

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: P257110

Luminaire Tested: **HGL-S-UF-50L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257110
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-50L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

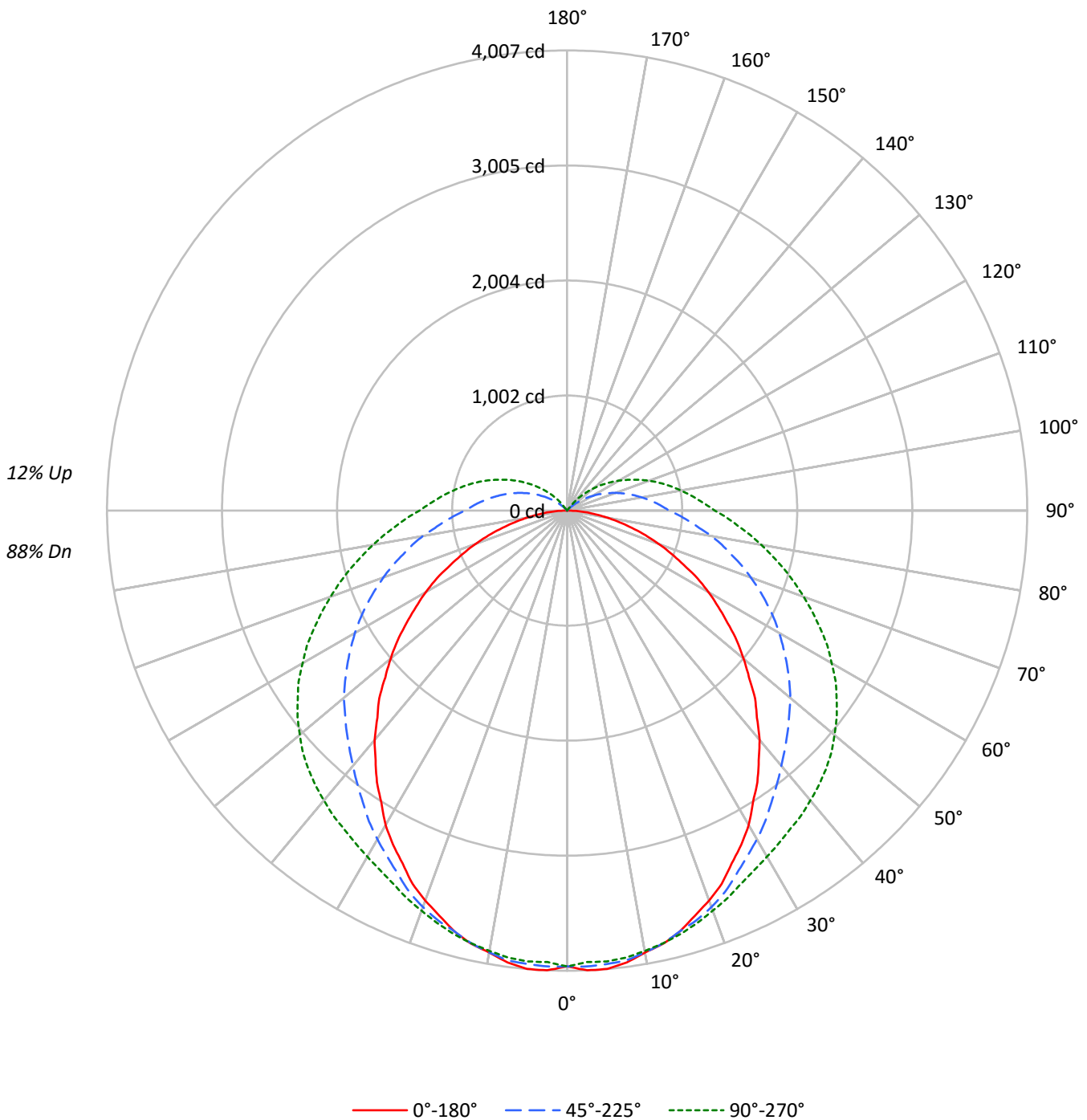
Lumens per Lamp: N/A
Luminaire Lumens: 15326.2 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

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



TEST NUMBER: P257110
CATALOG NUMBER: HGL-S-UF-50L840-UNV-12

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	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°	15535	15535	15535
5°	15731	15141	14890
10°	15506	14681	14325
15°	15336	14131	13788
20°	15003	13677	13253
25°	14583	13075	12774
30°	14224	12562	12461
35°	13715	12053	12272
40°	13229	11631	12189
45°	12699	11329	12127
50°	12089	11110	12005
55°	11506	10869	11851
60°	10971	10658	11651
65°	10175	10447	11408
70°	9488	10254	11148
75°	8543	10067	10957
80°	7538	10061	10814
85°	6394	10100	10793



TEST NUMBER: P257110

CATALOG NUMBER: HGL-S-UF-50L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	2.5
10°-20°	1068.9	7.0
20°-30°	1603.9	10.5
30°-40°	1947.3	12.7
40°-50°	2103.3	13.7
50°-60°	2059.9	13.4
60°-70°	1827.1	11.9
70°-80°	1463.6	9.5
80°-90°	1060.7	6.9
90°-100°	747.6	4.9
100°-110°	521.5	3.4
110°-120°	322.8	2.1
120°-130°	164.2	1.1
130°-140°	56.9	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°	3048.7	19.9
0°-40°	4996.0	32.6
0°-60°	9159.2	59.8
0°-90°	13510.6	88.2
90°-120°	1591.9	10.4
90°-150°	1815.6	11.8
90°-180°	1816.0	11.8
0°-180°	15326.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3969	3969	3969	3969	3969	
5°	4007	3969	3964	3945	3940	379
15°	3793	3765	3793	3827	3817	1067
25°	3390	3400	3490	3547	3585	1565
35°	2888	2907	3101	3286	3386	1803
45°	2314	2376	2717	3054	3186	1778
55°	1707	1849	2338	2722	2864	1530
65°	1119	1385	1920	2290	2432	1117
75°	583	953	1479	1835	1954	623
85°	156	583	1067	1385	1489	169
90°	5	427	887	1181	1285	12
95°	0	337	773	1048	1138	0
105°	0	180	555	801	882	0
115°	0	57	351	564	635	0
125°	0	0	171	346	408	0
135°	0	0	28	152	199	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: P257110

CATALOG NUMBER: HGL-S-UF-50L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
2.5°	4006.8	4002.0	3987.8	3973.6	3968.9	3968.9	3964.1	3959.4	3959.4	3954.6	3973.6
5°	4006.8	4002.0	3987.8	3968.9	3964.1	3968.9	3964.1	3954.6	3954.6	3949.9	3964.1
7.5°	3968.9	3959.4	3949.9	3935.7	3930.9	3930.9	3926.2	3926.2	3926.2	3926.2	3949.9
10°	3907.2	3902.5	3893.0	3878.8	3878.8	3874.0	3874.0	3878.8	3878.8	3883.5	3907.2
12.5°	3864.5	3855.1	3840.8	3826.6	3821.9	3821.9	3817.1	3812.4	3817.1	3821.9	3859.8
15°	3793.4	3788.7	3779.2	3765.0	3765.0	3765.0	3765.0	3760.2	3760.2	3765.0	3793.4
17.5°	3698.6	3689.1	3684.4	3674.9	3679.6	3684.4	3689.1	3684.4	3693.8	3708.1	3741.3
20°	3613.2	3603.7	3594.3	3580.0	3580.0	3584.8	3589.5	3589.5	3613.2	3632.2	3674.9
22.5°	3518.4	3513.6	3504.2	3499.4	3499.4	3504.2	3504.2	3494.7	3508.9	3537.4	3594.3
25°	3390.4	3385.6	3380.9	3380.9	3390.4	3399.8	3404.6	3409.3	3423.6	3442.5	3489.9
27.5°	3281.3	3276.6	3267.1	3257.6	3267.1	3276.6	3281.3	3290.8	3319.2	3357.2	3395.1
30°	3162.8	3158.0	3153.3	3153.3	3162.8	3167.5	3172.2	3167.5	3205.4	3262.3	3305.0
32.5°	3011.0	3006.3	3011.0	3011.0	3034.7	3049.0	3058.4	3063.2	3096.4	3148.5	3210.2
35°	2887.7	2887.7	2883.0	2892.5	2897.2	2906.7	2916.2	2939.9	2987.3	3039.5	3101.1
37.5°	2740.7	2740.7	2740.7	2764.4	2783.4	2788.2	2792.9	2821.3	2883.0	2935.2	3001.5
40°	2608.0	2608.0	2608.0	2617.5	2631.7	2645.9	2664.9	2698.1	2759.7	2835.6	2902.0
42.5°	2446.8	2451.5	2461.0	2484.7	2503.7	2513.1	2527.4	2579.5	2645.9	2736.0	2807.1
45°	2314.0	2309.2	2318.7	2337.7	2356.7	2375.6	2399.3	2456.2	2536.8	2636.4	2717.0
47.5°	2148.0	2152.8	2162.2	2195.4	2219.1	2242.9	2271.3	2337.7	2432.5	2532.1	2622.2
50°	2005.8	2010.5	2034.2	2053.2	2076.9	2105.3	2138.5	2223.9	2328.2	2427.8	2536.8
52.5°	1863.5	1868.3	1887.2	1901.4	1939.4	1972.6	2015.2	2110.1	2219.1	2328.2	2437.3
55°	1707.0	1716.5	1730.7	1763.9	1811.4	1849.3	1896.7	2001.0	2110.1	2228.6	2337.7
57.5°	1560.0	1564.8	1588.5	1621.7	1678.6	1726.0	1782.9	1892.0	2010.5	2124.3	2233.4
60°	1422.5	1432.0	1446.2	1488.9	1564.8	1612.2	1669.1	1782.9	1906.2	2020.0	2133.8
62.5°	1280.3	1289.8	1308.7	1356.1	1446.2	1498.4	1560.0	1678.6	1801.9	1915.7	2029.5
65°	1119.1	1128.5	1157.0	1218.6	1327.7	1384.6	1446.2	1569.5	1688.1	1806.6	1920.4
67.5°	981.5	986.3	1024.2	1090.6	1204.4	1275.5	1341.9	1460.5	1579.0	1697.6	1811.4
70°	848.8	858.3	886.7	976.8	1100.1	1157.0	1228.1	1356.1	1474.7	1593.2	1702.3
72.5°	716.0	725.5	768.2	867.7	995.8	1057.4	1114.3	1251.8	1370.4	1484.2	1593.2
75°	583.2	597.5	654.4	768.2	891.5	953.1	1014.7	1138.0	1266.1	1375.1	1479.4
77.5°	464.7	478.9	550.0	668.6	791.9	853.5	915.2	1033.7	1152.2	1270.8	1379.9
80°	350.9	369.9	455.2	573.8	697.0	758.7	815.6	938.9	1052.7	1161.7	1275.5
82.5°	251.3	275.0	374.6	488.4	611.7	668.6	725.5	844.0	957.8	1062.2	1161.7
85°	156.5	199.2	298.7	407.8	526.3	583.2	640.1	758.7	867.7	972.1	1066.9
87.5°	75.9	132.8	227.6	331.9	445.7	502.6	559.5	673.3	777.6	882.0	976.8
90°	4.7	75.9	161.2	260.8	374.6	426.8	483.7	592.7	697.0	796.6	886.7
92.5°	0.0	47.4	128.0	222.9	327.2	384.1	436.2	545.3	644.9	744.5	829.8
95°	0.0	23.7	99.6	189.7	289.2	336.7	388.8	493.1	592.7	687.6	772.9
97.5°	0.0	4.7	71.1	151.7	246.6	298.7	346.1	445.7	545.3	635.4	716.0
100°	0.0	0.0	47.4	123.3	208.6	256.1	303.5	398.3	493.1	578.5	659.1
102.5°	0.0	0.0	23.7	94.8	175.4	218.1	260.8	355.6	445.7	531.1	606.9
105°	0.0	0.0	4.7	66.4	142.3	180.2	222.9	308.2	398.3	478.9	554.8
107.5°	0.0	0.0	0.0	37.9	109.1	147.0	184.9	265.5	350.9	426.8	497.9
110°	0.0	0.0	0.0	19.0	80.6	113.8	151.7	227.6	303.5	379.3	450.5



TEST NUMBER: P257110

CATALOG NUMBER: HGL-S-UF-50L840-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	4.7	52.2	85.4	118.5	189.7	260.8	331.9	398.3
115°	0.0	0.0	0.0	0.0	28.5	56.9	85.4	151.7	218.1	289.2	350.9
117.5°	0.0	0.0	0.0	0.0	9.5	33.2	56.9	118.5	180.2	241.8	303.5
120°	0.0	0.0	0.0	0.0	0.0	14.2	33.2	85.4	142.3	199.2	256.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	52.2	104.3	161.2	213.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	71.1	123.3	170.7
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	42.7	85.4	128.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	52.2	90.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	28.5	56.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	28.5
137.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5
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



TEST NUMBER: P257110

CATALOG NUMBER: HGL-S-UF-50L840-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
2.5°	3987.8	3968.9	3968.9	3964.1	3959.4	3954.6	3945.1	3940.4	3930.9	3935.7
5°	3978.3	3959.4	3959.4	3949.9	3945.1	3945.1	3940.4	3940.4	3935.7	3940.4
7.5°	3964.1	3940.4	3940.4	3930.9	3926.2	3921.4	3921.4	3921.4	3921.4	3926.2
10°	3926.2	3912.0	3912.0	3907.2	3902.5	3893.0	3888.2	3893.0	3888.2	3893.0
12.5°	3874.0	3859.8	3869.3	3869.3	3869.3	3859.8	3855.1	3859.8	3855.1	3859.8
15°	3807.6	3802.9	3817.1	3821.9	3826.6	3821.9	3817.1	3817.1	3817.1	3817.1
17.5°	3741.3	3736.5	3755.5	3765.0	3765.0	3765.0	3765.0	3760.2	3760.2	3765.0
20°	3684.4	3665.4	3674.9	3693.8	3698.6	3698.6	3703.3	3708.1	3708.1	3708.1
22.5°	3603.7	3594.3	3599.0	3613.2	3622.7	3627.4	3641.7	3641.7	3646.4	3651.2
25°	3508.9	3523.1	3527.9	3542.1	3546.8	3556.3	3575.3	3584.8	3584.8	3584.8
27.5°	3409.3	3437.8	3456.7	3466.2	3475.7	3485.2	3508.9	3527.9	3527.9	3527.9
30°	3314.5	3342.9	3380.9	3399.8	3409.3	3418.8	3452.0	3475.7	3480.5	3480.5
32.5°	3214.9	3252.9	3309.8	3338.2	3342.9	3357.2	3399.8	3428.3	3433.0	3433.0
35°	3129.6	3177.0	3238.6	3276.6	3286.0	3300.3	3347.7	3380.9	3385.6	3385.6
37.5°	3053.7	3101.1	3167.5	3219.7	3229.1	3248.1	3295.5	3338.2	3342.9	3347.7
40°	2968.3	3025.2	3091.6	3153.3	3172.2	3191.2	3243.4	3286.0	3295.5	3295.5
42.5°	2883.0	2954.1	3020.5	3091.6	3115.3	3134.3	3191.2	3233.9	3243.4	3243.4
45°	2792.9	2883.0	2949.4	3025.2	3053.7	3072.7	3124.8	3172.2	3186.5	3186.5
47.5°	2712.3	2807.1	2873.5	2949.4	2977.8	3006.3	3053.7	3101.1	3115.3	3120.1
50°	2622.2	2726.5	2792.9	2864.0	2902.0	2930.4	2977.8	3030.0	3044.2	3039.5
52.5°	2532.1	2631.7	2702.8	2778.7	2816.6	2845.1	2887.7	2944.6	2958.9	2958.9
55°	2437.3	2536.8	2612.7	2683.8	2721.8	2759.7	2802.4	2849.8	2868.8	2864.0
57.5°	2342.4	2432.5	2513.1	2589.0	2622.2	2660.1	2702.8	2750.2	2764.4	2773.9
60°	2242.9	2323.5	2413.6	2484.7	2517.9	2555.8	2598.5	2641.2	2664.9	2660.1
62.5°	2133.8	2223.9	2309.2	2375.6	2408.8	2446.8	2489.4	2527.4	2546.3	2555.8
65°	2024.7	2110.1	2190.7	2261.8	2290.3	2328.2	2375.6	2404.1	2427.8	2432.5
67.5°	1910.9	1996.3	2076.9	2152.8	2181.2	2214.4	2257.1	2285.5	2309.2	2314.0
70°	1797.1	1887.2	1967.8	2039.0	2067.4	2095.9	2138.5	2167.0	2190.7	2190.7
72.5°	1688.1	1778.2	1854.0	1925.2	1953.6	1977.3	2020.0	2048.4	2067.4	2072.2
75°	1579.0	1664.4	1740.2	1811.4	1835.1	1863.5	1901.4	1929.9	1948.9	1953.6
77.5°	1469.9	1560.0	1631.2	1697.6	1721.3	1745.0	1787.6	1811.4	1830.3	1830.3
80°	1365.6	1451.0	1522.1	1583.7	1602.7	1631.2	1669.1	1692.8	1707.0	1716.5
82.5°	1266.1	1346.7	1413.0	1469.9	1498.4	1517.4	1555.3	1579.0	1593.2	1602.7
85°	1157.0	1242.3	1308.7	1365.6	1384.6	1413.0	1446.2	1469.9	1484.2	1488.9
87.5°	1057.4	1133.3	1199.7	1266.1	1289.8	1308.7	1341.9	1365.6	1379.9	1389.3
90°	972.1	1043.2	1104.8	1157.0	1180.7	1204.4	1242.3	1266.1	1280.3	1285.0
92.5°	910.4	981.5	1038.4	1090.6	1114.3	1133.3	1166.5	1190.2	1204.4	1209.1
95°	853.5	919.9	976.8	1029.0	1047.9	1066.9	1100.1	1119.1	1128.5	1138.0
97.5°	791.9	863.0	915.2	962.6	986.3	1000.5	1033.7	1052.7	1066.9	1071.6
100°	735.0	801.4	853.5	905.7	924.6	938.9	972.1	991.0	1000.5	1005.3
102.5°	678.1	744.5	796.6	844.0	863.0	877.2	905.7	924.6	938.9	943.6
105°	621.2	682.8	735.0	782.4	801.4	815.6	844.0	863.0	877.2	882.0
107.5°	569.0	625.9	678.1	720.7	739.7	753.9	782.4	801.4	815.6	820.3
110°	516.9	569.0	621.2	663.8	682.8	697.0	725.5	739.7	753.9	758.7



TEST NUMBER: P257110

CATALOG NUMBER: HGL-S-UF-50L840-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	460.0	516.9	564.3	606.9	621.2	640.1	663.8	682.8	692.3	697.0
115°	412.5	464.7	507.4	550.0	564.3	578.5	606.9	621.2	635.4	635.4
117.5°	360.4	407.8	455.2	493.1	507.4	521.6	550.0	564.3	573.8	578.5
120°	313.0	355.6	398.3	436.2	455.2	464.7	493.1	507.4	516.9	521.6
122.5°	265.5	308.2	350.9	384.1	398.3	412.5	436.2	450.5	460.0	464.7
125°	218.1	260.8	298.7	331.9	346.1	360.4	379.3	393.6	403.0	407.8
127.5°	175.4	213.4	251.3	279.8	294.0	308.2	327.2	341.4	350.9	355.6
130°	132.8	166.0	203.9	232.3	246.6	256.1	275.0	289.2	298.7	303.5
132.5°	90.1	123.3	156.5	184.9	199.2	208.6	227.6	237.1	246.6	251.3
135°	56.9	85.4	113.8	137.5	151.7	161.2	180.2	189.7	199.2	199.2
137.5°	28.5	52.2	75.9	94.8	104.3	118.5	132.8	142.3	147.0	151.7
140°	9.5	23.7	42.7	56.9	66.4	75.9	90.1	99.6	104.3	109.1
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)