

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: P257120

Luminaire Tested: **HGL-S-UF-50L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257120
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-50L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

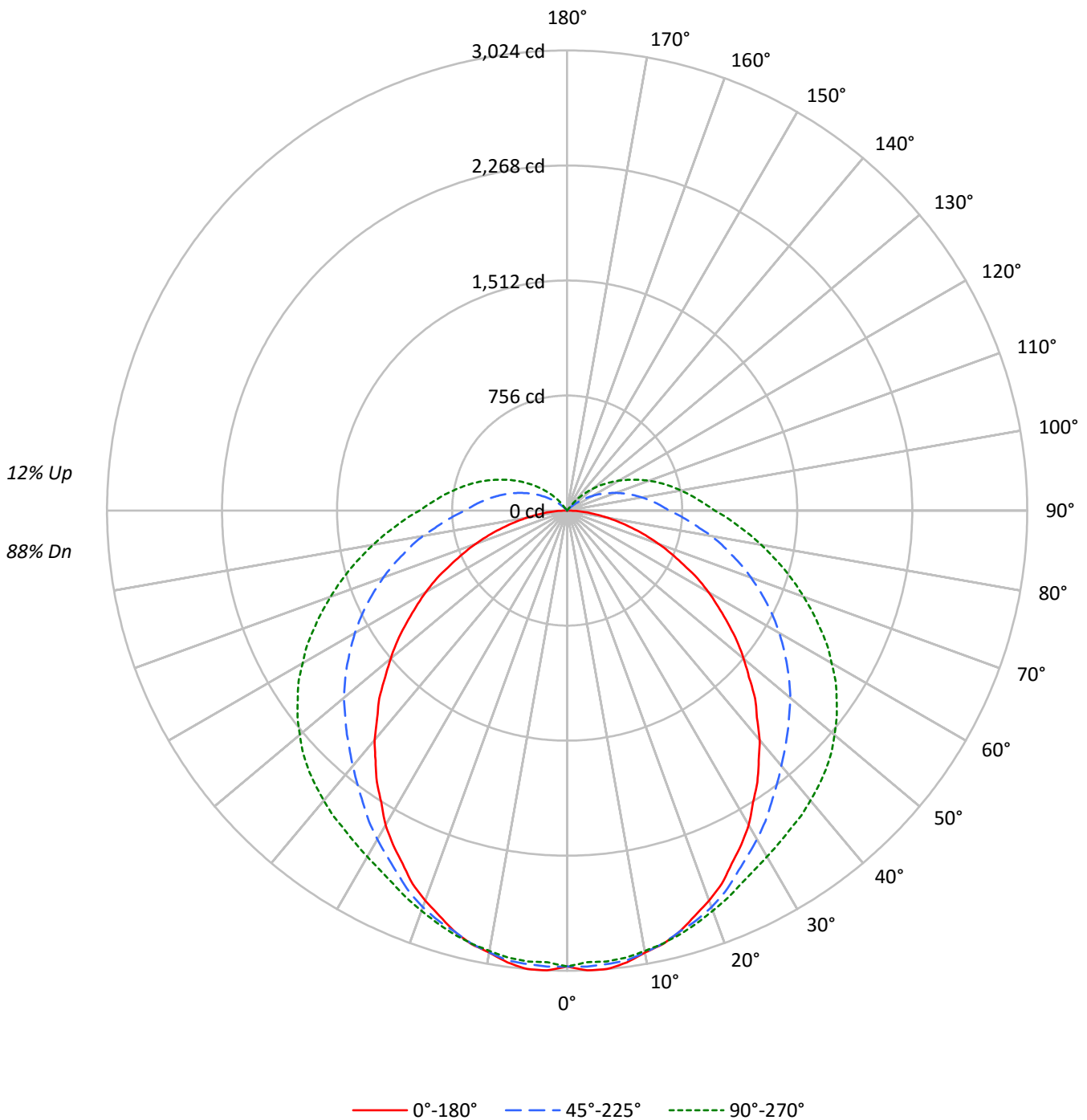
Lumens per Lamp: N/A
Luminaire Lumens: 11567.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 112
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	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°	11725	11725	11725
5°	11873	11428	11239
10°	11703	11081	10812
15°	11575	10666	10407
20°	11324	10323	10003
25°	11007	9869	9642
30°	10736	9482	9405
35°	10352	9098	9262
40°	9985	8779	9200
45°	9584	8551	9153
50°	9124	8386	9061
55°	8685	8203	8945
60°	8281	8044	8794
65°	7679	7886	8611
70°	7160	7740	8414
75°	6448	7598	8270
80°	5689	7594	8162
85°	4825	7624	8146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	2.5
10°-20°	806.8	7.0
20°-30°	1210.6	10.5
30°-40°	1469.8	12.7
40°-50°	1587.5	13.7
50°-60°	1554.8	13.4
60°-70°	1379.1	11.9
70°-80°	1104.7	9.5
80°-90°	800.6	6.9
90°-100°	564.2	4.9
100°-110°	393.6	3.4
110°-120°	243.7	2.1
120°-130°	123.9	1.1
130°-140°	42.9	0.4
140°-150°	2.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2301.1	19.9
0°-40°	3770.9	32.6
0°-60°	6913.2	59.8
0°-90°	10197.5	88.2
90°-120°	1201.5	10.4
90°-150°	1370.4	11.8
90°-180°	1370.0	11.8
0°-180°	11567.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2996	2996	2996	2996	2996	
5°	3024	2996	2992	2978	2974	286
15°	2863	2842	2863	2888	2881	805
25°	2559	2566	2634	2677	2706	1181
35°	2180	2194	2341	2480	2555	1361
45°	1746	1793	2051	2305	2405	1342
55°	1288	1396	1764	2054	2162	1155
65°	845	1045	1450	1729	1836	843
75°	440	719	1117	1385	1474	470
85°	118	440	805	1045	1124	128
90°	4	322	669	891	970	9
95°	0	254	583	791	859	0
105°	0	136	419	605	666	0
115°	0	43	265	426	480	0
125°	0	0	129	261	308	0
135°	0	0	22	114	150	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°	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6
2.5°	3024.2	3020.7	3009.9	2999.2	2995.6	2995.6	2992.0	2988.5	2988.5	2984.9	2999.2
5°	3024.2	3020.7	3009.9	2995.6	2992.0	2995.6	2992.0	2984.9	2984.9	2981.3	2992.0
7.5°	2995.6	2988.5	2981.3	2970.6	2967.0	2967.0	2963.4	2963.4	2963.4	2963.4	2981.3
10°	2949.1	2945.5	2938.3	2927.6	2927.6	2924.0	2924.0	2927.6	2927.6	2931.2	2949.1
12.5°	2916.9	2909.7	2899.0	2888.2	2884.7	2884.7	2881.1	2877.5	2881.1	2884.7	2913.3
15°	2863.2	2859.6	2852.4	2841.7	2841.7	2841.7	2841.7	2838.1	2838.1	2841.7	2863.2
17.5°	2791.6	2784.4	2780.9	2773.7	2777.3	2780.9	2784.4	2780.9	2788.0	2798.8	2823.8
20°	2727.2	2720.0	2712.9	2702.1	2702.1	2705.7	2709.3	2709.3	2727.2	2741.5	2773.7
22.5°	2655.6	2652.0	2644.9	2641.3	2641.3	2644.9	2644.9	2637.7	2648.4	2669.9	2712.9
25°	2559.0	2555.4	2551.8	2551.8	2559.0	2566.1	2569.7	2573.3	2584.0	2598.3	2634.1
27.5°	2476.7	2473.1	2465.9	2458.8	2465.9	2473.1	2476.7	2483.8	2505.3	2533.9	2562.6
30°	2387.2	2383.6	2380.0	2380.0	2387.2	2390.8	2394.3	2390.8	2419.4	2462.3	2494.6
32.5°	2272.7	2269.1	2272.7	2272.7	2290.5	2301.3	2308.4	2312.0	2337.1	2376.4	2423.0
35°	2179.6	2179.6	2176.0	2183.2	2186.8	2193.9	2201.1	2219.0	2254.8	2294.1	2340.7
37.5°	2068.7	2068.7	2068.7	2086.5	2100.9	2104.4	2108.0	2129.5	2176.0	2215.4	2265.5
40°	1968.4	1968.4	1968.4	1975.6	1986.3	1997.1	2011.4	2036.4	2083.0	2140.2	2190.3
42.5°	1846.8	1850.3	1857.5	1875.4	1889.7	1896.9	1907.6	1947.0	1997.1	2065.1	2118.8
45°	1746.5	1743.0	1750.1	1764.4	1778.8	1793.1	1811.0	1853.9	1914.8	1989.9	2050.8
47.5°	1621.3	1624.9	1632.0	1657.1	1675.0	1692.9	1714.3	1764.4	1836.0	1911.2	1979.2
50°	1513.9	1517.5	1535.4	1549.7	1567.6	1589.1	1614.1	1678.5	1757.3	1832.4	1914.8
52.5°	1406.5	1410.1	1424.4	1435.2	1463.8	1488.9	1521.1	1592.6	1675.0	1757.3	1839.6
55°	1288.4	1295.6	1306.3	1331.4	1367.2	1395.8	1431.6	1510.3	1592.6	1682.1	1764.4
57.5°	1177.5	1181.1	1199.0	1224.0	1267.0	1302.7	1345.7	1428.0	1517.5	1603.4	1685.7
60°	1073.7	1080.9	1091.6	1123.8	1181.1	1216.9	1259.8	1345.7	1438.8	1524.6	1610.5
62.5°	966.3	973.5	987.8	1023.6	1091.6	1131.0	1177.5	1267.0	1360.0	1445.9	1531.8
65°	844.6	851.8	873.3	919.8	1002.1	1045.1	1091.6	1184.6	1274.1	1363.6	1449.5
67.5°	740.8	744.4	773.1	823.2	909.1	962.7	1012.9	1102.3	1191.8	1281.3	1367.2
70°	640.6	647.8	669.3	737.3	830.3	873.3	927.0	1023.6	1113.1	1202.5	1284.9
72.5°	540.4	547.6	579.8	655.0	751.6	798.1	841.1	944.9	1034.3	1120.2	1202.5
75°	440.2	451.0	493.9	579.8	672.8	719.4	765.9	859.0	955.6	1037.9	1116.6
77.5°	350.7	361.5	415.2	504.6	597.7	644.2	690.7	780.2	869.7	959.2	1041.5
80°	264.8	279.2	343.6	433.1	526.1	572.6	615.6	708.6	794.5	876.9	962.7
82.5°	189.7	207.6	282.7	368.6	461.7	504.6	547.6	637.1	723.0	801.7	876.9
85°	118.1	150.3	225.5	307.8	397.3	440.2	483.2	572.6	655.0	733.7	805.3
87.5°	57.3	100.2	171.8	250.5	336.4	379.4	422.3	508.2	587.0	665.7	737.3
90°	3.6	57.3	121.7	196.8	282.7	322.1	365.1	447.4	526.1	601.3	669.3
92.5°	0.0	35.8	96.6	168.2	246.9	289.9	329.3	411.6	486.7	561.9	626.3
95°	0.0	17.9	75.2	143.2	218.3	254.1	293.5	372.2	447.4	519.0	583.4
97.5°	0.0	3.6	53.7	114.5	186.1	225.5	261.3	336.4	411.6	479.6	540.4
100°	0.0	0.0	35.8	93.1	157.5	193.3	229.1	300.6	372.2	436.6	497.5
102.5°	0.0	0.0	17.9	71.6	132.4	164.6	196.8	268.4	336.4	400.8	458.1
105°	0.0	0.0	3.6	50.1	107.4	136.0	168.2	232.6	300.6	361.5	418.7
107.5°	0.0	0.0	0.0	28.6	82.3	110.9	139.6	200.4	264.8	322.1	375.8
110°	0.0	0.0	0.0	14.3	60.8	85.9	114.5	171.8	229.1	286.3	340.0



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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	3.6	39.4	64.4	89.5	143.2	196.8	250.5	300.6
115°	0.0	0.0	0.0	0.0	21.5	42.9	64.4	114.5	164.6	218.3	264.8
117.5°	0.0	0.0	0.0	0.0	7.2	25.1	42.9	89.5	136.0	182.5	229.1
120°	0.0	0.0	0.0	0.0	0.0	10.7	25.1	64.4	107.4	150.3	193.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	39.4	78.7	121.7	161.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	53.7	93.1	128.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	32.2	64.4	96.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	39.4	68.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	21.5	42.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	21.5
137.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
140°	3.6	3.6	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°	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6	2995.6
2.5°	3009.9	2995.6	2995.6	2992.0	2988.5	2984.9	2977.7	2974.1	2967.0	2970.6
5°	3002.8	2988.5	2988.5	2981.3	2977.7	2977.7	2974.1	2974.1	2970.6	2974.1
7.5°	2992.0	2974.1	2974.1	2967.0	2963.4	2959.8	2959.8	2959.8	2959.8	2963.4
10°	2963.4	2952.7	2952.7	2949.1	2945.5	2938.3	2934.8	2938.3	2934.8	2938.3
12.5°	2924.0	2913.3	2920.5	2920.5	2920.5	2913.3	2909.7	2913.3	2909.7	2913.3
15°	2873.9	2870.3	2881.1	2884.7	2888.2	2884.7	2881.1	2881.1	2881.1	2881.1
17.5°	2823.8	2820.2	2834.6	2841.7	2841.7	2841.7	2841.7	2838.1	2838.1	2841.7
20°	2780.9	2766.6	2773.7	2788.0	2791.6	2791.6	2795.2	2798.8	2798.8	2798.8
22.5°	2720.0	2712.9	2716.4	2727.2	2734.3	2737.9	2748.7	2748.7	2752.2	2755.8
25°	2648.4	2659.2	2662.8	2673.5	2677.1	2684.2	2698.6	2705.7	2705.7	2705.7
27.5°	2573.3	2594.8	2609.1	2616.2	2623.4	2630.6	2648.4	2662.8	2662.8	2662.8
30°	2501.7	2523.2	2551.8	2566.1	2573.3	2580.4	2605.5	2623.4	2627.0	2627.0
32.5°	2426.6	2455.2	2498.1	2519.6	2523.2	2533.9	2566.1	2587.6	2591.2	2591.2
35°	2362.1	2397.9	2444.4	2473.1	2480.2	2491.0	2526.8	2551.8	2555.4	2555.4
37.5°	2304.9	2340.7	2390.8	2430.1	2437.3	2451.6	2487.4	2519.6	2523.2	2526.8
40°	2240.4	2283.4	2333.5	2380.0	2394.3	2408.7	2448.0	2480.2	2487.4	2487.4
42.5°	2176.0	2229.7	2279.8	2333.5	2351.4	2365.7	2408.7	2440.9	2448.0	2448.0
45°	2108.0	2176.0	2226.1	2283.4	2304.9	2319.2	2358.6	2394.3	2405.1	2405.1
47.5°	2047.2	2118.8	2168.9	2226.1	2247.6	2269.1	2304.9	2340.7	2351.4	2355.0
50°	1979.2	2057.9	2108.0	2161.7	2190.3	2211.8	2247.6	2287.0	2297.7	2294.1
52.5°	1911.2	1986.3	2040.0	2097.3	2125.9	2147.4	2179.6	2222.5	2233.3	2233.3
55°	1839.6	1914.8	1972.0	2025.7	2054.3	2083.0	2115.2	2151.0	2165.3	2161.7
57.5°	1768.0	1836.0	1896.9	1954.1	1979.2	2007.8	2040.0	2075.8	2086.5	2093.7
60°	1692.9	1753.7	1821.7	1875.4	1900.4	1929.1	1961.3	1993.5	2011.4	2007.8
62.5°	1610.5	1678.5	1743.0	1793.1	1818.1	1846.8	1879.0	1907.6	1921.9	1929.1
65°	1528.2	1592.6	1653.5	1707.2	1728.6	1757.3	1793.1	1814.5	1832.4	1836.0
67.5°	1442.3	1506.8	1567.6	1624.9	1646.3	1671.4	1703.6	1725.1	1743.0	1746.5
70°	1356.4	1424.4	1485.3	1539.0	1560.4	1581.9	1614.1	1635.6	1653.5	1653.5
72.5°	1274.1	1342.1	1399.4	1453.1	1474.5	1492.4	1524.6	1546.1	1560.4	1564.0
75°	1191.8	1256.2	1313.5	1367.2	1385.1	1406.5	1435.2	1456.6	1471.0	1474.5
77.5°	1109.5	1177.5	1231.2	1281.3	1299.2	1317.1	1349.3	1367.2	1381.5	1381.5
80°	1030.7	1095.2	1148.9	1195.4	1209.7	1231.2	1259.8	1277.7	1288.4	1295.6
82.5°	955.6	1016.4	1066.5	1109.5	1131.0	1145.3	1173.9	1191.8	1202.5	1209.7
85°	873.3	937.7	987.8	1030.7	1045.1	1066.5	1091.6	1109.5	1120.2	1123.8
87.5°	798.1	855.4	905.5	955.6	973.5	987.8	1012.9	1030.7	1041.5	1048.6
90°	733.7	787.4	833.9	873.3	891.2	909.1	937.7	955.6	966.3	969.9
92.5°	687.2	740.8	783.8	823.2	841.1	855.4	880.4	898.3	909.1	912.6
95°	644.2	694.3	737.3	776.6	791.0	805.3	830.3	844.6	851.8	859.0
97.5°	597.7	651.4	690.7	726.5	744.4	755.2	780.2	794.5	805.3	808.9
100°	554.7	604.8	644.2	683.6	697.9	708.6	733.7	748.0	755.2	758.7
102.5°	511.8	561.9	601.3	637.1	651.4	662.1	683.6	697.9	708.6	712.2
105°	468.8	515.4	554.7	590.5	604.8	615.6	637.1	651.4	662.1	665.7
107.5°	429.5	472.4	511.8	544.0	558.3	569.1	590.5	604.8	615.6	619.2
110°	390.1	429.5	468.8	501.1	515.4	526.1	547.6	558.3	569.1	572.6



TEST NUMBER: P257120

CATALOG NUMBER: HGL-S-UF-50L940-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	347.2	390.1	425.9	458.1	468.8	483.2	501.1	515.4	522.5	526.1
115°	311.4	350.7	383.0	415.2	425.9	436.6	458.1	468.8	479.6	479.6
117.5°	272.0	307.8	343.6	372.2	383.0	393.7	415.2	425.9	433.1	436.6
120°	236.2	268.4	300.6	329.3	343.6	350.7	372.2	383.0	390.1	393.7
122.5°	200.4	232.6	264.8	289.9	300.6	311.4	329.3	340.0	347.2	350.7
125°	164.6	196.8	225.5	250.5	261.3	272.0	286.3	297.1	304.2	307.8
127.5°	132.4	161.1	189.7	211.2	221.9	232.6	246.9	257.7	264.8	268.4
130°	100.2	125.3	153.9	175.4	186.1	193.3	207.6	218.3	225.5	229.1
132.5°	68.0	93.1	118.1	139.6	150.3	157.5	171.8	178.9	186.1	189.7
135°	42.9	64.4	85.9	103.8	114.5	121.7	136.0	143.2	150.3	150.3
137.5°	21.5	39.4	57.3	71.6	78.7	89.5	100.2	107.4	110.9	114.5
140°	7.2	17.9	32.2	42.9	50.1	57.3	68.0	75.2	78.7	82.3
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)