

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: P257121

Luminaire Tested: **HGL-S-UF-60L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257121
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-60L940-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

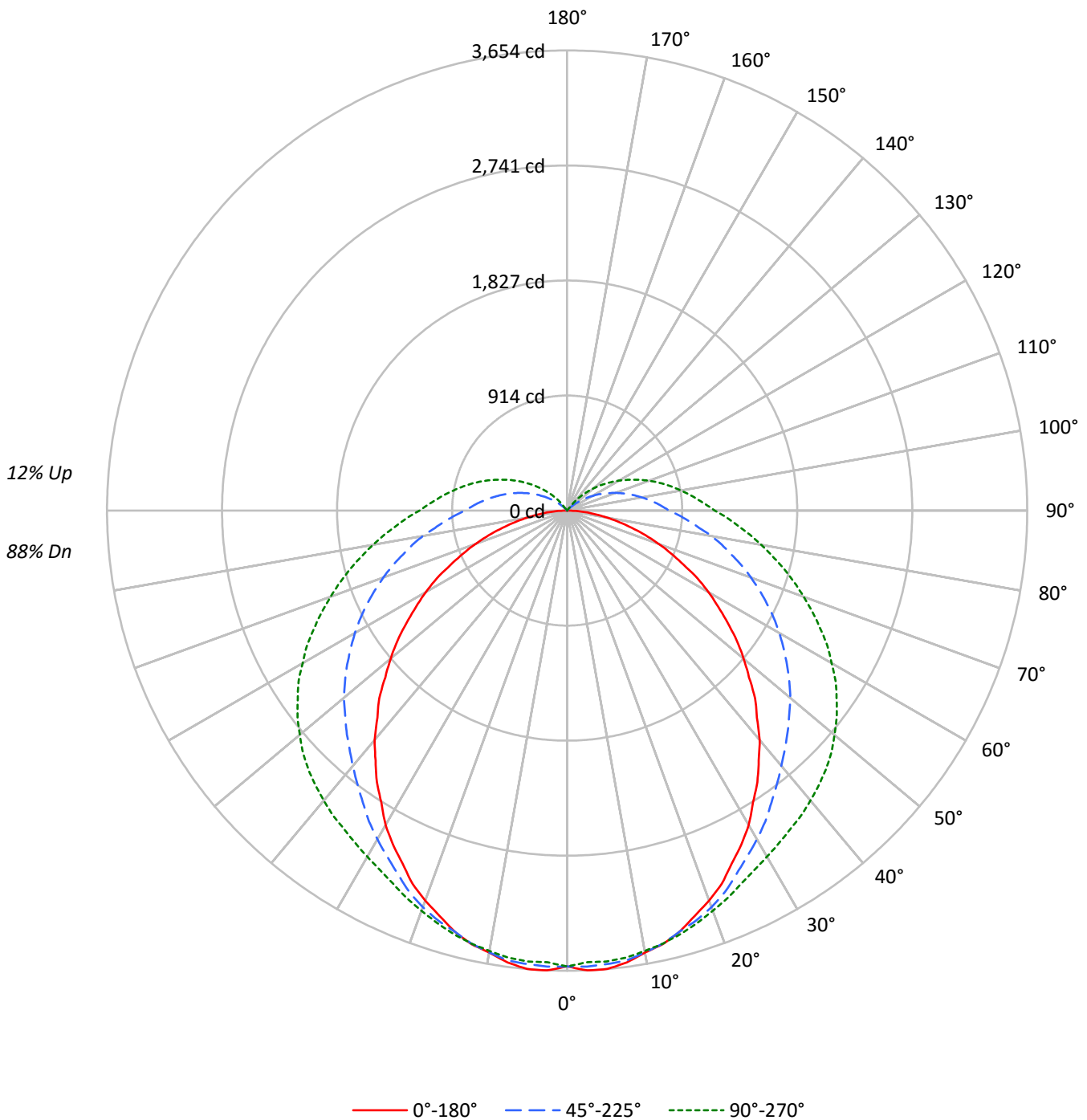
Lumens per Lamp: N/A
Luminaire Lumens: 13977.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 142
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°	14168	14168	14168
5°	14347	13809	13580
10°	14141	13390	13064
15°	13987	12888	12575
20°	13683	12473	12087
25°	13300	11925	11650
30°	12972	11457	11364
35°	12508	10993	11192
40°	12065	10607	11117
45°	11581	10332	11059
50°	11025	10133	10949
55°	10494	9912	10808
60°	10006	9720	10626
65°	9280	9528	10405
70°	8653	9351	10167
75°	7792	9182	9993
80°	6875	9176	9863
85°	5830	9211	9843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	2.5
10°-20°	974.9	7.0
20°-30°	1462.7	10.5
30°-40°	1776.0	12.7
40°-50°	1918.2	13.7
50°-60°	1878.7	13.4
60°-70°	1666.4	11.9
70°-80°	1334.8	9.5
80°-90°	967.4	6.9
90°-100°	681.8	4.9
100°-110°	475.6	3.4
110°-120°	294.4	2.1
120°-130°	149.7	1.1
130°-140°	51.9	0.4
140°-150°	2.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2780.4	19.9
0°-40°	4556.4	32.6
0°-60°	8353.3	59.8
0°-90°	12321.8	88.2
90°-120°	1451.8	10.4
90°-150°	1655.8	11.8
90°-180°	1656.0	11.8
0°-180°	13977.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3620	3620	3620	3620	3620	
5°	3654	3620	3615	3598	3594	346
15°	3460	3434	3460	3490	3481	973
25°	3092	3101	3183	3235	3269	1427
35°	2634	2651	2828	2997	3088	1645
45°	2110	2167	2478	2785	2906	1621
55°	1557	1687	2132	2482	2612	1395
65°	1021	1263	1751	2089	2218	1019
75°	532	869	1349	1674	1782	568
85°	143	532	973	1263	1358	154
90°	4	389	809	1077	1172	11
95°	0	307	705	956	1038	0
105°	0	164	506	731	804	0
115°	0	52	320	515	580	0
125°	0	0	156	316	372	0
135°	0	0	26	138	182	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°	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6
2.5°	3654.2	3649.9	3636.9	3624.0	3619.6	3619.6	3615.3	3611.0	3611.0	3606.7	3624.0
5°	3654.2	3649.9	3636.9	3619.6	3615.3	3619.6	3615.3	3606.7	3606.7	3602.3	3615.3
7.5°	3619.6	3611.0	3602.3	3589.4	3585.0	3585.0	3580.7	3580.7	3580.7	3580.7	3602.3
10°	3563.4	3559.1	3550.4	3537.5	3537.5	3533.1	3533.1	3537.5	3537.5	3541.8	3563.4
12.5°	3524.5	3515.8	3502.9	3489.9	3485.6	3485.6	3481.3	3476.9	3481.3	3485.6	3520.2
15°	3459.6	3455.3	3446.7	3433.7	3433.7	3433.7	3433.7	3429.4	3429.4	3433.7	3459.6
17.5°	3373.1	3364.5	3360.2	3351.5	3355.8	3360.2	3364.5	3360.2	3368.8	3381.8	3412.1
20°	3295.3	3286.6	3278.0	3265.0	3265.0	3269.4	3273.7	3273.7	3295.3	3312.6	3351.5
22.5°	3208.8	3204.5	3195.8	3191.5	3191.5	3195.8	3195.8	3187.2	3200.2	3226.1	3278.0
25°	3092.0	3087.7	3083.4	3083.4	3092.0	3100.7	3105.0	3109.3	3122.3	3139.6	3182.9
27.5°	2992.6	2988.3	2979.6	2971.0	2979.6	2988.3	2992.6	3001.2	3027.2	3061.8	3096.4
30°	2884.5	2880.1	2875.8	2875.8	2884.5	2888.8	2893.1	2888.8	2923.4	2975.3	3014.2
32.5°	2746.1	2741.8	2746.1	2746.1	2767.7	2780.7	2789.3	2793.7	2823.9	2871.5	2927.7
35°	2633.6	2633.6	2629.3	2638.0	2642.3	2650.9	2659.6	2681.2	2724.5	2772.0	2828.2
37.5°	2499.6	2499.6	2499.6	2521.2	2538.5	2542.8	2547.2	2573.1	2629.3	2676.9	2737.4
40°	2378.5	2378.5	2378.5	2387.1	2400.1	2413.1	2430.4	2460.7	2516.9	2586.1	2646.6
42.5°	2231.5	2235.8	2244.4	2266.1	2283.4	2292.0	2305.0	2352.5	2413.1	2495.3	2560.1
45°	2110.4	2106.1	2114.7	2132.0	2149.3	2166.6	2188.2	2240.1	2313.6	2404.4	2478.0
47.5°	1959.0	1963.3	1972.0	2002.3	2023.9	2045.5	2071.5	2132.0	2218.5	2309.3	2391.5
50°	1829.3	1833.6	1855.2	1872.5	1894.1	1920.1	1950.4	2028.2	2123.3	2214.2	2313.6
52.5°	1699.5	1703.9	1721.2	1734.1	1768.7	1799.0	1837.9	1924.4	2023.9	2123.3	2222.8
55°	1556.8	1565.5	1578.5	1608.7	1652.0	1686.6	1729.8	1825.0	1924.4	2032.5	2132.0
57.5°	1422.8	1427.1	1448.7	1479.0	1530.9	1574.1	1626.0	1725.5	1833.6	1937.4	2036.9
60°	1297.4	1306.0	1319.0	1357.9	1427.1	1470.3	1522.2	1626.0	1738.5	1842.3	1946.0
62.5°	1167.6	1176.3	1193.6	1236.8	1319.0	1366.6	1422.8	1530.9	1643.3	1747.1	1850.9
65°	1020.6	1029.2	1055.2	1111.4	1210.9	1262.8	1319.0	1431.4	1539.5	1647.6	1751.4
67.5°	895.2	899.5	934.1	994.6	1098.4	1163.3	1223.8	1332.0	1440.1	1548.2	1652.0
70°	774.1	782.7	808.7	890.9	1003.3	1055.2	1120.1	1236.8	1344.9	1453.0	1552.5
72.5°	653.0	661.7	700.6	791.4	908.2	964.4	1016.3	1141.7	1249.8	1353.6	1453.0
75°	531.9	544.9	596.8	700.6	813.0	869.2	925.5	1037.9	1154.7	1254.1	1349.3
77.5°	423.8	436.8	501.6	609.8	722.2	778.4	834.6	942.7	1050.9	1159.0	1258.4
80°	320.0	337.3	415.2	523.3	635.7	691.9	743.8	856.3	960.0	1059.5	1163.3
82.5°	229.2	250.8	341.6	445.4	557.9	609.8	661.7	769.8	873.6	968.7	1059.5
85°	142.7	181.6	272.4	371.9	480.0	531.9	583.8	691.9	791.4	886.5	973.0
87.5°	69.2	121.1	207.6	302.7	406.5	458.4	510.3	614.1	709.2	804.4	890.9
90°	4.3	69.2	147.0	237.8	341.6	389.2	441.1	540.6	635.7	726.5	808.7
92.5°	0.0	43.2	116.8	203.3	298.4	350.3	397.9	497.3	588.1	679.0	756.8
95°	0.0	21.6	90.8	173.0	263.8	307.0	354.6	449.8	540.6	627.1	704.9
97.5°	0.0	4.3	64.9	138.4	224.9	272.4	315.7	406.5	497.3	579.5	653.0
100°	0.0	0.0	43.2	112.4	190.3	233.5	276.8	363.3	449.8	527.6	601.1
102.5°	0.0	0.0	21.6	86.5	160.0	198.9	237.8	324.3	406.5	484.3	553.5
105°	0.0	0.0	4.3	60.5	129.7	164.3	203.3	281.1	363.3	436.8	506.0
107.5°	0.0	0.0	0.0	34.6	99.5	134.1	168.7	242.2	320.0	389.2	454.1
110°	0.0	0.0	0.0	17.3	73.5	103.8	138.4	207.6	276.8	346.0	410.8



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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	4.3	47.6	77.8	108.1	173.0	237.8	302.7	363.3
115°	0.0	0.0	0.0	0.0	25.9	51.9	77.8	138.4	198.9	263.8	320.0
117.5°	0.0	0.0	0.0	0.0	8.6	30.3	51.9	108.1	164.3	220.6	276.8
120°	0.0	0.0	0.0	0.0	0.0	13.0	30.3	77.8	129.7	181.6	233.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.6	47.6	95.1	147.0	194.6
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	64.9	112.4	155.7
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	38.9	77.8	116.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	47.6	82.2
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	25.9	51.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	25.9
137.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
140°	4.3	4.3	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°	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6
2.5°	3636.9	3619.6	3619.6	3615.3	3611.0	3606.7	3598.0	3593.7	3585.0	3589.4
5°	3628.3	3611.0	3611.0	3602.3	3598.0	3598.0	3593.7	3593.7	3589.4	3593.7
7.5°	3615.3	3593.7	3593.7	3585.0	3580.7	3576.4	3576.4	3576.4	3576.4	3580.7
10°	3580.7	3567.7	3567.7	3563.4	3559.1	3550.4	3546.1	3550.4	3546.1	3550.4
12.5°	3533.1	3520.2	3528.8	3528.8	3528.8	3520.2	3515.8	3520.2	3515.8	3520.2
15°	3472.6	3468.3	3481.3	3485.6	3489.9	3485.6	3481.3	3481.3	3481.3	3481.3
17.5°	3412.1	3407.7	3425.0	3433.7	3433.7	3433.7	3433.7	3429.4	3429.4	3433.7
20°	3360.2	3342.9	3351.5	3368.8	3373.1	3373.1	3377.5	3381.8	3381.8	3381.8
22.5°	3286.6	3278.0	3282.3	3295.3	3303.9	3308.3	3321.2	3321.2	3325.6	3329.9
25°	3200.2	3213.1	3217.5	3230.4	3234.8	3243.4	3260.7	3269.4	3269.4	3269.4
27.5°	3109.3	3135.3	3152.6	3161.2	3169.9	3178.5	3200.2	3217.5	3217.5	3217.5
30°	3022.9	3048.8	3083.4	3100.7	3109.3	3118.0	3148.3	3169.9	3174.2	3174.2
32.5°	2932.0	2966.6	3018.5	3044.5	3048.8	3061.8	3100.7	3126.6	3131.0	3131.0
35°	2854.2	2897.4	2953.7	2988.3	2996.9	3009.9	3053.1	3083.4	3087.7	3087.7
37.5°	2785.0	2828.2	2888.8	2936.4	2945.0	2962.3	3005.6	3044.5	3048.8	3053.1
40°	2707.2	2759.1	2819.6	2875.8	2893.1	2910.4	2958.0	2996.9	3005.6	3005.6
42.5°	2629.3	2694.2	2754.7	2819.6	2841.2	2858.5	2910.4	2949.3	2958.0	2958.0
45°	2547.2	2629.3	2689.9	2759.1	2785.0	2802.3	2849.9	2893.1	2906.1	2906.1
47.5°	2473.6	2560.1	2620.7	2689.9	2715.8	2741.8	2785.0	2828.2	2841.2	2845.5
50°	2391.5	2486.6	2547.2	2612.0	2646.6	2672.6	2715.8	2763.4	2776.4	2772.0
52.5°	2309.3	2400.1	2465.0	2534.2	2568.8	2594.7	2633.6	2685.5	2698.5	2698.5
55°	2222.8	2313.6	2382.8	2447.7	2482.3	2516.9	2555.8	2599.0	2616.3	2612.0
57.5°	2136.3	2218.5	2292.0	2361.2	2391.5	2426.1	2465.0	2508.2	2521.2	2529.9
60°	2045.5	2119.0	2201.2	2266.1	2296.3	2330.9	2369.8	2408.8	2430.4	2426.1
62.5°	1946.0	2028.2	2106.1	2166.6	2196.9	2231.5	2270.4	2305.0	2322.3	2330.9
65°	1846.6	1924.4	1997.9	2062.8	2088.8	2123.3	2166.6	2192.5	2214.2	2218.5
67.5°	1742.8	1820.6	1894.1	1963.3	1989.3	2019.6	2058.5	2084.4	2106.1	2110.4
70°	1639.0	1721.2	1794.7	1859.6	1885.5	1911.4	1950.4	1976.3	1997.9	1997.9
72.5°	1539.5	1621.7	1690.9	1755.8	1781.7	1803.3	1842.3	1868.2	1885.5	1889.8
75°	1440.1	1517.9	1587.1	1652.0	1673.6	1699.5	1734.1	1760.1	1777.4	1781.7
77.5°	1340.6	1422.8	1487.6	1548.2	1569.8	1591.4	1630.4	1652.0	1669.3	1669.3
80°	1245.5	1323.3	1388.2	1444.4	1461.7	1487.6	1522.2	1543.9	1556.8	1565.5
82.5°	1154.7	1228.2	1288.7	1340.6	1366.6	1383.9	1418.4	1440.1	1453.0	1461.7
85°	1055.2	1133.0	1193.6	1245.5	1262.8	1288.7	1319.0	1340.6	1353.6	1357.9
87.5°	964.4	1033.6	1094.1	1154.7	1176.3	1193.6	1223.8	1245.5	1258.4	1267.1
90°	886.5	951.4	1007.6	1055.2	1076.8	1098.4	1133.0	1154.7	1167.6	1171.9
92.5°	830.3	895.2	947.1	994.6	1016.3	1033.6	1063.8	1085.5	1098.4	1102.8
95°	778.4	839.0	890.9	938.4	955.7	973.0	1003.3	1020.6	1029.2	1037.9
97.5°	722.2	787.1	834.6	877.9	899.5	912.5	942.7	960.0	973.0	977.3
100°	670.3	730.8	778.4	826.0	843.3	856.3	886.5	903.8	912.5	916.8
102.5°	618.4	679.0	726.5	769.8	787.1	800.0	826.0	843.3	856.3	860.6
105°	566.5	622.7	670.3	713.5	730.8	743.8	769.8	787.1	800.0	804.4
107.5°	518.9	570.8	618.4	657.3	674.6	687.6	713.5	730.8	743.8	748.1
110°	471.4	518.9	566.5	605.4	622.7	635.7	661.7	674.6	687.6	691.9



TEST NUMBER: P257121

CATALOG NUMBER: HGL-S-UF-60L940-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	419.5	471.4	514.6	553.5	566.5	583.8	605.4	622.7	631.4	635.7
115°	376.2	423.8	462.7	501.6	514.6	527.6	553.5	566.5	579.5	579.5
117.5°	328.7	371.9	415.2	449.8	462.7	475.7	501.6	514.6	523.3	527.6
120°	285.4	324.3	363.3	397.9	415.2	423.8	449.8	462.7	471.4	475.7
122.5°	242.2	281.1	320.0	350.3	363.3	376.2	397.9	410.8	419.5	423.8
125°	198.9	237.8	272.4	302.7	315.7	328.7	346.0	358.9	367.6	371.9
127.5°	160.0	194.6	229.2	255.1	268.1	281.1	298.4	311.4	320.0	324.3
130°	121.1	151.4	186.0	211.9	224.9	233.5	250.8	263.8	272.4	276.8
132.5°	82.2	112.4	142.7	168.7	181.6	190.3	207.6	216.2	224.9	229.2
135°	51.9	77.8	103.8	125.4	138.4	147.0	164.3	173.0	181.6	181.6
137.5°	25.9	47.6	69.2	86.5	95.1	108.1	121.1	129.7	134.1	138.4
140°	8.6	21.6	38.9	51.9	60.5	69.2	82.2	90.8	95.1	99.5
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)