

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: P257106

Luminaire Tested: **HGL-S-UF-60L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257106
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-60L835-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: 18247.1 lumens
Efficiency: N/A
Efficacy: 128.5 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

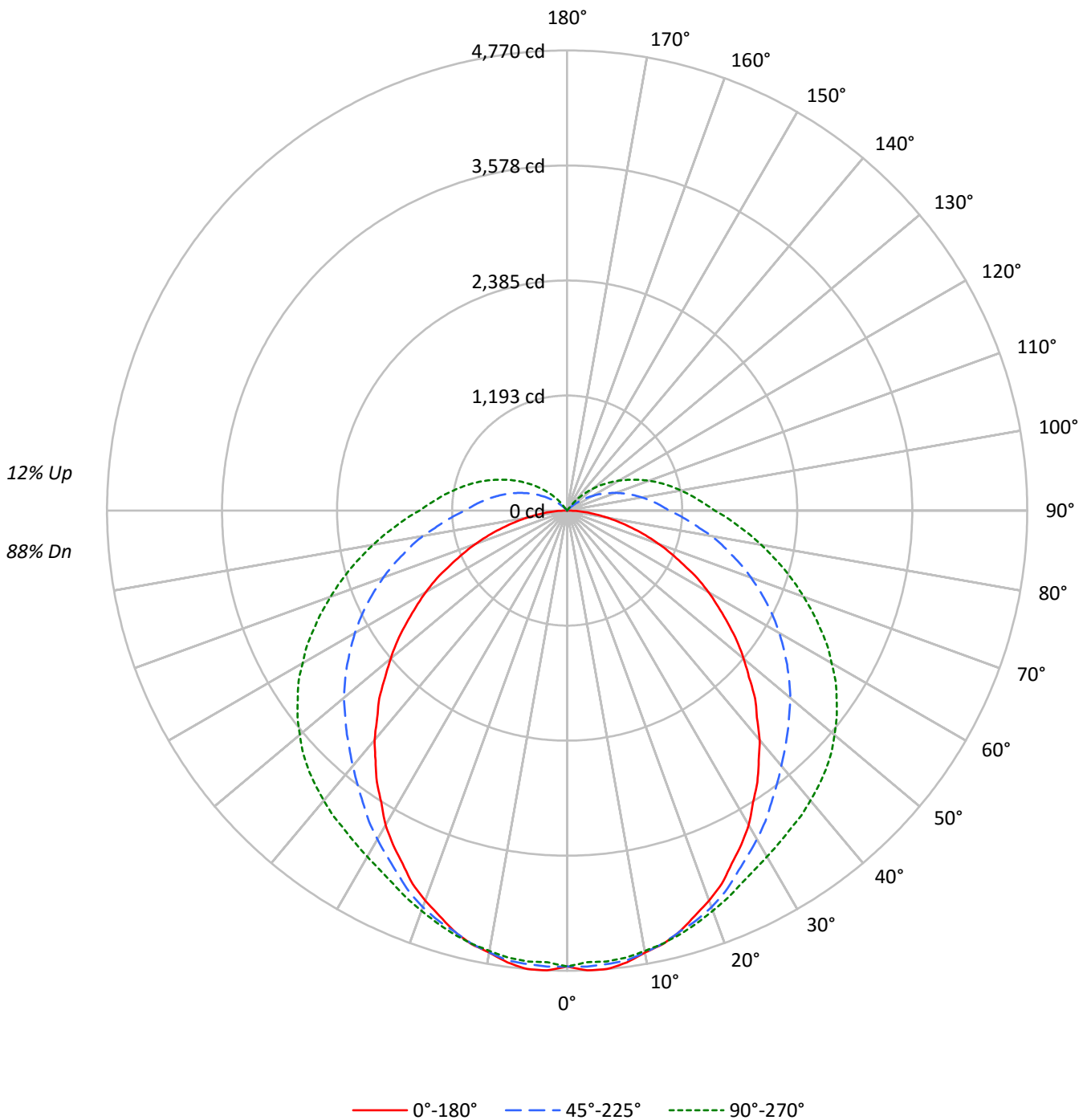
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18496	18496	18496
5°	18729	18027	17728
10°	18461	17480	17055
15°	18259	16825	16416
20°	17862	16283	15779
25°	17362	15567	15209
30°	16934	14956	14835
35°	16329	14351	14611
40°	15750	13848	14513
45°	15119	13488	14438
50°	14392	13228	14293
55°	13699	12940	14110
60°	13062	12689	13872
65°	12114	12439	13583
70°	11295	12208	13273
75°	10172	11986	13045
80°	8976	11979	12875
85°	7611	12025	12850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	2.5
10°-20°	1272.7	7.0
20°-30°	1909.5	10.5
30°-40°	2318.4	12.7
40°-50°	2504.1	13.7
50°-60°	2452.5	13.4
60°-70°	2175.4	11.9
70°-80°	1742.5	9.5
80°-90°	1262.9	6.9
90°-100°	890.0	4.9
100°-110°	620.9	3.4
110°-120°	384.4	2.1
120°-130°	195.5	1.1
130°-140°	67.7	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°	3629.7	19.9
0°-40°	5948.1	32.6
0°-60°	10904.8	59.8
0°-90°	16085.5	88.2
90°-120°	1895.2	10.4
90°-150°	2161.6	11.8
90°-180°	2162.0	11.8
0°-180°	18247.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4725	4725	4725	4725	4725	
5°	4770	4725	4720	4697	4691	451
15°	4516	4482	4516	4556	4545	1270
25°	4036	4048	4155	4223	4268	1863
35°	3438	3461	3692	3912	4031	2147
45°	2755	2828	3235	3636	3794	2117
55°	2032	2202	2783	3240	3410	1822
65°	1332	1648	2286	2727	2896	1330
75°	694	1135	1761	2185	2326	742
85°	186	694	1270	1648	1773	201
90°	6	508	1056	1406	1530	14
95°	0	401	920	1248	1355	0
105°	0	214	660	954	1050	0
115°	0	68	418	672	756	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°	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3
2.5°	4770.4	4764.8	4747.8	4730.9	4725.3	4725.3	4719.6	4714.0	4714.0	4708.3	4730.9
5°	4770.4	4764.8	4747.8	4725.3	4719.6	4725.3	4719.6	4708.3	4708.3	4702.7	4719.6
7.5°	4725.3	4714.0	4702.7	4685.7	4680.1	4680.1	4674.5	4674.5	4674.5	4674.5	4702.7
10°	4651.9	4646.2	4634.9	4618.0	4618.0	4612.3	4612.3	4618.0	4618.0	4623.6	4651.9
12.5°	4601.1	4589.8	4572.8	4555.9	4550.2	4550.2	4544.6	4539.0	4544.6	4550.2	4595.4
15°	4516.4	4510.7	4499.4	4482.5	4482.5	4482.5	4482.5	4476.9	4476.9	4482.5	4516.4
17.5°	4403.5	4392.2	4386.5	4375.2	4380.9	4386.5	4392.2	4386.5	4397.8	4414.8	4454.3
20°	4301.8	4290.6	4279.3	4262.3	4262.3	4268.0	4273.6	4273.6	4301.8	4324.4	4375.2
22.5°	4188.9	4183.3	4172.0	4166.4	4166.4	4172.0	4172.0	4160.7	4177.6	4211.5	4279.3
25°	4036.5	4030.9	4025.2	4025.2	4036.5	4047.8	4053.4	4059.1	4076.0	4098.6	4155.1
27.5°	3906.7	3901.0	3889.7	3878.4	3889.7	3901.0	3906.7	3918.0	3951.8	3997.0	4042.2
30°	3765.5	3759.9	3754.2	3754.2	3765.5	3771.2	3776.8	3771.2	3816.3	3884.1	3934.9
32.5°	3584.9	3579.2	3584.9	3584.9	3613.1	3630.0	3641.3	3647.0	3686.5	3748.6	3822.0
35°	3438.1	3438.1	3432.4	3443.7	3449.4	3460.7	3472.0	3500.2	3556.6	3618.7	3692.1
37.5°	3263.1	3263.1	3263.1	3291.3	3313.9	3319.5	3325.2	3359.1	3432.4	3494.5	3573.6
40°	3105.0	3105.0	3105.0	3116.3	3133.2	3150.2	3172.8	3212.3	3285.7	3376.0	3455.0
42.5°	2913.1	2918.7	2930.0	2958.2	2980.8	2992.1	3009.0	3071.1	3150.2	3257.4	3342.1
45°	2755.0	2749.3	2760.6	2783.2	2805.8	2828.4	2856.6	2924.4	3020.3	3138.9	3234.9
47.5°	2557.4	2563.0	2574.3	2613.9	2642.1	2670.3	2704.2	2783.2	2896.1	3014.7	3121.9
50°	2388.0	2393.7	2421.9	2444.5	2472.7	2506.6	2546.1	2647.7	2771.9	2890.5	3020.3
52.5°	2218.7	2224.3	2246.9	2263.8	2309.0	2348.5	2399.3	2512.2	2642.1	2771.9	2901.8
55°	2032.4	2043.7	2060.6	2100.1	2156.6	2201.7	2258.2	2382.4	2512.2	2653.4	2783.2
57.5°	1857.4	1863.0	1891.2	1930.8	1998.5	2055.0	2122.7	2252.5	2393.7	2529.2	2659.0
60°	1693.6	1704.9	1721.9	1772.7	1863.0	1919.5	1987.2	2122.7	2269.5	2405.0	2540.5
62.5°	1524.3	1535.6	1558.2	1614.6	1721.9	1784.0	1857.4	1998.5	2145.3	2280.8	2416.3
65°	1332.3	1343.6	1377.5	1450.9	1580.7	1648.5	1721.9	1868.7	2009.8	2150.9	2286.4
67.5°	1168.6	1174.3	1219.4	1298.5	1433.9	1518.6	1597.7	1738.8	1879.9	2021.1	2156.6
70°	1010.5	1021.8	1055.7	1163.0	1309.7	1377.5	1462.2	1614.6	1755.7	1896.9	2026.7
72.5°	852.5	863.8	914.6	1033.1	1185.5	1258.9	1326.7	1490.4	1631.5	1767.0	1896.9
75°	694.4	711.3	779.1	914.6	1061.3	1134.7	1208.1	1354.9	1507.3	1637.2	1761.4
77.5°	553.3	570.2	654.9	796.0	942.8	1016.2	1089.6	1230.7	1371.8	1513.0	1642.8
80°	417.8	440.3	542.0	683.1	829.9	903.3	971.0	1117.8	1253.3	1383.1	1518.6
82.5°	299.2	327.4	446.0	581.5	728.3	796.0	863.8	1004.9	1140.4	1264.6	1383.1
85°	186.3	237.1	355.7	485.5	626.6	694.4	762.1	903.3	1033.1	1157.3	1270.2
87.5°	90.3	158.1	271.0	395.2	530.7	598.4	666.2	801.7	925.9	1050.1	1163.0
90°	5.6	90.3	191.9	310.5	446.0	508.1	575.8	705.7	829.9	948.4	1055.7
92.5°	0.0	56.5	152.4	265.3	389.5	457.3	519.4	649.2	767.8	886.3	988.0
95°	0.0	28.2	118.6	225.8	344.4	400.8	462.9	587.1	705.7	818.6	920.2
97.5°	0.0	5.6	84.7	180.7	293.6	355.7	412.1	530.7	649.2	756.5	852.5
100°	0.0	0.0	56.5	146.8	248.4	304.9	361.3	474.2	587.1	688.7	784.7
102.5°	0.0	0.0	28.2	112.9	208.9	259.7	310.5	423.4	530.7	632.3	722.6
105°	0.0	0.0	5.6	79.0	169.4	214.5	265.3	367.0	474.2	570.2	660.5
107.5°	0.0	0.0	0.0	45.2	129.8	175.0	220.2	316.1	417.8	508.1	592.8
110°	0.0	0.0	0.0	22.6	96.0	135.5	180.7	271.0	361.3	451.6	536.3



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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	5.6	62.1	101.6	141.1	225.8	310.5	395.2	474.2
115°	0.0	0.0	0.0	0.0	33.9	67.7	101.6	180.7	259.7	344.4	417.8
117.5°	0.0	0.0	0.0	0.0	11.3	39.5	67.7	141.1	214.5	287.9	361.3
120°	0.0	0.0	0.0	0.0	0.0	16.9	39.5	101.6	169.4	237.1	304.9
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	62.1	124.2	191.9	254.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	84.7	146.8	203.2
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	50.8	101.6	152.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	62.1	107.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	33.9	67.7
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°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
140°	5.6	5.6	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°	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3	4725.3
2.5°	4747.8	4725.3	4725.3	4719.6	4714.0	4708.3	4697.0	4691.4	4680.1	4685.7
5°	4736.6	4714.0	4714.0	4702.7	4697.0	4697.0	4691.4	4691.4	4685.7	4691.4
7.5°	4719.6	4691.4	4691.4	4680.1	4674.5	4668.8	4668.8	4668.8	4668.8	4674.5
10°	4674.5	4657.5	4657.5	4651.9	4646.2	4634.9	4629.3	4634.9	4629.3	4634.9
12.5°	4612.3	4595.4	4606.7	4606.7	4606.7	4595.4	4589.8	4595.4	4589.8	4595.4
15°	4533.3	4527.7	4544.6	4550.2	4555.9	4550.2	4544.6	4544.6	4544.6	4544.6
17.5°	4454.3	4448.6	4471.2	4482.5	4482.5	4482.5	4482.5	4476.9	4476.9	4482.5
20°	4386.5	4363.9	4375.2	4397.8	4403.5	4403.5	4409.1	4414.8	4414.8	4414.8
22.5°	4290.6	4279.3	4284.9	4301.8	4313.1	4318.8	4335.7	4335.7	4341.4	4347.0
25°	4177.6	4194.6	4200.2	4217.2	4222.8	4234.1	4256.7	4268.0	4268.0	4268.0
27.5°	4059.1	4093.0	4115.5	4126.8	4138.1	4149.4	4177.6	4200.2	4200.2	4200.2
30°	3946.2	3980.1	4025.2	4047.8	4059.1	4070.4	4109.9	4138.1	4143.8	4143.8
32.5°	3827.6	3872.8	3940.5	3974.4	3980.1	3997.0	4047.8	4081.7	4087.3	4087.3
35°	3726.0	3782.5	3855.9	3901.0	3912.3	3929.2	3985.7	4025.2	4030.9	4030.9
37.5°	3635.7	3692.1	3771.2	3833.3	3844.6	3867.1	3923.6	3974.4	3980.1	3985.7
40°	3534.1	3601.8	3680.8	3754.2	3776.8	3799.4	3861.5	3912.3	3923.6	3923.6
42.5°	3432.4	3517.1	3596.2	3680.8	3709.1	3731.7	3799.4	3850.2	3861.5	3861.5
45°	3325.2	3432.4	3511.5	3601.8	3635.7	3658.3	3720.4	3776.8	3793.8	3793.8
47.5°	3229.2	3342.1	3421.2	3511.5	3545.4	3579.2	3635.7	3692.1	3709.1	3714.7
50°	3121.9	3246.1	3325.2	3409.9	3455.0	3488.9	3545.4	3607.5	3624.4	3618.7
52.5°	3014.7	3133.2	3217.9	3308.2	3353.4	3387.3	3438.1	3505.8	3522.8	3522.8
55°	2901.8	3020.3	3110.7	3195.3	3240.5	3285.7	3336.5	3392.9	3415.5	3409.9
57.5°	2788.9	2896.1	2992.1	3082.4	3121.9	3167.1	3217.9	3274.4	3291.3	3302.6
60°	2670.3	2766.3	2873.5	2958.2	2997.7	3042.9	3093.7	3144.5	3172.8	3167.1
62.5°	2540.5	2647.7	2749.3	2828.4	2867.9	2913.1	2963.9	3009.0	3031.6	3042.9
65°	2410.6	2512.2	2608.2	2692.9	2726.8	2771.9	2828.4	2862.3	2890.5	2896.1
67.5°	2275.1	2376.7	2472.7	2563.0	2596.9	2636.4	2687.2	2721.1	2749.3	2755.0
70°	2139.6	2246.9	2342.9	2427.6	2461.4	2495.3	2546.1	2580.0	2608.2	2608.2
72.5°	2009.8	2117.1	2207.4	2292.1	2325.9	2354.2	2405.0	2438.8	2461.4	2467.1
75°	1879.9	1981.6	2071.9	2156.6	2184.8	2218.7	2263.8	2297.7	2320.3	2325.9
77.5°	1750.1	1857.4	1942.0	2021.1	2049.3	2077.5	2128.3	2156.6	2179.2	2179.2
80°	1625.9	1727.5	1812.2	1885.6	1908.2	1942.0	1987.2	2015.4	2032.4	2043.7
82.5°	1507.3	1603.3	1682.4	1750.1	1784.0	1806.6	1851.7	1879.9	1896.9	1908.2
85°	1377.5	1479.1	1558.2	1625.9	1648.5	1682.4	1721.9	1750.1	1767.0	1772.7
87.5°	1258.9	1349.3	1428.3	1507.3	1535.6	1558.2	1597.7	1625.9	1642.8	1654.1
90°	1157.3	1242.0	1315.4	1377.5	1405.7	1433.9	1479.1	1507.3	1524.3	1529.9
92.5°	1083.9	1168.6	1236.4	1298.5	1326.7	1349.3	1388.8	1417.0	1433.9	1439.6
95°	1016.2	1095.2	1163.0	1225.1	1247.6	1270.2	1309.7	1332.3	1343.6	1354.9
97.5°	942.8	1027.5	1089.6	1146.0	1174.3	1191.2	1230.7	1253.3	1270.2	1275.9
100°	875.0	954.1	1016.2	1078.3	1100.9	1117.8	1157.3	1179.9	1191.2	1196.8
102.5°	807.3	886.3	948.4	1004.9	1027.5	1044.4	1078.3	1100.9	1117.8	1123.4
105°	739.6	812.9	875.0	931.5	954.1	971.0	1004.9	1027.5	1044.4	1050.1
107.5°	677.5	745.2	807.3	858.1	880.7	897.6	931.5	954.1	971.0	976.7
110°	615.4	677.5	739.6	790.4	812.9	829.9	863.8	880.7	897.6	903.3



TEST NUMBER: P257106

CATALOG NUMBER: HGL-S-UF-60L835-UNV-12

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	547.6	615.4	671.8	722.6	739.6	762.1	790.4	812.9	824.2	829.9
115°	491.2	553.3	604.1	654.9	671.8	688.7	722.6	739.6	756.5	756.5
117.5°	429.1	485.5	542.0	587.1	604.1	621.0	654.9	671.8	683.1	688.7
120°	372.6	423.4	474.2	519.4	542.0	553.3	587.1	604.1	615.4	621.0
122.5°	316.1	367.0	417.8	457.3	474.2	491.2	519.4	536.3	547.6	553.3
125°	259.7	310.5	355.7	395.2	412.1	429.1	451.6	468.6	479.9	485.5
127.5°	208.9	254.0	299.2	333.1	350.0	367.0	389.5	406.5	417.8	423.4
130°	158.1	197.6	242.8	276.6	293.6	304.9	327.4	344.4	355.7	361.3
132.5°	107.3	146.8	186.3	220.2	237.1	248.4	271.0	282.3	293.6	299.2
135°	67.7	101.6	135.5	163.7	180.7	191.9	214.5	225.8	237.1	237.1
137.5°	33.9	62.1	90.3	112.9	124.2	141.1	158.1	169.4	175.0	180.7
140°	11.3	28.2	50.8	67.7	79.0	90.3	107.3	118.6	124.2	129.8
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)