

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: P257097

Luminaire Tested: **HGL-S-UF-80L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257097
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-80L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12594.4 lumens
Efficiency: N/A
Efficacy: 89.3 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

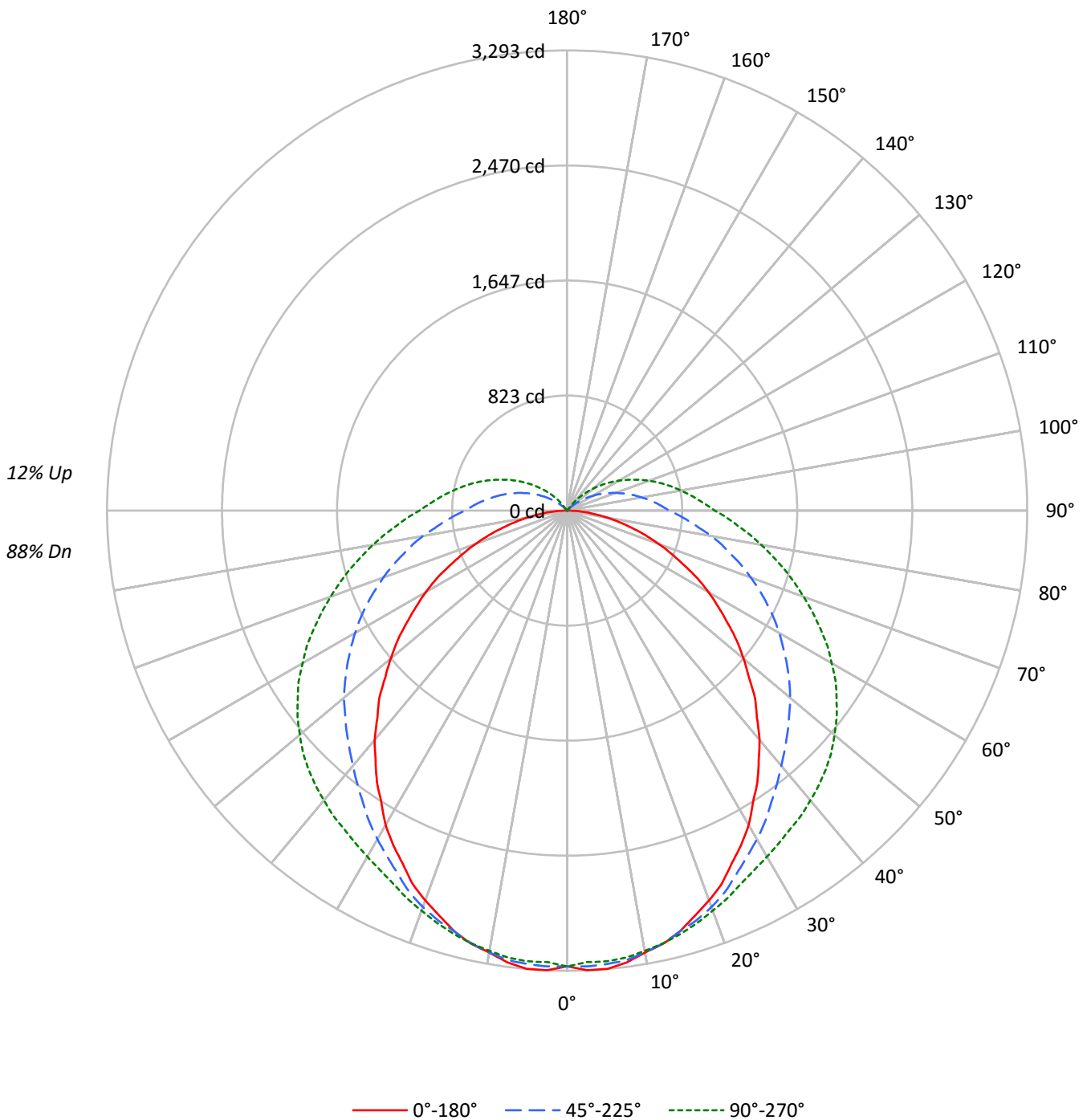
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19148	19148	19148
5°	19383	18659	18354
10°	19098	18088	17657
15°	18882	17406	16996
20°	18464	16841	16336
25°	17940	16097	15746
30°	17488	15461	15359
35°	16855	14832	15127
40°	16248	14308	15025
45°	15586	13932	14947
50°	14826	13660	14798
55°	14097	13357	14608
60°	13424	13093	14362
65°	12428	12828	14062
70°	11560	12583	13742
75°	10369	12345	13506
80°	9077	12327	13330
85°	7541	12358	13303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	2.5
10°-20°	878.4	7.0
20°-30°	1318.0	10.5
30°-40°	1600.2	12.7
40°-50°	1728.4	13.7
50°-60°	1692.8	13.4
60°-70°	1501.5	11.9
70°-80°	1202.7	9.5
80°-90°	871.6	6.9
90°-100°	614.3	4.9
100°-110°	428.5	3.4
110°-120°	265.3	2.1
120°-130°	134.9	1.1
130°-140°	46.7	0.4
140°-150°	2.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2505.3	19.9
0°-40°	4105.5	32.6
0°-60°	7526.6	59.8
0°-90°	11102.4	88.2
90°-120°	1308.1	10.4
90°-150°	1492.0	11.8
90°-180°	1492.0	11.8
0°-180°	12594.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3261	3261	3261	3261	3261	
5°	3293	3261	3258	3242	3238	311
15°	3117	3094	3117	3144	3137	877
25°	2786	2794	2868	2915	2946	1286
35°	2373	2389	2548	2700	2782	1482
45°	1902	1952	2233	2509	2618	1461
55°	1403	1520	1921	2237	2354	1257
65°	920	1138	1578	1882	1999	918
75°	479	783	1216	1508	1605	512
85°	129	479	877	1138	1224	139
90°	4	351	729	970	1056	10
95°	0	277	635	861	935	0
105°	0	148	456	658	725	0
115°	0	47	288	464	522	0
125°	0	0	140	284	335	0
135°	0	0	23	125	164	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



TEST NUMBER: P257097

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3292.6	3288.7	3277.0	3265.3	3261.4	3261.4	3257.5	3253.6	3253.6	3249.7	3265.3
5°	3292.6	3288.7	3277.0	3261.4	3257.5	3261.4	3257.5	3249.7	3249.7	3245.9	3257.5
7.5°	3261.4	3253.6	3245.9	3234.2	3230.3	3230.3	3226.4	3226.4	3226.4	3226.4	3245.9
10°	3210.8	3206.9	3199.1	3187.4	3187.4	3183.5	3183.5	3187.4	3187.4	3191.3	3210.8
12.5°	3175.7	3167.9	3156.2	3144.5	3140.6	3140.6	3136.7	3132.8	3136.7	3140.6	3171.8
15°	3117.3	3113.4	3105.6	3093.9	3093.9	3093.9	3093.9	3090.0	3090.0	3093.9	3117.3
17.5°	3039.3	3031.5	3027.6	3019.8	3023.7	3027.6	3031.5	3027.6	3035.4	3047.1	3074.4
20°	2969.2	2961.4	2953.6	2941.9	2941.9	2945.8	2949.7	2949.7	2969.2	2984.8	3019.8
22.5°	2891.3	2887.4	2879.6	2875.7	2875.7	2879.6	2879.6	2871.8	2883.5	2906.8	2953.6
25°	2786.1	2782.2	2778.3	2778.3	2786.1	2793.8	2797.7	2801.6	2813.3	2828.9	2867.9
27.5°	2696.4	2692.5	2684.7	2677.0	2684.7	2692.5	2696.4	2704.2	2727.6	2758.8	2790.0
30°	2599.0	2595.1	2591.2	2591.2	2599.0	2602.9	2606.8	2602.9	2634.1	2680.8	2715.9
32.5°	2474.3	2470.4	2474.3	2474.3	2493.8	2505.5	2513.3	2517.2	2544.5	2587.3	2638.0
35°	2373.0	2373.0	2369.1	2376.9	2380.8	2388.6	2396.4	2415.9	2454.8	2497.7	2548.4
37.5°	2252.2	2252.2	2252.2	2271.7	2287.3	2291.2	2295.1	2318.5	2369.1	2412.0	2466.5
40°	2143.1	2143.1	2143.1	2150.9	2162.6	2174.3	2189.9	2217.2	2267.8	2330.2	2384.7
42.5°	2010.6	2014.5	2022.3	2041.8	2057.4	2065.2	2076.9	2119.7	2174.3	2248.3	2306.8
45°	1901.5	1897.6	1905.4	1921.0	1936.6	1952.2	1971.7	2018.4	2084.7	2166.5	2232.7
47.5°	1765.2	1769.0	1776.8	1804.1	1823.6	1843.1	1866.5	1921.0	1998.9	2080.8	2154.8
50°	1648.3	1652.1	1671.6	1687.2	1706.7	1730.1	1757.4	1827.5	1913.2	1995.0	2084.7
52.5°	1531.4	1535.3	1550.8	1562.5	1593.7	1621.0	1656.0	1734.0	1823.6	1913.2	2002.8
55°	1402.8	1410.6	1422.3	1449.5	1488.5	1519.7	1558.6	1644.4	1734.0	1831.4	1921.0
57.5°	1282.0	1285.9	1305.4	1332.6	1379.4	1418.4	1465.1	1554.7	1652.1	1745.7	1835.3
60°	1169.0	1176.8	1188.5	1223.5	1285.9	1324.8	1371.6	1465.1	1566.4	1659.9	1753.5
62.5°	1052.1	1059.9	1075.5	1114.4	1188.5	1231.3	1282.0	1379.4	1480.7	1574.2	1667.7
65°	919.6	927.4	950.8	1001.4	1091.0	1137.8	1188.5	1289.8	1387.2	1484.6	1578.1
67.5°	806.6	810.5	841.7	896.2	989.7	1048.2	1102.7	1200.1	1297.6	1395.0	1488.5
70°	697.5	705.3	728.7	802.7	904.0	950.8	1009.2	1114.4	1211.8	1309.3	1398.9
72.5°	588.4	596.2	631.2	713.1	818.3	868.9	915.7	1028.7	1126.1	1219.6	1309.3
75°	479.3	491.0	537.7	631.2	732.6	783.2	833.9	935.2	1040.4	1130.0	1215.7
77.5°	381.9	393.6	452.0	549.4	650.7	701.4	752.0	849.5	946.9	1044.3	1133.9
80°	288.3	303.9	374.1	471.5	572.8	623.5	670.2	771.5	865.0	954.7	1048.2
82.5°	206.5	226.0	307.8	401.3	502.7	549.4	596.2	693.6	787.1	872.8	954.7
85°	128.6	163.7	245.5	335.1	432.5	479.3	526.0	623.5	713.1	798.8	876.7
87.5°	62.3	109.1	187.0	272.8	366.3	413.0	459.8	553.3	639.0	724.8	802.7
90°	3.9	62.3	132.5	214.3	307.8	350.7	397.5	487.1	572.8	654.6	728.7
92.5°	0.0	39.0	105.2	183.1	268.9	315.6	358.5	448.1	529.9	611.8	681.9
95°	0.0	19.5	81.8	155.9	237.7	276.7	319.5	405.2	487.1	565.0	635.1
97.5°	0.0	3.9	58.4	124.7	202.6	245.5	284.5	366.3	448.1	522.1	588.4
100°	0.0	0.0	39.0	101.3	171.4	210.4	249.4	327.3	405.2	475.4	541.6
102.5°	0.0	0.0	19.5	77.9	144.2	179.2	214.3	292.2	366.3	436.4	498.8
105°	0.0	0.0	3.9	54.6	116.9	148.1	183.1	253.3	327.3	393.6	455.9
107.5°	0.0	0.0	0.0	31.2	89.6	120.8	152.0	218.2	288.3	350.7	409.1
110°	0.0	0.0	0.0	15.6	66.2	93.5	124.7	187.0	249.4	311.7	370.2



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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	3.9	42.9	70.1	97.4	155.9	214.3	272.8	327.3
115°	0.0	0.0	0.0	0.0	23.4	46.8	70.1	124.7	179.2	237.7	288.3
117.5°	0.0	0.0	0.0	0.0	7.8	27.3	46.8	97.4	148.1	198.7	249.4
120°	0.0	0.0	0.0	0.0	0.0	11.7	27.3	70.1	116.9	163.7	210.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	42.9	85.7	132.5	175.3
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	58.4	101.3	140.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	35.1	70.1	105.2
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	42.9	74.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	23.4	46.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	23.4
137.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
140°	3.9	3.9	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°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3277.0	3261.4	3261.4	3257.5	3253.6	3249.7	3242.0	3238.1	3230.3	3234.2
5°	3269.2	3253.6	3253.6	3245.9	3242.0	3242.0	3238.1	3238.1	3234.2	3238.1
7.5°	3257.5	3238.1	3238.1	3230.3	3226.4	3222.5	3222.5	3222.5	3222.5	3226.4
10°	3226.4	3214.7	3214.7	3210.8	3206.9	3199.1	3195.2	3199.1	3195.2	3199.1
12.5°	3183.5	3171.8	3179.6	3179.6	3179.6	3171.8	3167.9	3171.8	3167.9	3171.8
15°	3129.0	3125.1	3136.7	3140.6	3144.5	3140.6	3136.7	3136.7	3136.7	3136.7
17.5°	3074.4	3070.5	3086.1	3093.9	3093.9	3093.9	3093.9	3090.0	3090.0	3093.9
20°	3027.6	3012.1	3019.8	3035.4	3039.3	3039.3	3043.2	3047.1	3047.1	3047.1
22.5°	2961.4	2953.6	2957.5	2969.2	2977.0	2980.9	2992.6	2992.6	2996.5	3000.4
25°	2883.5	2895.2	2899.1	2910.7	2914.6	2922.4	2938.0	2945.8	2945.8	2945.8
27.5°	2801.6	2825.0	2840.6	2848.4	2856.2	2864.0	2883.5	2899.1	2899.1	2899.1
30°	2723.7	2747.1	2778.3	2793.8	2801.6	2809.4	2836.7	2856.2	2860.1	2860.1
32.5°	2641.9	2673.1	2719.8	2743.2	2747.1	2758.8	2793.8	2817.2	2821.1	2821.1
35°	2571.7	2610.7	2661.4	2692.5	2700.3	2712.0	2751.0	2778.3	2782.2	2782.2
37.5°	2509.4	2548.4	2602.9	2645.8	2653.6	2669.2	2708.1	2743.2	2747.1	2751.0
40°	2439.3	2486.0	2540.6	2591.2	2606.8	2622.4	2665.3	2700.3	2708.1	2708.1
42.5°	2369.1	2427.6	2482.1	2540.6	2560.1	2575.6	2622.4	2657.5	2665.3	2665.3
45°	2295.1	2369.1	2423.7	2486.0	2509.4	2525.0	2567.8	2606.8	2618.5	2618.5
47.5°	2228.8	2306.8	2361.3	2423.7	2447.1	2470.4	2509.4	2548.4	2560.1	2563.9
50°	2154.8	2240.5	2295.1	2353.5	2384.7	2408.1	2447.1	2489.9	2501.6	2497.7
52.5°	2080.8	2162.6	2221.1	2283.4	2314.6	2337.9	2373.0	2419.8	2431.5	2431.5
55°	2002.8	2084.7	2147.0	2205.5	2236.6	2267.8	2302.9	2341.8	2357.4	2353.5
57.5°	1924.9	1998.9	2065.2	2127.5	2154.8	2186.0	2221.1	2260.0	2271.7	2279.5
60°	1843.1	1909.3	1983.4	2041.8	2069.1	2100.3	2135.3	2170.4	2189.9	2186.0
62.5°	1753.5	1827.5	1897.6	1952.2	1979.5	2010.6	2045.7	2076.9	2092.5	2100.3
65°	1663.8	1734.0	1800.2	1858.7	1882.0	1913.2	1952.2	1975.6	1995.0	1998.9
67.5°	1570.3	1640.5	1706.7	1769.0	1792.4	1819.7	1854.8	1878.2	1897.6	1901.5
70°	1476.8	1550.8	1617.1	1675.5	1698.9	1722.3	1757.4	1780.7	1800.2	1800.2
72.5°	1387.2	1461.2	1523.6	1582.0	1605.4	1624.9	1659.9	1683.3	1698.9	1702.8
75°	1297.6	1367.7	1430.0	1488.5	1508.0	1531.4	1562.5	1585.9	1601.5	1605.4
77.5°	1207.9	1282.0	1340.4	1395.0	1414.5	1433.9	1469.0	1488.5	1504.1	1504.1
80°	1122.2	1192.4	1250.8	1301.5	1317.0	1340.4	1371.6	1391.1	1402.8	1410.6
82.5°	1040.4	1106.6	1161.2	1207.9	1231.3	1246.9	1278.1	1297.6	1309.3	1317.0
85°	950.8	1020.9	1075.5	1122.2	1137.8	1161.2	1188.5	1207.9	1219.6	1223.5
87.5°	868.9	931.3	985.8	1040.4	1059.9	1075.5	1102.7	1122.2	1133.9	1141.7
90°	798.8	857.2	907.9	950.8	970.2	989.7	1020.9	1040.4	1052.1	1056.0
92.5°	748.1	806.6	853.4	896.2	915.7	931.3	958.6	978.0	989.7	993.6
95°	701.4	755.9	802.7	845.6	861.1	876.7	904.0	919.6	927.4	935.2
97.5°	650.7	709.2	752.0	791.0	810.5	822.2	849.5	865.0	876.7	880.6
100°	604.0	658.5	701.4	744.2	759.8	771.5	798.8	814.4	822.2	826.1
102.5°	557.2	611.8	654.6	693.6	709.2	720.9	744.2	759.8	771.5	775.4
105°	510.5	561.1	604.0	642.9	658.5	670.2	693.6	709.2	720.9	724.8
107.5°	467.6	514.3	557.2	592.3	607.9	619.6	642.9	658.5	670.2	674.1
110°	424.7	467.6	510.5	545.5	561.1	572.8	596.2	607.9	619.6	623.5



TEST NUMBER: P257097

CATALOG NUMBER: HGL-S-UF-80L940-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	378.0	424.7	463.7	498.8	510.5	526.0	545.5	561.1	568.9	572.8
115°	339.0	381.9	416.9	452.0	463.7	475.4	498.8	510.5	522.1	522.1
117.5°	296.1	335.1	374.1	405.2	416.9	428.6	452.0	463.7	471.5	475.4
120°	257.2	292.2	327.3	358.5	374.1	381.9	405.2	416.9	424.7	428.6
122.5°	218.2	253.3	288.3	315.6	327.3	339.0	358.5	370.2	378.0	381.9
125°	179.2	214.3	245.5	272.8	284.5	296.1	311.7	323.4	331.2	335.1
127.5°	144.2	175.3	206.5	229.9	241.6	253.3	268.9	280.6	288.3	292.2
130°	109.1	136.4	167.6	190.9	202.6	210.4	226.0	237.7	245.5	249.4
132.5°	74.0	101.3	128.6	152.0	163.7	171.4	187.0	194.8	202.6	206.5
135°	46.8	70.1	93.5	113.0	124.7	132.5	148.1	155.9	163.7	163.7
137.5°	23.4	42.9	62.3	77.9	85.7	97.4	109.1	116.9	120.8	124.7
140°	7.8	19.5	35.1	46.8	54.6	62.3	74.0	81.8	85.7	89.6
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)