

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: P256908

Luminaire Tested: **HGL-S-BA-30L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256908
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

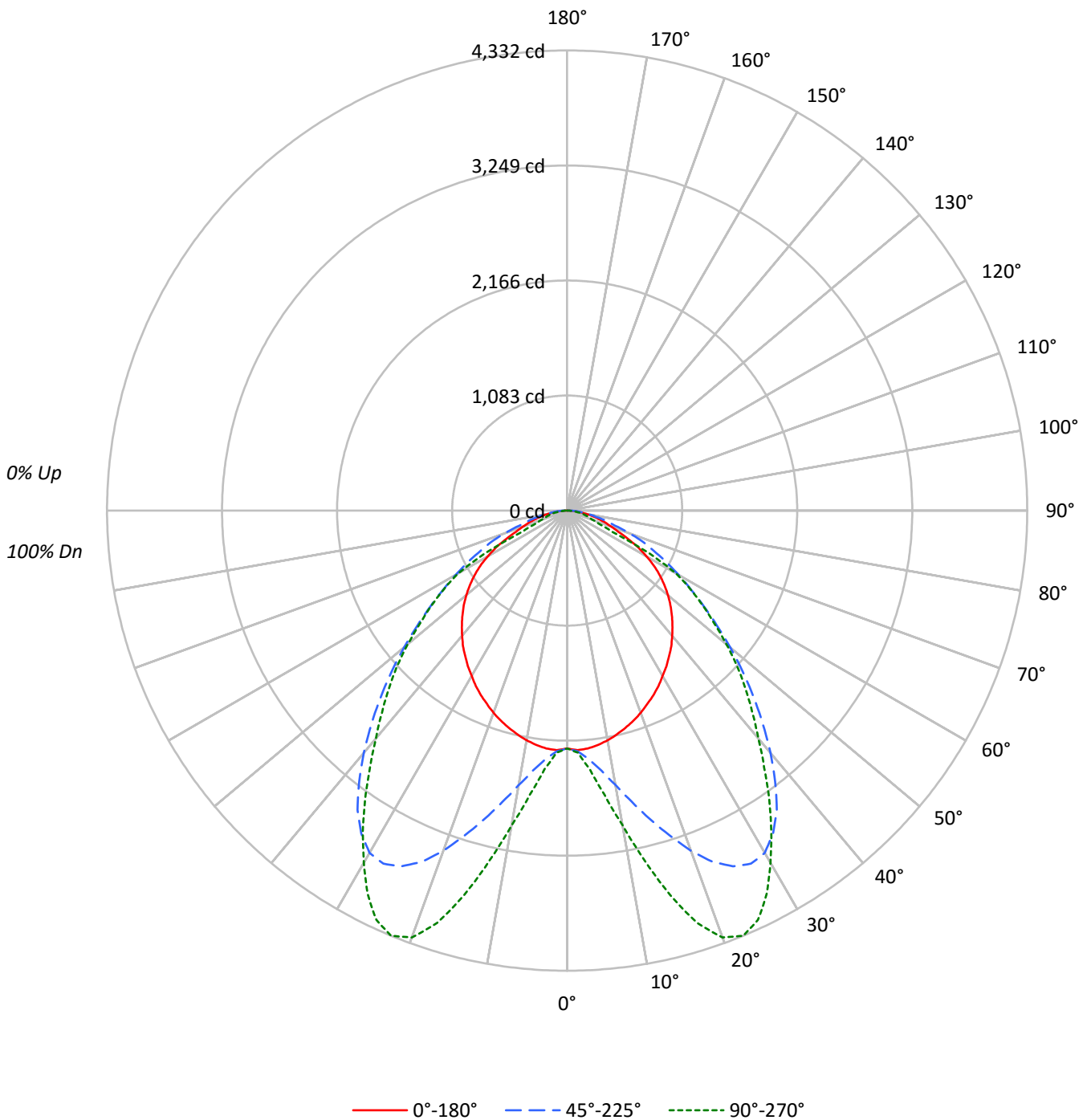
Lumens per Lamp: N/A
Luminaire Lumens: 8746.6 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 65.1
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	9196	9571
10°	8726	10371	11875
15°	8580	12071	15012
20°	8437	14030	17536
25°	8283	15729	17996
30°	8119	16516	16877
35°	7993	16089	15372
40°	7856	14829	13813
45°	7712	13320	12605
50°	7535	11759	11331
55°	7256	10257	10016
60°	6765	9009	8632
65°	5863	7807	3859
70°	5046	6584	2667
75°	4625	5113	2412
80°	4162	4161	2110
85°	3461	3631	1441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	2.7
10°-20°	846.7	9.7
20°-30°	1532.5	17.5
30°-40°	1839.2	21.0
40°-50°	1742.3	19.9
50°-60°	1365.1	15.6
60°-70°	761.9	8.7
70°-80°	322.9	3.7
80°-90°	100.4	1.1
90°-100°	3.6	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°	2611.3	29.9
0°-40°	4450.4	50.9
0°-60°	7557.8	86.4
0°-90°	8743.0	100.0
90°-120°	3.6	0.0
90°-150°	3.6	0.0
90°-180°	4.0	0.0
0°-180°	8746.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2248	2258	2347	2425	2445	213
15°	2118	2372	3004	3556	3748	597
25°	1919	2521	3695	4146	4252	884
35°	1674	2578	3441	3297	3315	1047
45°	1394	2360	2482	2308	2376	1075
55°	1065	1715	1571	1520	1559	948
65°	634	792	900	724	456	634
75°	307	318	378	268	186	327
85°	78	89	110	85	48	87
90°	0	18	34	23	0	5
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°	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2257.5	2255.2	2248.3	2239.2	2241.5	2243.8	2243.8	2246.0	2248.3	2255.2	2268.9
5°	2248.3	2243.8	2241.5	2239.2	2250.6	2257.5	2264.4	2278.1	2294.1	2319.3	2346.8
7.5°	2225.4	2225.4	2230.0	2239.2	2264.4	2280.4	2294.1	2328.5	2367.4	2415.5	2468.1
10°	2195.7	2200.3	2214.0	2234.6	2280.4	2305.6	2333.0	2390.3	2456.7	2536.8	2623.8
12.5°	2159.0	2168.2	2191.1	2230.0	2298.7	2337.6	2378.8	2465.8	2564.3	2678.8	2807.0
15°	2117.8	2129.3	2165.9	2223.1	2317.0	2372.0	2429.2	2548.3	2683.3	2836.7	3003.9
17.5°	2074.3	2090.4	2140.7	2220.9	2342.2	2410.9	2484.2	2639.8	2813.9	2999.3	3205.4
20°	2026.2	2049.1	2113.3	2216.3	2365.1	2449.8	2539.1	2733.7	2946.6	3166.4	3406.8
22.5°	1971.3	2001.1	2081.2	2207.1	2388.0	2488.7	2594.1	2820.7	3068.0	3317.6	3578.6
25°	1918.6	1950.7	2044.6	2195.7	2406.3	2520.8	2642.1	2900.9	3177.9	3441.2	3695.3
27.5°	1861.4	1898.0	2010.2	2184.2	2420.0	2548.3	2683.3	2967.3	3258.0	3519.0	3748.0
30°	1797.3	1845.4	1971.3	2165.9	2426.9	2568.9	2715.4	3019.9	3308.4	3537.3	3720.5
32.5°	1737.8	1790.4	1927.8	2145.3	2429.2	2580.3	2736.0	3035.9	3308.4	3496.1	3606.0
35°	1673.7	1730.9	1884.3	2120.1	2420.0	2578.0	2733.7	3031.4	3260.3	3388.5	3441.2
37.5°	1609.6	1671.4	1838.5	2085.8	2399.4	2562.0	2717.7	2985.6	3161.9	3230.5	3216.8
40°	1538.6	1607.3	1779.0	2042.3	2362.8	2520.8	2669.6	2905.4	3017.6	3029.1	2978.7
42.5°	1467.6	1538.6	1719.4	1985.0	2301.0	2452.1	2589.5	2777.2	2829.9	2804.7	2726.8
45°	1394.3	1467.6	1648.5	1916.3	2223.1	2360.5	2475.0	2610.1	2610.1	2564.3	2481.9
47.5°	1318.8	1389.8	1572.9	1836.2	2122.4	2241.5	2335.3	2415.5	2378.8	2321.6	2239.2
50°	1238.6	1309.6	1488.2	1740.1	1991.9	2090.4	2168.2	2198.0	2140.7	2076.6	2003.4
52.5°	1153.9	1224.9	1387.5	1618.7	1838.5	1911.8	1969.0	1966.7	1898.0	1840.8	1776.7
55°	1064.6	1128.7	1275.3	1474.5	1655.3	1714.9	1749.2	1721.7	1657.6	1605.0	1570.6
57.5°	970.8	1023.4	1149.4	1311.9	1447.0	1492.8	1513.4	1476.8	1431.0	1398.9	1380.6
60°	865.4	908.9	998.2	1124.2	1222.6	1254.7	1268.4	1243.2	1227.2	1218.0	1213.5
62.5°	755.6	776.2	833.4	915.8	998.2	1021.1	1037.2	1041.7	1039.5	1044.0	1055.5
65°	634.2	641.1	659.4	700.6	764.7	792.2	821.9	854.0	872.3	890.6	899.8
67.5°	522.0	524.3	533.5	547.2	572.4	602.2	627.3	675.4	716.6	751.0	773.9
70°	441.9	439.6	441.9	448.8	462.5	473.9	485.4	519.7	563.2	620.5	625.0
72.5°	373.2	370.9	373.2	377.8	382.4	386.9	393.8	407.5	432.7	467.1	473.9
75°	306.8	306.8	306.8	311.4	316.0	318.2	322.8	327.4	336.6	361.7	377.8
77.5°	245.0	242.7	247.3	249.6	251.9	256.4	258.7	263.3	267.9	277.0	288.5
80°	185.5	183.2	185.5	190.0	192.3	196.9	196.9	203.8	206.1	212.9	217.5
82.5°	130.5	128.2	130.5	135.1	135.1	139.7	142.0	146.5	151.1	155.7	160.3
85°	77.8	77.8	80.1	82.4	84.7	89.3	91.6	98.5	103.0	107.6	109.9
87.5°	34.3	34.3	36.6	38.9	43.5	48.1	50.4	54.9	59.5	66.4	66.4
90°	0.0	2.3	6.9	11.4	13.7	18.3	18.3	25.2	27.5	32.1	34.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	4.6	6.9	9.2
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°	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2289.5	2275.8	2285.0	2287.3	2289.5	2285.0	2280.4	2285.0	2280.4	2280.4
5°	2381.1	2378.8	2401.7	2417.8	2424.6	2424.6	2438.4	2447.5	2449.8	2445.2
7.5°	2525.4	2539.1	2584.9	2617.0	2635.3	2644.4	2669.6	2683.3	2701.7	2699.4
10°	2715.4	2758.9	2827.6	2873.4	2905.4	2921.5	2958.1	2983.3	3013.0	3010.8
12.5°	2923.7	3003.9	3100.0	3173.3	3221.4	3251.2	3299.2	3345.0	3372.5	3374.8
15°	3159.6	3269.5	3400.0	3493.8	3555.7	3594.6	3661.0	3706.8	3752.6	3748.0
17.5°	3390.8	3523.6	3681.6	3805.2	3862.5	3899.1	3979.2	4027.3	4070.8	4070.8
20°	3596.9	3750.3	3910.5	4025.0	4080.0	4116.6	4185.3	4233.4	4265.4	4276.9
22.5°	3761.7	3903.7	4038.8	4137.2	4171.6	4201.3	4254.0	4292.9	4313.5	4331.8
25°	3853.3	3967.8	4059.4	4128.1	4146.4	4162.4	4192.2	4221.9	4226.5	4251.7
27.5°	3855.6	3940.3	3990.7	4015.9	4018.2	4018.2	4038.8	4050.2	4059.4	4068.5
30°	3773.2	3812.1	3821.3	3823.5	3812.1	3805.2	3819.0	3821.3	3828.1	3828.1
32.5°	3608.3	3617.5	3601.5	3576.3	3569.4	3555.7	3564.8	3560.2	3571.7	3578.6
35°	3397.7	3381.7	3340.4	3322.1	3296.9	3290.1	3296.9	3292.4	3299.2	3315.3
37.5°	3157.3	3122.9	3088.6	3056.5	3038.2	3019.9	3026.8	3033.6	3042.8	3047.4
40°	2910.0	2864.2	2827.6	2795.5	2777.2	2763.5	2774.9	2781.8	2802.4	2802.4
42.5°	2660.5	2610.1	2573.4	2552.8	2539.1	2527.7	2546.0	2550.6	2575.7	2580.3
45°	2413.2	2369.7	2339.9	2319.3	2307.9	2312.4	2330.8	2342.2	2365.1	2376.5
47.5°	2186.5	2149.9	2117.8	2108.7	2108.7	2113.3	2131.6	2143.0	2161.3	2175.1
50°	1964.4	1937.0	1916.3	1904.9	1907.2	1914.1	1930.1	1939.2	1957.6	1957.6
52.5°	1746.9	1728.6	1719.4	1705.7	1705.7	1703.4	1719.4	1728.6	1742.3	1744.6
55°	1556.9	1540.9	1531.7	1522.5	1520.3	1524.8	1534.0	1540.9	1556.9	1559.2
57.5°	1376.0	1369.1	1362.3	1355.4	1353.1	1355.4	1360.0	1364.6	1373.7	1376.0
60°	1211.2	1208.9	1199.7	1192.9	1190.6	1188.3	1186.0	1183.7	1188.3	1186.0
62.5°	1060.1	1053.2	1046.3	1032.6	1025.7	1007.4	984.5	934.1	892.9	870.0
65°	911.2	906.7	874.6	780.7	723.5	650.2	572.4	496.8	471.6	455.6
67.5°	767.0	691.4	577.0	494.5	464.8	437.3	396.1	354.9	332.0	318.2
70°	551.8	487.7	435.0	389.2	368.6	352.6	320.5	290.8	270.2	261.0
72.5°	446.5	405.2	370.9	336.6	320.5	302.2	270.2	240.4	222.1	212.9
75°	373.2	348.0	313.7	281.6	267.9	254.1	231.2	208.3	192.3	185.5
77.5°	295.4	281.6	261.0	235.8	224.4	215.2	194.6	178.6	162.6	155.7
80°	217.5	212.9	199.2	180.9	171.7	164.8	148.8	135.1	121.3	116.8
82.5°	160.3	155.7	144.2	130.5	125.9	119.1	107.6	96.2	87.0	82.4
85°	109.9	107.6	98.5	89.3	84.7	80.1	68.7	59.5	52.7	48.1
87.5°	68.7	66.4	61.8	52.7	48.1	43.5	34.3	27.5	20.6	18.3
90°	34.3	34.3	32.1	25.2	22.9	20.6	13.7	6.9	2.3	0.0
92.5°	9.2	9.2	9.2	6.9	6.9	4.6	2.3	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: P256908

CATALOG NUMBER: HGL-S-BA-30L830-UNV-12

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)