

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: P257052

Luminaire Tested: **HGL-S-UF-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257052
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-50L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5033.7 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

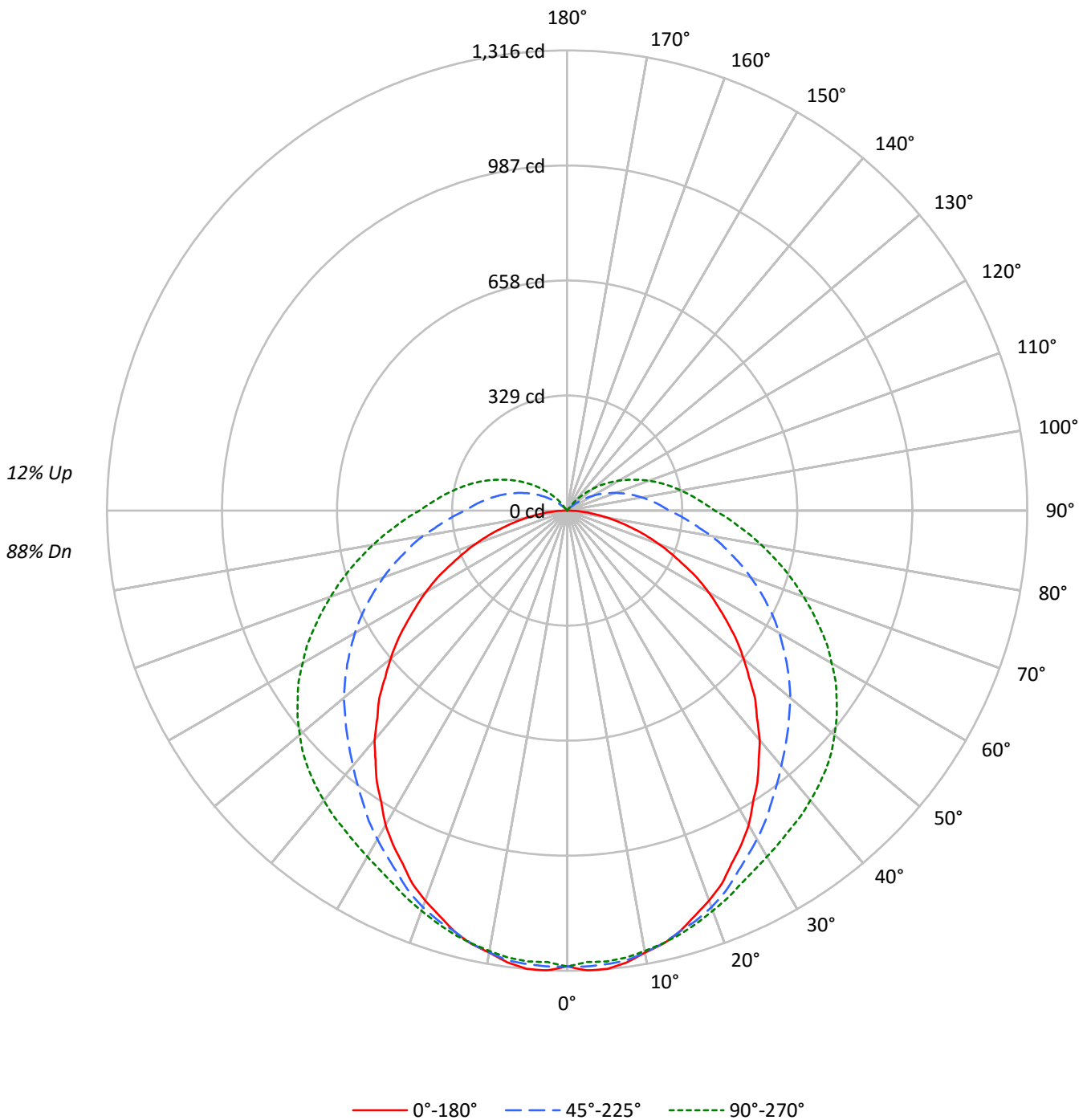
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

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°	15306	15306	15306
5°	15477	14904	14672
10°	15232	14436	14114
15°	15041	13882	13586
20°	14690	13423	13059
25°	14254	12819	12587
30°	13876	12304	12277
35°	13353	11794	12092
40°	12850	11368	12011
45°	12300	11061	11949
50°	11673	10833	11829
55°	11067	10583	11678
60°	10499	10360	11480
65°	9671	10137	11240
70°	8933	9927	10984
75°	7923	9719	10796
80°	6788	9677	10656
85°	5337	9666	10634



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	2.5
10°-20°	351.1	7.0
20°-30°	526.8	10.5
30°-40°	639.6	12.7
40°-50°	690.8	13.7
50°-60°	676.6	13.4
60°-70°	600.1	11.9
70°-80°	480.7	9.5
80°-90°	348.4	6.9
90°-100°	245.5	4.9
100°-110°	171.3	3.4
110°-120°	106.0	2.1
120°-130°	53.9	1.1
130°-140°	18.7	0.4
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1001.3	19.9
0°-40°	1640.9	32.6
0°-60°	3008.3	59.8
0°-90°	4437.4	88.2
90°-120°	522.8	10.4
90°-150°	596.3	11.8
90°-180°	596.0	11.8
0°-180°	5033.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1316	1304	1302	1296	1294	124
15°	1246	1237	1246	1257	1254	350
25°	1114	1117	1146	1165	1177	514
35°	948	955	1018	1079	1112	592
45°	760	780	892	1003	1047	584
55°	561	607	768	894	941	503
65°	368	455	631	752	799	367
75°	192	313	486	603	642	205
85°	51	192	350	455	489	55
90°	2	140	291	388	422	4
95°	0	111	254	344	374	0
105°	0	59	182	263	290	0
115°	0	19	115	185	209	0
125°	0	0	56	114	134	0
135°	0	0	9	50	65	1
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



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1316.0	1314.4	1309.8	1305.1	1303.5	1303.5	1302.0	1300.4	1300.4	1298.9	1305.1
5°	1316.0	1314.4	1309.8	1303.5	1302.0	1303.5	1302.0	1298.9	1298.9	1297.3	1302.0
7.5°	1303.5	1300.4	1297.3	1292.6	1291.1	1291.1	1289.5	1289.5	1289.5	1289.5	1297.3
10°	1283.3	1281.7	1278.6	1273.9	1273.9	1272.4	1272.4	1273.9	1273.9	1275.5	1283.3
12.5°	1269.3	1266.2	1261.5	1256.8	1255.3	1255.3	1253.7	1252.1	1253.7	1255.3	1267.7
15°	1245.9	1244.4	1241.2	1236.6	1236.6	1236.6	1236.6	1235.0	1235.0	1236.6	1245.9
17.5°	1214.8	1211.7	1210.1	1207.0	1208.5	1210.1	1211.7	1210.1	1213.2	1217.9	1228.8
20°	1186.7	1183.6	1180.5	1175.8	1175.8	1177.4	1178.9	1178.9	1186.7	1193.0	1207.0
22.5°	1155.6	1154.0	1150.9	1149.4	1149.4	1150.9	1150.9	1147.8	1152.5	1161.8	1180.5
25°	1113.5	1112.0	1110.4	1110.4	1113.5	1116.7	1118.2	1119.8	1124.4	1130.7	1146.2
27.5°	1077.7	1076.2	1073.0	1069.9	1073.0	1076.2	1077.7	1080.8	1090.2	1102.6	1115.1
30°	1038.8	1037.2	1035.7	1035.7	1038.8	1040.3	1041.9	1040.3	1052.8	1071.5	1085.5
32.5°	988.9	987.4	988.9	988.9	996.7	1001.4	1004.5	1006.1	1017.0	1034.1	1054.4
35°	948.5	948.5	946.9	950.0	951.6	954.7	957.8	965.6	981.2	998.3	1018.5
37.5°	900.2	900.2	900.2	908.0	914.2	915.7	917.3	926.7	946.9	964.0	985.8
40°	856.6	856.6	856.6	859.7	864.4	869.0	875.3	886.2	906.4	931.3	953.1
42.5°	803.6	805.2	808.3	816.1	822.3	825.4	830.1	847.2	869.0	898.6	922.0
45°	760.0	758.5	761.6	767.8	774.0	780.3	788.0	806.7	833.2	865.9	892.4
47.5°	705.5	707.1	710.2	721.1	728.9	736.6	746.0	767.8	798.9	831.6	861.2
50°	658.8	660.3	668.1	674.4	682.1	691.5	702.4	730.4	764.7	797.4	833.2
52.5°	612.1	613.6	619.8	624.5	637.0	647.9	661.9	693.0	728.9	764.7	800.5
55°	560.7	563.8	568.4	579.4	594.9	607.4	623.0	657.2	693.0	732.0	767.8
57.5°	512.4	513.9	521.7	532.6	551.3	566.9	585.6	621.4	660.3	697.7	733.5
60°	467.2	470.3	475.0	489.0	513.9	529.5	548.2	585.6	626.1	663.5	700.8
62.5°	420.5	423.6	429.8	445.4	475.0	492.1	512.4	551.3	591.8	629.2	666.6
65°	367.5	370.7	380.0	400.3	436.1	454.8	475.0	515.5	554.4	593.4	630.7
67.5°	322.4	323.9	336.4	358.2	395.6	418.9	440.7	479.7	518.6	557.5	594.9
70°	278.8	281.9	291.2	320.8	361.3	380.0	403.4	445.4	484.3	523.3	559.1
72.5°	235.2	238.3	252.3	285.0	327.1	347.3	366.0	411.2	450.1	487.5	523.3
75°	191.6	196.2	214.9	252.3	292.8	313.0	333.3	373.8	415.8	451.6	485.9
77.5°	152.6	157.3	180.7	219.6	260.1	280.3	300.6	339.5	378.4	417.4	453.2
80°	115.2	121.5	149.5	188.4	228.9	249.2	267.9	308.4	345.7	381.6	418.9
82.5°	82.5	90.3	123.0	160.4	200.9	219.6	238.3	277.2	314.6	348.9	381.6
85°	51.4	65.4	98.1	133.9	172.9	191.6	210.2	249.2	285.0	319.3	350.4
87.5°	24.9	43.6	74.8	109.0	146.4	165.1	183.8	221.2	255.4	289.7	320.8
90°	1.6	24.9	53.0	85.7	123.0	140.2	158.9	194.7	228.9	261.6	291.2
92.5°	0.0	15.6	42.0	73.2	107.5	126.1	143.3	179.1	211.8	244.5	272.5
95°	0.0	7.8	32.7	62.3	95.0	110.6	127.7	162.0	194.7	225.8	253.9
97.5°	0.0	1.6	23.4	49.8	81.0	98.1	113.7	146.4	179.1	208.7	235.2
100°	0.0	0.0	15.6	40.5	68.5	84.1	99.7	130.8	162.0	190.0	216.5
102.5°	0.0	0.0	7.8	31.1	57.6	71.6	85.7	116.8	146.4	174.4	199.3
105°	0.0	0.0	1.6	21.8	46.7	59.2	73.2	101.2	130.8	157.3	182.2
107.5°	0.0	0.0	0.0	12.5	35.8	48.3	60.7	87.2	115.2	140.2	163.5
110°	0.0	0.0	0.0	6.2	26.5	37.4	49.8	74.8	99.7	124.6	148.0



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	1.6	17.1	28.0	38.9	62.3	85.7	109.0	130.8
115°	0.0	0.0	0.0	0.0	9.3	18.7	28.0	49.8	71.6	95.0	115.2
117.5°	0.0	0.0	0.0	0.0	3.1	10.9	18.7	38.9	59.2	79.4	99.7
120°	0.0	0.0	0.0	0.0	0.0	4.7	10.9	28.0	46.7	65.4	84.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	17.1	34.3	53.0	70.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	23.4	40.5	56.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	14.0	28.0	42.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	17.1	29.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.3	18.7
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.3
137.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
140°	1.6	1.6	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



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1309.8	1303.5	1303.5	1302.0	1300.4	1298.9	1295.8	1294.2	1291.1	1292.6
5°	1306.7	1300.4	1300.4	1297.3	1295.8	1295.8	1294.2	1294.2	1292.6	1294.2
7.5°	1302.0	1294.2	1294.2	1291.1	1289.5	1288.0	1288.0	1288.0	1288.0	1289.5
10°	1289.5	1284.9	1284.9	1283.3	1281.7	1278.6	1277.1	1278.6	1277.1	1278.6
12.5°	1272.4	1267.7	1270.8	1270.8	1270.8	1267.7	1266.2	1267.7	1266.2	1267.7
15°	1250.6	1249.0	1253.7	1255.3	1256.8	1255.3	1253.7	1253.7	1253.7	1253.7
17.5°	1228.8	1227.2	1233.5	1236.6	1236.6	1236.6	1236.6	1235.0	1235.0	1236.6
20°	1210.1	1203.9	1207.0	1213.2	1214.8	1214.8	1216.3	1217.9	1217.9	1217.9
22.5°	1183.6	1180.5	1182.1	1186.7	1189.9	1191.4	1196.1	1196.1	1197.6	1199.2
25°	1152.5	1157.1	1158.7	1163.4	1164.9	1168.0	1174.3	1177.4	1177.4	1177.4
27.5°	1119.8	1129.1	1135.3	1138.5	1141.6	1144.7	1152.5	1158.7	1158.7	1158.7
30°	1088.6	1098.0	1110.4	1116.7	1119.8	1122.9	1133.8	1141.6	1143.1	1143.1
32.5°	1055.9	1068.4	1087.1	1096.4	1098.0	1102.6	1116.7	1126.0	1127.6	1127.6
35°	1027.9	1043.5	1063.7	1076.2	1079.3	1083.9	1099.5	1110.4	1112.0	1112.0
37.5°	1003.0	1018.5	1040.3	1057.5	1060.6	1066.8	1082.4	1096.4	1098.0	1099.5
40°	974.9	993.6	1015.4	1035.7	1041.9	1048.1	1065.3	1079.3	1082.4	1082.4
42.5°	946.9	970.3	992.1	1015.4	1023.2	1029.4	1048.1	1062.1	1065.3	1065.3
45°	917.3	946.9	968.7	993.6	1003.0	1009.2	1026.3	1041.9	1046.6	1046.6
47.5°	890.8	922.0	943.8	968.7	978.0	987.4	1003.0	1018.5	1023.2	1024.8
50°	861.2	895.5	917.3	940.7	953.1	962.5	978.0	995.2	999.8	998.3
52.5°	831.6	864.4	887.7	912.6	925.1	934.4	948.5	967.1	971.8	971.8
55°	800.5	833.2	858.1	881.5	893.9	906.4	920.4	936.0	942.2	940.7
57.5°	769.4	798.9	825.4	850.3	861.2	873.7	887.7	903.3	908.0	911.1
60°	736.6	763.1	792.7	816.1	827.0	839.4	853.5	867.5	875.3	873.7
62.5°	700.8	730.4	758.5	780.3	791.2	803.6	817.6	830.1	836.3	839.4
65°	665.0	693.0	719.5	742.9	752.2	764.7	780.3	789.6	797.4	798.9
67.5°	627.6	655.7	682.1	707.1	716.4	727.3	741.3	750.7	758.5	760.0
70°	590.3	619.8	646.3	669.7	679.0	688.4	702.4	711.7	719.5	719.5
72.5°	554.4	584.0	608.9	632.3	641.6	649.4	663.5	672.8	679.0	680.6
75°	518.6	546.6	571.6	594.9	602.7	612.1	624.5	633.9	640.1	641.6
77.5°	482.8	512.4	535.7	557.5	565.3	573.1	587.1	594.9	601.2	601.2
80°	448.5	476.6	499.9	520.2	526.4	535.7	548.2	556.0	560.7	563.8
82.5°	415.8	442.3	464.1	482.8	492.1	498.4	510.8	518.6	523.3	526.4
85°	380.0	408.0	429.8	448.5	454.8	464.1	475.0	482.8	487.5	489.0
87.5°	347.3	372.2	394.0	415.8	423.6	429.8	440.7	448.5	453.2	456.3
90°	319.3	342.6	362.9	380.0	387.8	395.6	408.0	415.8	420.5	422.1
92.5°	299.0	322.4	341.1	358.2	366.0	372.2	383.1	390.9	395.6	397.1
95°	280.3	302.1	320.8	338.0	344.2	350.4	361.3	367.5	370.7	373.8
97.5°	260.1	283.4	300.6	316.2	323.9	328.6	339.5	345.7	350.4	352.0
100°	241.4	263.2	280.3	297.5	303.7	308.4	319.3	325.5	328.6	330.2
102.5°	222.7	244.5	261.6	277.2	283.4	288.1	297.5	303.7	308.4	309.9
105°	204.0	224.3	241.4	257.0	263.2	267.9	277.2	283.4	288.1	289.7
107.5°	186.9	205.6	222.7	236.7	243.0	247.6	257.0	263.2	267.9	269.4
110°	169.8	186.9	204.0	218.0	224.3	228.9	238.3	243.0	247.6	249.2



TEST NUMBER: P257052

CATALOG NUMBER: HGL-S-UF-50L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	151.1	169.8	185.3	199.3	204.0	210.2	218.0	224.3	227.4	228.9
115°	135.5	152.6	166.6	180.7	185.3	190.0	199.3	204.0	208.7	208.7
117.5°	118.4	133.9	149.5	162.0	166.6	171.3	180.7	185.3	188.4	190.0
120°	102.8	116.8	130.8	143.3	149.5	152.6	162.0	166.6	169.8	171.3
122.5°	87.2	101.2	115.2	126.1	130.8	135.5	143.3	148.0	151.1	152.6
125°	71.6	85.7	98.1	109.0	113.7	118.4	124.6	129.3	132.4	133.9
127.5°	57.6	70.1	82.5	91.9	96.6	101.2	107.5	112.1	115.2	116.8
130°	43.6	54.5	67.0	76.3	81.0	84.1	90.3	95.0	98.1	99.7
132.5°	29.6	40.5	51.4	60.7	65.4	68.5	74.8	77.9	81.0	82.5
135°	18.7	28.0	37.4	45.2	49.8	53.0	59.2	62.3	65.4	65.4
137.5°	9.3	17.1	24.9	31.1	34.3	38.9	43.6	46.7	48.3	49.8
140°	3.1	7.8	14.0	18.7	21.8	24.9	29.6	32.7	34.3	35.8
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)