

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: P256894

Luminaire Tested: **HGL-S-BA-40L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256894
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-40L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7754.3 lumens
Efficiency: N/A
Efficacy: 133.7 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

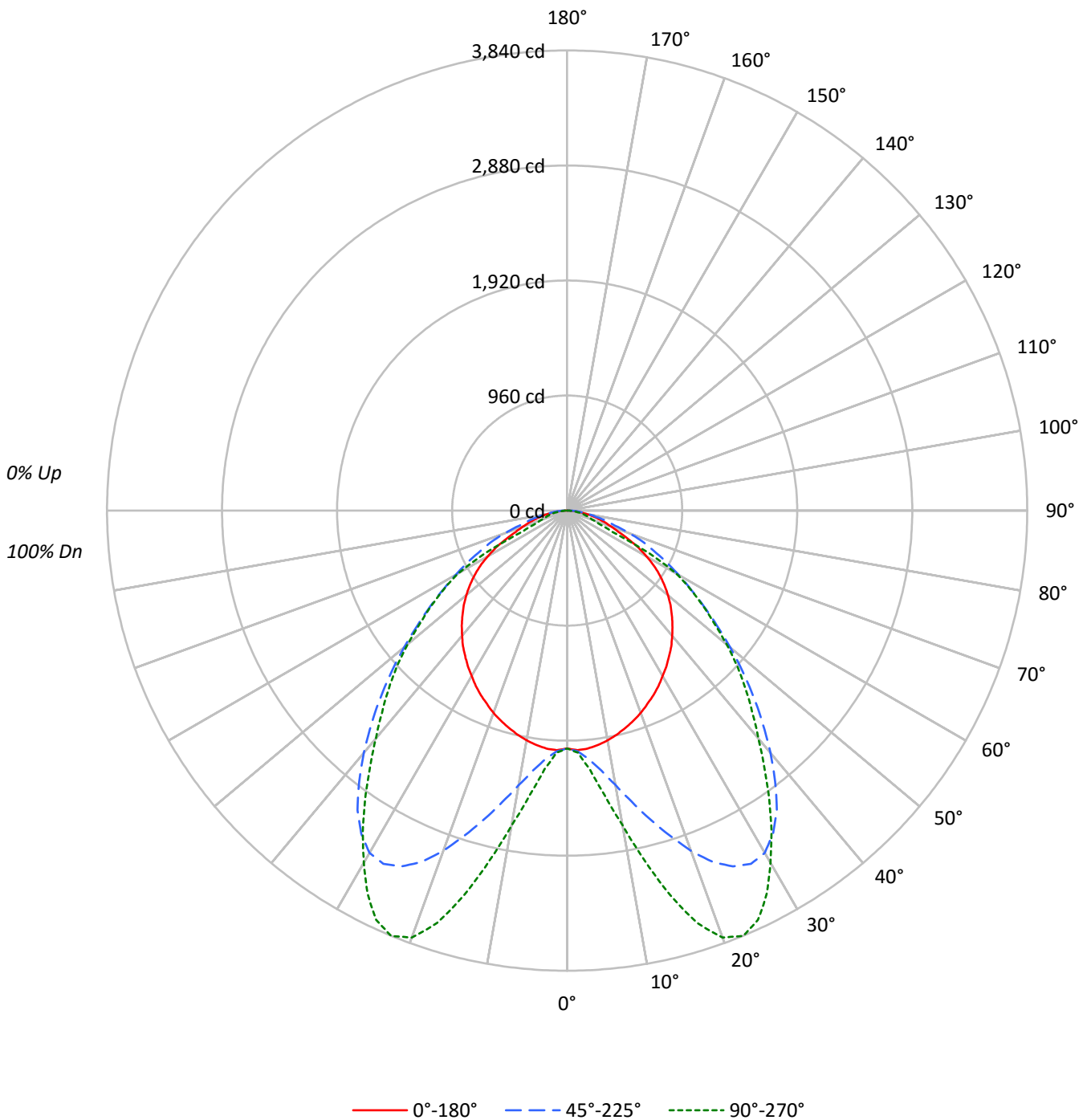
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11655	11655	11655
5°	11746	12228	12728
10°	11603	13791	15792
15°	11408	16051	19964
20°	11219	18655	23320
25°	11013	20914	23931
30°	10795	21959	22443
35°	10626	21391	20441
40°	10443	19714	18369
45°	10251	17707	16762
50°	10015	15632	15068
55°	9644	13635	13319
60°	8991	11974	11478
65°	7789	10376	5131
70°	6701	8749	3547
75°	6142	6792	3207
80°	5519	5524	2805
85°	4583	4815	1915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	2.7
10°-20°	750.6	9.7
20°-30°	1358.6	17.5
30°-40°	1630.5	21.0
40°-50°	1544.6	19.9
50°-60°	1210.2	15.6
60°-70°	675.5	8.7
70°-80°	286.2	3.7
80°-90°	89.0	1.1
90°-100°	3.2	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°	2315.0	29.9
0°-40°	3945.5	50.9
0°-60°	6700.4	86.4
0°-90°	7751.1	100.0
90°-120°	3.2	0.0
90°-150°	3.2	0.0
90°-180°	3.0	0.0
0°-180°	7754.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1993	2001	2080	2150	2168	189
15°	1878	2103	2663	3152	3323	529
25°	1701	2235	3276	3676	3769	783
35°	1484	2286	3051	2923	2939	929
45°	1236	2093	2200	2046	2107	953
55°	944	1520	1392	1348	1382	841
65°	562	702	798	641	404	562
75°	272	282	335	238	164	290
85°	69	79	97	75	43	77
90°	0	16	30	20	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°	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1
2.5°	2001.4	1999.3	1993.2	1985.1	1987.2	1989.2	1989.2	1991.2	1993.2	1999.3	2011.5
5°	1993.2	1989.2	1987.2	1985.1	1995.3	2001.4	2007.5	2019.6	2033.8	2056.2	2080.5
7.5°	1972.9	1972.9	1977.0	1985.1	2007.5	2021.7	2033.8	2064.3	2098.8	2141.4	2188.1
10°	1946.6	1950.6	1962.8	1981.1	2021.7	2044.0	2068.3	2119.1	2178.0	2249.0	2326.1
12.5°	1914.1	1922.2	1942.5	1977.0	2037.9	2072.4	2108.9	2186.1	2273.4	2374.8	2488.5
15°	1877.5	1887.7	1920.2	1970.9	2054.1	2102.9	2153.6	2259.1	2378.9	2514.9	2663.1
17.5°	1839.0	1853.2	1897.8	1968.9	2076.5	2137.4	2202.3	2340.3	2494.6	2659.0	2841.7
20°	1796.4	1816.7	1873.5	1964.8	2096.8	2171.9	2251.0	2423.6	2612.3	2807.2	3020.3
22.5°	1747.6	1774.0	1845.1	1956.7	2117.1	2206.4	2299.7	2500.7	2719.9	2941.2	3172.5
25°	1701.0	1729.4	1812.6	1946.6	2133.3	2234.8	2342.4	2571.7	2817.3	3050.8	3276.1
27.5°	1650.2	1682.7	1782.1	1936.4	2145.5	2259.1	2378.9	2630.6	2888.4	3119.8	3322.8
30°	1593.4	1636.0	1747.6	1920.2	2151.6	2277.4	2407.3	2677.3	2933.0	3136.0	3298.4
32.5°	1540.6	1587.3	1709.1	1901.9	2153.6	2287.6	2425.6	2691.5	2933.0	3099.5	3196.9
35°	1483.8	1534.5	1670.5	1879.6	2145.5	2285.5	2423.6	2687.4	2890.4	3004.1	3050.8
37.5°	1426.9	1481.7	1629.9	1849.1	2127.2	2271.3	2409.4	2646.8	2803.1	2864.0	2851.8
40°	1364.0	1424.9	1577.1	1810.6	2094.7	2234.8	2366.7	2575.8	2675.3	2685.4	2640.7
42.5°	1301.1	1364.0	1524.4	1759.8	2039.9	2173.9	2295.7	2462.1	2508.8	2486.5	2417.5
45°	1236.1	1301.1	1461.4	1698.9	1970.9	2092.7	2194.2	2314.0	2314.0	2273.4	2200.3
47.5°	1169.2	1232.1	1394.5	1627.9	1881.6	1987.2	2070.4	2141.4	2108.9	2058.2	1985.1
50°	1098.1	1161.0	1319.4	1542.6	1765.9	1853.2	1922.2	1948.6	1897.8	1841.0	1776.1
52.5°	1023.0	1085.9	1230.0	1435.1	1629.9	1694.9	1745.6	1743.6	1682.7	1631.9	1575.1
55°	943.8	1000.7	1130.6	1307.2	1467.5	1520.3	1550.8	1526.4	1469.6	1422.9	1392.4
57.5°	860.6	907.3	1019.0	1163.1	1282.8	1323.4	1341.7	1309.2	1268.6	1240.2	1224.0
60°	767.3	805.8	885.0	996.6	1083.9	1112.3	1124.5	1102.2	1088.0	1079.8	1075.8
62.5°	669.8	688.1	738.8	811.9	885.0	905.3	919.5	923.6	921.5	925.6	935.7
65°	562.2	568.3	584.6	621.1	677.9	702.3	728.7	757.1	773.3	789.6	797.7
67.5°	462.8	464.8	472.9	485.1	507.4	533.8	556.2	598.8	635.3	665.8	686.1
70°	391.7	389.7	391.7	397.8	410.0	420.2	430.3	460.8	499.3	550.1	554.1
72.5°	330.9	328.8	330.9	334.9	339.0	343.0	349.1	361.3	383.6	414.1	420.2
75°	272.0	272.0	272.0	276.1	280.1	282.1	286.2	290.3	298.4	320.7	334.9
77.5°	217.2	215.2	219.2	221.2	223.3	227.3	229.4	233.4	237.5	245.6	255.8
80°	164.4	162.4	164.4	168.5	170.5	174.6	174.6	180.7	182.7	188.8	192.8
82.5°	115.7	113.7	115.7	119.8	119.8	123.8	125.8	129.9	134.0	138.0	142.1
85°	69.0	69.0	71.0	73.1	75.1	79.2	81.2	87.3	91.3	95.4	97.4
87.5°	30.4	30.4	32.5	34.5	38.6	42.6	44.7	48.7	52.8	58.9	58.9
90°	0.0	2.0	6.1	10.1	12.2	16.2	16.2	22.3	24.4	28.4	30.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.1	6.1	8.1
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°	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1
2.5°	2029.8	2017.6	2025.7	2027.8	2029.8	2025.7	2021.7	2025.7	2021.7	2021.7
5°	2111.0	2108.9	2129.2	2143.4	2149.5	2149.5	2161.7	2169.8	2171.9	2167.8
7.5°	2238.8	2251.0	2291.6	2320.0	2336.3	2344.4	2366.7	2378.9	2395.1	2393.1
10°	2407.3	2445.9	2506.8	2547.4	2575.8	2590.0	2622.5	2644.8	2671.2	2669.2
12.5°	2592.0	2663.1	2748.3	2813.3	2855.9	2882.3	2924.9	2965.5	2989.9	2991.9
15°	2801.1	2898.5	3014.2	3097.4	3152.3	3186.8	3245.6	3286.2	3326.8	3322.8
17.5°	3006.1	3123.8	3263.9	3373.5	3424.2	3456.7	3527.8	3570.4	3609.0	3609.0
20°	3188.8	3324.8	3466.9	3568.4	3617.1	3649.5	3710.4	3753.1	3781.5	3791.6
22.5°	3334.9	3460.8	3580.5	3667.8	3698.3	3724.7	3771.3	3805.8	3824.1	3840.3
25°	3416.1	3517.6	3598.8	3659.7	3675.9	3690.1	3716.5	3742.9	3747.0	3769.3
27.5°	3418.2	3493.3	3537.9	3560.2	3562.3	3562.3	3580.5	3590.7	3598.8	3606.9
30°	3345.1	3379.6	3387.7	3389.7	3379.6	3373.5	3385.7	3387.7	3393.8	3393.8
32.5°	3198.9	3207.1	3192.8	3170.5	3164.4	3152.3	3160.4	3156.3	3166.5	3172.5
35°	3012.2	2998.0	2961.5	2945.2	2922.9	2916.8	2922.9	2918.8	2924.9	2939.1
37.5°	2799.1	2768.6	2738.2	2709.8	2693.5	2677.3	2683.4	2689.5	2697.6	2701.6
40°	2579.9	2539.3	2506.8	2478.4	2462.1	2449.9	2460.1	2466.2	2484.5	2484.5
42.5°	2358.6	2314.0	2281.5	2263.2	2251.0	2240.9	2257.1	2261.2	2283.5	2287.6
45°	2139.4	2100.8	2074.4	2056.2	2046.0	2050.1	2066.3	2076.5	2096.8	2106.9
47.5°	1938.4	1906.0	1877.5	1869.4	1869.4	1873.5	1889.7	1899.9	1916.1	1928.3
50°	1741.6	1717.2	1698.9	1688.8	1690.8	1696.9	1711.1	1719.2	1735.5	1735.5
52.5°	1548.7	1532.5	1524.4	1512.2	1512.2	1510.2	1524.4	1532.5	1544.7	1546.7
55°	1380.3	1366.0	1357.9	1349.8	1347.8	1351.8	1360.0	1366.0	1380.3	1382.3
57.5°	1219.9	1213.8	1207.7	1201.6	1199.6	1201.6	1205.7	1209.8	1217.9	1219.9
60°	1073.8	1071.7	1063.6	1057.5	1055.5	1053.5	1051.4	1049.4	1053.5	1051.4
62.5°	939.8	933.7	927.6	915.4	909.3	893.1	872.8	828.2	791.6	771.3
65°	807.9	803.8	775.4	692.2	641.4	576.5	507.4	440.5	418.1	403.9
67.5°	680.0	613.0	511.5	438.4	412.0	387.7	351.2	314.6	294.3	282.1
70°	489.2	432.3	385.7	345.1	326.8	312.6	284.2	257.8	239.5	231.4
72.5°	395.8	359.3	328.8	298.4	284.2	267.9	239.5	213.1	196.9	188.8
75°	330.9	308.5	278.1	249.7	237.5	225.3	205.0	184.7	170.5	164.4
77.5°	261.8	249.7	231.4	209.1	198.9	190.8	172.5	158.3	144.1	138.0
80°	192.8	188.8	176.6	160.4	152.2	146.1	131.9	119.8	107.6	103.5
82.5°	142.1	138.0	127.9	115.7	111.6	105.5	95.4	85.3	77.1	73.1
85°	97.4	95.4	87.3	79.2	75.1	71.0	60.9	52.8	46.7	42.6
87.5°	60.9	58.9	54.8	46.7	42.6	38.6	30.4	24.4	18.3	16.2
90°	30.4	30.4	28.4	22.3	20.3	18.3	12.2	6.1	2.0	0.0
92.5°	8.1	8.1	8.1	6.1	6.1	4.1	2.0	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: P256894

CATALOG NUMBER: HGL-S-BA-40L840-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)