

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: P257082

Luminaire Tested: **HGL-S-UF-80L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257082
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-80L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16441.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

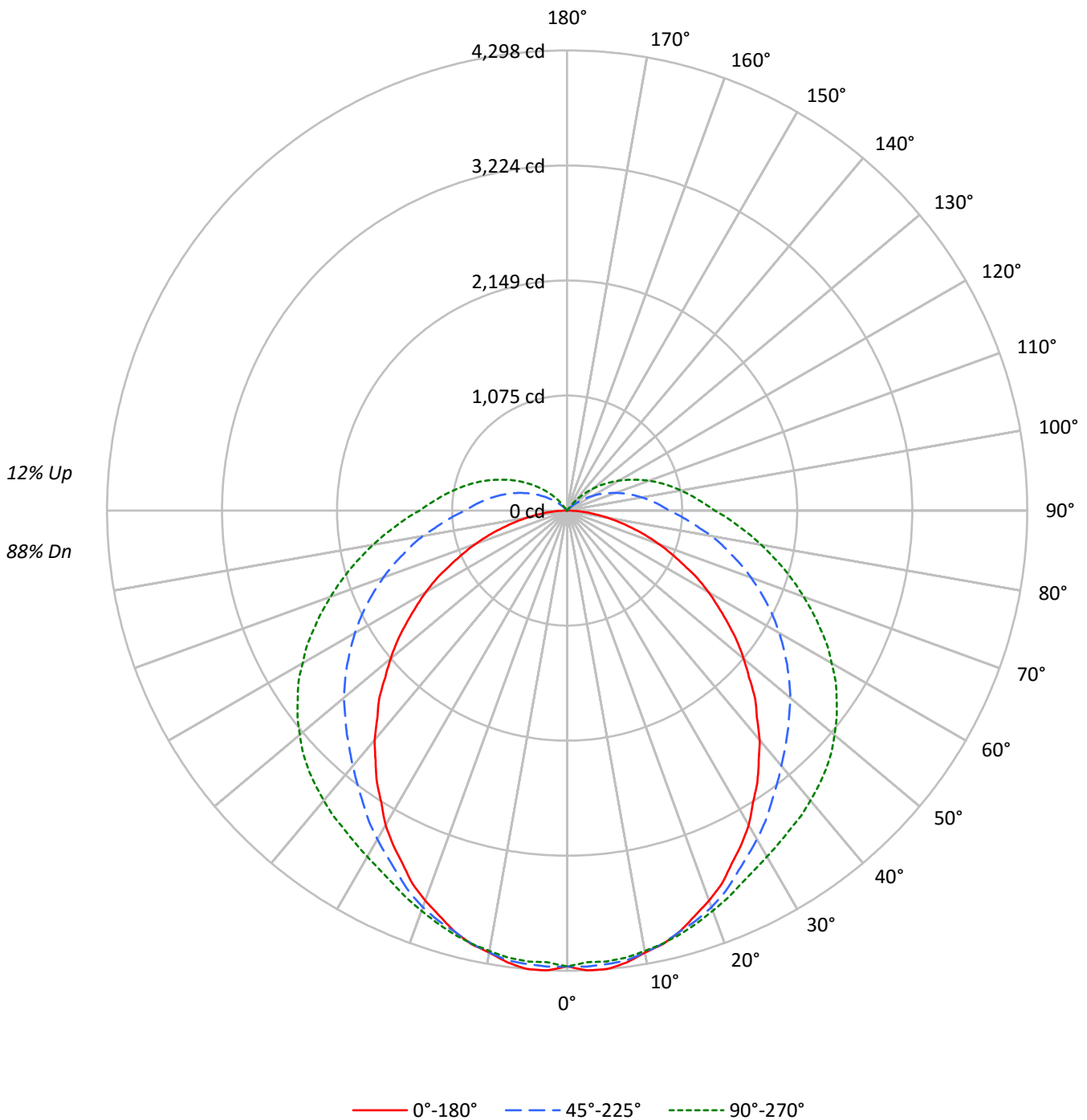
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24997	24997	24997
5°	25304	24359	23960
10°	24932	23612	23051
15°	24649	22722	22188
20°	24104	21986	21326
25°	23420	21014	20556
30°	22831	20184	20051
35°	22003	19362	19747
40°	21211	18678	19615
45°	20347	18188	19513
50°	19353	17831	19318
55°	18402	17437	19070
60°	17524	17092	18749
65°	16225	16747	18358
70°	15090	16427	17939
75°	13536	16117	17632
80°	11851	16091	17401
85°	9845	16133	17368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.2	2.5
10°-20°	1146.7	7.0
20°-30°	1720.6	10.5
30°-40°	2089.0	12.7
40°-50°	2256.3	13.7
50°-60°	2209.8	13.4
60°-70°	1960.1	11.9
70°-80°	1570.1	9.5
80°-90°	1137.9	6.9
90°-100°	802.0	4.9
100°-110°	559.4	3.4
110°-120°	346.3	2.1
120°-130°	176.1	1.1
130°-140°	61.0	0.4
140°-150°	2.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3270.5	19.9
0°-40°	5359.5	32.6
0°-60°	9825.6	59.8
0°-90°	14493.7	88.2
90°-120°	1707.7	10.4
90°-150°	1947.7	11.8
90°-180°	1948.0	11.8
0°-180°	16441.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4258	4258	4258	4258	4258	
5°	4298	4258	4253	4232	4227	406
15°	4069	4039	4069	4105	4095	1144
25°	3637	3647	3744	3805	3846	1679
35°	3098	3118	3327	3525	3632	1934
45°	2482	2548	2915	3276	3418	1907
55°	1831	1984	2508	2920	3072	1641
65°	1200	1485	2060	2457	2610	1198
75°	626	1022	1587	1969	2096	669
85°	168	626	1144	1485	1597	181
90°	5	458	951	1267	1378	13
95°	0	361	829	1124	1221	0
105°	0	193	595	860	946	0
115°	0	61	376	605	682	0
125°	0	0	183	371	438	0
135°	0	0	30	163	214	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6
2.5°	4298.3	4293.3	4278.0	4262.7	4257.6	4257.6	4252.6	4247.5	4247.5	4242.4	4262.7
5°	4298.3	4293.3	4278.0	4257.6	4252.6	4257.6	4252.6	4242.4	4242.4	4237.3	4252.6
7.5°	4257.6	4247.5	4237.3	4222.0	4217.0	4217.0	4211.9	4211.9	4211.9	4211.9	4237.3
10°	4191.5	4186.4	4176.3	4161.0	4161.0	4155.9	4155.9	4161.0	4161.0	4166.1	4191.5
12.5°	4145.7	4135.6	4120.3	4105.0	4100.0	4100.0	4094.9	4089.8	4094.9	4100.0	4140.6
15°	4069.4	4064.3	4054.2	4038.9	4038.9	4038.9	4038.9	4033.8	4033.8	4038.9	4069.4
17.5°	3967.7	3957.5	3952.4	3942.3	3947.4	3952.4	3957.5	3952.4	3962.6	3977.9	4013.5
20°	3876.1	3866.0	3855.8	3840.5	3840.5	3845.6	3850.7	3850.7	3876.1	3896.5	3942.3
22.5°	3774.4	3769.3	3759.1	3754.1	3754.1	3759.1	3759.1	3749.0	3764.2	3794.7	3855.8
25°	3637.1	3632.0	3626.9	3626.9	3637.1	3647.2	3652.3	3657.4	3672.7	3693.0	3743.9
27.5°	3520.1	3515.0	3504.8	3494.6	3504.8	3515.0	3520.1	3530.2	3560.8	3601.4	3642.1
30°	3392.9	3387.8	3382.7	3382.7	3392.9	3398.0	3403.1	3398.0	3438.7	3499.7	3545.5
32.5°	3230.1	3225.0	3230.1	3230.1	3255.5	3270.8	3281.0	3286.1	3321.7	3377.6	3443.8
35°	3097.9	3097.9	3092.8	3102.9	3108.0	3118.2	3128.4	3153.8	3204.7	3260.6	3326.8
37.5°	2940.2	2940.2	2940.2	2965.6	2985.9	2991.0	2996.1	3026.6	3092.8	3148.7	3219.9
40°	2797.7	2797.7	2797.7	2807.9	2823.2	2838.4	2858.8	2894.4	2960.5	3041.9	3113.1
42.5°	2624.8	2629.9	2640.0	2665.5	2685.8	2696.0	2711.3	2767.2	2838.4	2935.1	3011.4
45°	2482.4	2477.3	2487.4	2507.8	2528.1	2548.5	2573.9	2635.0	2721.4	2828.3	2914.7
47.5°	2304.3	2309.4	2319.6	2355.2	2380.6	2406.1	2436.6	2507.8	2609.5	2716.3	2813.0
50°	2151.7	2156.8	2182.2	2202.6	2228.0	2258.5	2294.1	2385.7	2497.6	2604.4	2721.4
52.5°	1999.1	2004.2	2024.5	2039.8	2080.5	2116.1	2161.9	2263.6	2380.6	2497.6	2614.6
55°	1831.2	1841.4	1856.7	1892.3	1943.2	1983.8	2034.7	2146.6	2263.6	2390.8	2507.8
57.5°	1673.6	1678.6	1704.1	1739.7	1800.7	1851.6	1912.6	2029.6	2156.8	2278.9	2395.9
60°	1526.0	1536.2	1551.5	1597.3	1678.6	1729.5	1790.6	1912.6	2044.9	2167.0	2289.1
62.5°	1373.4	1383.6	1404.0	1454.8	1551.5	1607.4	1673.6	1800.7	1933.0	2055.1	2177.1
65°	1200.5	1210.7	1241.2	1307.3	1424.3	1485.3	1551.5	1683.7	1810.9	1938.1	2060.2
67.5°	1053.0	1058.1	1098.7	1170.0	1292.0	1368.3	1439.6	1566.7	1693.9	1821.1	1943.2
70°	910.5	920.7	951.2	1047.9	1180.1	1241.2	1317.5	1454.8	1582.0	1709.2	1826.2
72.5°	768.1	778.3	824.1	930.9	1068.2	1134.4	1195.4	1342.9	1470.1	1592.2	1709.2
75°	625.7	640.9	702.0	824.1	956.3	1022.4	1088.6	1220.8	1358.2	1475.2	1587.1
77.5°	498.5	513.8	590.1	717.2	849.5	915.6	981.8	1108.9	1236.1	1363.3	1480.3
80°	376.4	396.8	488.3	615.5	747.8	813.9	874.9	1007.2	1129.3	1246.3	1368.3
82.5°	269.6	295.0	401.9	523.9	656.2	717.2	778.3	905.4	1027.5	1139.4	1246.3
85°	167.9	213.6	320.5	437.5	564.6	625.7	686.7	813.9	930.9	1042.8	1144.5
87.5°	81.4	142.4	244.2	356.1	478.2	539.2	600.2	722.3	834.2	946.1	1047.9
90°	5.1	81.4	173.0	279.8	401.9	457.8	518.9	635.8	747.8	854.6	951.2
92.5°	0.0	50.9	137.3	239.1	351.0	412.0	468.0	585.0	691.8	798.6	890.2
95°	0.0	25.4	106.8	203.5	310.3	361.2	417.1	529.0	635.8	737.6	829.1
97.5°	0.0	5.1	76.3	162.8	264.5	320.5	371.3	478.2	585.0	681.6	768.1
100°	0.0	0.0	50.9	132.3	223.8	274.7	325.6	427.3	529.0	620.6	707.1
102.5°	0.0	0.0	25.4	101.7	188.2	234.0	279.8	381.5	478.2	569.7	651.1
105°	0.0	0.0	5.1	71.2	152.6	193.3	239.1	330.6	427.3	513.8	595.2
107.5°	0.0	0.0	0.0	40.7	117.0	157.7	198.4	284.9	376.4	457.8	534.1
110°	0.0	0.0	0.0	20.3	86.5	122.1	162.8	244.2	325.6	406.9	483.2



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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	5.1	56.0	91.6	127.2	203.5	279.8	356.1	427.3
115°	0.0	0.0	0.0	0.0	30.5	61.0	91.6	162.8	234.0	310.3	376.4
117.5°	0.0	0.0	0.0	0.0	10.2	35.6	61.0	127.2	193.3	259.4	325.6
120°	0.0	0.0	0.0	0.0	0.0	15.3	35.6	91.6	152.6	213.6	274.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	56.0	111.9	173.0	228.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	76.3	132.3	183.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	45.8	91.6	137.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3	56.0	96.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	30.5	61.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	30.5
137.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
140°	5.1	5.1	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°	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6	4257.6
2.5°	4278.0	4257.6	4257.6	4252.6	4247.5	4242.4	4232.2	4227.1	4217.0	4222.0
5°	4267.8	4247.5	4247.5	4237.3	4232.2	4232.2	4227.1	4227.1	4222.0	4227.1
7.5°	4252.6	4227.1	4227.1	4217.0	4211.9	4206.8	4206.8	4206.8	4206.8	4211.9
10°	4211.9	4196.6	4196.6	4191.5	4186.4	4176.3	4171.2	4176.3	4171.2	4176.3
12.5°	4155.9	4140.6	4150.8	4150.8	4150.8	4140.6	4135.6	4140.6	4135.6	4140.6
15°	4084.7	4079.6	4094.9	4100.0	4105.0	4100.0	4094.9	4094.9	4094.9	4094.9
17.5°	4013.5	4008.4	4028.7	4038.9	4038.9	4038.9	4038.9	4033.8	4033.8	4038.9
20°	3952.4	3932.1	3942.3	3962.6	3967.7	3967.7	3972.8	3977.9	3977.9	3977.9
22.5°	3866.0	3855.8	3860.9	3876.1	3886.3	3891.4	3906.7	3906.7	3911.7	3916.8
25°	3764.2	3779.5	3784.6	3799.8	3804.9	3815.1	3835.4	3845.6	3845.6	3845.6
27.5°	3657.4	3687.9	3708.3	3718.4	3728.6	3738.8	3764.2	3784.6	3784.6	3784.6
30°	3555.7	3586.2	3626.9	3647.2	3657.4	3667.6	3703.2	3728.6	3733.7	3733.7
32.5°	3448.8	3489.5	3550.6	3581.1	3586.2	3601.4	3647.2	3677.8	3682.8	3682.8
35°	3357.3	3408.2	3474.3	3515.0	3525.1	3540.4	3591.3	3626.9	3632.0	3632.0
37.5°	3275.9	3326.8	3398.0	3453.9	3464.1	3484.5	3535.3	3581.1	3586.2	3591.3
40°	3184.3	3245.4	3316.6	3382.7	3403.1	3423.4	3479.4	3525.1	3535.3	3535.3
42.5°	3092.8	3169.1	3240.3	3316.6	3342.0	3362.4	3423.4	3469.2	3479.4	3479.4
45°	2996.1	3092.8	3164.0	3245.4	3275.9	3296.2	3352.2	3403.1	3418.3	3418.3
47.5°	2909.6	3011.4	3082.6	3164.0	3194.5	3225.0	3275.9	3326.8	3342.0	3347.1
50°	2813.0	2924.9	2996.1	3072.4	3113.1	3143.6	3194.5	3250.5	3265.7	3260.6
52.5°	2716.3	2823.2	2899.5	2980.9	3021.6	3052.1	3097.9	3158.9	3174.2	3174.2
55°	2614.6	2721.4	2802.8	2879.1	2919.8	2960.5	3006.3	3057.2	3077.5	3072.4
57.5°	2512.9	2609.5	2696.0	2777.4	2813.0	2853.7	2899.5	2950.3	2965.6	2975.8
60°	2406.1	2492.5	2589.2	2665.5	2701.1	2741.8	2787.6	2833.3	2858.8	2853.7
62.5°	2289.1	2385.7	2477.3	2548.5	2584.1	2624.8	2670.6	2711.3	2731.6	2741.8
65°	2172.1	2263.6	2350.1	2426.4	2456.9	2497.6	2548.5	2579.0	2604.4	2609.5
67.5°	2050.0	2141.5	2228.0	2309.4	2339.9	2375.5	2421.3	2451.8	2477.3	2482.4
70°	1927.9	2024.5	2111.0	2187.3	2217.8	2248.4	2294.1	2324.7	2350.1	2350.1
72.5°	1810.9	1907.5	1988.9	2065.2	2095.8	2121.2	2167.0	2197.5	2217.8	2222.9
75°	1693.9	1785.5	1866.9	1943.2	1968.6	1999.1	2039.8	2070.3	2090.7	2095.8
77.5°	1576.9	1673.6	1749.9	1821.1	1846.5	1871.9	1917.7	1943.2	1963.5	1963.5
80°	1465.0	1556.6	1632.9	1699.0	1719.3	1749.9	1790.6	1816.0	1831.2	1841.4
82.5°	1358.2	1444.6	1515.9	1576.9	1607.4	1627.8	1668.5	1693.9	1709.2	1719.3
85°	1241.2	1332.7	1404.0	1465.0	1485.3	1515.9	1551.5	1576.9	1592.2	1597.3
87.5°	1134.4	1215.7	1287.0	1358.2	1383.6	1404.0	1439.6	1465.0	1480.3	1490.4
90°	1042.8	1119.1	1185.2	1241.2	1266.6	1292.0	1332.7	1358.2	1373.4	1378.5
92.5°	976.7	1053.0	1114.0	1170.0	1195.4	1215.7	1251.4	1276.8	1292.0	1297.1
95°	915.6	986.8	1047.9	1103.8	1124.2	1144.5	1180.1	1200.5	1210.7	1220.8
97.5°	849.5	925.8	981.8	1032.6	1058.1	1073.3	1108.9	1129.3	1144.5	1149.6
100°	788.5	859.7	915.6	971.6	991.9	1007.2	1042.8	1063.1	1073.3	1078.4
102.5°	727.4	798.6	854.6	905.4	925.8	941.1	971.6	991.9	1007.2	1012.3
105°	666.4	732.5	788.5	839.3	859.7	874.9	905.4	925.8	941.1	946.1
107.5°	610.4	671.5	727.4	773.2	793.5	808.8	839.3	859.7	874.9	880.0
110°	554.5	610.4	666.4	712.2	732.5	747.8	778.3	793.5	808.8	813.9



TEST NUMBER: P257082

CATALOG NUMBER: HGL-S-UF-80L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	493.4	554.5	605.3	651.1	666.4	686.7	712.2	732.5	742.7	747.8
115°	442.6	498.5	544.3	590.1	605.3	620.6	651.1	666.4	681.6	681.6
117.5°	386.6	437.5	488.3	529.0	544.3	559.5	590.1	605.3	615.5	620.6
120°	335.7	381.5	427.3	468.0	488.3	498.5	529.0	544.3	554.5	559.5
122.5°	284.9	330.6	376.4	412.0	427.3	442.6	468.0	483.2	493.4	498.5
125°	234.0	279.8	320.5	356.1	371.3	386.6	406.9	422.2	432.4	437.5
127.5°	188.2	228.9	269.6	300.1	315.4	330.6	351.0	366.2	376.4	381.5
130°	142.4	178.0	218.7	249.3	264.5	274.7	295.0	310.3	320.5	325.6
132.5°	96.6	132.3	167.9	198.4	213.6	223.8	244.2	254.3	264.5	269.6
135°	61.0	91.6	122.1	147.5	162.8	173.0	193.3	203.5	213.6	213.6
137.5°	30.5	56.0	81.4	101.7	111.9	127.2	142.4	152.6	157.7	162.8
140°	10.2	25.4	45.8	61.0	71.2	81.4	96.6	106.8	111.9	117.0
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)