

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: P257054

Luminaire Tested: **HGL-S-UF-60L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257054  
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-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: 6082.4 lumens  
Efficiency: N/A  
Efficacy: 127.8 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

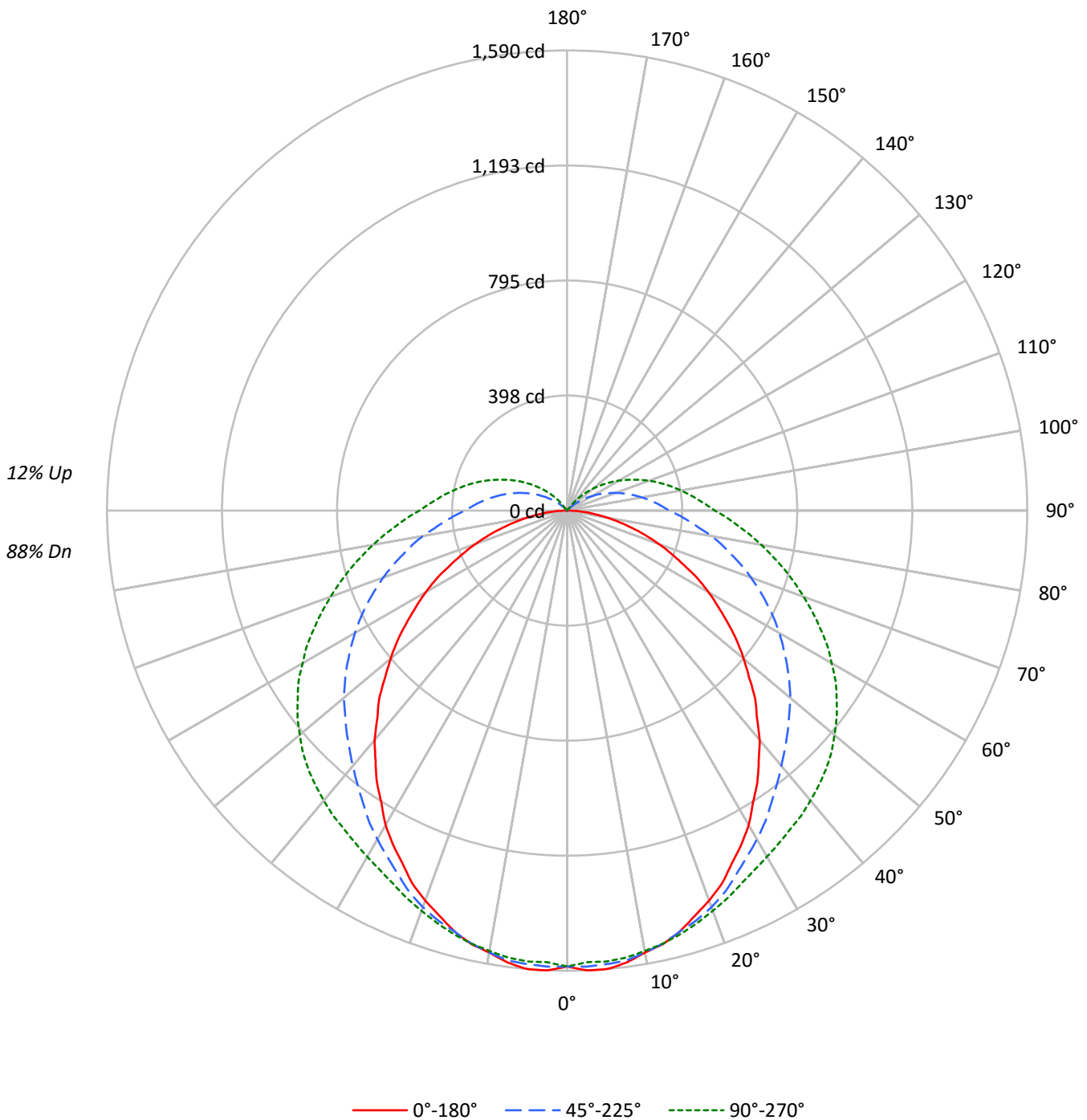
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

**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°	18496	18496	18496
5°	18700	18008	17728
10°	18404	17443	17055
15°	18175	16774	16417
20°	17750	16218	15779
25°	17224	15490	15209
30°	16767	14867	14836
35°	16134	14251	14610
40°	15526	13737	14513
45°	14863	13365	14438
50°	14104	13091	14292
55°	13373	12787	14110
60°	12685	12519	13872
65°	11687	12249	13583
70°	10791	11995	13273
75°	9573	11743	13045
80°	8208	11694	12875
85°	6448	11679	12850



TEST NUMBER: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.2	2.5
10°-20°	424.2	7.0
20°-30°	636.5	10.5
30°-40°	772.8	12.7
40°-50°	834.7	13.7
50°-60°	817.5	13.4
60°-70°	725.1	11.9
70°-80°	580.8	9.5
80°-90°	421.0	6.9
90°-100°	296.7	4.9
100°-110°	207.0	3.4
110°-120°	128.1	2.1
120°-130°	65.2	1.1
130°-140°	22.6	0.4
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1209.9	19.9
0°-40°	1982.7	32.6
0°-60°	3634.9	59.8
0°-90°	5361.8	88.2
90°-120°	631.7	10.4
90°-150°	720.5	11.8
90°-180°	721.0	11.9
0°-180°	6082.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1590	1575	1573	1566	1564	150
15°	1506	1494	1506	1519	1515	423
25°	1346	1349	1385	1408	1423	621
35°	1146	1154	1231	1304	1344	716
45°	918	943	1078	1212	1265	706
55°	678	734	928	1080	1137	607
65°	444	550	762	909	965	443
75°	232	378	587	728	775	247
85°	62	232	423	550	591	67
90°	2	169	352	469	510	5
95°	0	134	307	416	452	0
105°	0	72	220	318	350	0
115°	0	23	139	224	252	0
125°	0	0	68	137	162	0
135°	0	0	11	60	79	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: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1
2.5°	1590.1	1588.3	1582.6	1577.0	1575.1	1575.1	1573.2	1571.3	1571.3	1569.4	1577.0
5°	1590.1	1588.3	1582.6	1575.1	1573.2	1575.1	1573.2	1569.4	1569.4	1567.6	1573.2
7.5°	1575.1	1571.3	1567.6	1561.9	1560.0	1560.0	1558.2	1558.2	1558.2	1558.2	1567.6
10°	1550.6	1548.7	1545.0	1539.3	1539.3	1537.4	1537.4	1539.3	1539.3	1541.2	1550.6
12.5°	1533.7	1529.9	1524.3	1518.6	1516.7	1516.7	1514.9	1513.0	1514.9	1516.7	1531.8
15°	1505.5	1503.6	1499.8	1494.2	1494.2	1494.2	1494.2	1492.3	1492.3	1494.2	1505.5
17.5°	1467.8	1464.1	1462.2	1458.4	1460.3	1462.2	1464.1	1462.2	1465.9	1471.6	1484.8
20°	1433.9	1430.2	1426.4	1420.8	1420.8	1422.7	1424.5	1424.5	1433.9	1441.5	1458.4
22.5°	1396.3	1394.4	1390.7	1388.8	1388.8	1390.7	1390.7	1386.9	1392.5	1403.8	1426.4
25°	1345.5	1343.6	1341.7	1341.7	1345.5	1349.3	1351.1	1353.0	1358.7	1366.2	1385.0
27.5°	1302.2	1300.3	1296.6	1292.8	1296.6	1300.3	1302.2	1306.0	1317.3	1332.3	1347.4
30°	1255.2	1253.3	1251.4	1251.4	1255.2	1257.1	1258.9	1257.1	1272.1	1294.7	1311.6
32.5°	1195.0	1193.1	1195.0	1195.0	1204.4	1210.0	1213.8	1215.7	1228.8	1249.5	1274.0
35°	1146.0	1146.0	1144.1	1147.9	1149.8	1153.6	1157.3	1166.7	1185.5	1206.2	1230.7
37.5°	1087.7	1087.7	1087.7	1097.1	1104.6	1106.5	1108.4	1119.7	1144.1	1164.8	1191.2
40°	1035.0	1035.0	1035.0	1038.8	1044.4	1050.1	1057.6	1070.8	1095.2	1125.3	1151.7
42.5°	971.0	972.9	976.7	986.1	993.6	997.4	1003.0	1023.7	1050.1	1085.8	1114.0
45°	918.3	916.4	920.2	927.7	935.3	942.8	952.2	974.8	1006.8	1046.3	1078.3
47.5°	852.5	854.3	858.1	871.3	880.7	890.1	901.4	927.7	965.4	1004.9	1040.6
50°	796.0	797.9	807.3	814.8	824.2	835.5	848.7	882.6	924.0	963.5	1006.8
52.5°	739.6	741.4	749.0	754.6	769.7	782.8	799.8	837.4	880.7	924.0	967.3
55°	677.5	681.2	686.9	700.0	718.9	733.9	752.7	794.1	837.4	884.5	927.7
57.5°	619.1	621.0	630.4	643.6	666.2	685.0	707.6	750.8	797.9	843.1	886.3
60°	564.5	568.3	574.0	590.9	621.0	639.8	662.4	707.6	756.5	801.7	846.8
62.5°	508.1	511.9	519.4	538.2	574.0	594.7	619.1	666.2	715.1	760.3	805.4
65°	444.1	447.9	459.2	483.6	526.9	549.5	574.0	622.9	669.9	717.0	762.1
67.5°	389.5	391.4	406.5	432.8	478.0	506.2	532.6	579.6	626.6	673.7	718.9
70°	336.8	340.6	351.9	387.7	436.6	459.2	487.4	538.2	585.2	632.3	675.6
72.5°	284.2	287.9	304.9	344.4	395.2	419.6	442.2	496.8	543.8	589.0	632.3
75°	231.5	237.1	259.7	304.9	353.8	378.2	402.7	451.6	502.4	545.7	587.1
77.5°	184.4	190.1	218.3	265.3	314.3	338.7	363.2	410.2	457.3	504.3	547.6
80°	139.3	146.8	180.7	227.7	276.6	301.1	323.7	372.6	417.8	461.0	506.2
82.5°	99.7	109.1	148.7	193.8	242.8	265.3	287.9	335.0	380.1	421.5	461.0
85°	62.1	79.0	118.6	161.8	208.9	231.5	254.0	301.1	344.4	385.8	423.4
87.5°	30.1	52.7	90.3	131.7	176.9	199.5	222.1	267.2	308.6	350.0	387.7
90°	1.9	30.1	64.0	103.5	148.7	169.4	191.9	235.2	276.6	316.1	351.9
92.5°	0.0	18.8	50.8	88.4	129.8	152.4	173.1	216.4	255.9	295.4	329.3
95°	0.0	9.4	39.5	75.3	114.8	133.6	154.3	195.7	235.2	272.9	306.7
97.5°	0.0	1.9	28.2	60.2	97.9	118.6	137.4	176.9	216.4	252.2	284.2
100°	0.0	0.0	18.8	48.9	82.8	101.6	120.4	158.1	195.7	229.6	261.6
102.5°	0.0	0.0	9.4	37.6	69.6	86.6	103.5	141.1	176.9	210.8	240.9
105°	0.0	0.0	1.9	26.3	56.5	71.5	88.4	122.3	158.1	190.1	220.2
107.5°	0.0	0.0	0.0	15.1	43.3	58.3	73.4	105.4	139.3	169.4	197.6
110°	0.0	0.0	0.0	7.5	32.0	45.2	60.2	90.3	120.4	150.5	178.8



TEST NUMBER: P257054

CATALOG NUMBER: HGL-S-UF-60L835-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	1.9	20.7	33.9	47.0	75.3	103.5	131.7	158.1
115°	0.0	0.0	0.0	0.0	11.3	22.6	33.9	60.2	86.6	114.8	139.3
117.5°	0.0	0.0	0.0	0.0	3.8	13.2	22.6	47.0	71.5	96.0	120.4
120°	0.0	0.0	0.0	0.0	0.0	5.6	13.2	33.9	56.5	79.0	101.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.7	41.4	64.0	84.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	28.2	48.9	67.7
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	16.9	33.9	50.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	20.7	35.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.3	22.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.3
137.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
140°	1.9	1.9	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: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1
2.5°	1582.6	1575.1	1575.1	1573.2	1571.3	1569.4	1565.7	1563.8	1560.0	1561.9
5°	1578.9	1571.3	1571.3	1567.6	1565.7	1565.7	1563.8	1563.8	1561.9	1563.8
7.5°	1573.2	1563.8	1563.8	1560.0	1558.2	1556.3	1556.3	1556.3	1556.3	1558.2
10°	1558.2	1552.5	1552.5	1550.6	1548.7	1545.0	1543.1	1545.0	1543.1	1545.0
12.5°	1537.4	1531.8	1535.6	1535.6	1535.6	1531.8	1529.9	1531.8	1529.9	1531.8
15°	1511.1	1509.2	1514.9	1516.7	1518.6	1516.7	1514.9	1514.9	1514.9	1514.9
17.5°	1484.8	1482.9	1490.4	1494.2	1494.2	1494.2	1494.2	1492.3	1492.3	1494.2
20°	1462.2	1454.6	1458.4	1465.9	1467.8	1467.8	1469.7	1471.6	1471.6	1471.6
22.5°	1430.2	1426.4	1428.3	1433.9	1437.7	1439.6	1445.2	1445.2	1447.1	1449.0
25°	1392.5	1398.2	1400.1	1405.7	1407.6	1411.4	1418.9	1422.7	1422.7	1422.7
27.5°	1353.0	1364.3	1371.8	1375.6	1379.4	1383.1	1392.5	1400.1	1400.1	1400.1
30°	1315.4	1326.7	1341.7	1349.3	1353.0	1356.8	1370.0	1379.4	1381.3	1381.3
32.5°	1275.9	1290.9	1313.5	1324.8	1326.7	1332.3	1349.3	1360.6	1362.4	1362.4
35°	1242.0	1260.8	1285.3	1300.3	1304.1	1309.7	1328.6	1341.7	1343.6	1343.6
37.5°	1211.9	1230.7	1257.1	1277.8	1281.5	1289.0	1307.9	1324.8	1326.7	1328.6
40°	1178.0	1200.6	1226.9	1251.4	1258.9	1266.5	1287.2	1304.1	1307.9	1307.9
42.5°	1144.1	1172.4	1198.7	1226.9	1236.4	1243.9	1266.5	1283.4	1287.2	1287.2
45°	1108.4	1144.1	1170.5	1200.6	1211.9	1219.4	1240.1	1258.9	1264.6	1264.6
47.5°	1076.4	1114.0	1140.4	1170.5	1181.8	1193.1	1211.9	1230.7	1236.4	1238.2
50°	1040.6	1082.0	1108.4	1136.6	1151.7	1163.0	1181.8	1202.5	1208.1	1206.2
52.5°	1004.9	1044.4	1072.6	1102.7	1117.8	1129.1	1146.0	1168.6	1174.3	1174.3
55°	967.3	1006.8	1036.9	1065.1	1080.2	1095.2	1112.2	1131.0	1138.5	1136.6
57.5°	929.6	965.4	997.4	1027.5	1040.6	1055.7	1072.6	1091.5	1097.1	1100.9
60°	890.1	922.1	957.8	986.1	999.2	1014.3	1031.2	1048.2	1057.6	1055.7
62.5°	846.8	882.6	916.4	942.8	956.0	971.0	988.0	1003.0	1010.5	1014.3
65°	803.5	837.4	869.4	897.6	908.9	924.0	942.8	954.1	963.5	965.4
67.5°	758.4	792.2	824.2	854.3	865.6	878.8	895.7	907.0	916.4	918.3
70°	713.2	749.0	781.0	809.2	820.5	831.8	848.7	860.0	869.4	869.4
72.5°	669.9	705.7	735.8	764.0	775.3	784.7	801.7	812.9	820.5	822.4
75°	626.6	660.5	690.6	718.9	728.3	739.6	754.6	765.9	773.4	775.3
77.5°	583.4	619.1	647.3	673.7	683.1	692.5	709.4	718.9	726.4	726.4
80°	542.0	575.8	604.1	628.5	636.1	647.3	662.4	671.8	677.5	681.2
82.5°	502.4	534.4	560.8	583.4	594.7	602.2	617.2	626.6	632.3	636.1
85°	459.2	493.0	519.4	542.0	549.5	560.8	574.0	583.4	589.0	590.9
87.5°	419.6	449.8	476.1	502.4	511.9	519.4	532.6	542.0	547.6	551.4
90°	385.8	414.0	438.5	459.2	468.6	478.0	493.0	502.4	508.1	510.0
92.5°	361.3	389.5	412.1	432.8	442.2	449.8	462.9	472.3	478.0	479.9
95°	338.7	365.1	387.7	408.4	415.9	423.4	436.6	444.1	447.9	451.6
97.5°	314.3	342.5	363.2	382.0	391.4	397.1	410.2	417.8	423.4	425.3
100°	291.7	318.0	338.7	359.4	367.0	372.6	385.8	393.3	397.1	398.9
102.5°	269.1	295.4	316.1	335.0	342.5	348.1	359.4	367.0	372.6	374.5
105°	246.5	271.0	291.7	310.5	318.0	323.7	335.0	342.5	348.1	350.0
107.5°	225.8	248.4	269.1	286.0	293.6	299.2	310.5	318.0	323.7	325.6
110°	205.1	225.8	246.5	263.5	271.0	276.6	287.9	293.6	299.2	301.1





TEST NUMBER: P257054

CATALOG NUMBER: HGL-S-UF-60L835-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	182.5	205.1	223.9	240.9	246.5	254.0	263.5	271.0	274.7	276.6
115°	163.7	184.4	201.4	218.3	223.9	229.6	240.9	246.5	252.2	252.2
117.5°	143.0	161.8	180.7	195.7	201.4	207.0	218.3	223.9	227.7	229.6
120°	124.2	141.1	158.1	173.1	180.7	184.4	195.7	201.4	205.1	207.0
122.5°	105.4	122.3	139.3	152.4	158.1	163.7	173.1	178.8	182.5	184.4
125°	86.6	103.5	118.6	131.7	137.4	143.0	150.5	156.2	160.0	161.8
127.5°	69.6	84.7	99.7	111.0	116.7	122.3	129.8	135.5	139.3	141.1
130°	52.7	65.9	80.9	92.2	97.9	101.6	109.1	114.8	118.6	120.4
132.5°	35.8	48.9	62.1	73.4	79.0	82.8	90.3	94.1	97.9	99.7
135°	22.6	33.9	45.2	54.6	60.2	64.0	71.5	75.3	79.0	79.0
137.5°	11.3	20.7	30.1	37.6	41.4	47.0	52.7	56.5	58.3	60.2
140°	3.8	9.4	16.9	22.6	26.3	30.1	35.8	39.5	41.4	43.3
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)