

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: P257048

Luminaire Tested: **HGL-S-UF-60L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257048  
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-60L830-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5862.9 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

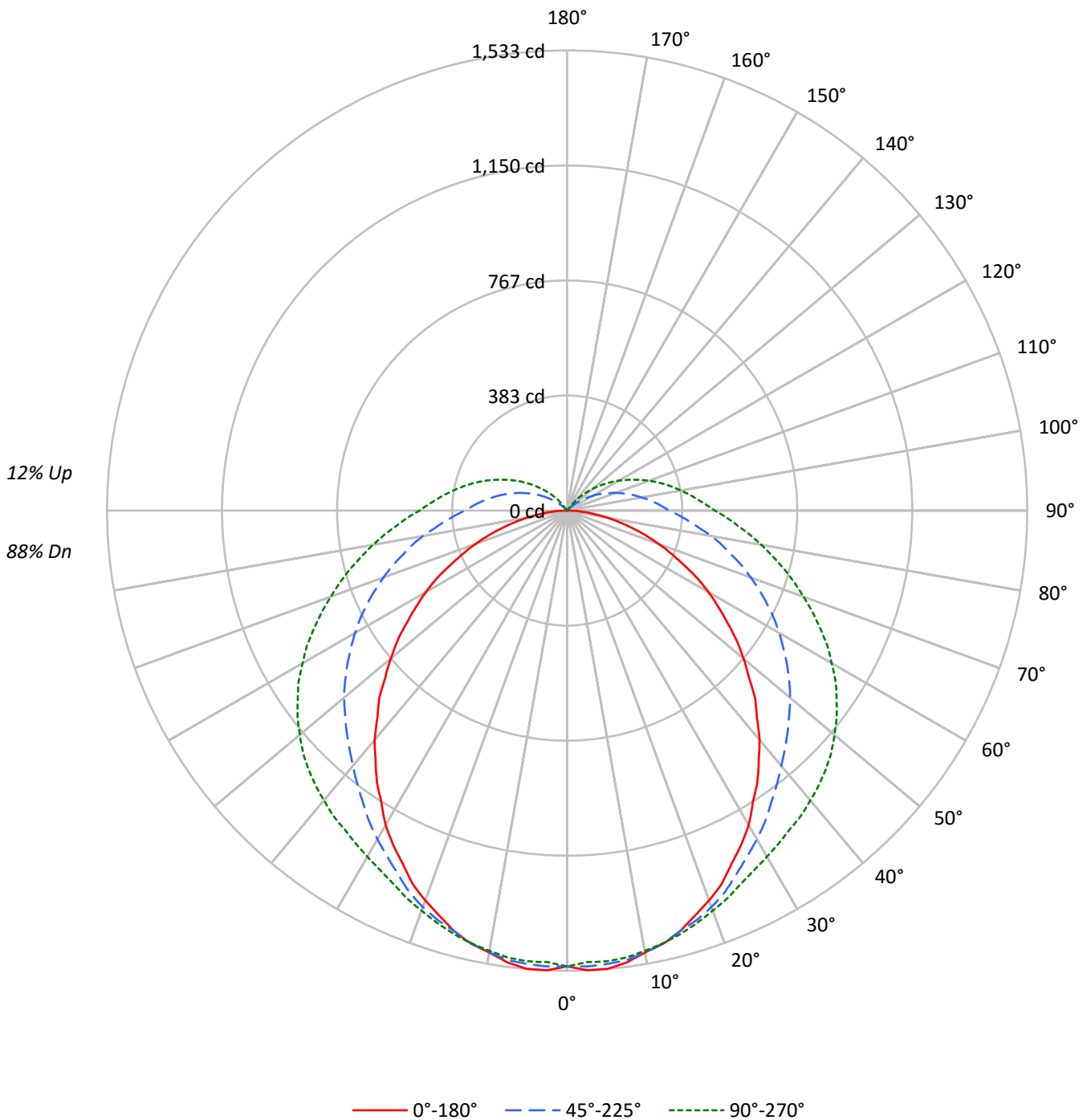
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17827	17827	17827
5°	18026	17358	17089
10°	17741	16815	16439
15°	17518	16168	15824
20°	17110	15633	15209
25°	16603	14931	14660
30°	16162	14331	14300
35°	15552	13737	14083
40°	14966	13241	13989
45°	14327	12883	13917
50°	13595	12617	13777
55°	12889	12326	13601
60°	12229	12068	13371
65°	11266	11807	13092
70°	10403	11562	12793
75°	9225	11319	12574
80°	7907	11271	12410
85°	6219	11257	12387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.8	2.5
10°-20°	408.9	7.0
20°-30°	613.5	10.5
30°-40°	744.9	12.7
40°-50°	804.6	13.7
50°-60°	788.0	13.4
60°-70°	699.0	11.9
70°-80°	559.9	9.5
80°-90°	405.8	6.9
90°-100°	286.0	4.9
100°-110°	199.5	3.4
110°-120°	123.5	2.1
120°-130°	62.8	1.1
130°-140°	21.8	0.4
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1166.2	19.9
0°-40°	1911.2	32.6
0°-60°	3503.8	59.8
0°-90°	5168.3	88.2
90°-120°	609.0	10.4
90°-150°	694.5	11.8
90°-180°	695.0	11.9
0°-180°	5862.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1533	1518	1516	1509	1507	145
15°	1451	1440	1451	1464	1460	408
25°	1297	1301	1335	1357	1371	599
35°	1105	1112	1186	1257	1295	690
45°	885	909	1039	1168	1219	680
55°	653	707	894	1041	1096	585
65°	428	530	735	876	930	427
75°	223	365	566	702	747	238
85°	60	223	408	530	570	65
90°	2	163	339	452	492	4
95°	0	129	296	401	435	0
105°	0	69	212	307	337	0
115°	0	22	134	216	243	0
125°	0	0	65	132	156	0
135°	0	0	11	58	76	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°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1532.8	1530.9	1525.5	1520.1	1518.2	1518.2	1516.4	1514.6	1514.6	1512.8	1520.1
5°	1532.8	1530.9	1525.5	1518.2	1516.4	1518.2	1516.4	1512.8	1512.8	1511.0	1516.4
7.5°	1518.2	1514.6	1511.0	1505.6	1503.7	1503.7	1501.9	1501.9	1501.9	1501.9	1511.0
10°	1494.7	1492.9	1489.2	1483.8	1483.8	1482.0	1482.0	1483.8	1483.8	1485.6	1494.7
12.5°	1478.3	1474.7	1469.3	1463.8	1462.0	1462.0	1460.2	1458.4	1460.2	1462.0	1476.5
15°	1451.1	1449.3	1445.7	1440.2	1440.2	1440.2	1440.2	1438.4	1438.4	1440.2	1451.1
17.5°	1414.9	1411.2	1409.4	1405.8	1407.6	1409.4	1411.2	1409.4	1413.0	1418.5	1431.2
20°	1382.2	1378.6	1374.9	1369.5	1369.5	1371.3	1373.1	1373.1	1382.2	1389.5	1405.8
22.5°	1345.9	1344.1	1340.5	1338.7	1338.7	1340.5	1340.5	1336.9	1342.3	1353.2	1374.9
25°	1297.0	1295.1	1293.3	1293.3	1297.0	1300.6	1302.4	1304.2	1309.6	1316.9	1335.0
27.5°	1255.2	1253.4	1249.8	1246.2	1249.8	1253.4	1255.2	1258.9	1269.7	1284.3	1298.8
30°	1209.9	1208.1	1206.3	1206.3	1209.9	1211.7	1213.5	1211.7	1226.2	1248.0	1264.3
32.5°	1151.8	1150.0	1151.8	1151.8	1160.9	1166.3	1170.0	1171.8	1184.5	1204.4	1228.0
35°	1104.7	1104.7	1102.9	1106.5	1108.3	1111.9	1115.6	1124.6	1142.8	1162.7	1186.3
37.5°	1048.4	1048.4	1048.4	1057.5	1064.8	1066.6	1068.4	1079.3	1102.9	1122.8	1148.2
40°	997.7	997.7	997.7	1001.3	1006.7	1012.2	1019.4	1032.1	1055.7	1084.7	1110.1
42.5°	936.0	937.8	941.4	950.5	957.7	961.4	966.8	986.8	1012.2	1046.6	1073.8
45°	885.2	883.4	887.0	894.3	901.5	908.8	917.8	939.6	970.4	1008.5	1039.4
47.5°	821.7	823.5	827.1	839.8	848.9	858.0	868.9	894.3	930.5	968.6	1003.1
50°	767.3	769.1	778.2	785.4	794.5	805.4	818.1	850.7	890.6	928.7	970.4
52.5°	712.9	714.7	721.9	727.4	741.9	754.6	770.9	807.2	848.9	890.6	932.4
55°	653.0	656.6	662.1	674.8	692.9	707.4	725.6	765.5	807.2	852.5	894.3
57.5°	596.8	598.6	607.7	620.4	642.1	660.3	682.0	723.8	769.1	812.6	854.4
60°	544.2	547.8	553.2	569.6	598.6	616.7	638.5	682.0	729.2	772.7	816.3
62.5°	489.8	493.4	500.6	518.8	553.2	573.2	596.8	642.1	689.3	732.8	776.4
65°	428.1	431.7	442.6	466.2	507.9	529.7	553.2	600.4	645.8	691.1	734.6
67.5°	375.5	377.3	391.8	417.2	460.7	487.9	513.3	558.7	604.0	649.4	692.9
70°	324.7	328.3	339.2	373.7	420.8	442.6	469.8	518.8	564.1	609.5	651.2
72.5°	273.9	277.5	293.9	331.9	380.9	404.5	426.3	478.9	524.2	567.8	609.5
75°	223.1	228.6	250.3	293.9	341.0	364.6	388.2	435.3	484.3	526.0	565.9
77.5°	177.8	183.2	210.4	255.8	302.9	326.5	350.1	395.4	440.8	486.1	527.8
80°	134.2	141.5	174.1	219.5	266.6	290.2	312.0	359.2	402.7	444.4	487.9
82.5°	96.1	105.2	143.3	186.8	234.0	255.8	277.5	322.9	366.4	406.3	444.4
85°	59.9	76.2	114.3	156.0	201.3	223.1	244.9	290.2	331.9	371.9	408.1
87.5°	29.0	50.8	87.1	127.0	170.5	192.3	214.0	257.6	297.5	337.4	373.7
90°	1.8	29.0	61.7	99.8	143.3	163.3	185.0	226.7	266.6	304.7	339.2
92.5°	0.0	18.1	49.0	85.3	125.2	146.9	166.9	208.6	246.7	284.8	317.4
95°	0.0	9.1	38.1	72.6	110.6	128.8	148.7	188.6	226.7	263.0	295.7
97.5°	0.0	1.8	27.2	58.0	94.3	114.3	132.4	170.5	208.6	243.1	273.9
100°	0.0	0.0	18.1	47.2	79.8	98.0	116.1	152.4	188.6	221.3	252.1
102.5°	0.0	0.0	9.1	36.3	67.1	83.4	99.8	136.0	170.5	203.2	232.2
105°	0.0	0.0	1.8	25.4	54.4	68.9	85.3	117.9	152.4	183.2	212.2
107.5°	0.0	0.0	0.0	14.5	41.7	56.2	70.7	101.6	134.2	163.3	190.5
110°	0.0	0.0	0.0	7.3	30.8	43.5	58.0	87.1	116.1	145.1	172.3



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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	1.8	20.0	32.7	45.3	72.6	99.8	127.0	152.4
115°	0.0	0.0	0.0	0.0	10.9	21.8	32.7	58.0	83.4	110.6	134.2
117.5°	0.0	0.0	0.0	0.0	3.6	12.7	21.8	45.3	68.9	92.5	116.1
120°	0.0	0.0	0.0	0.0	0.0	5.4	12.7	32.7	54.4	76.2	98.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	20.0	39.9	61.7	81.6
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.2	47.2	65.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	16.3	32.7	49.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	20.0	34.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.9	21.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.9
137.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
140°	1.8	1.8	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°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1525.5	1518.2	1518.2	1516.4	1514.6	1512.8	1509.2	1507.4	1503.7	1505.6
5°	1521.9	1514.6	1514.6	1511.0	1509.2	1509.2	1507.4	1507.4	1505.6	1507.4
7.5°	1516.4	1507.4	1507.4	1503.7	1501.9	1500.1	1500.1	1500.1	1500.1	1501.9
10°	1501.9	1496.5	1496.5	1494.7	1492.9	1489.2	1487.4	1489.2	1487.4	1489.2
12.5°	1482.0	1476.5	1480.2	1480.2	1480.2	1476.5	1474.7	1476.5	1474.7	1476.5
15°	1456.6	1454.8	1460.2	1462.0	1463.8	1462.0	1460.2	1460.2	1460.2	1460.2
17.5°	1431.2	1429.4	1436.6	1440.2	1440.2	1440.2	1440.2	1438.4	1438.4	1440.2
20°	1409.4	1402.2	1405.8	1413.0	1414.9	1414.9	1416.7	1418.5	1418.5	1418.5
22.5°	1378.6	1374.9	1376.8	1382.2	1385.8	1387.6	1393.1	1393.1	1394.9	1396.7
25°	1342.3	1347.7	1349.6	1355.0	1356.8	1360.4	1367.7	1371.3	1371.3	1371.3
27.5°	1304.2	1315.1	1322.3	1326.0	1329.6	1333.2	1342.3	1349.6	1349.6	1349.6
30°	1267.9	1278.8	1293.3	1300.6	1304.2	1307.8	1320.5	1329.6	1331.4	1331.4
32.5°	1229.8	1244.3	1266.1	1277.0	1278.8	1284.3	1300.6	1311.5	1313.3	1313.3
35°	1197.2	1215.3	1238.9	1253.4	1257.0	1262.5	1280.6	1293.3	1295.1	1295.1
37.5°	1168.2	1186.3	1211.7	1231.6	1235.3	1242.5	1260.7	1277.0	1278.8	1280.6
40°	1135.5	1157.3	1182.7	1206.3	1213.5	1220.8	1240.7	1257.0	1260.7	1260.7
42.5°	1102.9	1130.1	1155.5	1182.7	1191.7	1199.0	1220.8	1237.1	1240.7	1240.7
45°	1068.4	1102.9	1128.3	1157.3	1168.2	1175.4	1195.4	1213.5	1219.0	1219.0
47.5°	1037.6	1073.8	1099.2	1128.3	1139.1	1150.0	1168.2	1186.3	1191.7	1193.6
50°	1003.1	1043.0	1068.4	1095.6	1110.1	1121.0	1139.1	1159.1	1164.5	1162.7
52.5°	968.6	1006.7	1033.9	1063.0	1077.5	1088.4	1104.7	1126.4	1131.9	1131.9
55°	932.4	970.4	999.5	1026.7	1041.2	1055.7	1072.0	1090.2	1097.4	1095.6
57.5°	896.1	930.5	961.4	990.4	1003.1	1017.6	1033.9	1052.1	1057.5	1061.1
60°	858.0	888.8	923.3	950.5	963.2	977.7	994.0	1010.4	1019.4	1017.6
62.5°	816.3	850.7	883.4	908.8	921.5	936.0	952.3	966.8	974.1	977.7
65°	774.5	807.2	838.0	865.2	876.1	890.6	908.8	919.7	928.7	930.5
67.5°	731.0	763.7	794.5	823.5	834.4	847.1	863.4	874.3	883.4	885.2
70°	687.5	721.9	752.8	780.0	790.9	801.8	818.1	829.0	838.0	838.0
72.5°	645.8	680.2	709.2	736.5	747.3	756.4	772.7	783.6	790.9	792.7
75°	604.0	636.7	665.7	692.9	702.0	712.9	727.4	738.3	745.5	747.3
77.5°	562.3	596.8	624.0	649.4	658.5	667.5	683.8	692.9	700.2	700.2
80°	522.4	555.1	582.3	605.8	613.1	624.0	638.5	647.6	653.0	656.6
82.5°	484.3	515.2	540.5	562.3	573.2	580.5	595.0	604.0	609.5	613.1
85°	442.6	475.2	500.6	522.4	529.7	540.5	553.2	562.3	567.8	569.6
87.5°	404.5	433.5	458.9	484.3	493.4	500.6	513.3	522.4	527.8	531.5
90°	371.9	399.1	422.6	442.6	451.7	460.7	475.2	484.3	489.8	491.6
92.5°	348.3	375.5	397.2	417.2	426.3	433.5	446.2	455.3	460.7	462.5
95°	326.5	351.9	373.7	393.6	400.9	408.1	420.8	428.1	431.7	435.3
97.5°	302.9	330.1	350.1	368.2	377.3	382.7	395.4	402.7	408.1	409.9
100°	281.2	306.6	326.5	346.5	353.7	359.2	371.9	379.1	382.7	384.6
102.5°	259.4	284.8	304.7	322.9	330.1	335.6	346.5	353.7	359.2	361.0
105°	237.6	261.2	281.2	299.3	306.6	312.0	322.9	330.1	335.6	337.4
107.5°	217.7	239.4	259.4	275.7	283.0	288.4	299.3	306.6	312.0	313.8
110°	197.7	217.7	237.6	253.9	261.2	266.6	277.5	283.0	288.4	290.2





TEST NUMBER: P257048

CATALOG NUMBER: HGL-S-UF-60L830-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	175.9	197.7	215.9	232.2	237.6	244.9	253.9	261.2	264.8	266.6
115°	157.8	177.8	194.1	210.4	215.9	221.3	232.2	237.6	243.1	243.1
117.5°	137.9	156.0	174.1	188.6	194.1	199.5	210.4	215.9	219.5	221.3
120°	119.7	136.0	152.4	166.9	174.1	177.8	188.6	194.1	197.7	199.5
122.5°	101.6	117.9	134.2	146.9	152.4	157.8	166.9	172.3	175.9	177.8
125°	83.4	99.8	114.3	127.0	132.4	137.9	145.1	150.6	154.2	156.0
127.5°	67.1	81.6	96.1	107.0	112.5	117.9	125.2	130.6	134.2	136.0
130°	50.8	63.5	78.0	88.9	94.3	98.0	105.2	110.6	114.3	116.1
132.5°	34.5	47.2	59.9	70.7	76.2	79.8	87.1	90.7	94.3	96.1
135°	21.8	32.7	43.5	52.6	58.0	61.7	68.9	72.6	76.2	76.2
137.5°	10.9	20.0	29.0	36.3	39.9	45.3	50.8	54.4	56.2	58.0
140°	3.6	9.1	16.3	21.8	25.4	29.0	34.5	38.1	39.9	41.7
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)