

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: P256888

Luminaire Tested: **HGL-S-BA-30L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256888
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-30L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6049.4 lumens
Efficiency: N/A
Efficacy: 135.6 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

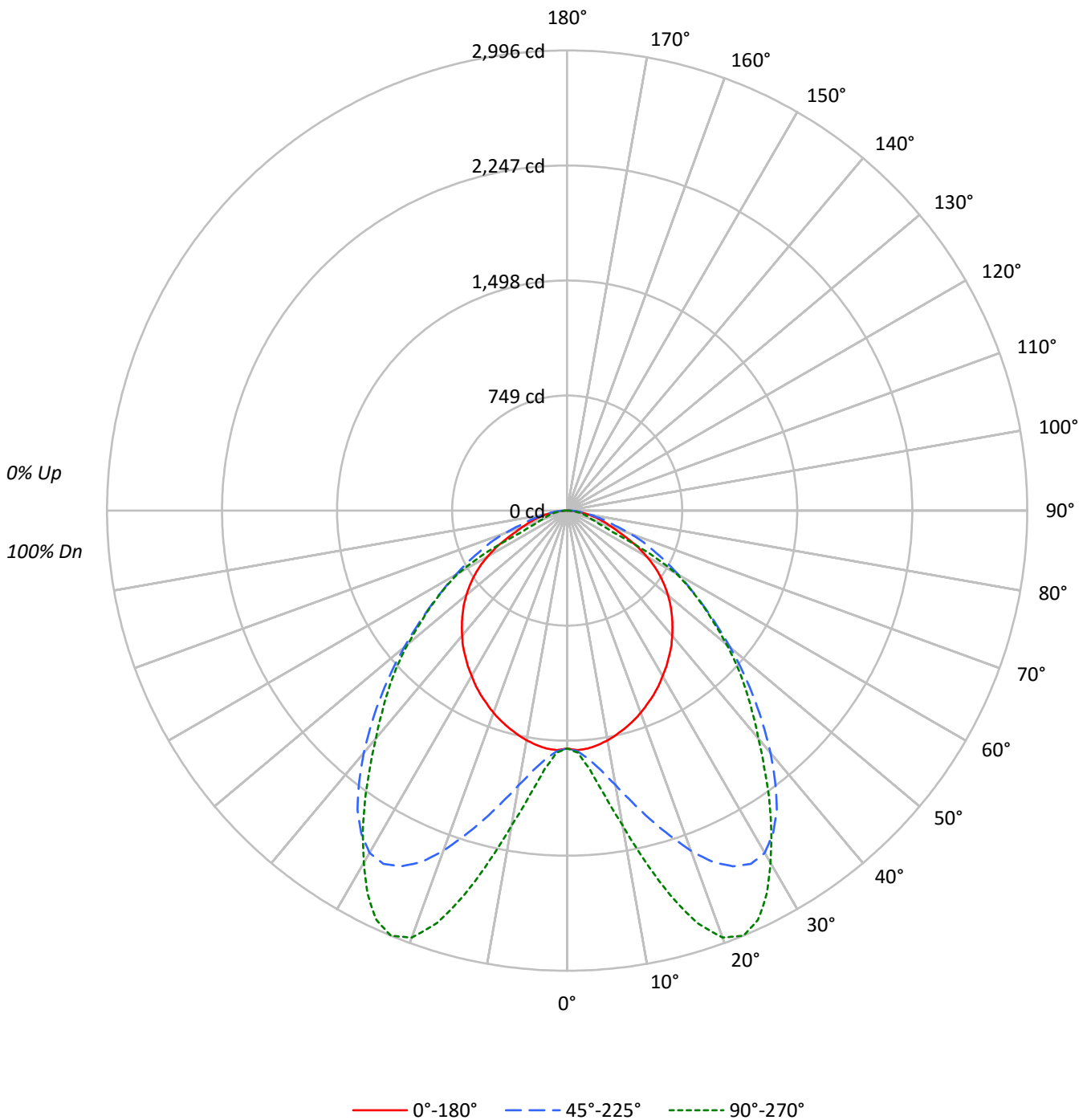
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9093	9093	9093
5°	9164	9539	9929
10°	9052	10759	12319
15°	8900	12522	15574
20°	8752	14554	18193
25°	8592	16315	18670
30°	8422	17131	17508
35°	8289	16688	15947
40°	8147	15380	14330
45°	7998	13814	13077
50°	7813	12195	11755
55°	7523	10637	10391
60°	7014	9342	8955
65°	6077	8094	4003
70°	5228	6826	2767
75°	4791	5300	2503
80°	4307	4309	2190
85°	3573	3757	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	2.7
10°-20°	585.6	9.7
20°-30°	1059.9	17.5
30°-40°	1272.0	21.0
40°-50°	1205.0	19.9
50°-60°	944.2	15.6
60°-70°	526.9	8.7
70°-80°	223.3	3.7
80°-90°	69.5	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°	1806.0	29.9
0°-40°	3078.0	50.9
0°-60°	5227.2	86.4
0°-90°	6046.9	100.0
90°-120°	2.5	0.0
90°-150°	2.5	0.0
90°-180°	3.0	0.0
0°-180°	6049.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1555	1561	1623	1677	1691	147
15°	1465	1640	2078	2459	2592	413
25°	1327	1743	2556	2868	2941	611
35°	1158	1783	2380	2280	2293	724
45°	964	1633	1716	1596	1644	744
55°	736	1186	1086	1051	1078	656
65°	439	548	622	500	315	438
75°	212	220	261	185	128	226
85°	54	62	76	59	33	60
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



TEST NUMBER: P256888

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1561.3	1559.8	1555.0	1548.7	1550.3	1551.8	1551.8	1553.4	1555.0	1559.8	1569.3
5°	1555.0	1551.8	1550.3	1548.7	1556.6	1561.3	1566.1	1575.6	1586.7	1604.1	1623.1
7.5°	1539.2	1539.2	1542.3	1548.7	1566.1	1577.2	1586.7	1610.4	1637.3	1670.6	1707.0
10°	1518.6	1521.7	1531.3	1545.5	1577.2	1594.6	1613.6	1653.2	1699.1	1754.5	1814.7
12.5°	1493.2	1499.6	1515.4	1542.3	1589.8	1616.8	1645.3	1705.4	1773.5	1852.7	1941.4
15°	1464.7	1472.7	1498.0	1537.6	1602.5	1640.5	1680.1	1762.4	1855.9	1962.0	2077.6
17.5°	1434.7	1445.7	1480.6	1536.0	1619.9	1667.4	1718.1	1825.8	1946.1	2074.4	2216.9
20°	1401.4	1417.2	1461.6	1532.8	1635.8	1694.4	1756.1	1890.7	2038.0	2190.0	2356.3
22.5°	1363.4	1384.0	1439.4	1526.5	1651.6	1721.3	1794.1	1950.9	2121.9	2294.5	2475.0
25°	1327.0	1349.1	1414.1	1518.6	1664.3	1743.4	1827.4	2006.3	2197.9	2380.0	2555.8
27.5°	1287.4	1312.7	1390.3	1510.7	1673.8	1762.4	1855.9	2052.2	2253.3	2433.8	2592.2
30°	1243.1	1276.3	1363.4	1498.0	1678.5	1776.7	1878.0	2088.6	2288.2	2446.5	2573.2
32.5°	1201.9	1238.3	1333.3	1483.7	1680.1	1784.6	1892.3	2099.7	2288.2	2418.0	2494.0
35°	1157.5	1197.1	1303.2	1466.3	1673.8	1783.0	1890.7	2096.6	2254.9	2343.6	2380.0
37.5°	1113.2	1156.0	1271.6	1442.6	1659.5	1771.9	1879.6	2064.9	2186.8	2234.3	2224.8
40°	1064.1	1111.6	1230.4	1412.5	1634.2	1743.4	1846.4	2009.5	2087.1	2095.0	2060.1
42.5°	1015.0	1064.1	1189.2	1372.9	1591.4	1695.9	1790.9	1920.8	1957.2	1939.8	1886.0
45°	964.4	1015.0	1140.1	1325.4	1537.6	1632.6	1711.8	1805.2	1805.2	1773.5	1716.5
47.5°	912.1	961.2	1087.9	1270.0	1467.9	1550.3	1615.2	1670.6	1645.3	1605.7	1548.7
50°	856.7	905.8	1029.3	1203.5	1377.7	1445.7	1499.6	1520.2	1480.6	1436.2	1385.6
52.5°	798.1	847.2	959.6	1119.5	1271.6	1322.2	1361.8	1360.2	1312.7	1273.1	1228.8
55°	736.3	780.7	882.0	1019.8	1144.9	1186.0	1209.8	1190.8	1146.5	1110.0	1086.3
57.5°	671.4	707.8	794.9	907.3	1000.8	1032.4	1046.7	1021.4	989.7	967.5	954.9
60°	598.6	628.7	690.4	777.5	845.6	867.8	877.3	859.8	848.8	842.4	839.3
62.5°	522.6	536.8	576.4	633.4	690.4	706.2	717.3	720.5	718.9	722.1	730.0
65°	438.6	443.4	456.0	484.6	528.9	547.9	568.5	590.6	603.3	616.0	622.3
67.5°	361.0	362.6	369.0	378.5	395.9	416.5	433.9	467.1	495.6	519.4	535.2
70°	305.6	304.0	305.6	310.4	319.9	327.8	335.7	359.5	389.5	429.1	432.3
72.5°	258.1	256.5	258.1	261.3	264.4	267.6	272.4	281.9	299.3	323.0	327.8
75°	212.2	212.2	212.2	215.4	218.5	220.1	223.3	226.4	232.8	250.2	261.3
77.5°	169.4	167.9	171.0	172.6	174.2	177.4	178.9	182.1	185.3	191.6	199.5
80°	128.3	126.7	128.3	131.4	133.0	136.2	136.2	140.9	142.5	147.3	150.4
82.5°	90.3	88.7	90.3	93.4	93.4	96.6	98.2	101.3	104.5	107.7	110.8
85°	53.8	53.8	55.4	57.0	58.6	61.8	63.3	68.1	71.3	74.4	76.0
87.5°	23.8	23.8	25.3	26.9	30.1	33.3	34.8	38.0	41.2	45.9	45.9
90°	0.0	1.6	4.8	7.9	9.5	12.7	12.7	17.4	19.0	22.2	23.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	6.3
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°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1583.5	1574.0	1580.3	1581.9	1583.5	1580.3	1577.2	1580.3	1577.2	1577.2
5°	1646.8	1645.3	1661.1	1672.2	1676.9	1676.9	1686.4	1692.8	1694.4	1691.2
7.5°	1746.6	1756.1	1787.8	1809.9	1822.6	1828.9	1846.4	1855.9	1868.5	1867.0
10°	1878.0	1908.1	1955.6	1987.3	2009.5	2020.6	2045.9	2063.3	2083.9	2082.3
12.5°	2022.1	2077.6	2144.1	2194.7	2228.0	2248.6	2281.8	2313.5	2332.5	2334.1
15°	2185.2	2261.2	2351.5	2416.4	2459.2	2486.1	2532.0	2563.7	2595.4	2592.2
17.5°	2345.2	2437.0	2546.3	2631.8	2671.4	2696.7	2752.1	2785.4	2815.5	2815.5
20°	2487.7	2593.8	2704.6	2783.8	2821.8	2847.1	2894.6	2927.9	2950.1	2958.0
22.5°	2601.7	2699.9	2793.3	2861.4	2885.1	2905.7	2942.2	2969.1	2983.3	2996.0
25°	2665.0	2744.2	2807.6	2855.1	2867.7	2878.8	2899.4	2920.0	2923.2	2940.6
27.5°	2666.6	2725.2	2760.1	2777.5	2779.1	2779.1	2793.3	2801.2	2807.6	2813.9
30°	2609.6	2636.5	2642.9	2644.5	2636.5	2631.8	2641.3	2642.9	2647.6	2647.6
32.5°	2495.6	2501.9	2490.9	2473.4	2468.7	2459.2	2465.5	2462.4	2470.3	2475.0
35°	2349.9	2338.8	2310.3	2297.7	2280.2	2275.5	2280.2	2277.1	2281.8	2292.9
37.5°	2183.7	2159.9	2136.1	2114.0	2101.3	2088.6	2093.4	2098.1	2104.5	2107.6
40°	2012.6	1981.0	1955.6	1933.5	1920.8	1911.3	1919.2	1924.0	1938.2	1938.2
42.5°	1840.0	1805.2	1779.9	1765.6	1756.1	1748.2	1760.9	1764.0	1781.4	1784.6
45°	1669.0	1638.9	1618.3	1604.1	1596.2	1599.3	1612.0	1619.9	1635.8	1643.7
47.5°	1512.2	1486.9	1464.7	1458.4	1458.4	1461.6	1474.2	1482.2	1494.8	1504.3
50°	1358.6	1339.6	1325.4	1317.5	1319.1	1323.8	1334.9	1341.2	1353.9	1353.9
52.5°	1208.2	1195.5	1189.2	1179.7	1179.7	1178.1	1189.2	1195.5	1205.0	1206.6
55°	1076.8	1065.7	1059.4	1053.0	1051.4	1054.6	1060.9	1065.7	1076.8	1078.4
57.5°	951.7	946.9	942.2	937.4	935.9	937.4	940.6	943.8	950.1	951.7
60°	837.7	836.1	829.8	825.0	823.4	821.8	820.3	818.7	821.8	820.3
62.5°	733.2	728.4	723.7	714.2	709.4	696.7	680.9	646.1	617.6	601.7
65°	630.2	627.1	604.9	540.0	500.4	449.7	395.9	343.6	326.2	315.1
67.5°	530.5	478.2	399.0	342.0	321.5	302.4	273.9	245.4	229.6	220.1
70°	381.6	337.3	300.9	269.2	254.9	243.9	221.7	201.1	186.9	180.5
72.5°	308.8	280.3	256.5	232.8	221.7	209.0	186.9	166.3	153.6	147.3
75°	258.1	240.7	216.9	194.8	185.3	175.8	159.9	144.1	133.0	128.3
77.5°	204.3	194.8	180.5	163.1	155.2	148.8	134.6	123.5	112.4	107.7
80°	150.4	147.3	137.8	125.1	118.8	114.0	102.9	93.4	83.9	80.8
82.5°	110.8	107.7	99.8	90.3	87.1	82.3	74.4	66.5	60.2	57.0
85°	76.0	74.4	68.1	61.8	58.6	55.4	47.5	41.2	36.4	33.3
87.5°	47.5	45.9	42.8	36.4	33.3	30.1	23.8	19.0	14.3	12.7
90°	23.8	23.8	22.2	17.4	15.8	14.3	9.5	4.8	1.6	0.0
92.5°	6.3	6.3	6.3	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: P256888

CATALOG NUMBER: HGL-S-BA-30L835-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)