

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: P257092

Luminaire Tested: **HGL-S-UF-80L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-UF-80L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12176.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

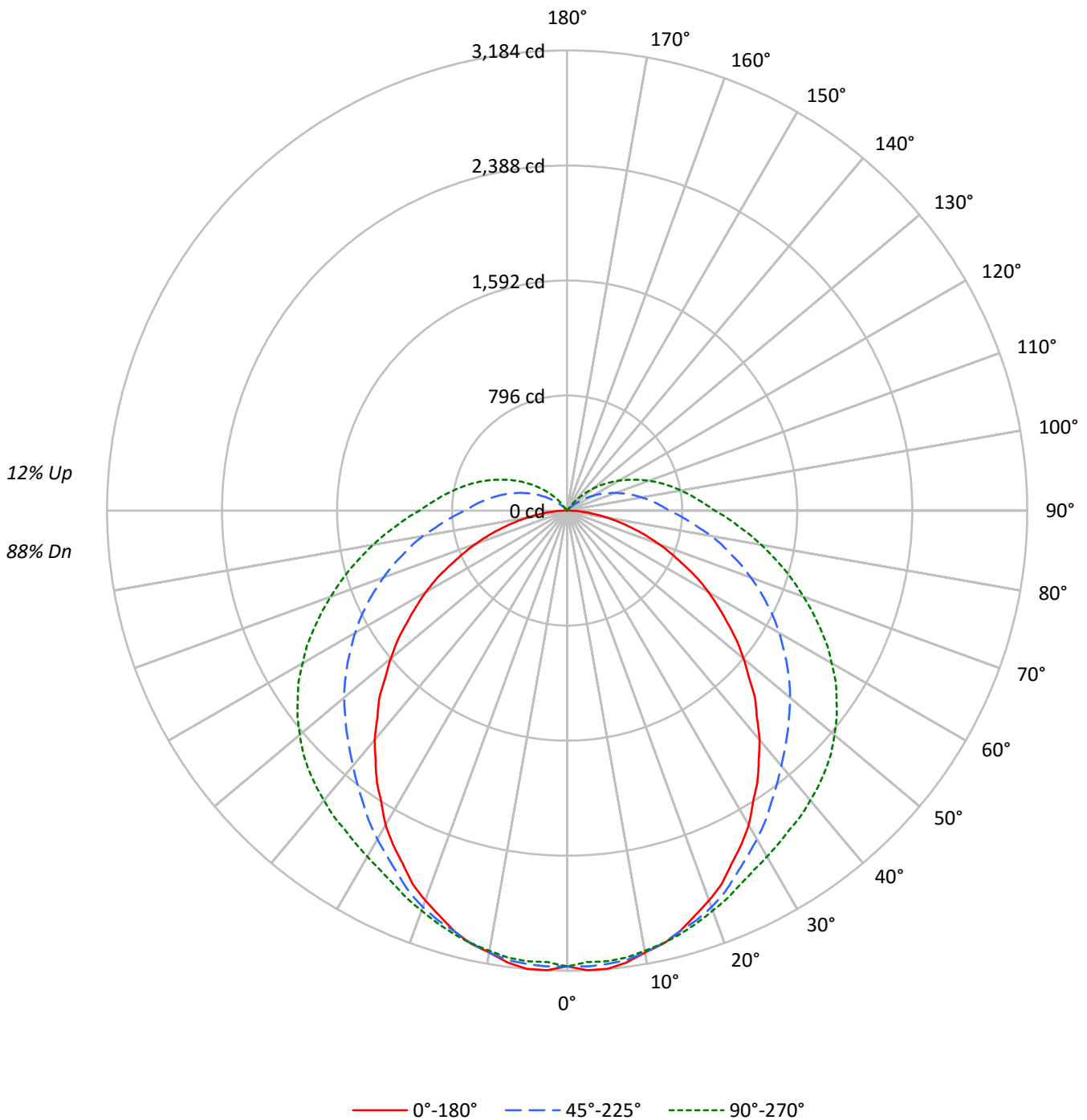
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	103	97	92	87	99	94	89	85	87	84	80	81	78	75	76	73	71	68
2	93	84	76	69	89	81	73	67	75	69	64	70	65	61	65	61	58	55
3	84	73	64	56	81	70	62	55	65	58	53	61	55	50	57	52	48	45
4	77	64	54	47	73	62	53	46	58	50	44	54	48	42	50	45	41	38
5	70	57	47	40	67	55	46	39	51	44	38	48	42	36	45	39	35	32
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	34	29	39	33	28	37	31	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18514	18514	18514
5°	18741	18040	17746
10°	18465	17488	17072
15°	18256	16829	16433
20°	17852	16283	15794
25°	17345	15563	15224
30°	16909	14949	14850
35°	16296	14340	14625
40°	15710	13834	14527
45°	15069	13470	14452
50°	14334	13207	14307
55°	13630	12914	14124
60°	12979	12658	13886
65°	12016	12403	13596
70°	11177	12166	13286
75°	10025	11936	13059
80°	8778	11918	12888
85°	7289	11949	12863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	2.5
10°-20°	849.3	7.0
20°-30°	1274.3	10.5
30°-40°	1547.2	12.7
40°-50°	1671.1	13.7
50°-60°	1636.6	13.4
60°-70°	1451.7	11.9
70°-80°	1162.8	9.5
80°-90°	842.7	6.9
90°-100°	594.0	4.9
100°-110°	414.3	3.4
110°-120°	256.5	2.1
120°-130°	130.4	1.1
130°-140°	45.2	0.4
140°-150°	2.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2422.2	19.9
0°-40°	3969.4	32.6
0°-60°	7277.1	59.8
0°-90°	10734.3	88.2
90°-120°	1264.8	10.4
90°-150°	1442.5	11.8
90°-180°	1443.0	11.9
0°-180°	12176.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3153	3153	3153	3153	3153	
5°	3184	3153	3150	3134	3131	301
15°	3014	2991	3014	3040	3033	848
25°	2694	2701	2773	2818	2848	1243
35°	2294	2309	2464	2611	2690	1433
45°	1838	1888	2159	2426	2532	1413
55°	1356	1469	1857	2162	2276	1216
65°	889	1100	1526	1820	1933	888
75°	463	757	1175	1458	1552	495
85°	124	463	848	1100	1183	134
90°	4	339	704	938	1021	9
95°	0	268	614	833	904	0
105°	0	143	441	637	701	0
115°	0	45	279	448	505	0
125°	0	0	136	275	324	0
135°	0	0	23	121	158	2
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°	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3
2.5°	3183.5	3179.7	3168.4	3157.1	3153.3	3153.3	3149.5	3145.8	3145.8	3142.0	3157.1
5°	3183.5	3179.7	3168.4	3153.3	3149.5	3153.3	3149.5	3142.0	3142.0	3138.2	3149.5
7.5°	3153.3	3145.8	3138.2	3126.9	3123.2	3123.2	3119.4	3119.4	3119.4	3119.4	3138.2
10°	3104.3	3100.6	3093.0	3081.7	3081.7	3078.0	3078.0	3081.7	3081.7	3085.5	3104.3
12.5°	3070.4	3062.9	3051.6	3040.3	3036.5	3036.5	3032.8	3029.0	3032.8	3036.5	3066.7
15°	3013.9	3010.2	3002.6	2991.3	2991.3	2991.3	2991.3	2987.6	2987.6	2991.3	3013.9
17.5°	2938.6	2931.0	2927.3	2919.7	2923.5	2927.3	2931.0	2927.3	2934.8	2946.1	2972.5
20°	2870.8	2863.2	2855.7	2844.4	2844.4	2848.2	2851.9	2851.9	2870.8	2885.8	2919.7
22.5°	2795.4	2791.6	2784.1	2780.3	2780.3	2784.1	2784.1	2776.6	2787.9	2810.5	2855.7
25°	2693.7	2689.9	2686.2	2686.2	2693.7	2701.2	2705.0	2708.8	2720.1	2735.1	2772.8
27.5°	2607.0	2603.3	2595.7	2588.2	2595.7	2603.3	2607.0	2614.6	2637.2	2667.3	2697.5
30°	2512.9	2509.1	2505.3	2505.3	2512.9	2516.6	2520.4	2516.6	2546.8	2592.0	2625.9
32.5°	2392.3	2388.5	2392.3	2392.3	2411.1	2422.4	2430.0	2433.7	2460.1	2501.6	2550.5
35°	2294.3	2294.3	2290.6	2298.1	2301.9	2309.4	2317.0	2335.8	2373.5	2414.9	2463.9
37.5°	2177.6	2177.6	2177.6	2196.4	2211.5	2215.2	2219.0	2241.6	2290.6	2332.0	2384.8
40°	2072.1	2072.1	2072.1	2079.6	2090.9	2102.2	2117.3	2143.7	2192.6	2252.9	2305.7
42.5°	1944.0	1947.7	1955.3	1974.1	1989.2	1996.7	2008.0	2049.5	2102.2	2173.8	2230.3
45°	1838.5	1834.7	1842.3	1857.3	1872.4	1887.5	1906.3	1951.5	2015.6	2094.7	2158.7
47.5°	1706.6	1710.4	1717.9	1744.3	1763.1	1782.0	1804.6	1857.3	1932.7	2011.8	2083.4
50°	1593.6	1597.4	1616.2	1631.3	1650.1	1672.7	1699.1	1766.9	1849.8	1928.9	2015.6
52.5°	1480.6	1484.4	1499.4	1510.7	1540.9	1567.2	1601.1	1676.5	1763.1	1849.8	1936.4
55°	1356.3	1363.8	1375.1	1401.5	1439.1	1469.3	1507.0	1589.8	1676.5	1770.7	1857.3
57.5°	1239.5	1243.2	1262.1	1288.5	1333.7	1371.3	1416.5	1503.2	1597.4	1687.8	1774.4
60°	1130.2	1137.8	1149.1	1183.0	1243.2	1280.9	1326.1	1416.5	1514.5	1604.9	1695.3
62.5°	1017.2	1024.7	1039.8	1077.5	1149.1	1190.5	1239.5	1333.7	1431.6	1522.0	1612.4
65°	889.1	896.6	919.2	968.2	1054.9	1100.1	1149.1	1247.0	1341.2	1435.4	1525.8
67.5°	779.9	783.6	813.8	866.5	956.9	1013.4	1066.2	1160.4	1254.5	1348.7	1439.1
70°	674.4	681.9	704.5	776.1	874.0	919.2	975.8	1077.5	1171.7	1265.8	1352.5
72.5°	568.9	576.4	610.3	689.4	791.2	840.1	885.3	994.6	1088.8	1179.2	1265.8
75°	463.4	474.7	519.9	610.3	708.3	757.2	806.2	904.2	1005.9	1092.5	1175.4
77.5°	369.2	380.5	437.0	531.2	629.2	678.1	727.1	821.3	915.5	1009.7	1096.3
80°	278.8	293.9	361.7	455.9	553.8	602.8	648.0	745.9	836.4	923.0	1013.4
82.5°	199.7	218.5	297.6	388.0	486.0	531.2	576.4	670.6	761.0	843.9	923.0
85°	124.3	158.2	237.3	324.0	418.2	463.4	508.6	602.8	689.4	772.3	847.7
87.5°	60.3	105.5	180.8	263.7	354.1	399.3	444.6	535.0	617.9	700.7	776.1
90°	3.8	60.3	128.1	207.2	297.6	339.1	384.3	470.9	553.8	632.9	704.5
92.5°	0.0	37.7	101.7	177.1	260.0	305.2	346.6	433.3	512.4	591.5	659.3
95°	0.0	18.8	79.1	150.7	229.8	267.5	308.9	391.8	470.9	546.3	614.1
97.5°	0.0	3.8	56.5	120.6	195.9	237.3	275.0	354.1	433.3	504.8	568.9
100°	0.0	0.0	37.7	98.0	165.8	203.4	241.1	316.5	391.8	459.6	523.7
102.5°	0.0	0.0	18.8	75.3	139.4	173.3	207.2	282.6	354.1	421.9	482.2
105°	0.0	0.0	3.8	52.7	113.0	143.2	177.1	244.9	316.5	380.5	440.8
107.5°	0.0	0.0	0.0	30.1	86.7	116.8	146.9	211.0	278.8	339.1	395.6
110°	0.0	0.0	0.0	15.1	64.0	90.4	120.6	180.8	241.1	301.4	357.9



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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	3.8	41.4	67.8	94.2	150.7	207.2	263.7	316.5
115°	0.0	0.0	0.0	0.0	22.6	45.2	67.8	120.6	173.3	229.8	278.8
117.5°	0.0	0.0	0.0	0.0	7.5	26.4	45.2	94.2	143.2	192.1	241.1
120°	0.0	0.0	0.0	0.0	0.0	11.3	26.4	67.8	113.0	158.2	203.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	41.4	82.9	128.1	169.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	56.5	98.0	135.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	33.9	67.8	101.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	41.4	71.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	22.6	45.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	22.6
137.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
140°	3.8	3.8	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°	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3
2.5°	3168.4	3153.3	3153.3	3149.5	3145.8	3142.0	3134.5	3130.7	3123.2	3126.9
5°	3160.9	3145.8	3145.8	3138.2	3134.5	3134.5	3130.7	3130.7	3126.9	3130.7
7.5°	3149.5	3130.7	3130.7	3123.2	3119.4	3115.6	3115.6	3115.6	3115.6	3119.4
10°	3119.4	3108.1	3108.1	3104.3	3100.6	3093.0	3089.3	3093.0	3089.3	3093.0
12.5°	3078.0	3066.7	3074.2	3074.2	3074.2	3066.7	3062.9	3066.7	3062.9	3066.7
15°	3025.2	3021.5	3032.8	3036.5	3040.3	3036.5	3032.8	3032.8	3032.8	3032.8
17.5°	2972.5	2968.7	2983.8	2991.3	2991.3	2991.3	2991.3	2987.6	2987.6	2991.3
20°	2927.3	2912.2	2919.7	2934.8	2938.6	2938.6	2942.3	2946.1	2946.1	2946.1
22.5°	2863.2	2855.7	2859.5	2870.8	2878.3	2882.1	2893.4	2893.4	2897.1	2900.9
25°	2787.9	2799.2	2802.9	2814.3	2818.0	2825.6	2840.6	2848.2	2848.2	2848.2
27.5°	2708.8	2731.4	2746.4	2754.0	2761.5	2769.0	2787.9	2802.9	2802.9	2802.9
30°	2633.4	2656.0	2686.2	2701.2	2708.8	2716.3	2742.7	2761.5	2765.3	2765.3
32.5°	2554.3	2584.4	2629.6	2652.3	2656.0	2667.3	2701.2	2723.8	2727.6	2727.6
35°	2486.5	2524.2	2573.1	2603.3	2610.8	2622.1	2659.8	2686.2	2689.9	2689.9
37.5°	2426.2	2463.9	2516.6	2558.1	2565.6	2580.7	2618.3	2652.3	2656.0	2659.8
40°	2358.4	2403.6	2456.3	2505.3	2520.4	2535.5	2576.9	2610.8	2618.3	2618.3
42.5°	2290.6	2347.1	2399.8	2456.3	2475.2	2490.3	2535.5	2569.4	2576.9	2576.9
45°	2219.0	2290.6	2343.3	2403.6	2426.2	2441.3	2482.7	2520.4	2531.7	2531.7
47.5°	2155.0	2230.3	2283.0	2343.3	2365.9	2388.5	2426.2	2463.9	2475.2	2479.0
50°	2083.4	2166.3	2219.0	2275.5	2305.7	2328.3	2365.9	2407.4	2418.7	2414.9
52.5°	2011.8	2090.9	2147.4	2207.7	2237.8	2260.4	2294.3	2339.6	2350.9	2350.9
55°	1936.4	2015.6	2075.8	2132.4	2162.5	2192.6	2226.5	2264.2	2279.3	2275.5
57.5°	1861.1	1932.7	1996.7	2057.0	2083.4	2113.5	2147.4	2185.1	2196.4	2203.9
60°	1782.0	1846.0	1917.6	1974.1	2000.5	2030.6	2064.5	2098.4	2117.3	2113.5
62.5°	1695.3	1766.9	1834.7	1887.5	1913.8	1944.0	1977.9	2008.0	2023.1	2030.6
65°	1608.7	1676.5	1740.5	1797.1	1819.7	1849.8	1887.5	1910.1	1928.9	1932.7
67.5°	1518.3	1586.1	1650.1	1710.4	1733.0	1759.4	1793.3	1815.9	1834.7	1838.5
70°	1427.8	1499.4	1563.5	1620.0	1642.6	1665.2	1699.1	1721.7	1740.5	1740.5
72.5°	1341.2	1412.8	1473.1	1529.6	1552.2	1571.0	1604.9	1627.5	1642.6	1646.4
75°	1254.5	1322.4	1382.6	1439.1	1458.0	1480.6	1510.7	1533.3	1548.4	1552.2
77.5°	1167.9	1239.5	1296.0	1348.7	1367.6	1386.4	1420.3	1439.1	1454.2	1454.2
80°	1085.0	1152.8	1209.3	1258.3	1273.4	1296.0	1326.1	1345.0	1356.3	1363.8
82.5°	1005.9	1069.9	1122.7	1167.9	1190.5	1205.6	1235.7	1254.5	1265.8	1273.4
85°	919.2	987.1	1039.8	1085.0	1100.1	1122.7	1149.1	1167.9	1179.2	1183.0
87.5°	840.1	900.4	953.2	1005.9	1024.7	1039.8	1066.2	1085.0	1096.3	1103.8
90°	772.3	828.8	877.8	919.2	938.1	956.9	987.1	1005.9	1017.2	1021.0
92.5°	723.3	779.9	825.1	866.5	885.3	900.4	926.8	945.6	956.9	960.7
95°	678.1	730.9	776.1	817.5	832.6	847.7	874.0	889.1	896.6	904.2
97.5°	629.2	685.7	727.1	764.8	783.6	794.9	821.3	836.4	847.7	851.4
100°	583.9	636.7	678.1	719.6	734.6	745.9	772.3	787.4	794.9	798.7
102.5°	538.7	591.5	632.9	670.6	685.7	697.0	719.6	734.6	745.9	749.7
105°	493.5	542.5	583.9	621.6	636.7	648.0	670.6	685.7	697.0	700.7
107.5°	452.1	497.3	538.7	572.6	587.7	599.0	621.6	636.7	648.0	651.8
110°	410.6	452.1	493.5	527.4	542.5	553.8	576.4	587.7	599.0	602.8



TEST NUMBER: P257092

CATALOG NUMBER: HGL-S-UF-80L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	365.4	410.6	448.3	482.2	493.5	508.6	527.4	542.5	550.0	553.8
115°	327.8	369.2	403.1	437.0	448.3	459.6	482.2	493.5	504.8	504.8
117.5°	286.3	324.0	361.7	391.8	403.1	414.4	437.0	448.3	455.9	459.6
120°	248.6	282.6	316.5	346.6	361.7	369.2	391.8	403.1	410.6	414.4
122.5°	211.0	244.9	278.8	305.2	316.5	327.8	346.6	357.9	365.4	369.2
125°	173.3	207.2	237.3	263.7	275.0	286.3	301.4	312.7	320.2	324.0
127.5°	139.4	169.5	199.7	222.3	233.6	244.9	260.0	271.3	278.8	282.6
130°	105.5	131.9	162.0	184.6	195.9	203.4	218.5	229.8	237.3	241.1
132.5°	71.6	98.0	124.3	146.9	158.2	165.8	180.8	188.4	195.9	199.7
135°	45.2	67.8	90.4	109.3	120.6	128.1	143.2	150.7	158.2	158.2
137.5°	22.6	41.4	60.3	75.3	82.9	94.2	105.5	113.0	116.8	120.6
140°	7.5	18.8	33.9	45.2	52.7	60.3	71.6	79.1	82.9	86.7
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)