

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: P256928

Luminaire Tested: **HGL-S-BA-30L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256928
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-30L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

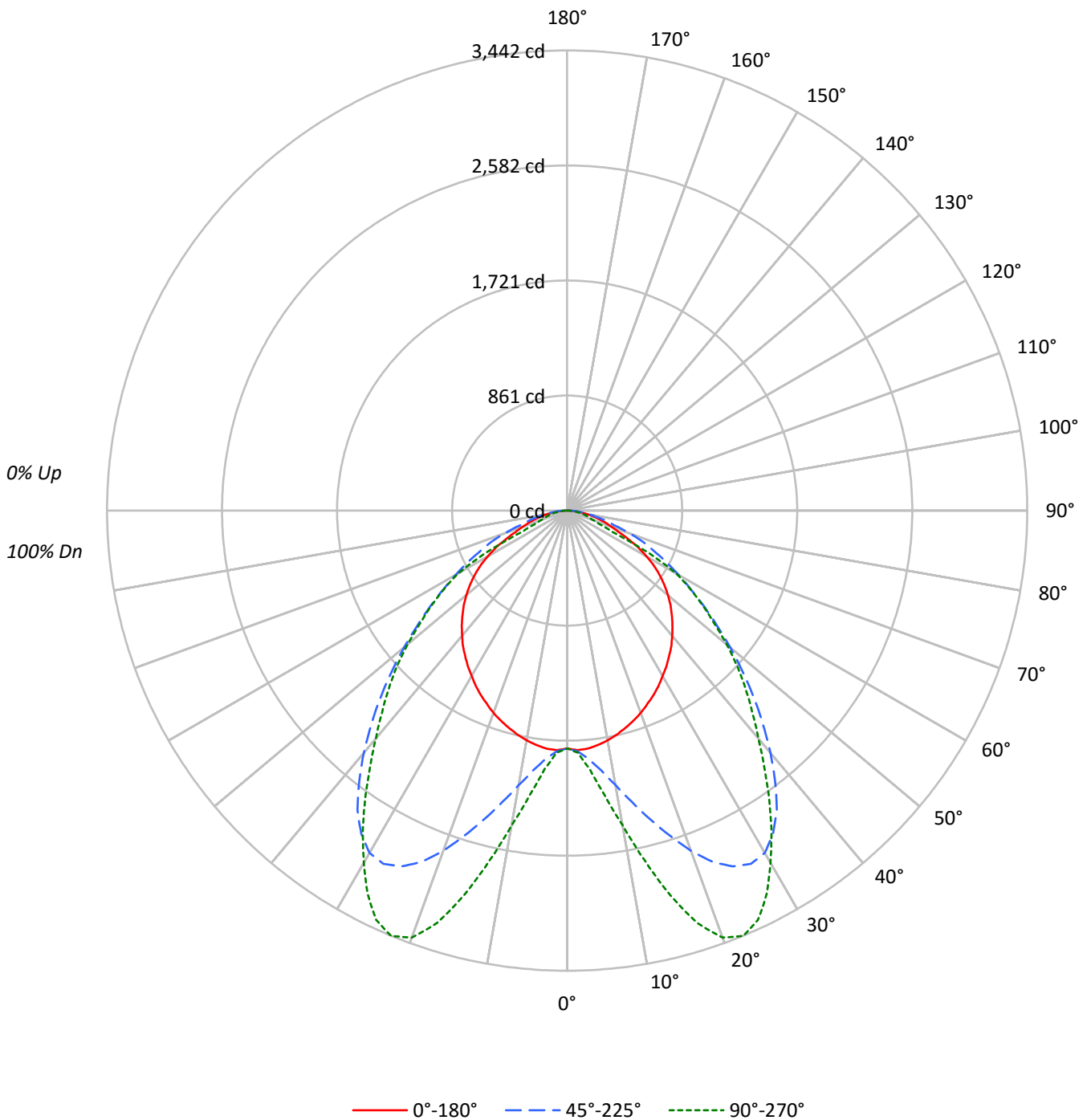
Lumens per Lamp: N/A
Luminaire Lumens: 6950.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

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°	6965	6965	6965
5°	7020	7308	7606
10°	6934	8242	9437
15°	6818	9593	11930
20°	6705	11150	13936
25°	6582	12500	14301
30°	6452	13125	13412
35°	6351	12786	12216
40°	6243	11784	10978
45°	6129	10585	10017
50°	5988	9345	9005
55°	5767	8152	7960
60°	5377	7159	6860
65°	4660	6205	3067
70°	4010	5232	2119
75°	3676	4063	1917
80°	3307	3307	1677
85°	2754	2884	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	2.7
10°-20°	672.9	9.7
20°-30°	1217.9	17.5
30°-40°	1461.6	21.0
40°-50°	1384.6	19.9
50°-60°	1084.9	15.6
60°-70°	605.5	8.7
70°-80°	256.6	3.7
80°-90°	79.8	1.1
90°-100°	2.9	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°	2075.2	29.9
0°-40°	3536.7	50.9
0°-60°	6006.2	86.4
0°-90°	6948.1	100.0
90°-120°	2.9	0.0
90°-150°	2.9	0.0
90°-180°	3.0	0.0
0°-180°	6950.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1787	1794	1865	1927	1943	169
15°	1683	1885	2387	2826	2978	475
25°	1525	2003	2937	3295	3379	702
35°	1330	2049	2735	2620	2635	832
45°	1108	1876	1972	1834	1889	854
55°	846	1363	1248	1208	1239	753
65°	504	630	715	575	362	504
75°	244	253	300	213	147	260
85°	62	71	87	67	38	69
90°	0	15	27	18	0	4
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°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	1794.0	1792.2	1786.7	1779.5	1781.3	1783.1	1783.1	1784.9	1786.7	1792.2	1803.1
5°	1786.7	1783.1	1781.3	1779.5	1788.6	1794.0	1799.5	1810.4	1823.1	1843.1	1865.0
7.5°	1768.5	1768.5	1772.2	1779.5	1799.5	1812.2	1823.1	1850.4	1881.4	1919.6	1961.4
10°	1744.9	1748.5	1759.5	1775.8	1812.2	1832.2	1854.1	1899.6	1952.3	2016.0	2085.1
12.5°	1715.8	1723.1	1741.3	1772.2	1826.8	1857.7	1890.5	1959.6	2037.8	2128.8	2230.7
15°	1683.0	1692.1	1721.2	1766.7	1841.3	1885.0	1930.5	2025.1	2132.4	2254.4	2387.2
17.5°	1648.5	1661.2	1701.2	1764.9	1861.3	1915.9	1974.2	2097.9	2236.2	2383.5	2547.3
20°	1610.3	1628.4	1679.4	1761.3	1879.5	1946.9	2017.8	2172.5	2341.7	2516.4	2707.4
22.5°	1566.6	1590.2	1653.9	1754.0	1897.7	1977.8	2061.5	2241.6	2438.1	2636.4	2843.9
25°	1524.7	1550.2	1624.8	1744.9	1912.3	2003.3	2099.7	2305.3	2525.5	2734.7	2936.7
27.5°	1479.2	1508.4	1597.5	1735.8	1923.2	2025.1	2132.4	2358.1	2589.1	2796.6	2978.5
30°	1428.3	1466.5	1566.6	1721.2	1928.7	2041.5	2157.9	2399.9	2629.2	2811.1	2956.7
32.5°	1381.0	1422.8	1532.0	1704.9	1930.5	2050.6	2174.3	2412.6	2629.2	2778.4	2865.7
35°	1330.0	1375.5	1497.4	1684.9	1923.2	2048.7	2172.5	2409.0	2591.0	2692.9	2734.7
37.5°	1279.1	1328.2	1461.1	1657.6	1906.8	2036.0	2159.7	2372.6	2512.7	2567.3	2556.4
40°	1222.7	1277.3	1413.7	1623.0	1877.7	2003.3	2121.5	2308.9	2398.1	2407.2	2367.2
42.5°	1166.3	1222.7	1366.4	1577.5	1828.6	1948.7	2057.8	2207.0	2248.9	2228.9	2167.0
45°	1108.1	1166.3	1310.0	1522.9	1766.7	1875.9	1966.9	2074.2	2074.2	2037.8	1972.3
47.5°	1048.0	1104.4	1250.0	1459.2	1686.7	1781.3	1855.9	1919.6	1890.5	1845.0	1779.5
50°	984.3	1040.8	1182.7	1382.8	1583.0	1661.2	1723.1	1746.7	1701.2	1650.3	1592.1
52.5°	917.0	973.4	1102.6	1286.4	1461.1	1519.3	1564.8	1562.9	1508.4	1462.9	1411.9
55°	846.1	897.0	1013.5	1171.8	1315.5	1362.8	1390.1	1368.3	1317.3	1275.5	1248.2
57.5°	771.5	813.3	913.4	1042.6	1149.9	1186.3	1202.7	1173.6	1137.2	1111.7	1097.2
60°	687.8	722.3	793.3	893.4	971.6	997.1	1008.0	988.0	975.2	968.0	964.3
62.5°	600.4	616.8	662.3	727.8	793.3	811.5	824.2	827.9	826.1	829.7	838.8
65°	504.0	509.5	524.0	556.8	607.7	629.5	653.2	678.7	693.2	707.8	715.1
67.5°	414.8	416.7	423.9	434.9	454.9	478.5	498.5	536.8	569.5	596.8	615.0
70°	351.2	349.3	351.2	356.6	367.5	376.6	385.7	413.0	447.6	493.1	496.7
72.5°	296.6	294.8	296.6	300.2	303.9	307.5	313.0	323.9	343.9	371.2	376.6
75°	243.8	243.8	243.8	247.5	251.1	252.9	256.5	260.2	267.5	287.5	300.2
77.5°	194.7	192.9	196.5	198.3	200.1	203.8	205.6	209.2	212.9	220.2	229.3
80°	147.4	145.6	147.4	151.0	152.8	156.5	156.5	161.9	163.8	169.2	172.9
82.5°	103.7	101.9	103.7	107.4	107.4	111.0	112.8	116.4	120.1	123.7	127.4
85°	61.9	61.9	63.7	65.5	67.3	71.0	72.8	78.2	81.9	85.5	87.3
87.5°	27.3	27.3	29.1	30.9	34.6	38.2	40.0	43.7	47.3	52.8	52.8
90°	0.0	1.8	5.5	9.1	10.9	14.6	14.6	20.0	21.8	25.5	27.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	5.5	7.3
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°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	1819.5	1808.6	1815.9	1817.7	1819.5	1815.9	1812.2	1815.9	1812.2	1812.2
5°	1892.3	1890.5	1908.6	1921.4	1926.8	1926.8	1937.8	1945.0	1946.9	1943.2
7.5°	2006.9	2017.8	2054.2	2079.7	2094.2	2101.5	2121.5	2132.4	2147.0	2145.2
10°	2157.9	2192.5	2247.1	2283.5	2308.9	2321.7	2350.8	2370.8	2394.5	2392.6
12.5°	2323.5	2387.2	2463.6	2521.8	2560.0	2583.7	2621.9	2658.3	2680.1	2681.9
15°	2510.9	2598.2	2701.9	2776.5	2825.7	2856.6	2909.4	2945.8	2982.1	2978.5
17.5°	2694.7	2800.2	2925.7	3024.0	3069.5	3098.6	3162.3	3200.5	3235.1	3235.1
20°	2858.4	2980.3	3107.7	3198.7	3242.3	3271.4	3326.0	3364.2	3389.7	3398.8
22.5°	2989.4	3102.2	3209.6	3287.8	3315.1	3338.8	3380.6	3411.6	3427.9	3442.5
25°	3062.2	3153.2	3226.0	3280.5	3295.1	3307.8	3331.5	3355.1	3358.8	3378.8
27.5°	3064.0	3131.3	3171.4	3191.4	3193.2	3193.2	3209.6	3218.7	3226.0	3233.2
30°	2998.5	3029.5	3036.7	3038.6	3029.5	3024.0	3034.9	3036.7	3042.2	3042.2
32.5°	2867.5	2874.8	2862.1	2842.0	2836.6	2825.7	2833.0	2829.3	2838.4	2843.9
35°	2700.1	2687.4	2654.6	2640.1	2620.1	2614.6	2620.1	2616.4	2621.9	2634.6
37.5°	2509.1	2481.8	2454.5	2429.0	2414.5	2399.9	2405.4	2410.8	2418.1	2421.7
40°	2312.6	2276.2	2247.1	2221.6	2207.0	2196.1	2205.2	2210.7	2227.1	2227.1
42.5°	2114.3	2074.2	2045.1	2028.7	2017.8	2008.7	2023.3	2026.9	2046.9	2050.6
45°	1917.7	1883.2	1859.5	1843.1	1834.0	1837.7	1852.2	1861.3	1879.5	1888.6
47.5°	1737.6	1708.5	1683.0	1675.8	1675.8	1679.4	1693.9	1703.0	1717.6	1728.5
50°	1561.1	1539.3	1522.9	1513.8	1515.6	1521.1	1533.8	1541.1	1555.7	1555.7
52.5°	1388.3	1373.7	1366.4	1355.5	1355.5	1353.7	1366.4	1373.7	1384.6	1386.5
55°	1237.3	1224.5	1217.2	1210.0	1208.1	1211.8	1219.1	1224.5	1237.3	1239.1
57.5°	1093.5	1088.1	1082.6	1077.1	1075.3	1077.1	1080.8	1084.4	1091.7	1093.5
60°	962.5	960.7	953.4	948.0	946.1	944.3	942.5	940.7	944.3	942.5
62.5°	842.4	837.0	831.5	820.6	815.1	800.6	782.4	742.4	709.6	691.4
65°	724.2	720.5	695.0	620.4	575.0	516.7	454.9	394.8	374.8	362.1
67.5°	609.5	549.5	458.5	393.0	369.4	347.5	314.8	282.0	263.8	252.9
70°	438.5	387.6	345.7	309.3	292.9	280.2	254.7	231.1	214.7	207.4
72.5°	354.8	322.1	294.8	267.5	254.7	240.2	214.7	191.0	176.5	169.2
75°	296.6	276.6	249.3	223.8	212.9	202.0	183.8	165.6	152.8	147.4
77.5°	234.7	223.8	207.4	187.4	178.3	171.0	154.7	141.9	129.2	123.7
80°	172.9	169.2	158.3	143.7	136.5	131.0	118.3	107.4	96.4	92.8
82.5°	127.4	123.7	114.6	103.7	100.1	94.6	85.5	76.4	69.1	65.5
85°	87.3	85.5	78.2	71.0	67.3	63.7	54.6	47.3	41.8	38.2
87.5°	54.6	52.8	49.1	41.8	38.2	34.6	27.3	21.8	16.4	14.6
90°	27.3	27.3	25.5	20.0	18.2	16.4	10.9	5.5	1.8	0.0
92.5°	7.3	7.3	7.3	5.5	5.5	3.6	1.8	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: P256928

CATALOG NUMBER: HGL-S-BA-30L940-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)