

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: P257057

Luminaire Tested: **HGL-S-UF-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257057
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-50L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108.7 lumens
Efficiency: N/A
Efficacy: 132.7 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

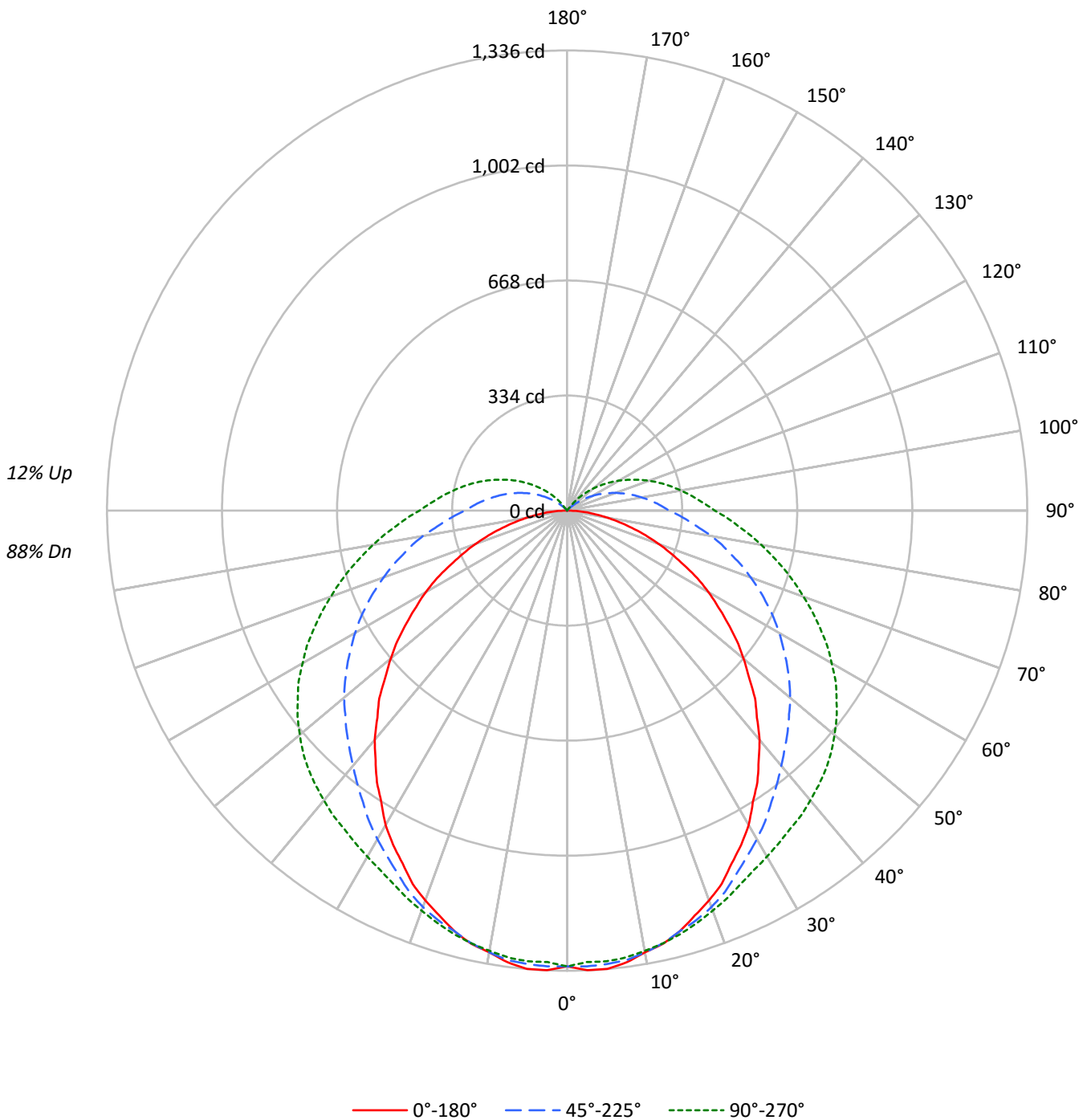
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15535	15535	15535
5°	15707	15126	14890
10°	15458	14651	14325
15°	15266	14089	13789
20°	14909	13623	13253
25°	14466	13010	12774
30°	14084	12488	12461
35°	13552	11970	12271
40°	13040	11538	12189
45°	12483	11226	12127
50°	11846	10995	12006
55°	11231	10740	11851
60°	10656	10515	11651
65°	9816	10288	11408
70°	9064	10074	11148
75°	8039	9863	10957
80°	6894	9822	10815
85°	5420	9809	10793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	2.5
10°-20°	356.3	7.0
20°-30°	534.6	10.5
30°-40°	649.1	12.7
40°-50°	701.1	13.7
50°-60°	686.6	13.4
60°-70°	609.0	11.9
70°-80°	487.9	9.5
80°-90°	353.6	6.9
90°-100°	249.2	4.9
100°-110°	173.8	3.4
110°-120°	107.6	2.1
120°-130°	54.7	1.1
130°-140°	19.0	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°	1016.2	19.9
0°-40°	1665.3	32.6
0°-60°	3053.1	59.8
0°-90°	4503.5	88.2
90°-120°	530.6	10.4
90°-150°	605.2	11.8
90°-180°	605.0	11.8
0°-180°	5108.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1336	1323	1321	1315	1314	126
15°	1264	1255	1264	1276	1272	356
25°	1130	1133	1163	1182	1195	522
35°	963	969	1034	1095	1128	601
45°	771	792	906	1018	1062	593
55°	569	616	779	907	955	510
65°	373	462	640	763	811	372
75°	194	318	493	612	651	208
85°	52	194	356	462	496	56
90°	2	142	296	394	428	4
95°	0	112	258	349	379	0
105°	0	60	185	267	294	0
115°	0	19	117	188	212	0
125°	0	0	57	115	136	0
135°	0	0	10	51	66	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1335.6	1334.0	1329.3	1324.5	1323.0	1323.0	1321.4	1319.8	1319.8	1318.2	1324.5
5°	1335.6	1334.0	1329.3	1323.0	1321.4	1323.0	1321.4	1318.2	1318.2	1316.6	1321.4
7.5°	1323.0	1319.8	1316.6	1311.9	1310.3	1310.3	1308.7	1308.7	1308.7	1308.7	1316.6
10°	1302.4	1300.8	1297.7	1292.9	1292.9	1291.3	1291.3	1292.9	1292.9	1294.5	1302.4
12.5°	1288.2	1285.0	1280.3	1275.5	1274.0	1274.0	1272.4	1270.8	1272.4	1274.0	1286.6
15°	1264.5	1262.9	1259.7	1255.0	1255.0	1255.0	1255.0	1253.4	1253.4	1255.0	1264.5
17.5°	1232.9	1229.7	1228.1	1225.0	1226.5	1228.1	1229.7	1228.1	1231.3	1236.0	1247.1
20°	1204.4	1201.2	1198.1	1193.3	1193.3	1194.9	1196.5	1196.5	1204.4	1210.7	1225.0
22.5°	1172.8	1171.2	1168.1	1166.5	1166.5	1168.1	1168.1	1164.9	1169.6	1179.1	1198.1
25°	1130.1	1128.5	1127.0	1127.0	1130.1	1133.3	1134.9	1136.4	1141.2	1147.5	1163.3
27.5°	1093.8	1092.2	1089.0	1085.9	1089.0	1092.2	1093.8	1096.9	1106.4	1119.1	1131.7
30°	1054.3	1052.7	1051.1	1051.1	1054.3	1055.8	1057.4	1055.8	1068.5	1087.4	1101.7
32.5°	1003.7	1002.1	1003.7	1003.7	1011.6	1016.3	1019.5	1021.1	1032.1	1049.5	1070.1
35°	962.6	962.6	961.0	964.2	965.7	968.9	972.1	980.0	995.8	1013.2	1033.7
37.5°	913.6	913.6	913.6	921.5	927.8	929.4	931.0	940.4	961.0	978.4	1000.5
40°	869.3	869.3	869.3	872.5	877.2	882.0	888.3	899.4	919.9	945.2	967.3
42.5°	815.6	817.2	820.3	828.2	834.6	837.7	842.5	859.8	882.0	912.0	935.7
45°	771.3	769.7	772.9	779.2	785.6	791.9	799.8	818.7	845.6	878.8	905.7
47.5°	716.0	717.6	720.7	731.8	739.7	747.6	757.1	779.2	810.8	844.0	874.1
50°	668.6	670.2	678.1	684.4	692.3	701.8	712.8	741.3	776.1	809.3	845.6
52.5°	621.2	622.8	629.1	633.8	646.5	657.5	671.7	703.4	739.7	776.1	812.4
55°	569.0	572.2	576.9	588.0	603.8	616.4	632.2	667.0	703.4	742.9	779.2
57.5°	520.0	521.6	529.5	540.6	559.5	575.3	594.3	630.7	670.2	708.1	744.5
60°	474.2	477.3	482.1	496.3	521.6	537.4	556.4	594.3	635.4	673.3	711.3
62.5°	426.8	429.9	436.2	452.0	482.1	499.5	520.0	559.5	600.6	638.6	676.5
65°	373.0	376.2	385.7	406.2	442.6	461.5	482.1	523.2	562.7	602.2	640.1
67.5°	327.2	328.8	341.4	363.5	401.5	425.2	447.3	486.8	526.3	565.9	603.8
70°	282.9	286.1	295.6	325.6	366.7	385.7	409.4	452.0	491.6	531.1	567.4
72.5°	238.7	241.8	256.1	289.2	331.9	352.5	371.4	417.3	456.8	494.7	531.1
75°	194.4	199.2	218.1	256.1	297.2	317.7	338.2	379.3	422.0	458.4	493.1
77.5°	154.9	159.6	183.3	222.9	264.0	284.5	305.1	344.6	384.1	423.6	460.0
80°	117.0	123.3	151.7	191.3	232.3	252.9	271.9	313.0	350.9	387.2	425.2
82.5°	83.8	91.7	124.9	162.8	203.9	222.9	241.8	281.3	319.3	354.1	387.2
85°	52.2	66.4	99.6	135.9	175.4	194.4	213.4	252.9	289.2	324.0	355.6
87.5°	25.3	44.3	75.9	110.6	148.6	167.5	186.5	224.4	259.2	294.0	325.6
90°	1.6	25.3	53.7	86.9	124.9	142.3	161.2	197.6	232.3	265.5	295.6
92.5°	0.0	15.8	42.7	74.3	109.1	128.0	145.4	181.8	215.0	248.2	276.6
95°	0.0	7.9	33.2	63.2	96.4	112.2	129.6	164.4	197.6	229.2	257.6
97.5°	0.0	1.6	23.7	50.6	82.2	99.6	115.4	148.6	181.8	211.8	238.7
100°	0.0	0.0	15.8	41.1	69.5	85.4	101.2	132.8	164.4	192.8	219.7
102.5°	0.0	0.0	7.9	31.6	58.5	72.7	86.9	118.5	148.6	177.0	202.3
105°	0.0	0.0	1.6	22.1	47.4	60.1	74.3	102.7	132.8	159.6	184.9
107.5°	0.0	0.0	0.0	12.6	36.4	49.0	61.6	88.5	117.0	142.3	166.0
110°	0.0	0.0	0.0	6.3	26.9	37.9	50.6	75.9	101.2	126.4	150.2



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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	1.6	17.4	28.5	39.5	63.2	86.9	110.6	132.8
115°	0.0	0.0	0.0	0.0	9.5	19.0	28.5	50.6	72.7	96.4	117.0
117.5°	0.0	0.0	0.0	0.0	3.2	11.1	19.0	39.5	60.1	80.6	101.2
120°	0.0	0.0	0.0	0.0	0.0	4.7	11.1	28.5	47.4	66.4	85.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	17.4	34.8	53.7	71.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	23.7	41.1	56.9
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	14.2	28.5	42.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	17.4	30.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.5	19.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.5
137.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1329.3	1323.0	1323.0	1321.4	1319.8	1318.2	1315.0	1313.5	1310.3	1311.9
5°	1326.1	1319.8	1319.8	1316.6	1315.0	1315.0	1313.5	1313.5	1311.9	1313.5
7.5°	1321.4	1313.5	1313.5	1310.3	1308.7	1307.1	1307.1	1307.1	1307.1	1308.7
10°	1308.7	1304.0	1304.0	1302.4	1300.8	1297.7	1296.1	1297.7	1296.1	1297.7
12.5°	1291.3	1286.6	1289.8	1289.8	1289.8	1286.6	1285.0	1286.6	1285.0	1286.6
15°	1269.2	1267.6	1272.4	1274.0	1275.5	1274.0	1272.4	1272.4	1272.4	1272.4
17.5°	1247.1	1245.5	1251.8	1255.0	1255.0	1255.0	1255.0	1253.4	1253.4	1255.0
20°	1228.1	1221.8	1225.0	1231.3	1232.9	1232.9	1234.4	1236.0	1236.0	1236.0
22.5°	1201.2	1198.1	1199.7	1204.4	1207.6	1209.1	1213.9	1213.9	1215.5	1217.1
25°	1169.6	1174.4	1176.0	1180.7	1182.3	1185.4	1191.8	1194.9	1194.9	1194.9
27.5°	1136.4	1145.9	1152.2	1155.4	1158.6	1161.7	1169.6	1176.0	1176.0	1176.0
30°	1104.8	1114.3	1127.0	1133.3	1136.4	1139.6	1150.7	1158.6	1160.2	1160.2
32.5°	1071.6	1084.3	1103.3	1112.7	1114.3	1119.1	1133.3	1142.8	1144.3	1144.3
35°	1043.2	1059.0	1079.5	1092.2	1095.3	1100.1	1115.9	1127.0	1128.5	1128.5
37.5°	1017.9	1033.7	1055.8	1073.2	1076.4	1082.7	1098.5	1112.7	1114.3	1115.9
40°	989.4	1008.4	1030.5	1051.1	1057.4	1063.7	1081.1	1095.3	1098.5	1098.5
42.5°	961.0	984.7	1006.8	1030.5	1038.4	1044.8	1063.7	1078.0	1081.1	1081.1
45°	931.0	961.0	983.1	1008.4	1017.9	1024.2	1041.6	1057.4	1062.2	1062.2
47.5°	904.1	935.7	957.8	983.1	992.6	1002.1	1017.9	1033.7	1038.4	1040.0
50°	874.1	908.8	931.0	954.7	967.3	976.8	992.6	1010.0	1014.7	1013.2
52.5°	844.0	877.2	900.9	926.2	938.9	948.4	962.6	981.5	986.3	986.3
55°	812.4	845.6	870.9	894.6	907.3	919.9	934.1	949.9	956.3	954.7
57.5°	780.8	810.8	837.7	863.0	874.1	886.7	900.9	916.7	921.5	924.6
60°	747.6	774.5	804.5	828.2	839.3	851.9	866.2	880.4	888.3	886.7
62.5°	711.3	741.3	769.7	791.9	802.9	815.6	829.8	842.5	848.8	851.9
65°	674.9	703.4	730.2	753.9	763.4	776.1	791.9	801.4	809.3	810.8
67.5°	637.0	665.4	692.3	717.6	727.1	738.1	752.4	761.8	769.7	771.3
70°	599.0	629.1	655.9	679.7	689.1	698.6	712.8	722.3	730.2	730.2
72.5°	562.7	592.7	618.0	641.7	651.2	659.1	673.3	682.8	689.1	690.7
75°	526.3	554.8	580.1	603.8	611.7	621.2	633.8	643.3	649.6	651.2
77.5°	490.0	520.0	543.7	565.9	573.8	581.7	595.9	603.8	610.1	610.1
80°	455.2	483.7	507.4	527.9	534.2	543.7	556.4	564.3	569.0	572.2
82.5°	422.0	448.9	471.0	490.0	499.5	505.8	518.4	526.3	531.1	534.2
85°	385.7	414.1	436.2	455.2	461.5	471.0	482.1	490.0	494.7	496.3
87.5°	352.5	377.8	399.9	422.0	429.9	436.2	447.3	455.2	460.0	463.1
90°	324.0	347.7	368.3	385.7	393.6	401.5	414.1	422.0	426.8	428.3
92.5°	303.5	327.2	346.1	363.5	371.4	377.8	388.8	396.7	401.5	403.0
95°	284.5	306.6	325.6	343.0	349.3	355.6	366.7	373.0	376.2	379.3
97.5°	264.0	287.7	305.1	320.9	328.8	333.5	344.6	350.9	355.6	357.2
100°	245.0	267.1	284.5	301.9	308.2	313.0	324.0	330.3	333.5	335.1
102.5°	226.0	248.2	265.5	281.3	287.7	292.4	301.9	308.2	313.0	314.5
105°	207.1	227.6	245.0	260.8	267.1	271.9	281.3	287.7	292.4	294.0
107.5°	189.7	208.6	226.0	240.2	246.6	251.3	260.8	267.1	271.9	273.4
110°	172.3	189.7	207.1	221.3	227.6	232.3	241.8	246.6	251.3	252.9



TEST NUMBER: P257057

CATALOG NUMBER: HGL-S-UF-50L840-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	153.3	172.3	188.1	202.3	207.1	213.4	221.3	227.6	230.8	232.3
115°	137.5	154.9	169.1	183.3	188.1	192.8	202.3	207.1	211.8	211.8
117.5°	120.1	135.9	151.7	164.4	169.1	173.9	183.3	188.1	191.3	192.8
120°	104.3	118.5	132.8	145.4	151.7	154.9	164.4	169.1	172.3	173.9
122.5°	88.5	102.7	117.0	128.0	132.8	137.5	145.4	150.2	153.3	154.9
125°	72.7	86.9	99.6	110.6	115.4	120.1	126.4	131.2	134.3	135.9
127.5°	58.5	71.1	83.8	93.3	98.0	102.7	109.1	113.8	117.0	118.5
130°	44.3	55.3	68.0	77.4	82.2	85.4	91.7	96.4	99.6	101.2
132.5°	30.0	41.1	52.2	61.6	66.4	69.5	75.9	79.0	82.2	83.8
135°	19.0	28.5	37.9	45.8	50.6	53.7	60.1	63.2	66.4	66.4
137.5°	9.5	17.4	25.3	31.6	34.8	39.5	44.3	47.4	49.0	50.6
140°	3.2	7.9	14.2	19.0	22.1	25.3	30.0	33.2	34.8	36.4
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)