

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: P257116

Luminaire Tested: **HGL-S-UF-60L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257116
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-60L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13514.3 lumens
Efficiency: N/A
Efficacy: 95.2 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

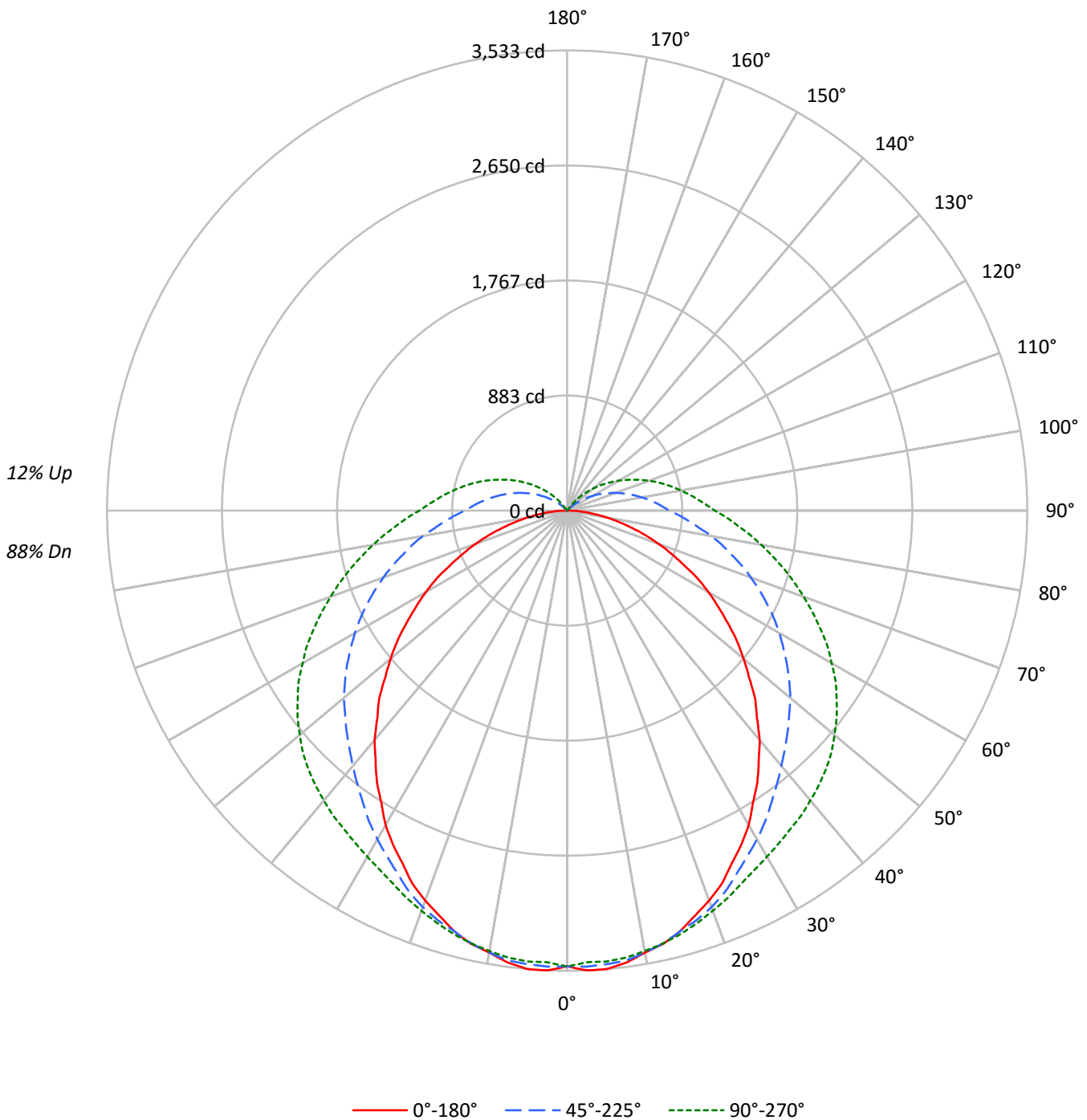
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

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°	13698	13698	13698
5°	13871	13352	13130
10°	13673	12946	12631
15°	13523	12461	12158
20°	13229	12060	11686
25°	12859	11529	11264
30°	12542	11077	10987
35°	12093	10629	10821
40°	11665	10256	10748
45°	11197	9990	10693
50°	10659	9797	10586
55°	10146	9583	10450
60°	9674	9397	10274
65°	8972	9213	10060
70°	8365	9041	9830
75°	7534	8877	9661
80°	6647	8871	9536
85°	5638	8906	9517



TEST NUMBER: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	2.5
10°-20°	942.6	7.0
20°-30°	1414.3	10.5
30°-40°	1717.1	12.7
40°-50°	1854.6	13.7
50°-60°	1816.4	13.4
60°-70°	1611.1	11.9
70°-80°	1290.5	9.5
80°-90°	935.3	6.9
90°-100°	659.2	4.9
100°-110°	459.8	3.4
110°-120°	284.7	2.1
120°-130°	144.8	1.1
130°-140°	50.1	0.4
140°-150°	2.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2688.3	19.9
0°-40°	4405.3	32.6
0°-60°	8076.3	59.8
0°-90°	11913.3	88.2
90°-120°	1403.7	10.4
90°-150°	1601.0	11.8
90°-180°	1601.0	11.8
0°-180°	13514.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3500	3500	3500	3500	3500	
5°	3533	3500	3496	3479	3475	334
15°	3345	3320	3345	3374	3366	941
25°	2990	2998	3077	3128	3161	1380
35°	2546	2563	2734	2898	2985	1590
45°	2040	2095	2396	2693	2810	1568
55°	1505	1631	2061	2400	2525	1349
65°	987	1221	1693	2020	2145	985
75°	514	840	1304	1618	1723	550
85°	138	514	941	1221	1313	149
90°	4	376	782	1041	1133	10
95°	0	297	682	924	1004	0
105°	0	159	489	707	778	0
115°	0	50	309	498	560	0
125°	0	0	150	305	360	0
135°	0	0	25	134	176	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: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6
2.5°	3533.1	3528.9	3516.4	3503.8	3499.6	3499.6	3495.5	3491.3	3491.3	3487.1	3503.8
5°	3533.1	3528.9	3516.4	3499.6	3495.5	3499.6	3495.5	3487.1	3487.1	3482.9	3495.5
7.5°	3499.6	3491.3	3482.9	3470.4	3466.2	3466.2	3462.0	3462.0	3462.0	3462.0	3482.9
10°	3445.3	3441.1	3432.7	3420.2	3420.2	3416.0	3416.0	3420.2	3420.2	3424.4	3445.3
12.5°	3407.7	3399.3	3386.8	3374.2	3370.0	3370.0	3365.8	3361.7	3365.8	3370.0	3403.5
15°	3344.9	3340.8	3332.4	3319.9	3319.9	3319.9	3319.9	3315.7	3315.7	3319.9	3344.9
17.5°	3261.3	3253.0	3248.8	3240.4	3244.6	3248.8	3253.0	3248.8	3257.1	3269.7	3298.9
20°	3186.1	3177.7	3169.3	3156.8	3156.8	3161.0	3165.1	3165.1	3186.1	3202.8	3240.4
22.5°	3102.4	3098.3	3089.9	3085.7	3085.7	3089.9	3089.9	3081.5	3094.1	3119.2	3169.3
25°	2989.5	2985.4	2981.2	2981.2	2989.5	2997.9	3002.1	3006.3	3018.8	3035.5	3077.3
27.5°	2893.4	2889.2	2880.8	2872.5	2880.8	2889.2	2893.4	2901.7	2926.8	2960.3	2993.7
30°	2788.8	2784.7	2780.5	2780.5	2788.8	2793.0	2797.2	2793.0	2826.5	2876.6	2914.3
32.5°	2655.0	2650.9	2655.0	2655.0	2676.0	2688.5	2696.9	2701.0	2730.3	2776.3	2830.7
35°	2546.3	2546.3	2542.2	2550.5	2554.7	2563.1	2571.4	2592.3	2634.1	2680.1	2734.5
37.5°	2416.7	2416.7	2416.7	2437.6	2454.3	2458.5	2462.7	2487.8	2542.2	2588.1	2646.7
40°	2299.6	2299.6	2299.6	2308.0	2320.6	2333.1	2349.8	2379.1	2433.4	2500.3	2558.9
42.5°	2157.5	2161.7	2170.0	2190.9	2207.7	2216.0	2228.6	2274.6	2333.1	2412.5	2475.3
45°	2040.4	2036.2	2044.6	2061.3	2078.0	2094.8	2115.7	2165.8	2236.9	2324.7	2395.8
47.5°	1894.1	1898.3	1906.6	1935.9	1956.8	1977.7	2002.8	2061.3	2144.9	2232.7	2312.2
50°	1768.6	1772.8	1793.7	1810.4	1831.4	1856.4	1885.7	1961.0	2053.0	2140.8	2236.9
52.5°	1643.2	1647.4	1664.1	1676.7	1710.1	1739.4	1777.0	1860.6	1956.8	2053.0	2149.1
55°	1505.2	1513.6	1526.1	1555.4	1597.2	1630.7	1672.5	1764.5	1860.6	1965.2	2061.3
57.5°	1375.6	1379.8	1400.7	1430.0	1480.1	1521.9	1572.1	1668.3	1772.8	1873.2	1969.3
60°	1254.4	1262.7	1275.3	1312.9	1379.8	1421.6	1471.8	1572.1	1680.8	1781.2	1881.5
62.5°	1128.9	1137.3	1154.0	1195.8	1275.3	1321.3	1375.6	1480.1	1588.8	1689.2	1789.5
65°	986.8	995.1	1020.2	1074.6	1170.7	1220.9	1275.3	1384.0	1488.5	1593.0	1693.4
67.5°	865.5	869.7	903.1	961.7	1062.0	1124.7	1183.3	1287.8	1392.3	1496.9	1597.2
70°	748.4	756.8	781.9	861.3	970.0	1020.2	1082.9	1195.8	1300.3	1404.9	1501.0
72.5°	631.4	639.7	677.4	765.2	878.0	932.4	982.6	1103.8	1208.4	1308.7	1404.9
75°	514.3	526.8	577.0	677.4	786.1	840.4	894.8	1003.5	1116.4	1212.5	1304.5
77.5°	409.8	422.3	485.0	589.5	698.3	752.6	807.0	911.5	1016.0	1120.6	1216.7
80°	309.4	326.1	401.4	505.9	614.6	669.0	719.2	827.9	928.2	1024.4	1124.7
82.5°	221.6	242.5	330.3	430.7	539.4	589.5	639.7	744.2	844.6	936.6	1024.4
85°	138.0	175.6	263.4	359.6	464.1	514.3	564.5	669.0	765.2	857.1	940.8
87.5°	66.9	117.1	200.7	292.7	393.0	443.2	493.4	593.7	685.7	777.7	861.3
90°	4.2	66.9	142.2	230.0	330.3	376.3	426.5	522.6	614.6	702.4	781.9
92.5°	0.0	41.8	112.9	196.5	288.5	338.7	384.7	480.8	568.6	656.4	731.7
95°	0.0	20.9	87.8	167.2	255.1	296.9	342.9	434.8	522.6	606.3	681.5
97.5°	0.0	4.2	62.7	133.8	217.4	263.4	305.2	393.0	480.8	560.3	631.4
100°	0.0	0.0	41.8	108.7	184.0	225.8	267.6	351.2	434.8	510.1	581.2
102.5°	0.0	0.0	20.9	83.6	154.7	192.3	230.0	313.6	393.0	468.3	535.2
105°	0.0	0.0	4.2	58.5	125.4	158.9	196.5	271.8	351.2	422.3	489.2
107.5°	0.0	0.0	0.0	33.4	96.2	129.6	163.1	234.1	309.4	376.3	439.0
110°	0.0	0.0	0.0	16.7	71.1	100.3	133.8	200.7	267.6	334.5	397.2



TEST NUMBER: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	4.2	46.0	75.3	104.5	167.2	230.0	292.7	351.2
115°	0.0	0.0	0.0	0.0	25.1	50.2	75.3	133.8	192.3	255.1	309.4
117.5°	0.0	0.0	0.0	0.0	8.4	29.3	50.2	104.5	158.9	213.2	267.6
120°	0.0	0.0	0.0	0.0	0.0	12.5	29.3	75.3	125.4	175.6	225.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.4	46.0	92.0	142.2	188.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	62.7	108.7	150.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	37.6	75.3	112.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	46.0	79.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	25.1	50.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	25.1
137.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
140°	4.2	4.2	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



TEST NUMBER: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6	3499.6
2.5°	3516.4	3499.6	3499.6	3495.5	3491.3	3487.1	3478.7	3474.6	3466.2	3470.4
5°	3508.0	3491.3	3491.3	3482.9	3478.7	3478.7	3474.6	3474.6	3470.4	3474.6
7.5°	3495.5	3474.6	3474.6	3466.2	3462.0	3457.8	3457.8	3457.8	3457.8	3462.0
10°	3462.0	3449.5	3449.5	3445.3	3441.1	3432.7	3428.6	3432.7	3428.6	3432.7
12.5°	3416.0	3403.5	3411.8	3411.8	3411.8	3403.5	3399.3	3403.5	3399.3	3403.5
15°	3357.5	3353.3	3365.8	3370.0	3374.2	3370.0	3365.8	3365.8	3365.8	3365.8
17.5°	3298.9	3294.8	3311.5	3319.9	3319.9	3319.9	3319.9	3315.7	3315.7	3319.9
20°	3248.8	3232.0	3240.4	3257.1	3261.3	3261.3	3265.5	3269.7	3269.7	3269.7
22.5°	3177.7	3169.3	3173.5	3186.1	3194.4	3198.6	3211.1	3211.1	3215.3	3219.5
25°	3094.1	3106.6	3110.8	3123.3	3127.5	3135.9	3152.6	3161.0	3161.0	3161.0
27.5°	3006.3	3031.4	3048.1	3056.4	3064.8	3073.2	3094.1	3110.8	3110.8	3110.8
30°	2922.6	2947.7	2981.2	2997.9	3006.3	3014.6	3043.9	3064.8	3069.0	3069.0
32.5°	2834.8	2868.3	2918.5	2943.5	2947.7	2960.3	2997.9	3023.0	3027.2	3027.2
35°	2759.6	2801.4	2855.7	2889.2	2897.6	2910.1	2951.9	2981.2	2985.4	2985.4
37.5°	2692.7	2734.5	2793.0	2839.0	2847.4	2864.1	2905.9	2943.5	2947.7	2951.9
40°	2617.4	2667.6	2726.1	2780.5	2797.2	2813.9	2859.9	2897.6	2905.9	2905.9
42.5°	2542.2	2604.9	2663.4	2726.1	2747.0	2763.8	2813.9	2851.6	2859.9	2859.9
45°	2462.7	2542.2	2600.7	2667.6	2692.7	2709.4	2755.4	2797.2	2809.7	2809.7
47.5°	2391.6	2475.3	2533.8	2600.7	2625.8	2650.9	2692.7	2734.5	2747.0	2751.2
50°	2312.2	2404.2	2462.7	2525.4	2558.9	2584.0	2625.8	2671.8	2684.3	2680.1
52.5°	2232.7	2320.6	2383.3	2450.2	2483.6	2508.7	2546.3	2596.5	2609.1	2609.1
55°	2149.1	2236.9	2303.8	2366.5	2400.0	2433.4	2471.1	2512.9	2529.6	2525.4
57.5°	2065.5	2144.9	2216.0	2282.9	2312.2	2345.6	2383.3	2425.1	2437.6	2446.0
60°	1977.7	2048.8	2128.2	2190.9	2220.2	2253.7	2291.3	2328.9	2349.8	2345.6
62.5°	1881.5	1961.0	2036.2	2094.8	2124.0	2157.5	2195.1	2228.6	2245.3	2253.7
65°	1785.4	1860.6	1931.7	1994.4	2019.5	2053.0	2094.8	2119.9	2140.8	2144.9
67.5°	1685.0	1760.3	1831.4	1898.3	1923.3	1952.6	1990.2	2015.3	2036.2	2040.4
70°	1584.7	1664.1	1735.2	1797.9	1823.0	1848.1	1885.7	1910.8	1931.7	1931.7
72.5°	1488.5	1567.9	1634.8	1697.6	1722.6	1743.6	1781.2	1806.3	1823.0	1827.2
75°	1392.3	1467.6	1534.5	1597.2	1618.1	1643.2	1676.7	1701.7	1718.5	1722.6
77.5°	1296.2	1375.6	1438.3	1496.9	1517.8	1538.7	1576.3	1597.2	1613.9	1613.9
80°	1204.2	1279.4	1342.2	1396.5	1413.2	1438.3	1471.8	1492.7	1505.2	1513.6
82.5°	1116.4	1187.5	1246.0	1296.2	1321.3	1338.0	1371.4	1392.3	1404.9	1413.2
85°	1020.2	1095.5	1154.0	1204.2	1220.9	1246.0	1275.3	1296.2	1308.7	1312.9
87.5°	932.4	999.3	1057.8	1116.4	1137.3	1154.0	1183.3	1204.2	1216.7	1225.1
90°	857.1	919.9	974.2	1020.2	1041.1	1062.0	1095.5	1116.4	1128.9	1133.1
92.5°	802.8	865.5	915.7	961.7	982.6	999.3	1028.6	1049.5	1062.0	1066.2
95°	752.6	811.1	861.3	907.3	924.0	940.8	970.0	986.8	995.1	1003.5
97.5°	698.3	761.0	807.0	848.8	869.7	882.2	911.5	928.2	940.8	944.9
100°	648.1	706.6	752.6	798.6	815.3	827.9	857.1	873.9	882.2	886.4
102.5°	597.9	656.4	702.4	744.2	761.0	773.5	798.6	815.3	827.9	832.1
105°	547.7	602.1	648.1	689.9	706.6	719.2	744.2	761.0	773.5	777.7
107.5°	501.7	551.9	597.9	635.5	652.3	664.8	689.9	706.6	719.2	723.3
110°	455.7	501.7	547.7	585.4	602.1	614.6	639.7	652.3	664.8	669.0



TEST NUMBER: P257116

CATALOG NUMBER: HGL-S-UF-60L930-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	405.6	455.7	497.6	535.2	547.7	564.5	585.4	602.1	610.5	614.6
115°	363.8	409.8	447.4	485.0	497.6	510.1	535.2	547.7	560.3	560.3
117.5°	317.8	359.6	401.4	434.8	447.4	459.9	485.0	497.6	505.9	510.1
120°	276.0	313.6	351.2	384.7	401.4	409.8	434.8	447.4	455.7	459.9
122.5°	234.1	271.8	309.4	338.7	351.2	363.8	384.7	397.2	405.6	409.8
125°	192.3	230.0	263.4	292.7	305.2	317.8	334.5	347.0	355.4	359.6
127.5°	154.7	188.2	221.6	246.7	259.2	271.8	288.5	301.0	309.4	313.6
130°	117.1	146.3	179.8	204.9	217.4	225.8	242.5	255.1	263.4	267.6
132.5°	79.4	108.7	138.0	163.1	175.6	184.0	200.7	209.1	217.4	221.6
135°	50.2	75.3	100.3	121.3	133.8	142.2	158.9	167.2	175.6	175.6
137.5°	25.1	46.0	66.9	83.6	92.0	104.5	117.1	125.4	129.6	133.8
140°	8.4	20.9	37.6	50.2	58.5	66.9	79.4	87.8	92.0	96.2
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)