468.3	1530.3	1566.6	1604.4	1683.0	1772.2	1873.5	1983.9
17.5°	1370.0	1380.6	1413.8	1466.8	1546.9	1592.3	1640.7	1743.5	1858.4	1980.9	2117.0
20°	1338.2	1353.4	1395.7	1463.7	1562.0	1618.0	1677.0	1805.5	1946.1	2091.3	2250.0
22.5°	1301.9	1321.6	1374.5	1457.7	1577.2	1643.7	1713.2	1862.9	2026.3	2191.1	2363.5
25°	1267.2	1288.3	1350.3	1450.1	1589.2	1664.9	1745.0	1915.9	2098.8	2272.7	2440.6
27.5°	1229.4	1253.6	1327.7	1442.6	1598.3	1683.0	1772.2	1959.7	2151.8	2324.1	2475.4
30°	1187.0	1218.8	1301.9	1430.5	1602.9	1696.6	1793.4	1994.5	2185.0	2336.2	2457.2
32.5°	1147.7	1182.5	1273.2	1416.9	1604.4	1704.2	1807.0	2005.1	2185.0	2309.0	2381.6
35°	1105.4	1143.2	1244.5	1400.2	1598.3	1702.7	1805.5	2002.1	2153.3	2238.0	2272.7
37.5°	1063.0	1103.9	1214.2	1377.6	1584.7	1692.1	1794.9	1971.8	2088.3	2133.6	2124.5
40°	1016.2	1061.5	1174.9	1348.8	1560.5	1664.9	1763.1	1918.9	1993.0	2000.5	1967.3
42.5°	969.3	1016.2	1135.6	1311.0	1519.7	1619.5	1710.2	1834.2	1869.0	1852.4	1800.9
45°	920.9	969.3	1088.7	1265.7	1468.3	1559.0	1634.6	1723.8	1723.8	1693.6	1639.1
47.5°	871.0	917.9	1038.8	1212.7	1401.7	1480.4	1542.4	1595.3	1571.1	1533.3	1478.9
50°	818.1	864.9	982.9	1149.2	1315.6	1380.6	1432.0	1451.6	1413.8	1371.5	1323.1
52.5°	762.1	809.0	916.4	1069.1	1214.2	1262.6	1300.4	1298.9	1253.6	1215.8	1173.4
55°	703.1	745.5	842.3	973.8	1093.3	1132.6	1155.3	1137.1	1094.8	1060.0	1037.3
57.5°	641.1	675.9	759.1	866.5	955.7	985.9	999.5	975.3	945.1	923.9	911.8
60°	571.6	600.3	659.3	742.5	807.5	828.6	837.7	821.1	810.5	804.5	801.4
62.5°	499.0	512.6	550.4	604.9	659.3	674.4	685.0	688.0	686.5	689.5	697.1
65°	418.9	423.4	435.5	462.7	505.1	523.2	542.9	564.0	576.1	588.2	594.3
67.5°	344.8	346.3	352.3	361.4	378.0	397.7	414.3	446.1	473.3	496.0	511.1
70°	291.8	290.3	291.8	296.4	305.5	313.0	320.6	343.3	372.0	409.8	412.8
72.5°	246.5	245.0	246.5	249.5	252.5	255.5	260.1	269.2	285.8	308.5	313.0
75°	202.6	202.6	202.6	205.6	208.7	210.2	213.2	216.2	222.3	238.9	249.5
77.5°	161.8	160.3	163.3	164.8	166.3	169.4	170.9	173.9	176.9	183.0	190.5
80°	122.5	121.0	122.5	125.5	127.0	130.0	130.0	134.6	136.1	140.6	143.7
82.5°	86.2	84.7	86.2	89.2	89.2	92.2	93.8	96.8	99.8	102.8	105.8
85°	51.4	51.4	52.9	54.4	55.9	59.0	60.5	65.0	68.0	71.1	72.6
87.5°	22.7	22.7	24.2	25.7	28.7	31.8	33.3	36.3	39.3	43.9	43.9
90°	0.0	1.5	4.5	7.6	9.1	12.1	12.1	16.6	18.1	21.2	22.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	4.5	6.0
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°	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1512.1	1503.1	1509.1	1510.6	1512.1	1509.1	1506.1	1509.1	1506.1	1506.1
5°	1572.6	1571.1	1586.2	1596.8	1601.3	1601.3	1610.4	1616.5	1618.0	1615.0
7.5°	1667.9	1677.0	1707.2	1728.4	1740.5	1746.5	1763.1	1772.2	1784.3	1782.8
10°	1793.4	1822.1	1867.5	1897.7	1918.9	1929.5	1953.7	1970.3	1990.0	1988.5
12.5°	1931.0	1983.9	2047.4	2095.8	2127.6	2147.2	2179.0	2209.2	2227.4	2228.9
15°	2086.7	2159.3	2245.5	2307.5	2348.3	2374.0	2417.9	2448.1	2478.4	2475.4
17.5°	2239.5	2327.2	2431.5	2513.2	2551.0	2575.2	2628.1	2659.8	2688.6	2688.6
20°	2375.6	2476.9	2582.7	2658.3	2694.6	2718.8	2764.2	2795.9	2817.1	2824.7
22.5°	2484.4	2578.2	2667.4	2732.4	2755.1	2774.8	2809.5	2835.2	2848.9	2860.9
25°	2544.9	2620.5	2681.0	2726.4	2738.5	2749.1	2768.7	2788.4	2791.4	2808.0
27.5°	2546.4	2602.4	2635.6	2652.3	2653.8	2653.8	2667.4	2675.0	2681.0	2687.1
30°	2492.0	2517.7	2523.7	2525.3	2517.7	2513.2	2522.2	2523.7	2528.3	2528.3
32.5°	2383.1	2389.2	2378.6	2361.9	2357.4	2348.3	2354.4	2351.4	2358.9	2363.5
35°	2244.0	2233.4	2206.2	2194.1	2177.5	2172.9	2177.5	2174.4	2179.0	2189.6
37.5°	2085.2	2062.5	2039.9	2018.7	2006.6	1994.5	1999.0	2003.6	2009.6	2012.6
40°	1921.9	1891.7	1867.5	1846.3	1834.2	1825.1	1832.7	1837.2	1850.8	1850.8
42.5°	1757.1	1723.8	1699.6	1686.0	1677.0	1669.4	1681.5	1684.5	1701.1	1704.2
45°	1593.8	1565.1	1545.4	1531.8	1524.2	1527.3	1539.3	1546.9	1562.0	1569.6
47.5°	1444.1	1419.9	1398.7	1392.7	1392.7	1395.7	1407.8	1415.4	1427.5	1436.5
50°	1297.4	1279.3	1265.7	1258.1	1259.6	1264.1	1274.7	1280.8	1292.9	1292.9
52.5°	1153.8	1141.7	1135.6	1126.5	1126.5	1125.0	1135.6	1141.7	1150.7	1152.2
55°	1028.2	1017.7	1011.6	1005.6	1004.1	1007.1	1013.1	1017.7	1028.2	1029.8
57.5°	908.8	904.3	899.7	895.2	893.7	895.2	898.2	901.2	907.3	908.8
60°	799.9	798.4	792.4	787.8	786.3	784.8	783.3	781.8	784.8	783.3
62.5°	700.1	695.6	691.0	682.0	677.4	665.3	650.2	616.9	589.7	574.6
65°	601.8	598.8	577.6	515.6	477.8	429.4	378.0	328.1	311.5	300.9
67.5°	506.6	456.7	381.1	326.6	307.0	288.8	261.6	234.4	219.3	210.2
70°	364.4	322.1	287.3	257.1	243.5	232.9	211.7	192.0	178.4	172.4
72.5°	294.9	267.6	245.0	222.3	211.7	199.6	178.4	158.8	146.7	140.6
75°	246.5	229.8	207.2	186.0	176.9	167.8	152.7	137.6	127.0	122.5
77.5°	195.1	186.0	172.4	155.7	148.2	142.1	128.5	117.9	107.4	102.8
80°	143.7	140.6	131.6	119.5	113.4	108.9	98.3	89.2	80.1	77.1
82.5°	105.8	102.8	95.3	86.2	83.2	78.6	71.1	63.5	57.5	54.4
85°	72.6	71.1	65.0	59.0	55.9	52.9	45.4	39.3	34.8	31.8
87.5°	45.4	43.9	40.8	34.8	31.8	28.7	22.7	18.1	13.6	12.1
90°	22.7	22.7	21.2	16.6	15.1	13.6	9.1	4.5	1.5	0.0
92.5°	6.0	6.0	6.0	4.5	4.5	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: P256863

CATALOG NUMBER: HGL-S-BA-60L835-UNV-4

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)