

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: P256924

Luminaire Tested: **HGL-S-BA-40L930-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256924  
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-40L930-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC  
Light Source: (504) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8488.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

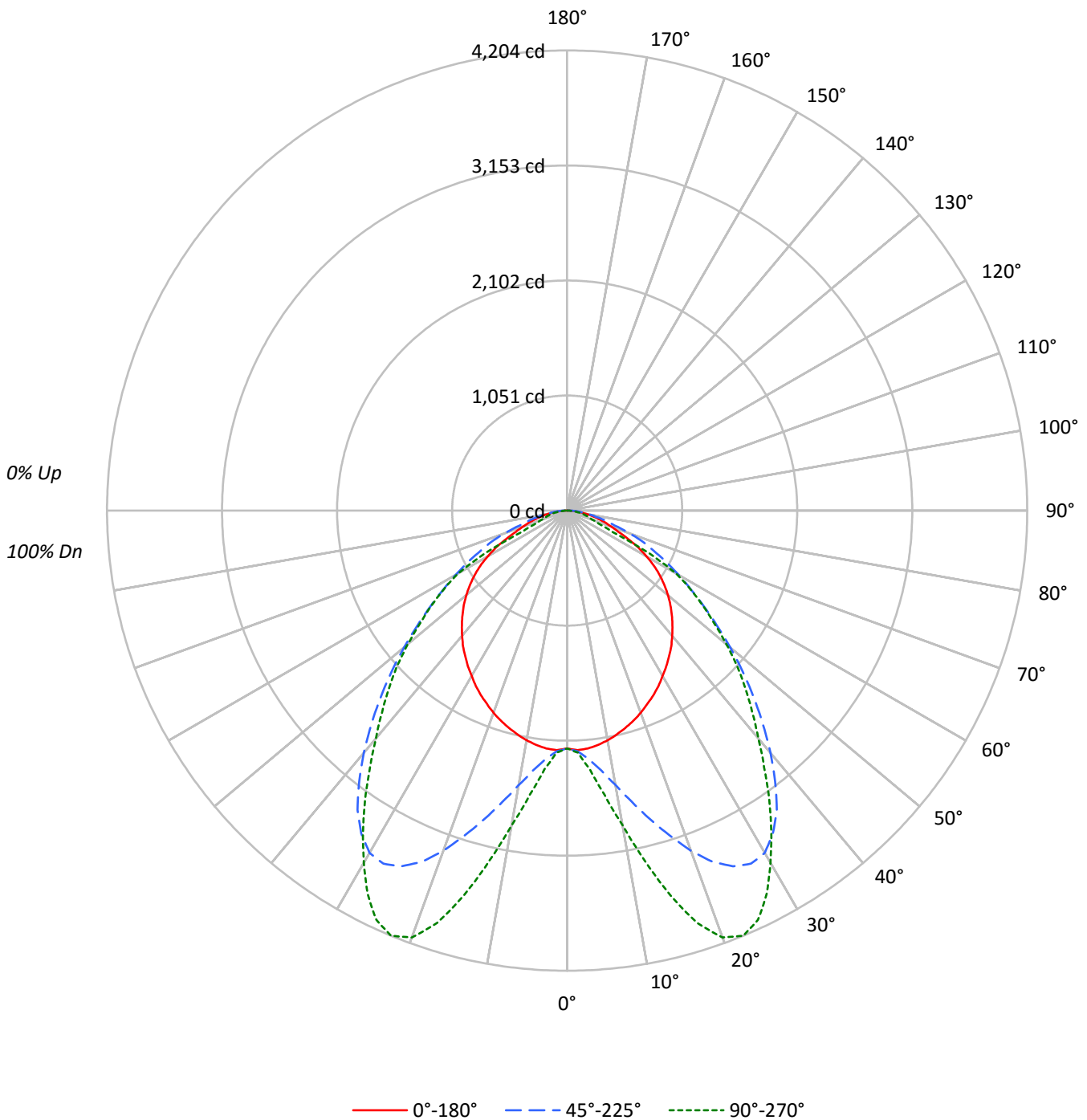
Input Watts (W): 85.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

### Luminous Intensity Polar Plot





TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

**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°	8505	8505	8505
5°	8572	8924	9288
10°	8468	10065	11524
15°	8326	11714	14568
20°	8188	13615	17018
25°	8038	15264	17464
30°	7879	16027	16378
35°	7756	15613	14917
40°	7624	14390	13405
45°	7484	12926	12233
50°	7312	11411	10996
55°	7042	9954	9720
60°	6566	8742	8376
65°	5690	7576	3745
70°	4896	6390	2588
75°	4488	4962	2341
80°	4038	4038	2047
85°	3359	3522	1399



TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	2.7
10°-20°	821.7	9.7
20°-30°	1487.2	17.5
30°-40°	1784.8	21.0
40°-50°	1690.8	19.9
50°-60°	1324.8	15.6
60°-70°	739.4	8.7
70°-80°	313.3	3.7
80°-90°	97.5	1.1
90°-100°	3.5	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°	2534.1	29.9
0°-40°	4318.9	50.9
0°-60°	7334.4	86.4
0°-90°	8484.6	100.0
90°-120°	3.5	0.0
90°-150°	3.5	0.0
90°-180°	4.0	0.0
0°-180°	8488.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2182	2191	2277	2353	2373	206
15°	2055	2302	2915	3451	3637	580
25°	1862	2446	3586	4024	4126	858
35°	1624	2502	3340	3200	3217	1016
45°	1353	2291	2408	2240	2306	1043
55°	1033	1664	1524	1475	1513	920
65°	616	769	873	702	442	615
75°	298	309	367	260	180	317
85°	76	87	107	82	47	84
90°	0	18	33	22	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



TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2190.8	2188.5	2181.9	2173.0	2175.2	2177.4	2177.4	2179.7	2181.9	2188.5	2201.9
5°	2181.9	2177.4	2175.2	2173.0	2184.1	2190.8	2197.4	2210.8	2226.3	2250.8	2277.4
7.5°	2159.7	2159.7	2164.1	2173.0	2197.4	2213.0	2226.3	2259.6	2297.4	2344.1	2395.2
10°	2130.8	2135.2	2148.5	2168.5	2213.0	2237.4	2264.1	2319.6	2384.1	2461.8	2546.3
12.5°	2095.2	2104.1	2126.3	2164.1	2230.8	2268.5	2308.5	2393.0	2488.5	2599.6	2724.0
15°	2055.2	2066.3	2101.9	2157.4	2248.5	2301.9	2357.4	2472.9	2604.0	2752.9	2915.1
17.5°	2013.0	2028.6	2077.5	2155.2	2273.0	2339.6	2410.7	2561.8	2730.7	2910.7	3110.6
20°	1966.4	1988.6	2050.8	2150.8	2295.2	2377.4	2464.1	2652.9	2859.5	3072.8	3306.1
22.5°	1913.0	1941.9	2019.7	2141.9	2317.4	2415.2	2517.4	2737.3	2977.3	3219.5	3472.8
25°	1861.9	1893.0	1984.1	2130.8	2335.2	2446.3	2564.0	2815.1	3084.0	3339.5	3586.1
27.5°	1806.4	1841.9	1950.8	2119.7	2348.5	2472.9	2604.0	2879.5	3161.7	3415.0	3637.2
30°	1744.2	1790.8	1913.0	2101.9	2355.2	2492.9	2635.1	2930.6	3210.6	3432.8	3610.5
32.5°	1686.4	1737.5	1870.8	2081.9	2357.4	2504.0	2655.1	2946.2	3210.6	3392.8	3499.4
35°	1624.2	1679.7	1828.6	2057.5	2348.5	2501.8	2652.9	2941.8	3163.9	3288.4	3339.5
37.5°	1562.0	1622.0	1784.2	2024.1	2328.5	2486.3	2637.4	2897.3	3068.4	3135.1	3121.7
40°	1493.1	1559.8	1726.4	1981.9	2293.0	2446.3	2590.7	2819.6	2928.4	2939.5	2890.7
42.5°	1424.2	1493.1	1668.6	1926.4	2233.0	2379.6	2512.9	2695.1	2746.2	2721.8	2646.2
45°	1353.1	1424.2	1599.7	1859.7	2157.4	2290.7	2401.8	2532.9	2532.9	2488.5	2408.5
47.5°	1279.8	1348.7	1526.4	1781.9	2059.7	2175.2	2266.3	2344.1	2308.5	2253.0	2173.0
50°	1202.0	1270.9	1444.2	1688.6	1933.0	2028.6	2104.1	2133.0	2077.5	2015.2	1944.1
52.5°	1119.8	1188.7	1346.5	1570.9	1784.2	1855.3	1910.8	1908.6	1841.9	1786.4	1724.2
55°	1033.2	1095.4	1237.6	1430.9	1606.4	1664.2	1697.5	1670.8	1608.6	1557.5	1524.2
57.5°	942.1	993.2	1115.4	1273.1	1404.2	1448.7	1468.7	1433.1	1388.7	1357.6	1339.8
60°	839.9	882.1	968.7	1090.9	1186.5	1217.6	1230.9	1206.5	1190.9	1182.0	1177.6
62.5°	733.2	753.2	808.8	888.7	968.7	991.0	1006.5	1011.0	1008.7	1013.2	1024.3
65°	615.5	622.1	639.9	679.9	742.1	768.8	797.7	828.8	846.5	864.3	873.2
67.5°	506.6	508.8	517.7	531.0	555.5	584.4	608.8	655.5	695.4	728.8	751.0
70°	428.8	426.6	428.8	435.5	448.8	459.9	471.0	504.4	546.6	602.1	606.6
72.5°	362.2	359.9	362.2	366.6	371.1	375.5	382.2	395.5	419.9	453.3	459.9
75°	297.7	297.7	297.7	302.2	306.6	308.8	313.3	317.7	326.6	351.1	366.6
77.5°	237.7	235.5	240.0	242.2	244.4	248.8	251.1	255.5	260.0	268.8	280.0
80°	180.0	177.7	180.0	184.4	186.6	191.1	191.1	197.7	200.0	206.6	211.1
82.5°	126.6	124.4	126.6	131.1	131.1	135.5	137.8	142.2	146.6	151.1	155.5
85°	75.5	75.5	77.8	80.0	82.2	86.7	88.9	95.5	100.0	104.4	106.6
87.5°	33.3	33.3	35.5	37.8	42.2	46.7	48.9	53.3	57.8	64.4	64.4
90°	0.0	2.2	6.7	11.1	13.3	17.8	17.8	24.4	26.7	31.1	33.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	4.4	6.7	8.9
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



TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

**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



TEST NUMBER: P256924

CATALOG NUMBER: HGL-S-BA-40L930-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2221.9	2208.5	2217.4	2219.6	2221.9	2217.4	2213.0	2217.4	2213.0	2213.0
5°	2310.7	2308.5	2330.7	2346.3	2353.0	2353.0	2366.3	2375.2	2377.4	2373.0
7.5°	2450.7	2464.1	2508.5	2539.6	2557.4	2566.3	2590.7	2604.0	2621.8	2619.6
10°	2635.1	2677.4	2744.0	2788.4	2819.6	2835.1	2870.7	2895.1	2924.0	2921.8
12.5°	2837.3	2915.1	3008.4	3079.5	3126.2	3155.1	3201.7	3246.2	3272.8	3275.0
15°	3066.2	3172.8	3299.5	3390.6	3450.6	3488.3	3552.8	3597.2	3641.6	3637.2
17.5°	3290.6	3419.5	3572.8	3692.8	3748.3	3783.8	3861.6	3908.3	3950.5	3950.5
20°	3490.6	3639.4	3795.0	3906.1	3959.4	3994.9	4061.6	4108.2	4139.3	4150.5
22.5°	3650.5	3788.3	3919.4	4014.9	4048.3	4077.1	4128.2	4166.0	4186.0	4203.8
25°	3739.4	3850.5	3939.4	4006.0	4023.8	4039.4	4068.2	4097.1	4101.6	4126.0
27.5°	3741.6	3823.8	3872.7	3897.2	3899.4	3899.4	3919.4	3930.5	3939.4	3948.3
30°	3661.6	3699.4	3708.3	3710.5	3699.4	3692.8	3706.1	3708.3	3715.0	3715.0
32.5°	3501.7	3510.6	3495.0	3470.6	3463.9	3450.6	3459.5	3455.0	3466.1	3472.8
35°	3297.3	3281.7	3241.7	3223.9	3199.5	3192.8	3199.5	3195.1	3201.7	3217.3
37.5°	3064.0	3030.6	2997.3	2966.2	2948.4	2930.6	2937.3	2944.0	2952.9	2957.3
40°	2824.0	2779.6	2744.0	2712.9	2695.1	2681.8	2692.9	2699.6	2719.6	2719.6
42.5°	2581.8	2532.9	2497.4	2477.4	2464.1	2452.9	2470.7	2475.2	2499.6	2504.0
45°	2341.9	2299.6	2270.8	2250.8	2239.6	2244.1	2261.9	2273.0	2295.2	2306.3
47.5°	2121.9	2086.3	2055.2	2046.3	2046.3	2050.8	2068.6	2079.7	2097.4	2110.8
50°	1906.4	1879.7	1859.7	1848.6	1850.8	1857.5	1873.0	1881.9	1899.7	1899.7
52.5°	1695.3	1677.5	1668.6	1655.3	1655.3	1653.1	1668.6	1677.5	1690.8	1693.1
55°	1510.9	1495.3	1486.4	1477.5	1475.3	1479.8	1488.7	1495.3	1510.9	1513.1
57.5°	1335.3	1328.7	1322.0	1315.3	1313.1	1315.3	1319.8	1324.2	1333.1	1335.3
60°	1175.4	1173.1	1164.3	1157.6	1155.4	1153.2	1150.9	1148.7	1153.2	1150.9
62.5°	1028.7	1022.1	1015.4	1002.1	995.4	977.6	955.4	906.5	866.5	844.3
65°	884.3	879.9	848.8	757.7	702.1	631.0	555.5	482.1	457.7	442.2
67.5°	744.3	671.0	559.9	479.9	451.0	424.4	384.4	344.4	322.2	308.8
70°	535.5	473.3	422.2	377.7	357.7	342.2	311.1	282.2	262.2	253.3
72.5°	433.3	393.3	359.9	326.6	311.1	293.3	262.2	233.3	215.5	206.6
75°	362.2	337.7	304.4	273.3	260.0	246.6	224.4	202.2	186.6	180.0
77.5°	286.6	273.3	253.3	228.9	217.7	208.9	188.9	173.3	157.8	151.1
80°	211.1	206.6	193.3	175.5	166.6	160.0	144.4	131.1	117.8	113.3
82.5°	155.5	151.1	140.0	126.6	122.2	115.5	104.4	93.3	84.4	80.0
85°	106.6	104.4	95.5	86.7	82.2	77.8	66.7	57.8	51.1	46.7
87.5°	66.7	64.4	60.0	51.1	46.7	42.2	33.3	26.7	20.0	17.8
90°	33.3	33.3	31.1	24.4	22.2	20.0	13.3	6.7	2.2	0.0
92.5°	8.9	8.9	8.9	6.7	6.7	4.4	2.2	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: P256924

CATALOG NUMBER: HGL-S-BA-40L930-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)