

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: P257117

Luminaire Tested: **HGL-S-UF-80L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257117
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-80L930-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: 18265.3 lumens
Efficiency: N/A
Efficacy: 86.2 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

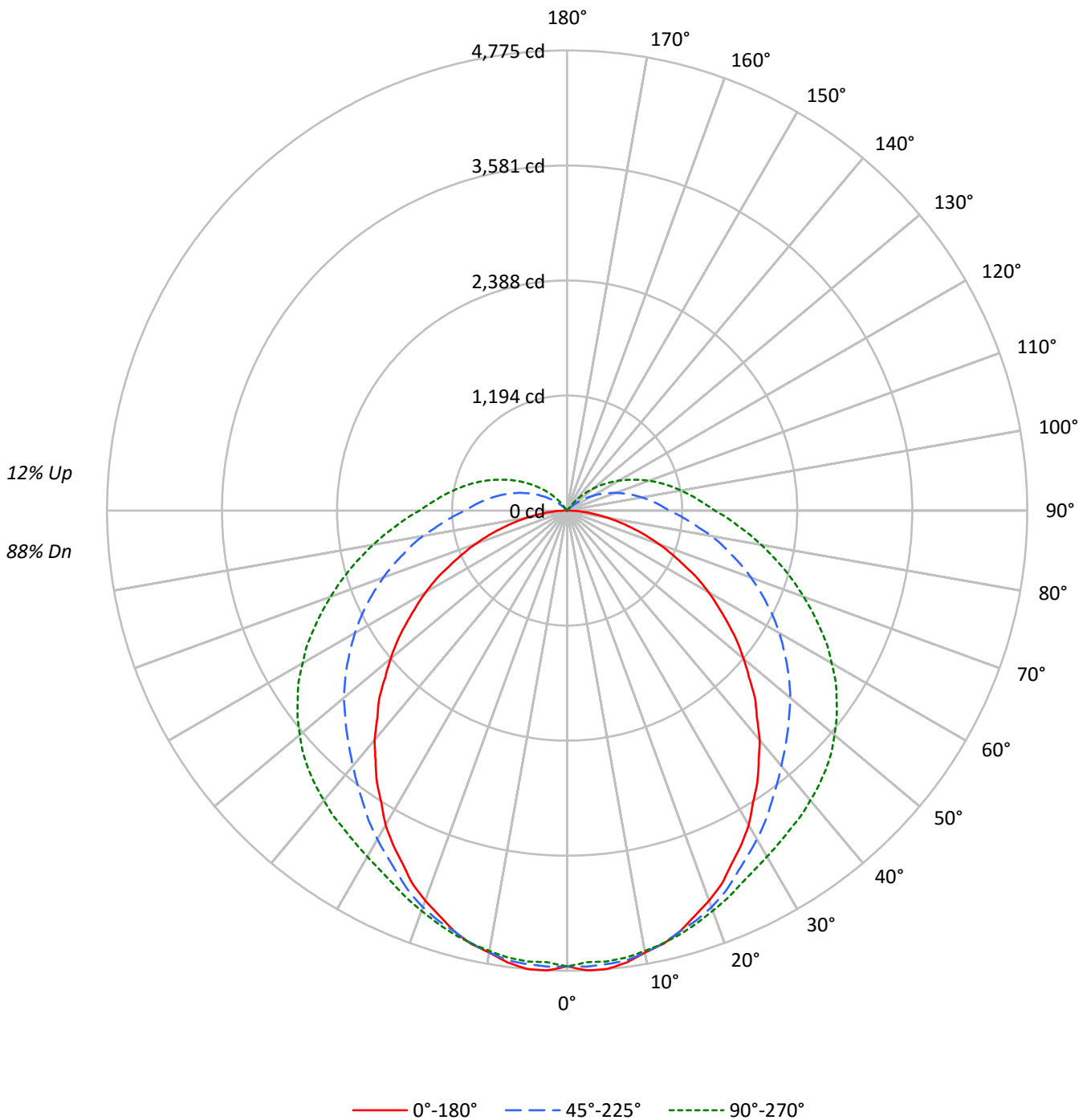
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	18514	18514	18514
5°	18748	18045	17746
10°	18479	17497	17072
15°	18277	16842	16433
20°	17880	16299	15794
25°	17380	15583	15224
30°	16951	14971	14850
35°	16345	14365	14625
40°	15766	13862	14527
45°	15134	13502	14452
50°	14407	13241	14308
55°	13713	12953	14124
60°	13075	12701	13886
65°	12127	12451	13596
70°	11306	12220	13286
75°	10182	11997	13059
80°	8984	11990	12888
85°	7620	12037	12862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	2.5
10°-20°	1273.9	7.0
20°-30°	1911.4	10.5
30°-40°	2320.7	12.7
40°-50°	2506.6	13.7
50°-60°	2455.0	13.4
60°-70°	2177.5	11.9
70°-80°	1744.2	9.5
80°-90°	1264.1	6.9
90°-100°	890.9	4.9
100°-110°	621.5	3.4
110°-120°	384.7	2.1
120°-130°	195.7	1.1
130°-140°	67.8	0.4
140°-150°	3.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3633.3	19.9
0°-40°	5954.1	32.6
0°-60°	10915.6	59.8
0°-90°	16101.5	88.2
90°-120°	1897.1	10.4
90°-150°	2163.8	11.8
90°-180°	2164.0	11.8
0°-180°	18265.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4730	4730	4730	4730	4730	
5°	4775	4730	4724	4702	4696	452
15°	4521	4487	4521	4560	4549	1271
25°	4040	4052	4159	4227	4272	1865
35°	3442	3464	3696	3916	4035	2149
45°	2758	2831	3238	3639	3798	2119
55°	2034	2204	2786	3244	3413	1824
65°	1334	1650	2289	2730	2899	1331
75°	695	1136	1763	2187	2328	743
85°	186	695	1272	1650	1774	201
90°	6	509	1057	1407	1531	14
95°	0	401	921	1249	1356	0
105°	0	215	661	955	1051	0
115°	0	68	418	672	757	0
125°	0	0	203	412	486	0
135°	0	0	34	181	237	3
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°	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0
2.5°	4775.2	4769.5	4752.6	4735.6	4730.0	4730.0	4724.3	4718.7	4718.7	4713.0	4735.6
5°	4775.2	4769.5	4752.6	4730.0	4724.3	4730.0	4724.3	4713.0	4713.0	4707.4	4724.3
7.5°	4730.0	4718.7	4707.4	4690.4	4684.8	4684.8	4679.1	4679.1	4679.1	4679.1	4707.4
10°	4656.5	4650.9	4639.6	4622.6	4622.6	4617.0	4617.0	4622.6	4622.6	4628.3	4656.5
12.5°	4605.7	4594.3	4577.4	4560.4	4554.8	4554.8	4549.1	4543.5	4549.1	4554.8	4600.0
15°	4520.9	4515.2	4503.9	4487.0	4487.0	4487.0	4487.0	4481.3	4481.3	4487.0	4520.9
17.5°	4407.9	4396.6	4390.9	4379.6	4385.3	4390.9	4396.6	4390.9	4402.2	4419.2	4458.7
20°	4306.1	4294.8	4283.5	4266.6	4266.6	4272.2	4277.9	4277.9	4306.1	4328.7	4379.6
22.5°	4193.1	4187.5	4176.2	4170.5	4170.5	4176.2	4176.2	4164.9	4181.8	4215.7	4283.5
25°	4040.5	4034.9	4029.2	4029.2	4040.5	4051.8	4057.5	4063.1	4080.1	4102.7	4159.2
27.5°	3910.6	3904.9	3893.6	3882.3	3893.6	3904.9	3910.6	3921.9	3955.8	4001.0	4046.2
30°	3769.3	3763.6	3758.0	3758.0	3769.3	3774.9	3780.6	3774.9	3820.1	3888.0	3938.8
32.5°	3588.5	3582.8	3588.5	3588.5	3616.7	3633.7	3645.0	3650.6	3690.2	3752.3	3825.8
35°	3441.5	3441.5	3435.9	3447.2	3452.8	3464.1	3475.4	3503.7	3560.2	3622.4	3695.8
37.5°	3266.3	3266.3	3266.3	3294.6	3317.2	3322.8	3328.5	3362.4	3435.9	3498.0	3577.1
40°	3108.1	3108.1	3108.1	3119.4	3136.4	3153.3	3175.9	3215.5	3288.9	3379.4	3458.5
42.5°	2916.0	2921.6	2932.9	2961.2	2983.8	2995.1	3012.0	3074.2	3153.3	3260.7	3345.5
45°	2757.7	2752.1	2763.4	2786.0	2808.6	2831.2	2859.5	2927.3	3023.3	3142.0	3238.1
47.5°	2560.0	2565.6	2576.9	2616.5	2644.7	2673.0	2706.9	2786.0	2899.0	3017.7	3125.1
50°	2390.4	2396.1	2424.3	2446.9	2475.2	2509.1	2548.6	2650.4	2774.7	2893.4	3023.3
52.5°	2220.9	2226.5	2249.1	2266.1	2311.3	2350.9	2401.7	2514.7	2644.7	2774.7	2904.7
55°	2034.4	2045.7	2062.7	2102.2	2158.7	2203.9	2260.4	2384.8	2514.7	2656.0	2786.0
57.5°	1859.2	1864.9	1893.1	1932.7	2000.5	2057.0	2124.8	2254.8	2396.1	2531.7	2661.7
60°	1695.3	1706.6	1723.6	1774.4	1864.9	1921.4	1989.2	2124.8	2271.7	2407.4	2543.0
62.5°	1525.8	1537.1	1559.7	1616.2	1723.6	1785.7	1859.2	2000.5	2147.4	2283.0	2418.7
65°	1333.7	1345.0	1378.9	1452.3	1582.3	1650.1	1723.6	1870.5	2011.8	2153.1	2288.7
67.5°	1169.8	1175.4	1220.6	1299.8	1435.4	1520.1	1599.3	1740.5	1881.8	2023.1	2158.7
70°	1011.5	1022.9	1056.8	1164.1	1311.1	1378.9	1463.6	1616.2	1757.5	1898.8	2028.7
72.5°	853.3	864.6	915.5	1034.2	1186.7	1260.2	1328.0	1491.9	1633.2	1768.8	1898.8
75°	695.1	712.0	779.9	915.5	1062.4	1135.9	1209.3	1356.3	1508.8	1638.8	1763.1
77.5°	553.8	570.8	655.5	796.8	943.7	1017.2	1090.7	1231.9	1373.2	1514.5	1644.5
80°	418.2	440.8	542.5	683.8	830.7	904.2	972.0	1118.9	1254.5	1384.5	1520.1
82.5°	299.5	327.8	446.4	582.1	729.0	796.8	864.6	1005.9	1141.5	1265.8	1384.5
85°	186.5	237.3	356.0	486.0	627.3	695.1	762.9	904.2	1034.2	1158.5	1271.5
87.5°	90.4	158.2	271.3	395.6	531.2	599.0	666.8	802.5	926.8	1051.1	1164.1
90°	5.7	90.4	192.1	310.8	446.4	508.6	576.4	706.4	830.7	949.4	1056.8
92.5°	0.0	56.5	152.6	265.6	389.9	457.7	519.9	649.9	768.6	887.2	988.9
95°	0.0	28.3	118.7	226.0	344.7	401.2	463.4	587.7	706.4	819.4	921.1
97.5°	0.0	5.7	84.8	180.8	293.9	356.0	412.5	531.2	649.9	757.2	853.3
100°	0.0	0.0	56.5	146.9	248.6	305.2	361.7	474.7	587.7	689.4	785.5
102.5°	0.0	0.0	28.3	113.0	209.1	260.0	310.8	423.8	531.2	632.9	723.3
105°	0.0	0.0	5.7	79.1	169.5	214.7	265.6	367.3	474.7	570.8	661.2
107.5°	0.0	0.0	0.0	45.2	130.0	175.2	220.4	316.5	418.2	508.6	593.4
110°	0.0	0.0	0.0	22.6	96.1	135.6	180.8	271.3	361.7	452.1	536.9



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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	5.7	62.2	101.7	141.3	226.0	310.8	395.6	474.7
115°	0.0	0.0	0.0	0.0	33.9	67.8	101.7	180.8	260.0	344.7	418.2
117.5°	0.0	0.0	0.0	0.0	11.3	39.6	67.8	141.3	214.7	288.2	361.7
120°	0.0	0.0	0.0	0.0	0.0	17.0	39.6	101.7	169.5	237.3	305.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	62.2	124.3	192.1	254.3
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	84.8	146.9	203.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	50.9	101.7	152.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	62.2	107.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	33.9	67.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	33.9
137.5°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
140°	5.7	5.7	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°	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0	4730.0
2.5°	4752.6	4730.0	4730.0	4724.3	4718.7	4713.0	4701.7	4696.1	4684.8	4690.4
5°	4741.3	4718.7	4718.7	4707.4	4701.7	4701.7	4696.1	4696.1	4690.4	4696.1
7.5°	4724.3	4696.1	4696.1	4684.8	4679.1	4673.5	4673.5	4673.5	4673.5	4679.1
10°	4679.1	4662.2	4662.2	4656.5	4650.9	4639.6	4633.9	4639.6	4633.9	4639.6
12.5°	4617.0	4600.0	4611.3	4611.3	4611.3	4600.0	4594.3	4600.0	4594.3	4600.0
15°	4537.8	4532.2	4549.1	4554.8	4560.4	4554.8	4549.1	4549.1	4549.1	4549.1
17.5°	4458.7	4453.1	4475.7	4487.0	4487.0	4487.0	4487.0	4481.3	4481.3	4487.0
20°	4390.9	4368.3	4379.6	4402.2	4407.9	4407.9	4413.5	4419.2	4419.2	4419.2
22.5°	4294.8	4283.5	4289.2	4306.1	4317.4	4323.1	4340.0	4340.0	4345.7	4351.4
25°	4181.8	4198.8	4204.4	4221.4	4227.0	4238.3	4260.9	4272.2	4272.2	4272.2
27.5°	4063.1	4097.1	4119.7	4131.0	4142.3	4153.6	4181.8	4204.4	4204.4	4204.4
30°	3950.1	3984.0	4029.2	4051.8	4063.1	4074.4	4114.0	4142.3	4147.9	4147.9
32.5°	3831.4	3876.7	3944.5	3978.4	3984.0	4001.0	4051.8	4085.7	4091.4	4091.4
35°	3729.7	3786.2	3859.7	3904.9	3916.2	3933.2	3989.7	4029.2	4034.9	4034.9
37.5°	3639.3	3695.8	3774.9	3837.1	3848.4	3871.0	3927.5	3978.4	3984.0	3989.7
40°	3537.6	3605.4	3684.5	3758.0	3780.6	3803.2	3865.4	3916.2	3927.5	3927.5
42.5°	3435.9	3520.6	3599.8	3684.5	3712.8	3735.4	3803.2	3854.1	3865.4	3865.4
45°	3328.5	3435.9	3515.0	3605.4	3639.3	3661.9	3724.1	3780.6	3797.5	3797.5
47.5°	3232.4	3345.5	3424.6	3515.0	3548.9	3582.8	3639.3	3695.8	3712.8	3718.4
50°	3125.1	3249.4	3328.5	3413.3	3458.5	3492.4	3548.9	3611.1	3628.0	3622.4
52.5°	3017.7	3136.4	3221.1	3311.5	3356.8	3390.7	3441.5	3509.3	3526.3	3526.3
55°	2904.7	3023.3	3113.8	3198.5	3243.7	3288.9	3339.8	3396.3	3418.9	3413.3
57.5°	2791.6	2899.0	2995.1	3085.5	3125.1	3170.3	3221.1	3277.6	3294.6	3305.9
60°	2673.0	2769.0	2876.4	2961.2	3000.7	3045.9	3096.8	3147.7	3175.9	3170.3
62.5°	2543.0	2650.4	2752.1	2831.2	2870.8	2916.0	2966.8	3012.0	3034.6	3045.9
65°	2413.0	2514.7	2610.8	2695.6	2729.5	2774.7	2831.2	2865.1	2893.4	2899.0
67.5°	2277.4	2379.1	2475.2	2565.6	2599.5	2639.1	2689.9	2723.8	2752.1	2757.7
70°	2141.8	2249.1	2345.2	2430.0	2463.9	2497.8	2548.6	2582.6	2610.8	2610.8
72.5°	2011.8	2119.2	2209.6	2294.3	2328.3	2356.5	2407.4	2441.3	2463.9	2469.5
75°	1881.8	1983.5	2074.0	2158.7	2187.0	2220.9	2266.1	2300.0	2322.6	2328.3
77.5°	1751.8	1859.2	1944.0	2023.1	2051.4	2079.6	2130.5	2158.7	2181.3	2181.3
80°	1627.5	1729.2	1814.0	1887.5	1910.1	1944.0	1989.2	2017.4	2034.4	2045.7
82.5°	1508.8	1604.9	1684.0	1751.8	1785.7	1808.4	1853.6	1881.8	1898.8	1910.1
85°	1378.9	1480.6	1559.7	1627.5	1650.1	1684.0	1723.6	1751.8	1768.8	1774.4
87.5°	1260.2	1350.6	1429.7	1508.8	1537.1	1559.7	1599.3	1627.5	1644.5	1655.8
90°	1158.5	1243.2	1316.7	1378.9	1407.1	1435.4	1480.6	1508.8	1525.8	1531.4
92.5°	1085.0	1169.8	1237.6	1299.8	1328.0	1350.6	1390.2	1418.4	1435.4	1441.0
95°	1017.2	1096.3	1164.1	1226.3	1248.9	1271.5	1311.1	1333.7	1345.0	1356.3
97.5°	943.7	1028.5	1090.7	1147.2	1175.4	1192.4	1231.9	1254.5	1271.5	1277.1
100°	875.9	955.0	1017.2	1079.4	1102.0	1118.9	1158.5	1181.1	1192.4	1198.0
102.5°	808.1	887.2	949.4	1005.9	1028.5	1045.5	1079.4	1102.0	1118.9	1124.6
105°	740.3	813.8	875.9	932.4	955.0	972.0	1005.9	1028.5	1045.5	1051.1
107.5°	678.1	745.9	808.1	859.0	881.6	898.5	932.4	955.0	972.0	977.6
110°	616.0	678.1	740.3	791.2	813.8	830.7	864.6	881.6	898.5	904.2



TEST NUMBER: P257117

CATALOG NUMBER: HGL-S-UF-80L930-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	548.2	616.0	672.5	723.3	740.3	762.9	791.2	813.8	825.1	830.7
115°	491.6	553.8	604.7	655.5	672.5	689.4	723.3	740.3	757.2	757.2
117.5°	429.5	486.0	542.5	587.7	604.7	621.6	655.5	672.5	683.8	689.4
120°	373.0	423.8	474.7	519.9	542.5	553.8	587.7	604.7	616.0	621.6
122.5°	316.5	367.3	418.2	457.7	474.7	491.6	519.9	536.9	548.2	553.8
125°	260.0	310.8	356.0	395.6	412.5	429.5	452.1	469.0	480.3	486.0
127.5°	209.1	254.3	299.5	333.4	350.4	367.3	389.9	406.9	418.2	423.8
130°	158.2	197.8	243.0	276.9	293.9	305.2	327.8	344.7	356.0	361.7
132.5°	107.4	146.9	186.5	220.4	237.3	248.6	271.3	282.6	293.9	299.5
135°	67.8	101.7	135.6	163.9	180.8	192.1	214.7	226.0	237.3	237.3
137.5°	33.9	62.2	90.4	113.0	124.3	141.3	158.2	169.5	175.2	180.8
140°	11.3	28.3	50.9	67.8	79.1	90.4	107.4	118.7	124.3	130.0
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)