

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: P257105

Luminaire Tested: **HGL-S-UF-50L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257105
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-50L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15101.3 lumens
Efficiency: N/A
Efficacy: 134.8 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

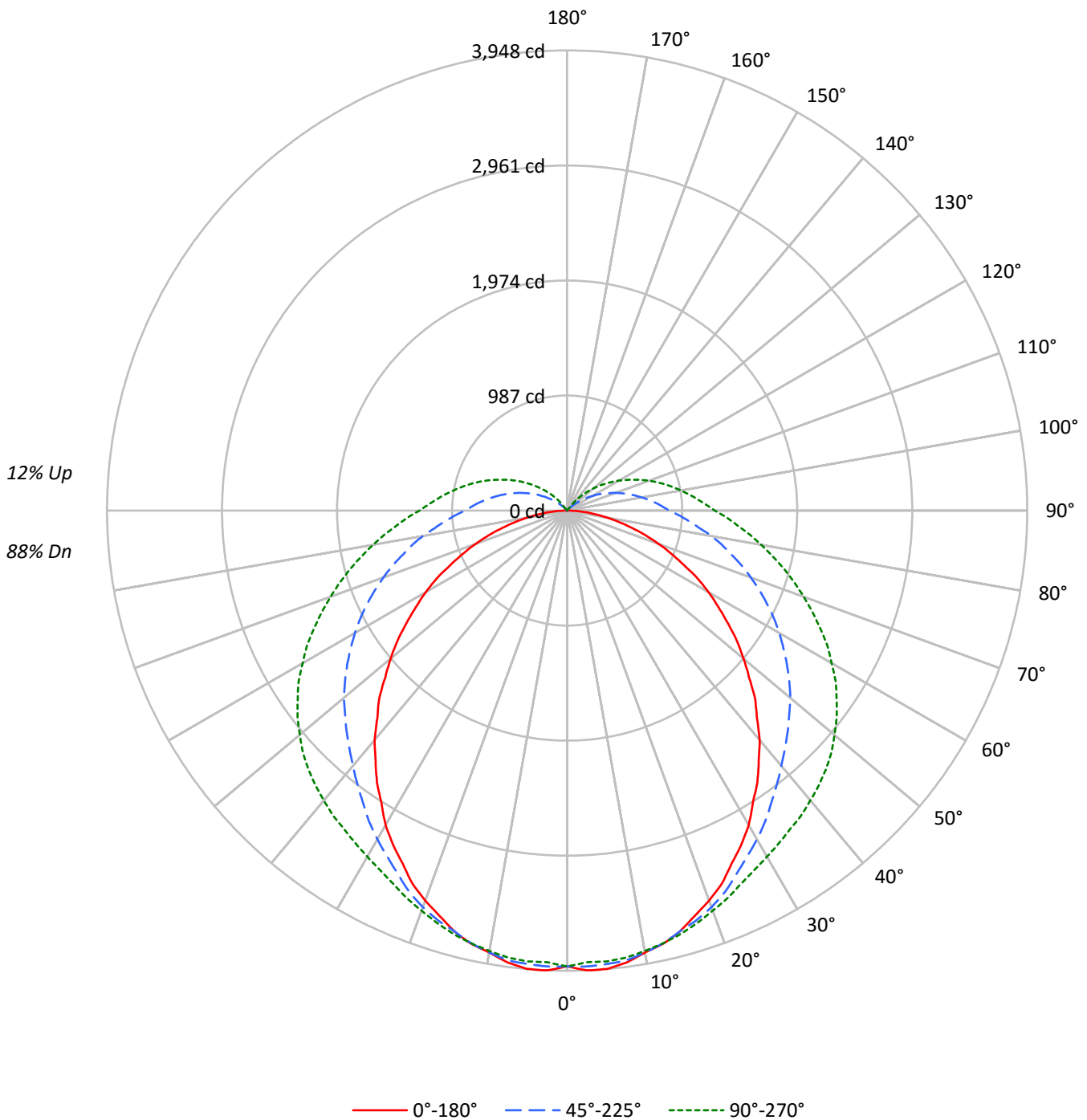
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15307	15307	15307
5°	15500	14919	14672
10°	15278	14466	14115
15°	15111	13924	13586
20°	14783	13476	13058
25°	14369	12883	12587
30°	14014	12378	12278
35°	13514	11877	12091
40°	13035	11460	12011
45°	12512	11163	11948
50°	11911	10947	11829
55°	11338	10709	11677
60°	10810	10501	11480
65°	10025	10294	11241
70°	9348	10103	10984
75°	8419	9919	10796
80°	7427	9913	10655
85°	6300	9952	10635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	2.5
10°-20°	1053.3	7.0
20°-30°	1580.3	10.5
30°-40°	1918.7	12.7
40°-50°	2072.4	13.7
50°-60°	2029.7	13.4
60°-70°	1800.3	11.9
70°-80°	1442.1	9.5
80°-90°	1045.1	6.9
90°-100°	736.6	4.9
100°-110°	513.8	3.4
110°-120°	318.1	2.1
120°-130°	161.8	1.1
130°-140°	56.0	0.4
140°-150°	2.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3003.9	19.9
0°-40°	4922.7	32.6
0°-60°	9024.8	59.8
0°-90°	13312.3	88.2
90°-120°	1568.5	10.4
90°-150°	1789.0	11.8
90°-180°	1789.0	11.8
0°-180°	15101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3911	3911	3911	3911	3911	
5°	3948	3911	3906	3887	3883	373
15°	3738	3710	3738	3770	3761	1051
25°	3341	3350	3439	3495	3532	1542
35°	2845	2864	3056	3238	3336	1777
45°	2280	2341	2677	3009	3140	1752
55°	1682	1822	2303	2682	2822	1508
65°	1103	1364	1892	2257	2397	1101
75°	575	939	1458	1808	1925	614
85°	154	575	1051	1364	1467	166
90°	5	420	874	1163	1266	12
95°	0	332	762	1033	1121	0
105°	0	178	547	790	869	0
115°	0	56	346	556	626	0
125°	0	0	168	341	402	0
135°	0	0	28	150	196	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°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	3948.0	3943.3	3929.3	3915.3	3910.6	3910.6	3905.9	3901.3	3901.3	3896.6	3915.3
5°	3948.0	3943.3	3929.3	3910.6	3905.9	3910.6	3905.9	3896.6	3896.6	3891.9	3905.9
7.5°	3910.6	3901.3	3891.9	3877.9	3873.2	3873.2	3868.6	3868.6	3868.6	3868.6	3891.9
10°	3849.9	3845.2	3835.9	3821.8	3821.8	3817.2	3817.2	3821.8	3821.8	3826.5	3849.9
12.5°	3807.8	3798.5	3784.5	3770.5	3765.8	3765.8	3761.1	3756.4	3761.1	3765.8	3803.2
15°	3737.7	3733.1	3723.7	3709.7	3709.7	3709.7	3709.7	3705.0	3705.0	3709.7	3737.7
17.5°	3644.3	3635.0	3630.3	3620.9	3625.6	3630.3	3635.0	3630.3	3639.6	3653.6	3686.4
20°	3560.2	3550.9	3541.5	3527.5	3527.5	3532.2	3536.8	3536.8	3560.2	3578.9	3620.9
22.5°	3466.8	3462.1	3452.7	3448.1	3448.1	3452.7	3452.7	3443.4	3457.4	3485.5	3541.5
25°	3340.6	3335.9	3331.3	3331.3	3340.6	3350.0	3354.6	3359.3	3373.3	3392.0	3438.7
27.5°	3233.2	3228.5	3219.1	3209.8	3219.1	3228.5	3233.2	3242.5	3270.5	3307.9	3345.3
30°	3116.3	3111.7	3107.0	3107.0	3116.3	3121.0	3125.7	3121.0	3158.4	3214.5	3256.5
32.5°	2966.8	2962.2	2966.8	2966.8	2990.2	3004.2	3013.6	3018.2	3050.9	3102.3	3163.1
35°	2845.4	2845.4	2840.7	2850.0	2854.7	2864.0	2873.4	2896.8	2943.5	2994.9	3055.6
37.5°	2700.5	2700.5	2700.5	2723.9	2742.6	2747.2	2751.9	2780.0	2840.7	2892.1	2957.5
40°	2569.7	2569.7	2569.7	2579.0	2593.1	2607.1	2625.8	2658.5	2719.2	2794.0	2859.4
42.5°	2410.8	2415.5	2424.9	2448.2	2466.9	2476.3	2490.3	2541.7	2607.1	2695.9	2765.9
45°	2280.0	2275.4	2284.7	2303.4	2322.1	2340.8	2364.1	2420.2	2499.6	2597.7	2677.2
47.5°	2116.5	2121.2	2130.5	2163.2	2186.6	2209.9	2238.0	2303.4	2396.8	2494.9	2583.7
50°	1976.3	1981.0	2004.4	2023.1	2046.4	2074.5	2107.2	2191.3	2294.0	2392.2	2499.6
52.5°	1836.2	1840.8	1859.5	1873.5	1910.9	1943.6	1985.7	2079.1	2186.6	2294.0	2401.5
55°	1682.0	1691.3	1705.3	1738.1	1784.8	1822.2	1868.9	1971.7	2079.1	2195.9	2303.4
57.5°	1537.1	1541.8	1565.2	1597.9	1654.0	1700.7	1756.7	1864.2	1981.0	2093.1	2200.6
60°	1401.7	1411.0	1425.0	1467.1	1541.8	1588.5	1644.6	1756.7	1878.2	1990.4	2102.5
62.5°	1261.5	1270.8	1289.5	1336.2	1425.0	1476.4	1537.1	1654.0	1775.4	1887.6	1999.7
65°	1102.6	1112.0	1140.0	1200.8	1308.2	1364.3	1425.0	1546.5	1663.3	1780.1	1892.2
67.5°	967.1	971.8	1009.2	1074.6	1186.7	1256.8	1322.2	1439.0	1555.8	1672.6	1784.8
70°	836.3	845.7	873.7	962.5	1083.9	1140.0	1210.1	1336.2	1453.0	1569.9	1677.3
72.5°	705.5	714.8	756.9	855.0	981.2	1041.9	1098.0	1233.5	1350.3	1462.4	1569.9
75°	574.7	588.7	644.8	756.9	878.4	939.1	999.8	1121.3	1247.5	1354.9	1457.7
77.5°	457.9	471.9	542.0	658.8	780.3	841.0	901.7	1018.5	1135.3	1252.1	1359.6
80°	345.7	364.4	448.5	565.3	686.8	747.5	803.6	925.1	1037.2	1144.7	1256.8
82.5°	247.6	271.0	369.1	481.2	602.7	658.8	714.8	831.6	943.8	1046.6	1144.7
85°	154.2	196.2	294.3	401.8	518.6	574.7	630.7	747.5	855.0	957.8	1051.2
87.5°	74.8	130.8	224.3	327.1	439.2	495.3	551.3	663.5	766.2	869.0	962.5
90°	4.7	74.8	158.9	257.0	369.1	420.5	476.6	584.0	686.8	784.9	873.7
92.5°	0.0	46.7	126.1	219.6	322.4	378.4	429.8	537.3	635.4	733.5	817.6
95°	0.0	23.4	98.1	186.9	285.0	331.7	383.1	485.9	584.0	677.5	761.6
97.5°	0.0	4.7	70.1	149.5	243.0	294.3	341.1	439.2	537.3	626.1	705.5
100°	0.0	0.0	46.7	121.5	205.6	252.3	299.0	392.5	485.9	570.0	649.4
102.5°	0.0	0.0	23.4	93.4	172.9	214.9	257.0	350.4	439.2	523.3	598.0
105°	0.0	0.0	4.7	65.4	140.2	177.5	219.6	303.7	392.5	471.9	546.6
107.5°	0.0	0.0	0.0	37.4	107.5	144.8	182.2	261.6	345.7	420.5	490.6
110°	0.0	0.0	0.0	18.7	79.4	112.1	149.5	224.3	299.0	373.8	443.9



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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	4.7	51.4	84.1	116.8	186.9	257.0	327.1	392.5
115°	0.0	0.0	0.0	0.0	28.0	56.1	84.1	149.5	214.9	285.0	345.7
117.5°	0.0	0.0	0.0	0.0	9.3	32.7	56.1	116.8	177.5	238.3	299.0
120°	0.0	0.0	0.0	0.0	0.0	14.0	32.7	84.1	140.2	196.2	252.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.3	51.4	102.8	158.9	210.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	70.1	121.5	168.2
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	42.0	84.1	126.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	51.4	88.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	28.0	56.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	28.0
137.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
140°	4.7	4.7	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°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	3929.3	3910.6	3910.6	3905.9	3901.3	3896.6	3887.3	3882.6	3873.2	3877.9
5°	3920.0	3901.3	3901.3	3891.9	3887.3	3887.3	3882.6	3882.6	3877.9	3882.6
7.5°	3905.9	3882.6	3882.6	3873.2	3868.6	3863.9	3863.9	3863.9	3863.9	3868.6
10°	3868.6	3854.6	3854.6	3849.9	3845.2	3835.9	3831.2	3835.9	3831.2	3835.9
12.5°	3817.2	3803.2	3812.5	3812.5	3812.5	3803.2	3798.5	3803.2	3798.5	3803.2
15°	3751.8	3747.1	3761.1	3765.8	3770.5	3765.8	3761.1	3761.1	3761.1	3761.1
17.5°	3686.4	3681.7	3700.4	3709.7	3709.7	3709.7	3709.7	3705.0	3705.0	3709.7
20°	3630.3	3611.6	3620.9	3639.6	3644.3	3644.3	3649.0	3653.6	3653.6	3653.6
22.5°	3550.9	3541.5	3546.2	3560.2	3569.6	3574.2	3588.2	3588.2	3592.9	3597.6
25°	3457.4	3471.4	3476.1	3490.1	3494.8	3504.1	3522.8	3532.2	3532.2	3532.2
27.5°	3359.3	3387.3	3406.0	3415.4	3424.7	3434.1	3457.4	3476.1	3476.1	3476.1
30°	3265.9	3293.9	3331.3	3350.0	3359.3	3368.6	3401.4	3424.7	3429.4	3429.4
32.5°	3167.7	3205.1	3261.2	3289.2	3293.9	3307.9	3350.0	3378.0	3382.7	3382.7
35°	3083.6	3130.4	3191.1	3228.5	3237.8	3251.8	3298.6	3331.3	3335.9	3335.9
37.5°	3008.9	3055.6	3121.0	3172.4	3181.8	3200.4	3247.2	3289.2	3293.9	3298.6
40°	2924.8	2980.9	3046.3	3107.0	3125.7	3144.4	3195.8	3237.8	3247.2	3247.2
42.5°	2840.7	2910.8	2976.2	3046.3	3069.6	3088.3	3144.4	3186.4	3195.8	3195.8
45°	2751.9	2840.7	2906.1	2980.9	3008.9	3027.6	3079.0	3125.7	3139.7	3139.7
47.5°	2672.5	2765.9	2831.3	2906.1	2934.1	2962.2	3008.9	3055.6	3069.6	3074.3
50°	2583.7	2686.5	2751.9	2822.0	2859.4	2887.4	2934.1	2985.5	2999.5	2994.9
52.5°	2494.9	2593.1	2663.1	2737.9	2775.3	2803.3	2845.4	2901.4	2915.4	2915.4
55°	2401.5	2499.6	2574.4	2644.5	2681.8	2719.2	2761.3	2808.0	2826.7	2822.0
57.5°	2308.1	2396.8	2476.3	2551.0	2583.7	2621.1	2663.1	2709.9	2723.9	2733.2
60°	2209.9	2289.4	2378.1	2448.2	2480.9	2518.3	2560.4	2602.4	2625.8	2621.1
62.5°	2102.5	2191.3	2275.4	2340.8	2373.5	2410.8	2452.9	2490.3	2509.0	2518.3
65°	1995.0	2079.1	2158.5	2228.6	2256.7	2294.0	2340.8	2368.8	2392.2	2396.8
67.5°	1882.9	1967.0	2046.4	2121.2	2149.2	2181.9	2224.0	2252.0	2275.4	2280.0
70°	1770.8	1859.5	1939.0	2009.0	2037.1	2065.1	2107.2	2135.2	2158.5	2158.5
72.5°	1663.3	1752.1	1826.8	1896.9	1924.9	1948.3	1990.4	2018.4	2037.1	2041.7
75°	1555.8	1639.9	1714.7	1784.8	1808.1	1836.2	1873.5	1901.6	1920.3	1924.9
77.5°	1448.4	1537.1	1607.2	1672.6	1696.0	1719.4	1761.4	1784.8	1803.5	1803.5
80°	1345.6	1429.7	1499.8	1560.5	1579.2	1607.2	1644.6	1668.0	1682.0	1691.3
82.5°	1247.5	1326.9	1392.3	1448.4	1476.4	1495.1	1532.5	1555.8	1569.9	1579.2
85°	1140.0	1224.1	1289.5	1345.6	1364.3	1392.3	1425.0	1448.4	1462.4	1467.1
87.5°	1041.9	1116.7	1182.1	1247.5	1270.8	1289.5	1322.2	1345.6	1359.6	1369.0
90°	957.8	1027.9	1088.6	1140.0	1163.4	1186.7	1224.1	1247.5	1261.5	1266.2
92.5°	897.1	967.1	1023.2	1074.6	1098.0	1116.7	1149.4	1172.7	1186.7	1191.4
95°	841.0	906.4	962.5	1013.9	1032.6	1051.2	1083.9	1102.6	1112.0	1121.3
97.5°	780.3	850.3	901.7	948.5	971.8	985.8	1018.5	1037.2	1051.2	1055.9
100°	724.2	789.6	841.0	892.4	911.1	925.1	957.8	976.5	985.8	990.5
102.5°	668.1	733.5	784.9	831.6	850.3	864.4	892.4	911.1	925.1	929.8
105°	612.1	672.8	724.2	770.9	789.6	803.6	831.6	850.3	864.4	869.0
107.5°	560.7	616.7	668.1	710.2	728.9	742.9	770.9	789.6	803.6	808.3
110°	509.3	560.7	612.1	654.1	672.8	686.8	714.8	728.9	742.9	747.5



TEST NUMBER: P257105

CATALOG NUMBER: HGL-S-UF-50L835-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	453.2	509.3	556.0	598.0	612.1	630.7	654.1	672.8	682.1	686.8
115°	406.5	457.9	499.9	542.0	556.0	570.0	598.0	612.1	626.1	626.1
117.5°	355.1	401.8	448.5	485.9	499.9	513.9	542.0	556.0	565.3	570.0
120°	308.4	350.4	392.5	429.8	448.5	457.9	485.9	499.9	509.3	513.9
122.5°	261.6	303.7	345.7	378.4	392.5	406.5	429.8	443.9	453.2	457.9
125°	214.9	257.0	294.3	327.1	341.1	355.1	373.8	387.8	397.1	401.8
127.5°	172.9	210.2	247.6	275.7	289.7	303.7	322.4	336.4	345.7	350.4
130°	130.8	163.5	200.9	228.9	243.0	252.3	271.0	285.0	294.3	299.0
132.5°	88.8	121.5	154.2	182.2	196.2	205.6	224.3	233.6	243.0	247.6
135°	56.1	84.1	112.1	135.5	149.5	158.9	177.5	186.9	196.2	196.2
137.5°	28.0	51.4	74.8	93.4	102.8	116.8	130.8	140.2	144.8	149.5
140°	9.3	23.4	42.0	56.1	65.4	74.8	88.8	98.1	102.8	107.5
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)