

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: P257122

Luminaire Tested: **HGL-S-UF-80L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257122
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-80L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

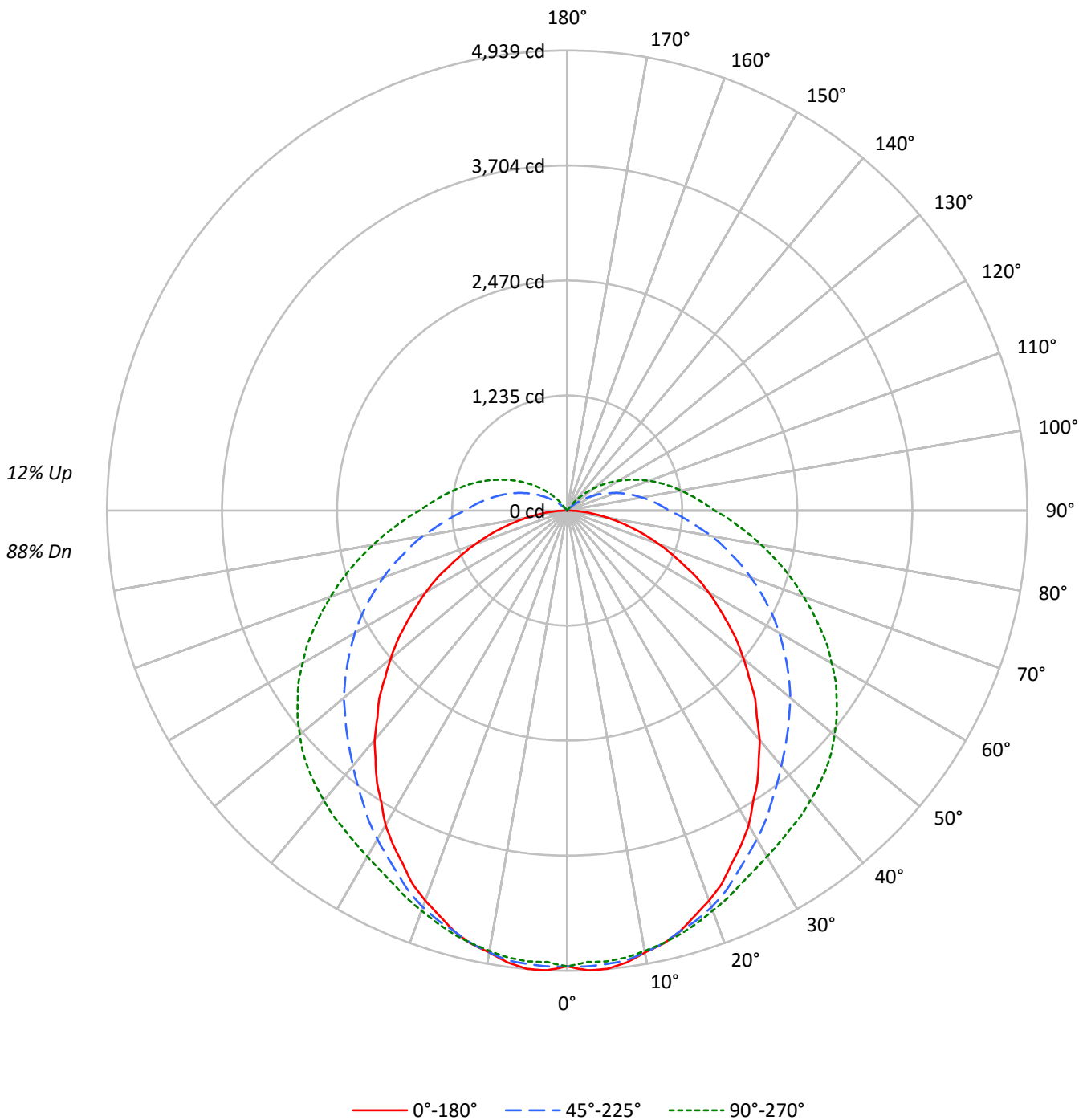
Lumens per Lamp: N/A
Luminaire Lumens: 18891.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

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									50									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°	19149	19149	19149
5°	19391	18664	18354
10°	19113	18097	17657
15°	18904	17419	16996
20°	18493	16858	16336
25°	17976	16117	15746
30°	17532	15484	15359
35°	16906	14857	15126
40°	16307	14337	15025
45°	15653	13965	14948
50°	14901	13695	14798
55°	14183	13397	14608
60°	13524	13137	14362
65°	12542	12878	14062
70°	11694	12639	13742
75°	10531	12409	13506
80°	9291	12402	13330
85°	7881	12450	13304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.3	2.5
10°-20°	1317.6	7.0
20°-30°	1977.0	10.5
30°-40°	2400.3	12.7
40°-50°	2592.6	13.7
50°-60°	2539.1	13.4
60°-70°	2252.2	11.9
70°-80°	1804.0	9.5
80°-90°	1307.5	6.9
90°-100°	921.5	4.9
100°-110°	642.8	3.4
110°-120°	397.9	2.1
120°-130°	202.4	1.1
130°-140°	70.1	0.4
140°-150°	3.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3757.9	19.9
0°-40°	6158.2	32.6
0°-60°	11289.9	59.8
0°-90°	16653.6	88.2
90°-120°	1962.2	10.4
90°-150°	2238.0	11.8
90°-180°	2238.0	11.8
0°-180°	18891.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4892	4892	4892	4892	4892	
5°	4939	4892	4886	4863	4857	467
15°	4676	4641	4676	4717	4705	1315
25°	4179	4191	4302	4372	4419	1929
35°	3560	3583	3822	4050	4173	2223
45°	2852	2928	3349	3764	3928	2192
55°	2104	2280	2882	3355	3530	1886
65°	1379	1707	2367	2823	2998	1377
75°	719	1175	1824	2262	2408	768
85°	193	719	1315	1707	1835	208
90°	6	526	1093	1455	1584	14
95°	0	415	953	1292	1403	0
105°	0	222	684	988	1087	0
115°	0	70	432	696	783	0
125°	0	0	210	427	503	0
135°	0	0	35	187	246	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°	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2
2.5°	4938.9	4933.1	4915.5	4898.0	4892.2	4892.2	4886.3	4880.5	4880.5	4874.6	4898.0
5°	4938.9	4933.1	4915.5	4892.2	4886.3	4892.2	4886.3	4874.6	4874.6	4868.8	4886.3
7.5°	4892.2	4880.5	4868.8	4851.2	4845.4	4845.4	4839.6	4839.6	4839.6	4839.6	4868.8
10°	4816.2	4810.3	4798.6	4781.1	4781.1	4775.3	4775.3	4781.1	4781.1	4786.9	4816.2
12.5°	4763.6	4751.9	4734.3	4716.8	4711.0	4711.0	4705.1	4699.3	4705.1	4711.0	4757.7
15°	4675.9	4670.1	4658.4	4640.8	4640.8	4640.8	4640.8	4635.0	4635.0	4640.8	4675.9
17.5°	4559.0	4547.3	4541.5	4529.8	4535.6	4541.5	4547.3	4541.5	4553.2	4570.7	4611.6
20°	4453.8	4442.1	4430.4	4412.9	4412.9	4418.7	4424.6	4424.6	4453.8	4477.2	4529.8
22.5°	4336.9	4331.0	4319.4	4313.5	4313.5	4319.4	4319.4	4307.7	4325.2	4360.3	4430.4
25°	4179.1	4173.2	4167.4	4167.4	4179.1	4190.8	4196.6	4202.5	4220.0	4243.4	4301.8
27.5°	4044.6	4038.8	4027.1	4015.4	4027.1	4038.8	4044.6	4056.3	4091.4	4138.2	4184.9
30°	3898.5	3892.7	3886.8	3886.8	3898.5	3904.4	3910.2	3904.4	3951.1	4021.3	4073.9
32.5°	3711.5	3705.6	3711.5	3711.5	3740.7	3758.3	3769.9	3775.8	3816.7	3881.0	3957.0
35°	3559.5	3559.5	3553.7	3565.4	3571.2	3582.9	3594.6	3623.8	3682.3	3746.6	3822.5
37.5°	3378.3	3378.3	3378.3	3407.6	3430.9	3436.8	3442.6	3477.7	3553.7	3618.0	3699.8
40°	3214.7	3214.7	3214.7	3226.4	3243.9	3261.4	3284.8	3325.7	3401.7	3495.2	3577.1
42.5°	3016.0	3021.8	3033.5	3062.7	3086.1	3097.8	3115.3	3179.6	3261.4	3372.5	3460.2
45°	2852.3	2846.5	2858.1	2881.5	2904.9	2928.3	2957.5	3027.6	3127.0	3249.7	3349.1
47.5°	2647.7	2653.6	2665.3	2706.2	2735.4	2764.6	2799.7	2881.5	2998.4	3121.2	3232.2
50°	2472.4	2478.2	2507.4	2530.8	2560.1	2595.1	2636.0	2741.2	2869.8	2992.6	3127.0
52.5°	2297.0	2302.9	2326.3	2343.8	2390.6	2431.5	2484.1	2601.0	2735.4	2869.8	3004.3
55°	2104.2	2115.8	2133.4	2174.3	2232.7	2279.5	2337.9	2466.5	2601.0	2747.1	2881.5
57.5°	1923.0	1928.8	1958.0	1998.9	2069.1	2127.5	2197.7	2332.1	2478.2	2618.5	2752.9
60°	1753.5	1765.2	1782.7	1835.3	1928.8	1987.3	2057.4	2197.7	2349.6	2489.9	2630.2
62.5°	1578.1	1589.8	1613.2	1671.6	1782.7	1847.0	1923.0	2069.1	2221.1	2361.3	2501.6
65°	1379.4	1391.1	1426.1	1502.1	1636.6	1706.7	1782.7	1934.7	2080.8	2226.9	2367.2
67.5°	1209.9	1215.7	1262.5	1344.3	1484.6	1572.3	1654.1	1800.2	1946.3	2092.5	2232.7
70°	1046.2	1057.9	1093.0	1204.0	1356.0	1426.1	1513.8	1671.6	1817.8	1963.9	2098.3
72.5°	882.6	894.3	946.9	1069.6	1227.4	1303.4	1373.5	1543.0	1689.2	1829.4	1963.9
75°	718.9	736.5	806.6	946.9	1098.8	1174.8	1250.8	1402.8	1560.6	1695.0	1823.6
77.5°	572.8	590.3	678.0	824.1	976.1	1052.1	1128.1	1274.2	1420.3	1566.4	1700.9
80°	432.5	455.9	561.1	707.2	859.2	935.2	1005.3	1157.3	1297.6	1432.0	1572.3
82.5°	309.8	339.0	461.7	602.0	754.0	824.1	894.3	1040.4	1180.7	1309.3	1432.0
85°	192.9	245.5	368.2	502.7	648.8	718.9	789.1	935.2	1069.6	1198.2	1315.1
87.5°	93.5	163.7	280.6	409.1	549.4	619.6	689.7	830.0	958.6	1087.1	1204.0
90°	5.8	93.5	198.7	321.5	461.7	526.0	596.2	730.6	859.2	981.9	1093.0
92.5°	0.0	58.4	157.8	274.7	403.3	473.4	537.7	672.2	794.9	917.6	1022.9
95°	0.0	29.2	122.7	233.8	356.5	415.0	479.3	607.9	730.6	847.5	952.7
97.5°	0.0	5.8	87.7	187.0	303.9	368.2	426.7	549.4	672.2	783.2	882.6
100°	0.0	0.0	58.4	152.0	257.2	315.6	374.1	491.0	607.9	713.1	812.4
102.5°	0.0	0.0	29.2	116.9	216.3	268.9	321.5	438.4	549.4	654.6	748.1
105°	0.0	0.0	5.8	81.8	175.3	222.1	274.7	379.9	491.0	590.3	683.8
107.5°	0.0	0.0	0.0	46.8	134.4	181.2	227.9	327.3	432.5	526.0	613.7
110°	0.0	0.0	0.0	23.4	99.4	140.3	187.0	280.6	374.1	467.6	555.3



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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	5.8	64.3	105.2	146.1	233.8	321.5	409.1	491.0
115°	0.0	0.0	0.0	0.0	35.1	70.1	105.2	187.0	268.9	356.5	432.5
117.5°	0.0	0.0	0.0	0.0	11.7	40.9	70.1	146.1	222.1	298.1	374.1
120°	0.0	0.0	0.0	0.0	0.0	17.5	40.9	105.2	175.3	245.5	315.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.7	64.3	128.6	198.7	263.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1	87.7	152.0	210.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	52.6	105.2	157.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	64.3	111.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	35.1	70.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	35.1
137.5°	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7
140°	5.8	5.8	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°	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2
2.5°	4915.5	4892.2	4892.2	4886.3	4880.5	4874.6	4862.9	4857.1	4845.4	4851.2
5°	4903.8	4880.5	4880.5	4868.8	4862.9	4862.9	4857.1	4857.1	4851.2	4857.1
7.5°	4886.3	4857.1	4857.1	4845.4	4839.6	4833.7	4833.7	4833.7	4833.7	4839.6
10°	4839.6	4822.0	4822.0	4816.2	4810.3	4798.6	4792.8	4798.6	4792.8	4798.6
12.5°	4775.3	4757.7	4769.4	4769.4	4769.4	4757.7	4751.9	4757.7	4751.9	4757.7
15°	4693.4	4687.6	4705.1	4711.0	4716.8	4711.0	4705.1	4705.1	4705.1	4705.1
17.5°	4611.6	4605.8	4629.1	4640.8	4640.8	4640.8	4640.8	4635.0	4635.0	4640.8
20°	4541.5	4518.1	4529.8	4553.2	4559.0	4559.0	4564.8	4570.7	4570.7	4570.7
22.5°	4442.1	4430.4	4436.3	4453.8	4465.5	4471.3	4488.9	4488.9	4494.7	4500.5
25°	4325.2	4342.7	4348.6	4366.1	4372.0	4383.7	4407.0	4418.7	4418.7	4418.7
27.5°	4202.5	4237.5	4260.9	4272.6	4284.3	4296.0	4325.2	4348.6	4348.6	4348.6
30°	4085.6	4120.6	4167.4	4190.8	4202.5	4214.2	4255.1	4284.3	4290.1	4290.1
32.5°	3962.8	4009.6	4079.7	4114.8	4120.6	4138.2	4190.8	4225.8	4231.7	4231.7
35°	3857.6	3916.1	3992.0	4038.8	4050.5	4068.0	4126.5	4167.4	4173.2	4173.2
37.5°	3764.1	3822.5	3904.4	3968.7	3980.4	4003.7	4062.2	4114.8	4120.6	4126.5
40°	3658.9	3729.0	3810.9	3886.8	3910.2	3933.6	3997.9	4050.5	4062.2	4062.2
42.5°	3553.7	3641.4	3723.2	3810.9	3840.1	3863.5	3933.6	3986.2	3997.9	3997.9
45°	3442.6	3553.7	3635.5	3729.0	3764.1	3787.5	3851.8	3910.2	3927.8	3927.8
47.5°	3343.3	3460.2	3542.0	3635.5	3670.6	3705.6	3764.1	3822.5	3840.1	3845.9
50°	3232.2	3360.8	3442.6	3530.3	3577.1	3612.1	3670.6	3734.9	3752.4	3746.6
52.5°	3121.2	3243.9	3331.6	3425.1	3471.9	3506.9	3559.5	3629.7	3647.2	3647.2
55°	3004.3	3127.0	3220.5	3308.2	3355.0	3401.7	3454.3	3512.8	3536.1	3530.3
57.5°	2887.4	2998.4	3097.8	3191.3	3232.2	3279.0	3331.6	3390.0	3407.6	3419.2
60°	2764.6	2864.0	2975.0	3062.7	3103.6	3150.4	3203.0	3255.6	3284.8	3279.0
62.5°	2630.2	2741.2	2846.5	2928.3	2969.2	3016.0	3068.6	3115.3	3138.7	3150.4
65°	2495.8	2601.0	2700.3	2788.0	2823.1	2869.8	2928.3	2963.3	2992.6	2998.4
67.5°	2355.5	2460.7	2560.1	2653.6	2688.6	2729.6	2782.2	2817.2	2846.5	2852.3
70°	2215.2	2326.3	2425.6	2513.3	2548.4	2583.4	2636.0	2671.1	2700.3	2700.3
72.5°	2080.8	2191.8	2285.3	2373.0	2408.1	2437.3	2489.9	2525.0	2548.4	2554.2
75°	1946.3	2051.5	2145.1	2232.7	2262.0	2297.0	2343.8	2378.9	2402.2	2408.1
77.5°	1811.9	1923.0	2010.6	2092.5	2121.7	2150.9	2203.5	2232.7	2256.1	2256.1
80°	1683.3	1788.5	1876.2	1952.2	1975.6	2010.6	2057.4	2086.6	2104.2	2115.8
82.5°	1560.6	1659.9	1741.8	1811.9	1847.0	1870.4	1917.1	1946.3	1963.9	1975.6
85°	1426.1	1531.4	1613.2	1683.3	1706.7	1741.8	1782.7	1811.9	1829.4	1835.3
87.5°	1303.4	1396.9	1478.8	1560.6	1589.8	1613.2	1654.1	1683.3	1700.9	1712.5
90°	1198.2	1285.9	1361.9	1426.1	1455.4	1484.6	1531.4	1560.6	1578.1	1584.0
92.5°	1122.2	1209.9	1280.0	1344.3	1373.5	1396.9	1437.8	1467.1	1484.6	1490.4
95°	1052.1	1133.9	1204.0	1268.3	1291.7	1315.1	1356.0	1379.4	1391.1	1402.8
97.5°	976.1	1063.8	1128.1	1186.5	1215.7	1233.3	1274.2	1297.6	1315.1	1320.9
100°	906.0	987.8	1052.1	1116.4	1139.7	1157.3	1198.2	1221.6	1233.3	1239.1
102.5°	835.8	917.6	981.9	1040.4	1063.8	1081.3	1116.4	1139.7	1157.3	1163.1
105°	765.7	841.7	906.0	964.4	987.8	1005.3	1040.4	1063.8	1081.3	1087.1
107.5°	701.4	771.5	835.8	888.4	911.8	929.3	964.4	987.8	1005.3	1011.2
110°	637.1	701.4	765.7	818.3	841.7	859.2	894.3	911.8	929.3	935.2



TEST NUMBER: P257122

CATALOG NUMBER: HGL-S-UF-80L940-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	567.0	637.1	695.5	748.1	765.7	789.1	818.3	841.7	853.4	859.2
115°	508.5	572.8	625.4	678.0	695.5	713.1	748.1	765.7	783.2	783.2
117.5°	444.2	502.7	561.1	607.9	625.4	642.9	678.0	695.5	707.2	713.1
120°	385.8	438.4	491.0	537.7	561.1	572.8	607.9	625.4	637.1	642.9
122.5°	327.3	379.9	432.5	473.4	491.0	508.5	537.7	555.3	567.0	572.8
125°	268.9	321.5	368.2	409.1	426.7	444.2	467.6	485.1	496.8	502.7
127.5°	216.3	263.0	309.8	344.8	362.4	379.9	403.3	420.8	432.5	438.4
130°	163.7	204.6	251.3	286.4	303.9	315.6	339.0	356.5	368.2	374.1
132.5°	111.1	152.0	192.9	227.9	245.5	257.2	280.6	292.2	303.9	309.8
135°	70.1	105.2	140.3	169.5	187.0	198.7	222.1	233.8	245.5	245.5
137.5°	35.1	64.3	93.5	116.9	128.6	146.1	163.7	175.3	181.2	187.0
140°	11.7	29.2	52.6	70.1	81.8	93.5	111.1	122.7	128.6	134.4
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)