

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: P257100

Luminaire Tested: **HGL-S-UF-50L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257100
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-50L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14556.3 lumens
Efficiency: N/A
Efficacy: 130.0 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

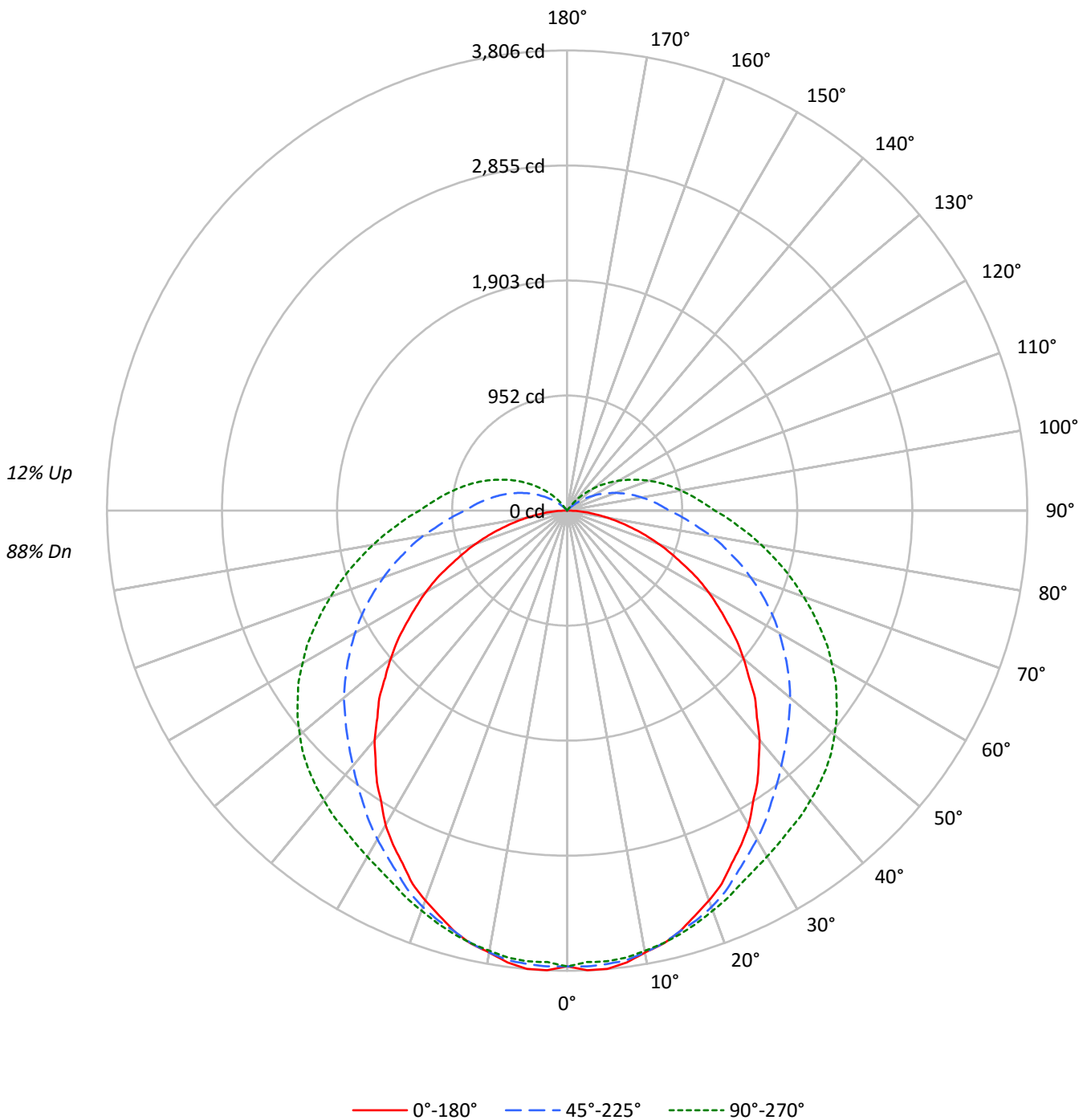
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14754	14754	14754
5°	14941	14381	14142
10°	14727	13944	13605
15°	14566	13422	13096
20°	14249	12990	12587
25°	13851	12418	12133
30°	13509	11931	11834
35°	13026	11448	11655
40°	12565	11047	11577
45°	12061	10760	11517
50°	11481	10552	11402
55°	10928	10323	11256
60°	10420	10122	11066
65°	9663	9923	10835
70°	9010	9739	10588
75°	8114	9561	10407
80°	7160	9556	10271
85°	6071	9593	10251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	2.5
10°-20°	1015.2	7.0
20°-30°	1523.3	10.5
30°-40°	1849.5	12.7
40°-50°	1997.6	13.7
50°-60°	1956.5	13.4
60°-70°	1735.4	11.9
70°-80°	1390.0	9.5
80°-90°	1007.4	6.9
90°-100°	710.0	4.9
100°-110°	495.3	3.4
110°-120°	306.6	2.1
120°-130°	155.9	1.1
130°-140°	54.0	0.4
140°-150°	2.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2895.5	19.9
0°-40°	4745.0	32.6
0°-60°	8699.1	59.8
0°-90°	12831.9	88.2
90°-120°	1511.9	10.4
90°-150°	1724.4	11.8
90°-180°	1724.0	11.8
0°-180°	14556.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3770	3770	3770	3770	3770	
5°	3806	3770	3765	3747	3742	360
15°	3603	3576	3603	3634	3625	1013
25°	3220	3229	3315	3369	3405	1486
35°	2743	2761	2945	3121	3216	1713
45°	2198	2256	2581	2900	3026	1689
55°	1621	1756	2220	2585	2720	1453
65°	1063	1315	1824	2175	2310	1061
75°	554	905	1405	1743	1856	592
85°	149	554	1013	1315	1414	160
90°	4	405	842	1121	1220	11
95°	0	320	734	995	1081	0
105°	0	171	527	761	838	0
115°	0	54	333	536	604	0
125°	0	0	162	329	387	0
135°	0	0	27	144	189	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°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
2.5°	3805.5	3801.0	3787.5	3774.0	3769.5	3769.5	3765.0	3760.5	3760.5	3756.0	3774.0
5°	3805.5	3801.0	3787.5	3769.5	3765.0	3769.5	3765.0	3756.0	3756.0	3751.5	3765.0
7.5°	3769.5	3760.5	3751.5	3738.0	3733.5	3733.5	3729.0	3729.0	3729.0	3729.0	3751.5
10°	3711.0	3706.5	3697.4	3683.9	3683.9	3679.4	3679.4	3683.9	3683.9	3688.4	3711.0
12.5°	3670.4	3661.4	3647.9	3634.4	3629.9	3629.9	3625.4	3620.9	3625.4	3629.9	3665.9
15°	3602.9	3598.4	3589.4	3575.8	3575.8	3575.8	3575.8	3571.3	3571.3	3575.8	3602.9
17.5°	3512.8	3503.8	3499.3	3490.3	3494.8	3499.3	3503.8	3499.3	3508.3	3521.8	3553.3
20°	3431.7	3422.7	3413.7	3400.2	3400.2	3404.7	3409.2	3409.2	3431.7	3449.7	3490.3
22.5°	3341.7	3337.2	3328.2	3323.6	3323.6	3328.2	3328.2	3319.1	3332.7	3359.7	3413.7
25°	3220.1	3215.6	3211.1	3211.1	3220.1	3229.1	3233.6	3238.1	3251.6	3269.6	3314.6
27.5°	3116.5	3112.0	3103.0	3094.0	3103.0	3112.0	3116.5	3125.5	3152.5	3188.5	3224.6
30°	3003.9	2999.4	2994.9	2994.9	3003.9	3008.4	3012.9	3008.4	3044.4	3098.5	3139.0
32.5°	2859.8	2855.3	2859.8	2859.8	2882.3	2895.8	2904.8	2909.3	2940.8	2990.4	3048.9
35°	2742.7	2742.7	2738.2	2747.2	2751.7	2760.7	2769.7	2792.2	2837.3	2886.8	2945.3
37.5°	2603.1	2603.1	2603.1	2625.6	2643.6	2648.1	2652.6	2679.6	2738.2	2787.7	2850.8
40°	2477.0	2477.0	2477.0	2486.0	2499.5	2513.0	2531.0	2562.5	2621.1	2693.1	2756.2
42.5°	2323.9	2328.4	2337.4	2359.9	2377.9	2386.9	2400.4	2450.0	2513.0	2598.6	2666.1
45°	2197.8	2193.2	2202.3	2220.3	2238.3	2256.3	2278.8	2332.9	2409.4	2504.0	2580.6
47.5°	2040.1	2044.6	2053.6	2085.2	2107.7	2130.2	2157.2	2220.3	2310.3	2404.9	2490.5
50°	1905.0	1909.5	1932.0	1950.1	1972.6	1999.6	2031.1	2112.2	2211.3	2305.8	2409.4
52.5°	1769.9	1774.4	1792.4	1805.9	1842.0	1873.5	1914.0	2004.1	2107.7	2211.3	2314.8
55°	1621.3	1630.3	1643.8	1675.3	1720.4	1756.4	1801.4	1900.5	2004.1	2116.7	2220.3
57.5°	1481.7	1486.2	1508.7	1540.2	1594.3	1639.3	1693.3	1796.9	1909.5	2017.6	2121.2
60°	1351.1	1360.1	1373.6	1414.1	1486.2	1531.2	1585.3	1693.3	1810.4	1918.5	2026.6
62.5°	1216.0	1225.0	1243.0	1288.0	1373.6	1423.1	1481.7	1594.3	1711.4	1819.4	1927.5
65°	1062.8	1071.9	1098.9	1157.4	1261.0	1315.0	1373.6	1490.7	1603.3	1715.9	1824.0
67.5°	932.2	936.7	972.8	1035.8	1143.9	1211.5	1274.5	1387.1	1499.7	1612.3	1720.4
70°	806.1	815.1	842.2	927.7	1044.8	1098.9	1166.4	1288.0	1400.6	1513.2	1616.8
72.5°	680.0	689.0	729.6	824.2	945.8	1004.3	1058.3	1188.9	1301.5	1409.6	1513.2
75°	553.9	567.5	621.5	729.6	846.7	905.2	963.8	1080.9	1202.5	1306.0	1405.1
77.5°	441.4	454.9	522.4	635.0	752.1	810.6	869.2	981.8	1094.4	1207.0	1310.5
80°	333.3	351.3	432.3	544.9	662.0	720.6	774.6	891.7	999.8	1103.4	1211.5
82.5°	238.7	261.2	355.8	463.9	581.0	635.0	689.0	801.6	909.7	1008.8	1103.4
85°	148.6	189.2	283.7	387.3	499.9	553.9	608.0	720.6	824.2	923.2	1013.3
87.5°	72.1	126.1	216.2	315.3	423.3	477.4	531.4	639.5	738.6	837.7	927.7
90°	4.5	72.1	153.1	247.7	355.8	405.3	459.4	562.9	662.0	756.6	842.2
92.5°	0.0	45.0	121.6	211.7	310.7	364.8	414.3	517.9	612.5	707.1	788.1
95°	0.0	22.5	94.6	180.1	274.7	319.8	369.3	468.4	562.9	653.0	734.1
97.5°	0.0	4.5	67.6	144.1	234.2	283.7	328.8	423.3	517.9	603.5	680.0
100°	0.0	0.0	45.0	117.1	198.2	243.2	288.2	378.3	468.4	549.4	626.0
102.5°	0.0	0.0	22.5	90.1	166.6	207.2	247.7	337.8	423.3	504.4	576.5
105°	0.0	0.0	4.5	63.1	135.1	171.1	211.7	292.7	378.3	454.9	526.9
107.5°	0.0	0.0	0.0	36.0	103.6	139.6	175.6	252.2	333.3	405.3	472.9
110°	0.0	0.0	0.0	18.0	76.6	108.1	144.1	216.2	288.2	360.3	427.8



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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	4.5	49.5	81.1	112.6	180.1	247.7	315.3	378.3
115°	0.0	0.0	0.0	0.0	27.0	54.0	81.1	144.1	207.2	274.7	333.3
117.5°	0.0	0.0	0.0	0.0	9.0	31.5	54.0	112.6	171.1	229.7	288.2
120°	0.0	0.0	0.0	0.0	0.0	13.5	31.5	81.1	135.1	189.2	243.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	49.5	99.1	153.1	202.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	67.6	117.1	162.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	40.5	81.1	121.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	49.5	85.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	27.0	54.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	27.0
137.5°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
140°	4.5	4.5	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°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
2.5°	3787.5	3769.5	3769.5	3765.0	3760.5	3756.0	3747.0	3742.5	3733.5	3738.0
5°	3778.5	3760.5	3760.5	3751.5	3747.0	3747.0	3742.5	3742.5	3738.0	3742.5
7.5°	3765.0	3742.5	3742.5	3733.5	3729.0	3724.5	3724.5	3724.5	3724.5	3729.0
10°	3729.0	3715.5	3715.5	3711.0	3706.5	3697.4	3692.9	3697.4	3692.9	3697.4
12.5°	3679.4	3665.9	3674.9	3674.9	3674.9	3665.9	3661.4	3665.9	3661.4	3665.9
15°	3616.4	3611.9	3625.4	3629.9	3634.4	3629.9	3625.4	3625.4	3625.4	3625.4
17.5°	3553.3	3548.8	3566.8	3575.8	3575.8	3575.8	3575.8	3571.3	3571.3	3575.8
20°	3499.3	3481.3	3490.3	3508.3	3512.8	3512.8	3517.3	3521.8	3521.8	3521.8
22.5°	3422.7	3413.7	3418.2	3431.7	3440.7	3445.2	3458.8	3458.8	3463.3	3467.8
25°	3332.7	3346.2	3350.7	3364.2	3368.7	3377.7	3395.7	3404.7	3404.7	3404.7
27.5°	3238.1	3265.1	3283.1	3292.1	3301.1	3310.1	3332.7	3350.7	3350.7	3350.7
30°	3148.0	3175.0	3211.1	3229.1	3238.1	3247.1	3278.6	3301.1	3305.6	3305.6
32.5°	3053.4	3089.5	3143.5	3170.5	3175.0	3188.5	3229.1	3256.1	3260.6	3260.6
35°	2972.4	3017.4	3075.9	3112.0	3121.0	3134.5	3179.5	3211.1	3215.6	3215.6
37.5°	2900.3	2945.3	3008.4	3057.9	3066.9	3085.0	3130.0	3170.5	3175.0	3179.5
40°	2819.2	2873.3	2936.3	2994.9	3012.9	3030.9	3080.5	3121.0	3130.0	3130.0
42.5°	2738.2	2805.7	2868.8	2936.3	2958.9	2976.9	3030.9	3071.4	3080.5	3080.5
45°	2652.6	2738.2	2801.2	2873.3	2900.3	2918.3	2967.9	3012.9	3026.4	3026.4
47.5°	2576.1	2666.1	2729.2	2801.2	2828.3	2855.3	2900.3	2945.3	2958.9	2963.4
50°	2490.5	2589.6	2652.6	2720.2	2756.2	2783.2	2828.3	2877.8	2891.3	2886.8
52.5°	2404.9	2499.5	2567.0	2639.1	2675.1	2702.2	2742.7	2796.7	2810.2	2810.2
55°	2314.8	2409.4	2481.5	2549.0	2585.1	2621.1	2661.6	2706.7	2724.7	2720.2
57.5°	2224.8	2310.3	2386.9	2459.0	2490.5	2526.5	2567.0	2612.1	2625.6	2634.6
60°	2130.2	2206.8	2292.3	2359.9	2391.4	2427.4	2468.0	2508.5	2531.0	2526.5
62.5°	2026.6	2112.2	2193.2	2256.3	2287.8	2323.9	2364.4	2400.4	2418.4	2427.4
65°	1923.0	2004.1	2080.7	2148.2	2175.2	2211.3	2256.3	2283.3	2305.8	2310.3
67.5°	1814.9	1896.0	1972.6	2044.6	2071.6	2103.2	2143.7	2170.7	2193.2	2197.8
70°	1706.9	1792.4	1869.0	1936.5	1963.6	1990.6	2031.1	2058.1	2080.7	2080.7
72.5°	1603.3	1688.8	1760.9	1828.5	1855.5	1878.0	1918.5	1945.5	1963.6	1968.1
75°	1499.7	1580.8	1652.8	1720.4	1742.9	1769.9	1805.9	1833.0	1851.0	1855.5
77.5°	1396.1	1481.7	1549.2	1612.3	1634.8	1657.3	1697.9	1720.4	1738.4	1738.4
80°	1297.0	1378.1	1445.7	1504.2	1522.2	1549.2	1585.3	1607.8	1621.3	1630.3
82.5°	1202.5	1279.0	1342.1	1396.1	1423.1	1441.1	1477.2	1499.7	1513.2	1522.2
85°	1098.9	1179.9	1243.0	1297.0	1315.0	1342.1	1373.6	1396.1	1409.6	1414.1
87.5°	1004.3	1076.4	1139.4	1202.5	1225.0	1243.0	1274.5	1297.0	1310.5	1319.6
90°	923.2	990.8	1049.3	1098.9	1121.4	1143.9	1179.9	1202.5	1216.0	1220.5
92.5°	864.7	932.2	986.3	1035.8	1058.3	1076.4	1107.9	1130.4	1143.9	1148.4
95°	810.6	873.7	927.7	977.3	995.3	1013.3	1044.8	1062.8	1071.9	1080.9
97.5°	752.1	819.7	869.2	914.2	936.7	950.3	981.8	999.8	1013.3	1017.8
100°	698.1	761.1	810.6	860.2	878.2	891.7	923.2	941.2	950.3	954.8
102.5°	644.0	707.1	756.6	801.6	819.7	833.2	860.2	878.2	891.7	896.2
105°	590.0	648.5	698.1	743.1	761.1	774.6	801.6	819.7	833.2	837.7
107.5°	540.4	594.5	644.0	684.5	702.6	716.1	743.1	761.1	774.6	779.1
110°	490.9	540.4	590.0	630.5	648.5	662.0	689.0	702.6	716.1	720.6



TEST NUMBER: P257100

CATALOG NUMBER: HGL-S-UF-50L830-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	436.8	490.9	535.9	576.5	590.0	608.0	630.5	648.5	657.5	662.0
115°	391.8	441.4	481.9	522.4	535.9	549.4	576.5	590.0	603.5	603.5
117.5°	342.3	387.3	432.3	468.4	481.9	495.4	522.4	535.9	544.9	549.4
120°	297.2	337.8	378.3	414.3	432.3	441.4	468.4	481.9	490.9	495.4
122.5°	252.2	292.7	333.3	364.8	378.3	391.8	414.3	427.8	436.8	441.4
125°	207.2	247.7	283.7	315.3	328.8	342.3	360.3	373.8	382.8	387.3
127.5°	166.6	202.7	238.7	265.7	279.2	292.7	310.7	324.3	333.3	337.8
130°	126.1	157.6	193.7	220.7	234.2	243.2	261.2	274.7	283.7	288.2
132.5°	85.6	117.1	148.6	175.6	189.2	198.2	216.2	225.2	234.2	238.7
135°	54.0	81.1	108.1	130.6	144.1	153.1	171.1	180.1	189.2	189.2
137.5°	27.0	49.5	72.1	90.1	99.1	112.6	126.1	135.1	139.6	144.1
140°	9.0	22.5	40.5	54.0	63.1	72.1	85.6	94.6	99.1	103.6
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)