

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: P257112

Luminaire Tested: **HGL-S-UF-80L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257112
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-80L840-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: 25029.3 lumens
Efficiency: N/A
Efficacy: 118.1 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

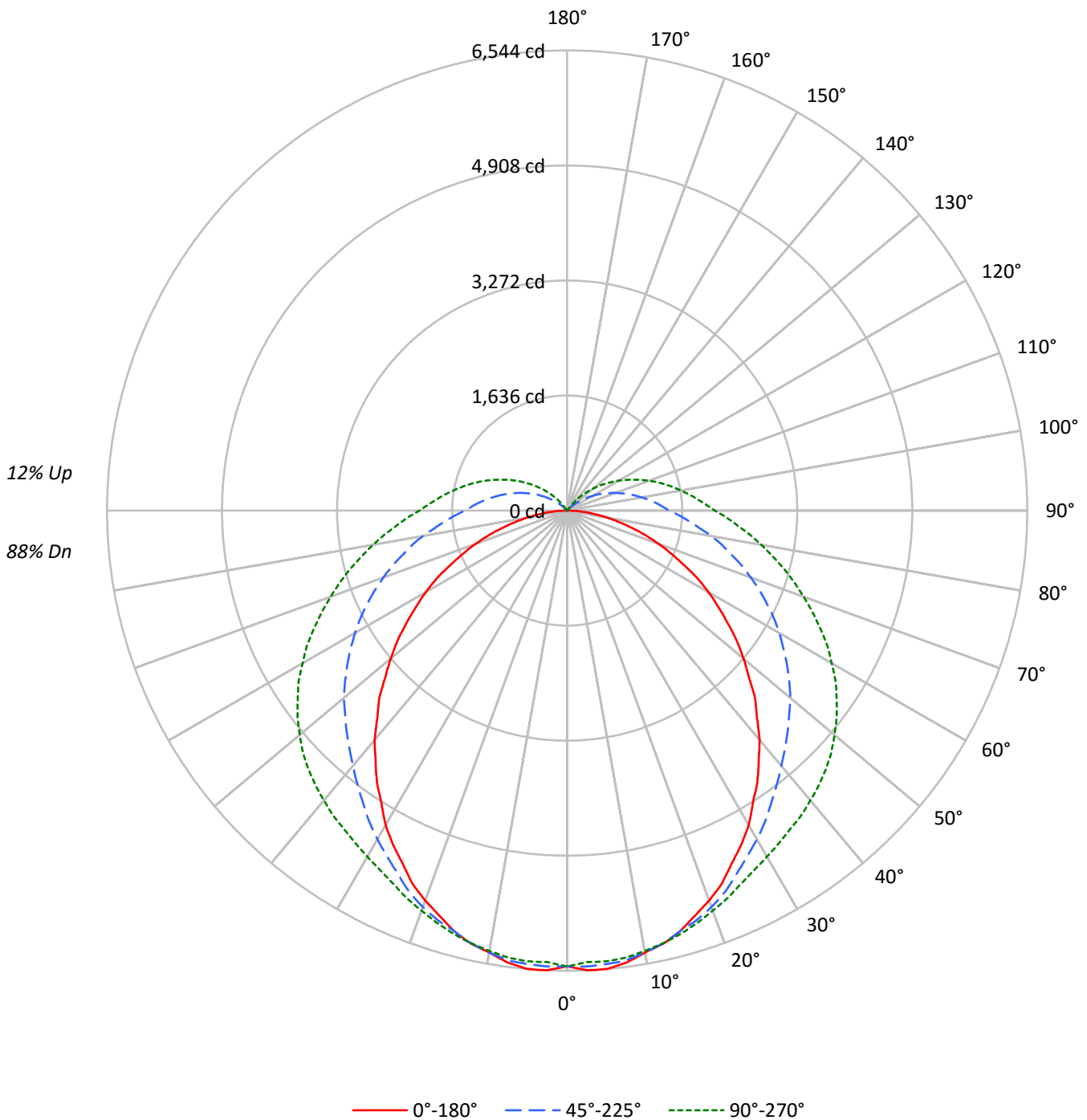
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	25370	25370	25370
5°	25691	24728	24317
10°	25322	23976	23394
15°	25046	23078	22518
20°	24501	22336	21643
25°	23816	21353	20862
30°	23228	20515	20349
35°	22398	19685	20041
40°	21605	18995	19907
45°	20738	18502	19804
50°	19742	18145	19606
55°	18791	17749	19354
60°	17917	17405	19028
65°	16616	17062	18631
70°	15493	16745	18206
75°	13953	16441	17894
80°	12310	16431	17661
85°	10439	16495	17626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.8	2.5
10°-20°	1745.7	7.0
20°-30°	2619.3	10.5
30°-40°	3180.1	12.7
40°-50°	3434.9	13.7
50°-60°	3364.1	13.4
60°-70°	2983.9	11.9
70°-80°	2390.1	9.5
80°-90°	1732.2	6.9
90°-100°	1220.9	4.9
100°-110°	851.6	3.4
110°-120°	527.2	2.1
120°-130°	268.1	1.1
130°-140°	92.9	0.4
140°-150°	4.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4978.8	19.9
0°-40°	8159.0	32.6
0°-60°	14957.9	59.8
0°-90°	22064.2	88.2
90°-120°	2599.7	10.4
90°-150°	2965.1	11.8
90°-180°	2965.0	11.8
0°-180°	25029.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6482	6482	6482	6482	6482	
5°	6544	6482	6474	6443	6435	619
15°	6195	6149	6195	6249	6234	1742
25°	5537	5552	5699	5792	5854	2556
35°	4716	4747	5064	5366	5529	2945
45°	3779	3880	4437	4987	5204	2904
55°	2788	3020	3818	4445	4677	2499
65°	1828	2261	3136	3740	3973	1824
75°	952	1556	2416	2997	3190	1018
85°	256	952	1742	2261	2432	276
90°	8	697	1448	1928	2099	19
95°	0	550	1262	1711	1858	0
105°	0	294	906	1309	1440	0
115°	0	93	573	922	1038	0
125°	0	0	279	565	666	0
135°	0	0	46	248	325	4
145°	0	0	0	0	0	1
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°	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6
2.5°	6543.5	6535.8	6512.6	6489.3	6481.6	6481.6	6473.8	6466.1	6466.1	6458.3	6489.3
5°	6543.5	6535.8	6512.6	6481.6	6473.8	6481.6	6473.8	6458.3	6458.3	6450.6	6473.8
7.5°	6481.6	6466.1	6450.6	6427.4	6419.6	6419.6	6411.9	6411.9	6411.9	6411.9	6450.6
10°	6380.9	6373.2	6357.7	6334.4	6334.4	6326.7	6326.7	6334.4	6334.4	6342.2	6380.9
12.5°	6311.2	6295.7	6272.5	6249.3	6241.5	6241.5	6233.8	6226.0	6233.8	6241.5	6303.5
15°	6195.1	6187.3	6171.8	6148.6	6148.6	6148.6	6148.6	6140.8	6140.8	6148.6	6195.1
17.5°	6040.2	6024.7	6016.9	6001.5	6009.2	6016.9	6024.7	6016.9	6032.4	6055.7	6109.9
20°	5900.8	5885.3	5869.8	5846.6	5846.6	5854.3	5862.1	5862.1	5900.8	5931.8	6001.5
22.5°	5745.9	5738.2	5722.7	5714.9	5714.9	5722.7	5722.7	5707.2	5730.4	5776.9	5869.8
25°	5536.8	5529.1	5521.3	5521.3	5536.8	5552.3	5560.1	5567.8	5591.0	5622.0	5699.4
27.5°	5358.7	5351.0	5335.5	5320.0	5335.5	5351.0	5358.7	5374.2	5420.7	5482.6	5544.6
30°	5165.1	5157.4	5149.6	5149.6	5165.1	5172.9	5180.6	5172.9	5234.8	5327.7	5397.4
32.5°	4917.3	4909.6	4917.3	4917.3	4956.0	4979.3	4994.8	5002.5	5056.7	5141.9	5242.6
35°	4716.0	4716.0	4708.2	4723.7	4731.5	4747.0	4762.4	4801.2	4878.6	4963.8	5064.5
37.5°	4475.9	4475.9	4475.9	4514.6	4545.6	4553.4	4561.1	4607.6	4708.2	4793.4	4901.8
40°	4259.1	4259.1	4259.1	4274.6	4297.8	4321.0	4352.0	4406.2	4506.9	4630.8	4739.2
42.5°	3995.8	4003.6	4019.0	4057.8	4088.7	4104.2	4127.5	4212.6	4321.0	4468.2	4584.3
45°	3779.0	3771.2	3786.7	3817.7	3848.7	3879.7	3918.4	4011.3	4142.9	4305.6	4437.2
47.5°	3507.9	3515.7	3531.2	3585.4	3624.1	3662.8	3709.3	3817.7	3972.6	4135.2	4282.3
50°	3275.6	3283.4	3322.1	3353.1	3391.8	3438.3	3492.5	3631.9	3802.2	3964.8	4142.9
52.5°	3043.3	3051.1	3082.0	3105.3	3167.2	3221.4	3291.1	3446.0	3624.1	3802.2	3980.3
55°	2787.8	2803.3	2826.5	2880.7	2958.1	3020.1	3097.5	3267.9	3446.0	3639.6	3817.7
57.5°	2547.7	2555.5	2594.2	2648.4	2741.3	2818.7	2911.7	3089.8	3283.4	3469.2	3647.3
60°	2323.1	2338.6	2361.9	2431.6	2555.5	2632.9	2725.8	2911.7	3113.0	3298.9	3484.7
62.5°	2090.8	2106.3	2137.3	2214.7	2361.9	2447.0	2547.7	2741.3	2942.7	3128.5	3314.4
65°	1827.5	1843.0	1889.5	1990.2	2168.3	2261.2	2361.9	2563.2	2756.8	2950.4	3136.2
67.5°	1603.0	1610.7	1672.7	1781.1	1966.9	2083.1	2191.5	2385.1	2578.7	2772.3	2958.1
70°	1386.1	1401.6	1448.1	1595.2	1796.6	1889.5	2005.6	2214.7	2408.3	2601.9	2780.0
72.5°	1169.3	1184.8	1254.5	1417.1	1626.2	1726.9	1819.8	2044.4	2238.0	2423.8	2601.9
75°	952.5	975.7	1068.6	1254.5	1455.8	1556.5	1657.2	1858.5	2067.6	2245.7	2416.1
77.5°	758.9	782.1	898.3	1091.9	1293.2	1393.9	1494.6	1688.2	1881.7	2075.3	2253.5
80°	573.0	604.0	743.4	937.0	1138.3	1239.0	1331.9	1533.3	1719.1	1897.2	2083.1
82.5°	410.4	449.1	611.8	797.6	999.0	1091.9	1184.8	1378.4	1564.3	1734.6	1897.2
85°	255.5	325.2	487.9	666.0	859.6	952.5	1045.4	1239.0	1417.1	1587.5	1742.4
87.5°	123.9	216.8	371.7	542.1	727.9	820.8	913.8	1099.6	1270.0	1440.3	1595.2
90°	7.7	123.9	263.3	425.9	611.8	696.9	789.9	968.0	1138.3	1301.0	1448.1
92.5°	0.0	77.4	209.1	364.0	534.3	627.2	712.4	890.5	1053.2	1215.8	1355.2
95°	0.0	38.7	162.6	309.8	472.4	549.8	635.0	805.4	968.0	1122.9	1262.2
97.5°	0.0	7.7	116.2	247.8	402.7	487.9	565.3	727.9	890.5	1037.7	1169.3
100°	0.0	0.0	77.4	201.3	340.7	418.2	495.6	650.5	805.4	944.7	1076.4
102.5°	0.0	0.0	38.7	154.9	286.5	356.2	425.9	580.8	727.9	867.3	991.2
105°	0.0	0.0	7.7	108.4	232.3	294.3	364.0	503.3	650.5	782.1	906.0
107.5°	0.0	0.0	0.0	62.0	178.1	240.1	302.0	433.7	573.0	696.9	813.1
110°	0.0	0.0	0.0	31.0	131.6	185.9	247.8	371.7	495.6	619.5	735.7



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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	7.7	85.2	139.4	193.6	309.8	425.9	542.1	650.5
115°	0.0	0.0	0.0	0.0	46.5	92.9	139.4	247.8	356.2	472.4	573.0
117.5°	0.0	0.0	0.0	0.0	15.5	54.2	92.9	193.6	294.3	394.9	495.6
120°	0.0	0.0	0.0	0.0	0.0	23.2	54.2	139.4	232.3	325.2	418.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	85.2	170.4	263.3	348.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	116.2	201.3	278.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	69.7	139.4	209.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	85.2	147.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	46.5	92.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	46.5
137.5°	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5
140°	7.7	7.7	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°	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6	6481.6
2.5°	6512.6	6481.6	6481.6	6473.8	6466.1	6458.3	6442.9	6435.1	6419.6	6427.4
5°	6497.1	6466.1	6466.1	6450.6	6442.9	6442.9	6435.1	6435.1	6427.4	6435.1
7.5°	6473.8	6435.1	6435.1	6419.6	6411.9	6404.1	6404.1	6404.1	6404.1	6411.9
10°	6411.9	6388.6	6388.6	6380.9	6373.2	6357.7	6349.9	6357.7	6349.9	6357.7
12.5°	6326.7	6303.5	6319.0	6319.0	6319.0	6303.5	6295.7	6303.5	6295.7	6303.5
15°	6218.3	6210.5	6233.8	6241.5	6249.3	6241.5	6233.8	6233.8	6233.8	6233.8
17.5°	6109.9	6102.1	6133.1	6148.6	6148.6	6148.6	6148.6	6140.8	6140.8	6148.6
20°	6016.9	5986.0	6001.5	6032.4	6040.2	6040.2	6047.9	6055.7	6055.7	6055.7
22.5°	5885.3	5869.8	5877.6	5900.8	5916.3	5924.0	5947.3	5947.3	5955.0	5962.7
25°	5730.4	5753.7	5761.4	5784.6	5792.4	5807.9	5838.8	5854.3	5854.3	5854.3
27.5°	5567.8	5614.3	5645.2	5660.7	5676.2	5691.7	5730.4	5761.4	5761.4	5761.4
30°	5412.9	5459.4	5521.3	5552.3	5567.8	5583.3	5637.5	5676.2	5684.0	5684.0
32.5°	5250.3	5312.3	5405.2	5451.6	5459.4	5482.6	5552.3	5598.8	5606.5	5606.5
35°	5110.9	5188.4	5289.0	5351.0	5366.5	5389.7	5467.1	5521.3	5529.1	5529.1
37.5°	4987.0	5064.5	5172.9	5258.1	5273.5	5304.5	5382.0	5451.6	5459.4	5467.1
40°	4847.6	4940.6	5049.0	5149.6	5180.6	5211.6	5296.8	5366.5	5382.0	5382.0
42.5°	4708.2	4824.4	4932.8	5049.0	5087.7	5118.7	5211.6	5281.3	5296.8	5296.8
45°	4561.1	4708.2	4816.7	4940.6	4987.0	5018.0	5103.2	5180.6	5203.8	5203.8
47.5°	4429.5	4584.3	4692.8	4816.7	4863.1	4909.6	4987.0	5064.5	5087.7	5095.4
50°	4282.3	4452.7	4561.1	4677.3	4739.2	4785.7	4863.1	4948.3	4971.5	4963.8
52.5°	4135.2	4297.8	4414.0	4537.9	4599.8	4646.3	4716.0	4808.9	4832.1	4832.1
55°	3980.3	4142.9	4266.8	4383.0	4445.0	4506.9	4576.6	4654.0	4685.0	4677.3
57.5°	3825.4	3972.6	4104.2	4228.1	4282.3	4344.3	4414.0	4491.4	4514.6	4530.1
60°	3662.8	3794.5	3941.6	4057.8	4112.0	4173.9	4243.6	4313.3	4352.0	4344.3
62.5°	3484.7	3631.9	3771.2	3879.7	3933.9	3995.8	4065.5	4127.5	4158.4	4173.9
65°	3306.6	3446.0	3577.6	3693.8	3740.3	3802.2	3879.7	3926.1	3964.8	3972.6
67.5°	3120.8	3260.1	3391.8	3515.7	3562.2	3616.4	3686.1	3732.5	3771.2	3779.0
70°	2934.9	3082.0	3213.7	3329.8	3376.3	3422.8	3492.5	3538.9	3577.6	3577.6
72.5°	2756.8	2903.9	3027.8	3144.0	3190.5	3229.2	3298.9	3345.3	3376.3	3384.0
75°	2578.7	2718.1	2842.0	2958.1	2996.9	3043.3	3105.3	3151.7	3182.7	3190.5
77.5°	2400.6	2547.7	2663.9	2772.3	2811.0	2849.7	2919.4	2958.1	2989.1	2989.1
80°	2230.2	2369.6	2485.8	2586.4	2617.4	2663.9	2725.8	2764.5	2787.8	2803.3
82.5°	2067.6	2199.2	2307.7	2400.6	2447.0	2478.0	2540.0	2578.7	2601.9	2617.4
85°	1889.5	2028.9	2137.3	2230.2	2261.2	2307.7	2361.9	2400.6	2423.8	2431.6
87.5°	1726.9	1850.8	1959.2	2067.6	2106.3	2137.3	2191.5	2230.2	2253.5	2268.9
90°	1587.5	1703.6	1804.3	1889.5	1928.2	1966.9	2028.9	2067.6	2090.8	2098.6
92.5°	1486.8	1603.0	1695.9	1781.1	1819.8	1850.8	1905.0	1943.7	1966.9	1974.7
95°	1393.9	1502.3	1595.2	1680.4	1711.4	1742.4	1796.6	1827.5	1843.0	1858.5
97.5°	1293.2	1409.4	1494.6	1572.0	1610.7	1633.9	1688.2	1719.1	1742.4	1750.1
100°	1200.3	1308.7	1393.9	1479.1	1510.0	1533.3	1587.5	1618.5	1633.9	1641.7
102.5°	1107.4	1215.8	1301.0	1378.4	1409.4	1432.6	1479.1	1510.0	1533.3	1541.0
105°	1014.4	1115.1	1200.3	1277.7	1308.7	1331.9	1378.4	1409.4	1432.6	1440.3
107.5°	929.3	1022.2	1107.4	1177.1	1208.0	1231.3	1277.7	1308.7	1331.9	1339.7
110°	844.1	929.3	1014.4	1084.1	1115.1	1138.3	1184.8	1208.0	1231.3	1239.0



TEST NUMBER: P257112

CATALOG NUMBER: HGL-S-UF-80L840-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	751.2	844.1	921.5	991.2	1014.4	1045.4	1084.1	1115.1	1130.6	1138.3
115°	673.7	758.9	828.6	898.3	921.5	944.7	991.2	1014.4	1037.7	1037.7
117.5°	588.5	666.0	743.4	805.4	828.6	851.8	898.3	921.5	937.0	944.7
120°	511.1	580.8	650.5	712.4	743.4	758.9	805.4	828.6	844.1	851.8
122.5°	433.7	503.3	573.0	627.2	650.5	673.7	712.4	735.7	751.2	758.9
125°	356.2	425.9	487.9	542.1	565.3	588.5	619.5	642.7	658.2	666.0
127.5°	286.5	348.5	410.4	456.9	480.1	503.3	534.3	557.6	573.0	580.8
130°	216.8	271.0	333.0	379.4	402.7	418.2	449.1	472.4	487.9	495.6
132.5°	147.1	201.3	255.5	302.0	325.2	340.7	371.7	387.2	402.7	410.4
135°	92.9	139.4	185.9	224.6	247.8	263.3	294.3	309.8	325.2	325.2
137.5°	46.5	85.2	123.9	154.9	170.4	193.6	216.8	232.3	240.1	247.8
140°	15.5	38.7	69.7	92.9	108.4	123.9	147.1	162.6	170.4	178.1
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)