

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: P257078

Luminaire Tested: **HGL-S-UF-30L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257078
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-30L835-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: 6369.5 lumens
Efficiency: N/A
Efficacy: 142.8 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

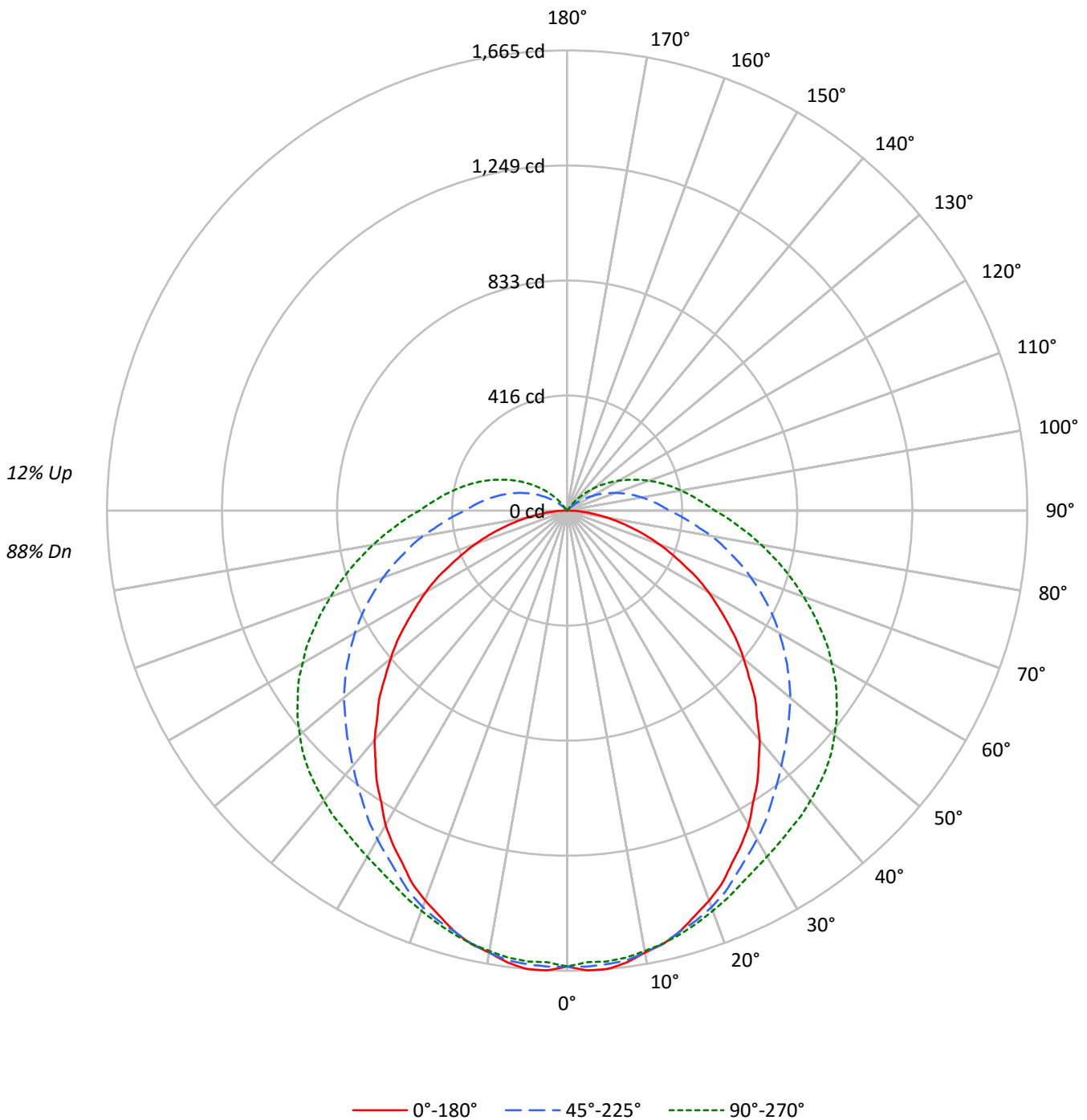
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9684	9684	9684
5°	9803	9437	9282
10°	9659	9147	8930
15°	9549	8803	8596
20°	9338	8518	8261
25°	9073	8141	7963
30°	8844	7819	7768
35°	8524	7501	7650
40°	8218	7236	7599
45°	7883	7046	7560
50°	7498	6908	7484
55°	7129	6755	7388
60°	6789	6621	7263
65°	6286	6488	7112
70°	5845	6364	6949
75°	5244	6243	6830
80°	4591	6234	6742
85°	3811	6250	6728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	2.5
10°-20°	444.2	7.0
20°-30°	666.6	10.5
30°-40°	809.3	12.7
40°-50°	874.1	13.7
50°-60°	856.1	13.4
60°-70°	759.3	11.9
70°-80°	608.2	9.5
80°-90°	440.8	6.9
90°-100°	310.7	4.9
100°-110°	216.7	3.4
110°-120°	134.2	2.1
120°-130°	68.2	1.1
130°-140°	23.6	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°	1267.0	19.9
0°-40°	2076.3	32.6
0°-60°	3806.5	59.8
0°-90°	5614.9	88.2
90°-120°	661.6	10.4
90°-150°	754.6	11.8
90°-180°	755.0	11.9
0°-180°	6369.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1665	1649	1648	1640	1638	157
15°	1576	1565	1576	1590	1586	443
25°	1409	1413	1450	1474	1490	650
35°	1200	1208	1289	1366	1407	749
45°	962	987	1129	1269	1324	739
55°	709	769	972	1131	1190	636
65°	465	575	798	952	1011	464
75°	242	396	615	763	812	259
85°	65	242	443	575	619	70
90°	2	177	368	491	534	5
95°	0	140	321	436	473	0
105°	0	75	231	333	366	0
115°	0	24	146	234	264	0
125°	0	0	71	144	170	0
135°	0	0	12	63	83	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°	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4
2.5°	1665.2	1663.2	1657.3	1651.4	1649.4	1649.4	1647.5	1645.5	1645.5	1643.5	1651.4
5°	1665.2	1663.2	1657.3	1649.4	1647.5	1649.4	1647.5	1643.5	1643.5	1641.6	1647.5
7.5°	1649.4	1645.5	1641.6	1635.6	1633.7	1633.7	1631.7	1631.7	1631.7	1631.7	1641.6
10°	1623.8	1621.8	1617.9	1612.0	1612.0	1610.0	1610.0	1612.0	1612.0	1614.0	1623.8
12.5°	1606.1	1602.1	1596.2	1590.3	1588.3	1588.3	1586.4	1584.4	1586.4	1588.3	1604.1
15°	1576.5	1574.5	1570.6	1564.7	1564.7	1564.7	1564.7	1562.7	1562.7	1564.7	1576.5
17.5°	1537.1	1533.2	1531.2	1527.3	1529.2	1531.2	1533.2	1531.2	1535.1	1541.0	1554.8
20°	1501.6	1497.7	1493.8	1487.8	1487.8	1489.8	1491.8	1491.8	1501.6	1509.5	1527.3
22.5°	1462.2	1460.3	1456.3	1454.3	1454.3	1456.3	1456.3	1452.4	1458.3	1470.1	1493.8
25°	1409.0	1407.0	1405.1	1405.1	1409.0	1413.0	1414.9	1416.9	1422.8	1430.7	1450.4
27.5°	1363.7	1361.7	1357.8	1353.8	1357.8	1361.7	1363.7	1367.6	1379.5	1395.2	1411.0
30°	1314.4	1312.5	1310.5	1310.5	1314.4	1316.4	1318.4	1316.4	1332.2	1355.8	1373.5
32.5°	1251.4	1249.4	1251.4	1251.4	1261.2	1267.1	1271.1	1273.0	1286.8	1308.5	1334.1
35°	1200.1	1200.1	1198.2	1202.1	1204.1	1208.0	1211.9	1221.8	1241.5	1263.2	1288.8
37.5°	1139.0	1139.0	1139.0	1148.9	1156.8	1158.7	1160.7	1172.5	1198.2	1219.8	1247.4
40°	1083.9	1083.9	1083.9	1087.8	1093.7	1099.6	1107.5	1121.3	1146.9	1178.4	1206.0
42.5°	1016.9	1018.8	1022.8	1032.6	1040.5	1044.4	1050.4	1072.0	1099.6	1137.1	1166.6
45°	961.7	959.7	963.6	971.5	979.4	987.3	997.1	1020.8	1054.3	1095.7	1129.2
47.5°	892.7	894.7	898.6	912.4	922.3	932.1	943.9	971.5	1010.9	1052.3	1089.8
50°	833.6	835.6	845.4	853.3	863.1	875.0	888.8	924.2	967.6	1009.0	1054.3
52.5°	774.5	776.4	784.3	790.2	806.0	819.8	837.5	876.9	922.3	967.6	1012.9
55°	709.4	713.4	719.3	733.1	752.8	768.6	788.3	831.6	876.9	926.2	971.5
57.5°	648.3	650.3	660.2	674.0	697.6	717.3	741.0	786.3	835.6	882.9	928.2
60°	591.2	595.1	601.0	618.8	650.3	670.0	693.7	741.0	792.2	839.5	886.8
62.5°	532.1	536.0	543.9	563.6	601.0	622.7	648.3	697.6	748.8	796.1	843.4
65°	465.1	469.0	480.8	506.5	551.8	575.4	601.0	652.3	701.6	750.8	798.1
67.5°	407.9	409.9	425.7	453.2	500.5	530.1	557.7	607.0	656.2	705.5	752.8
70°	352.7	356.7	368.5	406.0	457.2	480.8	510.4	563.6	612.9	662.1	707.5
72.5°	297.6	301.5	319.2	360.6	413.8	439.5	463.1	520.3	569.5	616.8	662.1
75°	242.4	248.3	271.9	319.2	370.5	396.1	421.7	473.0	526.2	571.5	614.8
77.5°	193.1	199.0	228.6	277.9	329.1	354.7	380.3	429.6	478.9	528.1	573.5
80°	145.8	153.7	189.2	238.4	289.7	315.3	339.0	390.2	437.5	482.8	530.1
82.5°	104.4	114.3	155.7	203.0	254.2	277.9	301.5	350.8	398.1	441.4	482.8
85°	65.0	82.8	124.2	169.5	218.7	242.4	266.0	315.3	360.6	404.0	443.4
87.5°	31.5	55.2	94.6	137.9	185.2	208.9	232.5	279.8	323.2	366.5	406.0
90°	2.0	31.5	67.0	108.4	155.7	177.4	201.0	246.3	289.7	331.1	368.5
92.5°	0.0	19.7	53.2	92.6	136.0	159.6	181.3	226.6	268.0	309.4	344.9
95°	0.0	9.9	41.4	78.8	120.2	139.9	161.6	204.9	246.3	285.7	321.2
97.5°	0.0	2.0	29.6	63.1	102.5	124.2	143.9	185.2	226.6	264.1	297.6
100°	0.0	0.0	19.7	51.2	86.7	106.4	126.1	165.5	204.9	240.4	273.9
102.5°	0.0	0.0	9.9	39.4	72.9	90.6	108.4	147.8	185.2	220.7	252.2
105°	0.0	0.0	2.0	27.6	59.1	74.9	92.6	128.1	165.5	199.0	230.6
107.5°	0.0	0.0	0.0	15.8	45.3	61.1	76.9	110.4	145.8	177.4	206.9
110°	0.0	0.0	0.0	7.9	33.5	47.3	63.1	94.6	126.1	157.7	187.2



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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	2.0	21.7	35.5	49.3	78.8	108.4	137.9	165.5
115°	0.0	0.0	0.0	0.0	11.8	23.6	35.5	63.1	90.6	120.2	145.8
117.5°	0.0	0.0	0.0	0.0	3.9	13.8	23.6	49.3	74.9	100.5	126.1
120°	0.0	0.0	0.0	0.0	0.0	5.9	13.8	35.5	59.1	82.8	106.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	21.7	43.4	67.0	88.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	29.6	51.2	70.9
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	17.7	35.5	53.2
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	21.7	37.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	11.8	23.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	11.8
137.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
140°	2.0	2.0	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°	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4	1649.4
2.5°	1657.3	1649.4	1649.4	1647.5	1645.5	1643.5	1639.6	1637.6	1633.7	1635.6
5°	1653.4	1645.5	1645.5	1641.6	1639.6	1639.6	1637.6	1637.6	1635.6	1637.6
7.5°	1647.5	1637.6	1637.6	1633.7	1631.7	1629.7	1629.7	1629.7	1629.7	1631.7
10°	1631.7	1625.8	1625.8	1623.8	1621.8	1617.9	1615.9	1617.9	1615.9	1617.9
12.5°	1610.0	1604.1	1608.1	1608.1	1608.1	1604.1	1602.1	1604.1	1602.1	1604.1
15°	1582.4	1580.5	1586.4	1588.3	1590.3	1588.3	1586.4	1586.4	1586.4	1586.4
17.5°	1554.8	1552.9	1560.8	1564.7	1564.7	1564.7	1564.7	1562.7	1562.7	1564.7
20°	1531.2	1523.3	1527.3	1535.1	1537.1	1537.1	1539.1	1541.0	1541.0	1541.0
22.5°	1497.7	1493.8	1495.7	1501.6	1505.6	1507.5	1513.5	1513.5	1515.4	1517.4
25°	1458.3	1464.2	1466.2	1472.1	1474.0	1478.0	1485.9	1489.8	1489.8	1489.8
27.5°	1416.9	1428.7	1436.6	1440.5	1444.5	1448.4	1458.3	1466.2	1466.2	1466.2
30°	1377.5	1389.3	1405.1	1413.0	1416.9	1420.8	1434.6	1444.5	1446.5	1446.5
32.5°	1336.1	1351.9	1375.5	1387.3	1389.3	1395.2	1413.0	1424.8	1426.8	1426.8
35°	1300.6	1320.3	1346.0	1361.7	1365.7	1371.6	1391.3	1405.1	1407.0	1407.0
37.5°	1269.1	1288.8	1316.4	1338.1	1342.0	1349.9	1369.6	1387.3	1389.3	1391.3
40°	1233.6	1257.3	1284.9	1310.5	1318.4	1326.2	1347.9	1365.7	1369.6	1369.6
42.5°	1198.2	1227.7	1255.3	1284.9	1294.7	1302.6	1326.2	1344.0	1347.9	1347.9
45°	1160.7	1198.2	1225.7	1257.3	1269.1	1277.0	1298.7	1318.4	1324.3	1324.3
47.5°	1127.2	1166.6	1194.2	1225.7	1237.6	1249.4	1269.1	1288.8	1294.7	1296.7
50°	1089.8	1133.1	1160.7	1190.3	1206.0	1217.9	1237.6	1259.2	1265.2	1263.2
52.5°	1052.3	1093.7	1123.3	1154.8	1170.6	1182.4	1200.1	1223.8	1229.7	1229.7
55°	1012.9	1054.3	1085.8	1115.4	1131.2	1146.9	1164.7	1184.4	1192.2	1190.3
57.5°	973.5	1010.9	1044.4	1076.0	1089.8	1105.5	1123.3	1143.0	1148.9	1152.8
60°	932.1	965.6	1003.1	1032.6	1046.4	1062.2	1079.9	1097.7	1107.5	1105.5
62.5°	886.8	924.2	959.7	987.3	1001.1	1016.9	1034.6	1050.4	1058.2	1062.2
65°	841.5	876.9	910.4	940.0	951.8	967.6	987.3	999.1	1009.0	1010.9
67.5°	794.2	829.6	863.1	894.7	906.5	920.3	938.0	949.9	959.7	961.7
70°	746.9	784.3	817.8	847.4	859.2	871.0	888.8	900.6	910.4	910.4
72.5°	701.6	739.0	770.5	800.1	811.9	821.8	839.5	851.3	859.2	861.2
75°	656.2	691.7	723.2	752.8	762.6	774.5	790.2	802.1	809.9	811.9
77.5°	610.9	648.3	677.9	705.5	715.3	725.2	742.9	752.8	760.7	760.7
80°	567.5	603.0	632.6	658.2	666.1	677.9	693.7	703.5	709.4	713.4
82.5°	526.2	559.7	587.3	610.9	622.7	630.6	646.4	656.2	662.1	666.1
85°	480.8	516.3	543.9	567.5	575.4	587.3	601.0	610.9	616.8	618.8
87.5°	439.5	471.0	498.6	526.2	536.0	543.9	557.7	567.5	573.5	577.4
90°	404.0	433.5	459.2	480.8	490.7	500.5	516.3	526.2	532.1	534.0
92.5°	378.4	407.9	431.6	453.2	463.1	471.0	484.8	494.6	500.5	502.5
95°	354.7	382.3	406.0	427.6	435.5	443.4	457.2	465.1	469.0	473.0
97.5°	329.1	358.7	380.3	400.0	409.9	415.8	429.6	437.5	443.4	445.4
100°	305.5	333.0	354.7	376.4	384.3	390.2	404.0	411.9	415.8	417.8
102.5°	281.8	309.4	331.1	350.8	358.7	364.6	376.4	384.3	390.2	392.2
105°	258.2	283.8	305.5	325.2	333.0	339.0	350.8	358.7	364.6	366.5
107.5°	236.5	260.1	281.8	299.5	307.4	313.3	325.2	333.0	339.0	340.9
110°	214.8	236.5	258.2	275.9	283.8	289.7	301.5	307.4	313.3	315.3



TEST NUMBER: P257078

CATALOG NUMBER: HGL-S-UF-30L835-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	191.2	214.8	234.5	252.2	258.2	266.0	275.9	283.8	287.7	289.7
115°	171.4	193.1	210.9	228.6	234.5	240.4	252.2	258.2	264.1	264.1
117.5°	149.8	169.5	189.2	204.9	210.9	216.8	228.6	234.5	238.4	240.4
120°	130.1	147.8	165.5	181.3	189.2	193.1	204.9	210.9	214.8	216.8
122.5°	110.4	128.1	145.8	159.6	165.5	171.4	181.3	187.2	191.2	193.1
125°	90.6	108.4	124.2	137.9	143.9	149.8	157.7	163.6	167.5	169.5
127.5°	72.9	88.7	104.4	116.3	122.2	128.1	136.0	141.9	145.8	147.8
130°	55.2	69.0	84.7	96.6	102.5	106.4	114.3	120.2	124.2	126.1
132.5°	37.4	51.2	65.0	76.9	82.8	86.7	94.6	98.5	102.5	104.4
135°	23.6	35.5	47.3	57.1	63.1	67.0	74.9	78.8	82.8	82.8
137.5°	11.8	21.7	31.5	39.4	43.4	49.3	55.2	59.1	61.1	63.1
140°	3.9	9.9	17.7	23.6	27.6	31.5	37.4	41.4	43.4	45.3
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)