

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: P257073

Luminaire Tested: **HGL-S-UF-30L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257073
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-30L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.6 lumens
Efficiency: N/A
Efficacy: 137.7 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

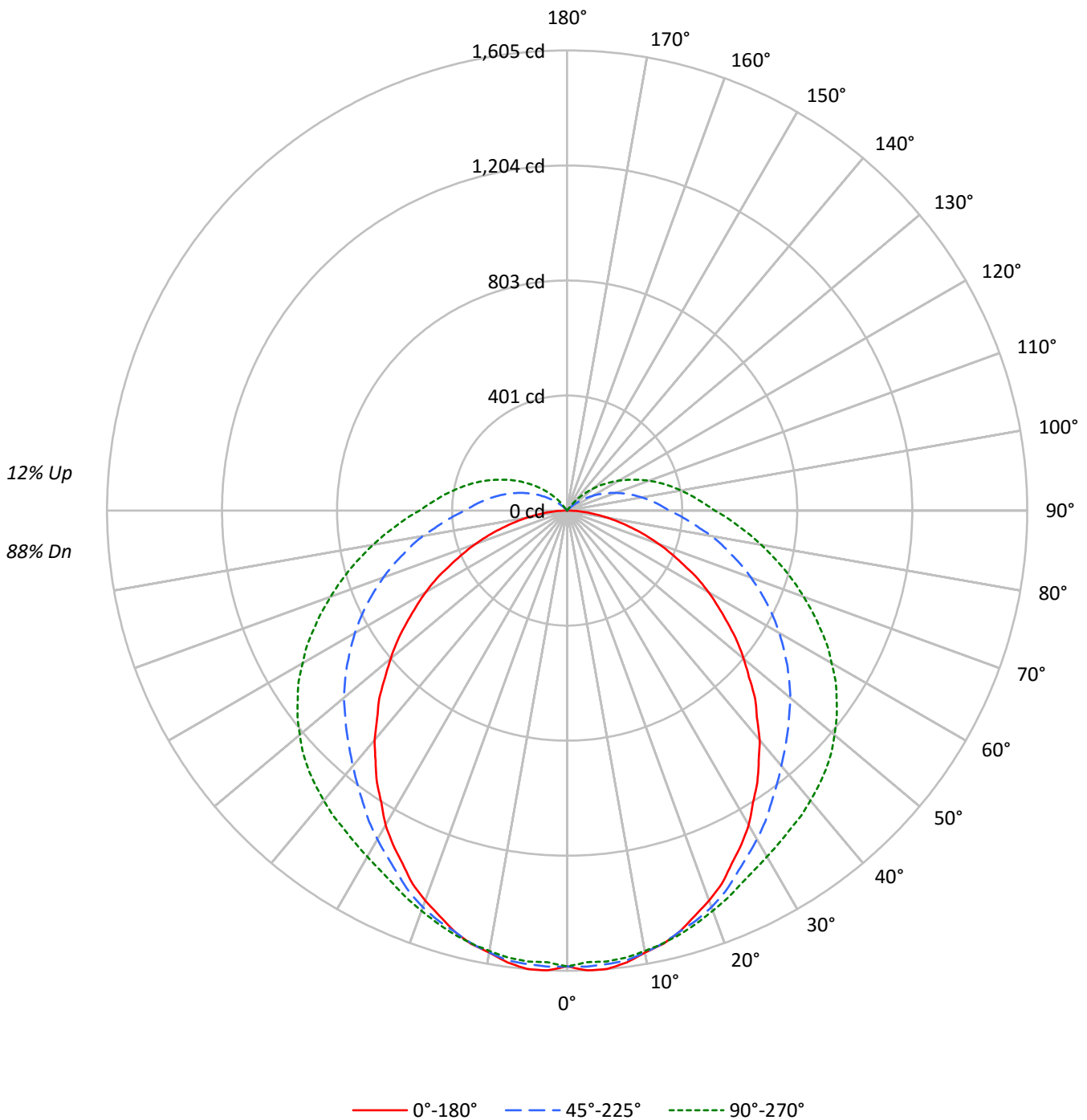
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9335	9335	9335
5°	9449	9096	8947
10°	9310	8817	8608
15°	9205	8485	8285
20°	9001	8210	7963
25°	8746	7847	7676
30°	8526	7537	7488
35°	8216	7230	7374
40°	7920	6975	7325
45°	7598	6792	7287
50°	7227	6659	7214
55°	6872	6512	7121
60°	6544	6382	7001
65°	6059	6254	6856
70°	5635	6134	6699
75°	5054	6019	6584
80°	4427	6009	6498
85°	3677	6025	6486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	2.5
10°-20°	428.2	7.0
20°-30°	642.5	10.5
30°-40°	780.1	12.7
40°-50°	842.6	13.7
50°-60°	825.2	13.4
60°-70°	732.0	11.9
70°-80°	586.3	9.5
80°-90°	424.9	6.9
90°-100°	299.5	4.9
100°-110°	208.9	3.4
110°-120°	129.3	2.1
120°-130°	65.8	1.1
130°-140°	22.8	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°	1221.3	19.9
0°-40°	2001.4	32.6
0°-60°	3669.1	59.8
0°-90°	5412.3	88.2
90°-120°	637.7	10.4
90°-150°	727.3	11.8
90°-180°	727.0	11.8
0°-180°	6139.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1605	1590	1588	1580	1578	152
15°	1520	1508	1520	1533	1529	427
25°	1358	1362	1398	1421	1436	627
35°	1157	1164	1242	1316	1356	722
45°	927	952	1088	1223	1276	712
55°	684	741	936	1090	1147	613
65°	448	555	769	918	974	448
75°	234	382	593	735	783	250
85°	63	234	427	555	596	68
90°	2	171	355	473	515	5
95°	0	135	310	420	456	0
105°	0	72	222	321	353	0
115°	0	23	141	226	254	0
125°	0	0	68	139	163	0
135°	0	0	11	61	80	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°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
2.5°	1605.1	1603.2	1597.5	1591.8	1589.9	1589.9	1588.0	1586.1	1586.1	1584.2	1591.8
5°	1605.1	1603.2	1597.5	1589.9	1588.0	1589.9	1588.0	1584.2	1584.2	1582.3	1588.0
7.5°	1589.9	1586.1	1582.3	1576.6	1574.7	1574.7	1572.8	1572.8	1572.8	1572.8	1582.3
10°	1565.2	1563.3	1559.5	1553.8	1553.8	1551.9	1551.9	1553.8	1553.8	1555.7	1565.2
12.5°	1548.1	1544.3	1538.6	1532.9	1531.0	1531.0	1529.1	1527.2	1529.1	1531.0	1546.2
15°	1519.6	1517.7	1513.9	1508.2	1508.2	1508.2	1508.2	1506.3	1506.3	1508.2	1519.6
17.5°	1481.6	1477.8	1475.9	1472.1	1474.0	1475.9	1477.8	1475.9	1479.7	1485.4	1498.7
20°	1447.4	1443.6	1439.8	1434.2	1434.2	1436.1	1438.0	1438.0	1447.4	1455.0	1472.1
22.5°	1409.5	1407.6	1403.8	1401.9	1401.9	1403.8	1403.8	1400.0	1405.7	1417.1	1439.8
25°	1358.2	1356.3	1354.4	1354.4	1358.2	1362.0	1363.9	1365.8	1371.5	1379.1	1398.1
27.5°	1314.5	1312.6	1308.8	1305.0	1308.8	1312.6	1314.5	1318.3	1329.7	1344.9	1360.1
30°	1267.0	1265.1	1263.2	1263.2	1267.0	1268.9	1270.8	1268.9	1284.1	1306.9	1324.0
32.5°	1206.2	1204.3	1206.2	1206.2	1215.7	1221.4	1225.2	1227.1	1240.4	1261.3	1286.0
35°	1156.8	1156.8	1154.9	1158.7	1160.6	1164.4	1168.2	1177.7	1196.7	1217.6	1242.3
37.5°	1097.9	1097.9	1097.9	1107.4	1115.0	1116.9	1118.8	1130.2	1154.9	1175.8	1202.4
40°	1044.7	1044.7	1044.7	1048.5	1054.2	1059.9	1067.5	1080.8	1105.5	1135.9	1162.5
42.5°	980.2	982.1	985.9	995.4	1003.0	1006.8	1012.5	1033.3	1059.9	1096.0	1124.5
45°	927.0	925.1	928.9	936.5	944.1	951.7	961.2	984.0	1016.3	1056.1	1088.4
47.5°	860.5	862.4	866.2	879.5	889.0	898.5	909.9	936.5	974.5	1014.4	1050.4
50°	803.5	805.4	814.9	822.5	832.0	843.4	856.7	890.9	932.7	972.6	1016.3
52.5°	746.5	748.4	756.0	761.7	776.9	790.2	807.3	845.3	889.0	932.7	976.4
55°	683.8	687.6	693.3	706.6	725.6	740.8	759.8	801.6	845.3	892.8	936.5
57.5°	624.9	626.8	636.3	649.6	672.4	691.4	714.2	757.9	805.4	851.0	894.7
60°	569.9	573.7	579.4	596.5	626.8	645.8	668.6	714.2	763.6	809.2	854.8
62.5°	512.9	516.7	524.3	543.3	579.4	600.3	624.9	672.4	721.8	767.4	813.0
65°	448.3	452.1	463.5	488.2	531.9	554.7	579.4	628.7	676.2	723.7	769.3
67.5°	393.2	395.1	410.3	436.9	482.5	511.0	537.6	585.1	632.5	680.0	725.6
70°	340.0	343.8	355.2	391.3	440.7	463.5	492.0	543.3	590.8	638.2	681.9
72.5°	286.8	290.6	307.7	347.6	398.9	423.6	446.4	501.5	549.0	594.6	638.2
75°	233.6	239.3	262.1	307.7	357.1	381.8	406.5	455.9	507.2	550.9	592.7
77.5°	186.2	191.9	220.3	267.8	317.2	341.9	366.6	414.1	461.6	509.1	552.8
80°	140.6	148.2	182.4	229.8	279.2	303.9	326.7	376.1	421.7	465.4	511.0
82.5°	100.7	110.2	150.1	195.7	245.0	267.8	290.6	338.1	383.7	425.5	465.4
85°	62.7	79.8	119.7	163.4	210.8	233.6	256.4	303.9	347.6	389.4	427.4
87.5°	30.4	53.2	91.2	133.0	178.6	201.4	224.1	269.7	311.5	353.3	391.3
90°	1.9	30.4	64.6	104.5	150.1	171.0	193.8	237.4	279.2	319.1	355.2
92.5°	0.0	19.0	51.3	89.3	131.1	153.9	174.8	218.4	258.3	298.2	332.4
95°	0.0	9.5	39.9	76.0	115.9	134.9	155.8	197.6	237.4	275.4	309.6
97.5°	0.0	1.9	28.5	60.8	98.8	119.7	138.7	178.6	218.4	254.5	286.8
100°	0.0	0.0	19.0	49.4	83.6	102.6	121.6	159.6	197.6	231.7	264.0
102.5°	0.0	0.0	9.5	38.0	70.3	87.4	104.5	142.5	178.6	212.7	243.1
105°	0.0	0.0	1.9	26.6	57.0	72.2	89.3	123.5	159.6	191.9	222.2
107.5°	0.0	0.0	0.0	15.2	43.7	58.9	74.1	106.4	140.6	171.0	199.5
110°	0.0	0.0	0.0	7.6	32.3	45.6	60.8	91.2	121.6	152.0	180.5



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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	1.9	20.9	34.2	47.5	76.0	104.5	133.0	159.6
115°	0.0	0.0	0.0	0.0	11.4	22.8	34.2	60.8	87.4	115.9	140.6
117.5°	0.0	0.0	0.0	0.0	3.8	13.3	22.8	47.5	72.2	96.9	121.6
120°	0.0	0.0	0.0	0.0	0.0	5.7	13.3	34.2	57.0	79.8	102.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.9	41.8	64.6	85.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	28.5	49.4	68.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.1	34.2	51.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	20.9	36.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.4	22.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.4
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
2.5°	1597.5	1589.9	1589.9	1588.0	1586.1	1584.2	1580.4	1578.5	1574.7	1576.6
5°	1593.7	1586.1	1586.1	1582.3	1580.4	1580.4	1578.5	1578.5	1576.6	1578.5
7.5°	1588.0	1578.5	1578.5	1574.7	1572.8	1570.9	1570.9	1570.9	1570.9	1572.8
10°	1572.8	1567.1	1567.1	1565.2	1563.3	1559.5	1557.6	1559.5	1557.6	1559.5
12.5°	1551.9	1546.2	1550.0	1550.0	1550.0	1546.2	1544.3	1546.2	1544.3	1546.2
15°	1525.3	1523.4	1529.1	1531.0	1532.9	1531.0	1529.1	1529.1	1529.1	1529.1
17.5°	1498.7	1496.8	1504.4	1508.2	1508.2	1508.2	1508.2	1506.3	1506.3	1508.2
20°	1475.9	1468.3	1472.1	1479.7	1481.6	1481.6	1483.5	1485.4	1485.4	1485.4
22.5°	1443.6	1439.8	1441.7	1447.4	1451.2	1453.1	1458.8	1458.8	1460.7	1462.6
25°	1405.7	1411.4	1413.3	1419.0	1420.9	1424.7	1432.3	1436.1	1436.1	1436.1
27.5°	1365.8	1377.2	1384.8	1388.6	1392.4	1396.2	1405.7	1413.3	1413.3	1413.3
30°	1327.8	1339.2	1354.4	1362.0	1365.8	1369.6	1382.9	1392.4	1394.3	1394.3
32.5°	1287.9	1303.1	1325.9	1337.3	1339.2	1344.9	1362.0	1373.4	1375.3	1375.3
35°	1253.7	1272.7	1297.4	1312.6	1316.4	1322.1	1341.1	1354.4	1356.3	1356.3
37.5°	1223.3	1242.3	1268.9	1289.8	1293.6	1301.2	1320.2	1337.3	1339.2	1341.1
40°	1189.1	1211.9	1238.5	1263.2	1270.8	1278.4	1299.3	1316.4	1320.2	1320.2
42.5°	1154.9	1183.4	1210.0	1238.5	1248.0	1255.6	1278.4	1295.5	1299.3	1299.3
45°	1118.8	1154.9	1181.5	1211.9	1223.3	1230.9	1251.8	1270.8	1276.5	1276.5
47.5°	1086.5	1124.5	1151.1	1181.5	1192.9	1204.3	1223.3	1242.3	1248.0	1249.9
50°	1050.4	1092.2	1118.8	1147.3	1162.5	1173.9	1192.9	1213.8	1219.5	1217.6
52.5°	1014.4	1054.2	1082.7	1113.1	1128.3	1139.7	1156.8	1179.6	1185.3	1185.3
55°	976.4	1016.3	1046.6	1075.1	1090.3	1105.5	1122.6	1141.6	1149.2	1147.3
57.5°	938.4	974.5	1006.8	1037.1	1050.4	1065.6	1082.7	1101.7	1107.4	1111.2
60°	898.5	930.8	966.9	995.4	1008.7	1023.9	1040.9	1058.0	1067.5	1065.6
62.5°	854.8	890.9	925.1	951.7	965.0	980.2	997.3	1012.5	1020.1	1023.9
65°	811.1	845.3	877.6	906.1	917.5	932.7	951.7	963.1	972.6	974.5
67.5°	765.5	799.7	832.0	862.4	873.8	887.1	904.2	915.6	925.1	927.0
70°	719.9	756.0	788.3	816.8	828.2	839.6	856.7	868.1	877.6	877.6
72.5°	676.2	712.3	742.7	771.2	782.6	792.1	809.2	820.6	828.2	830.1
75°	632.5	666.7	697.1	725.6	735.1	746.5	761.7	773.1	780.7	782.6
77.5°	588.9	624.9	653.4	680.0	689.5	699.0	716.1	725.6	733.2	733.2
80°	547.1	581.3	609.8	634.4	642.0	653.4	668.6	678.1	683.8	687.6
82.5°	507.2	539.5	566.1	588.9	600.3	607.9	623.0	632.5	638.2	642.0
85°	463.5	497.7	524.3	547.1	554.7	566.1	579.4	588.9	594.6	596.5
87.5°	423.6	454.0	480.6	507.2	516.7	524.3	537.6	547.1	552.8	556.6
90°	389.4	417.9	442.6	463.5	473.0	482.5	497.7	507.2	512.9	514.8
92.5°	364.7	393.2	416.0	436.9	446.4	454.0	467.3	476.8	482.5	484.4
95°	341.9	368.5	391.3	412.2	419.8	427.4	440.7	448.3	452.1	455.9
97.5°	317.2	345.7	366.6	385.6	395.1	400.8	414.1	421.7	427.4	429.3
100°	294.4	321.0	341.9	362.8	370.4	376.1	389.4	397.0	400.8	402.7
102.5°	271.6	298.2	319.1	338.1	345.7	351.4	362.8	370.4	376.1	378.0
105°	248.8	273.5	294.4	313.4	321.0	326.7	338.1	345.7	351.4	353.3
107.5°	227.9	250.7	271.6	288.7	296.3	302.0	313.4	321.0	326.7	328.6
110°	207.0	227.9	248.8	265.9	273.5	279.2	290.6	296.3	302.0	303.9



TEST NUMBER: P257073

CATALOG NUMBER: HGL-S-UF-30L830-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	184.3	207.0	226.0	243.1	248.8	256.4	265.9	273.5	277.3	279.2
115°	165.3	186.2	203.3	220.3	226.0	231.7	243.1	248.8	254.5	254.5
117.5°	144.4	163.4	182.4	197.6	203.3	208.9	220.3	226.0	229.8	231.7
120°	125.4	142.5	159.6	174.8	182.4	186.2	197.6	203.3	207.0	208.9
122.5°	106.4	123.5	140.6	153.9	159.6	165.3	174.8	180.5	184.3	186.2
125°	87.4	104.5	119.7	133.0	138.7	144.4	152.0	157.7	161.5	163.4
127.5°	70.3	85.5	100.7	112.1	117.8	123.5	131.1	136.8	140.6	142.5
130°	53.2	66.5	81.7	93.1	98.8	102.6	110.2	115.9	119.7	121.6
132.5°	36.1	49.4	62.7	74.1	79.8	83.6	91.2	95.0	98.8	100.7
135°	22.8	34.2	45.6	55.1	60.8	64.6	72.2	76.0	79.8	79.8
137.5°	11.4	20.9	30.4	38.0	41.8	47.5	53.2	57.0	58.9	60.8
140°	3.8	9.5	17.1	22.8	26.6	30.4	36.1	39.9	41.8	43.7
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)