

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: P257066

Luminaire Tested: **HGL-S-UF-80L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257066
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-80L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6088.4 lumens
Efficiency: N/A
Efficacy: 85.9 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

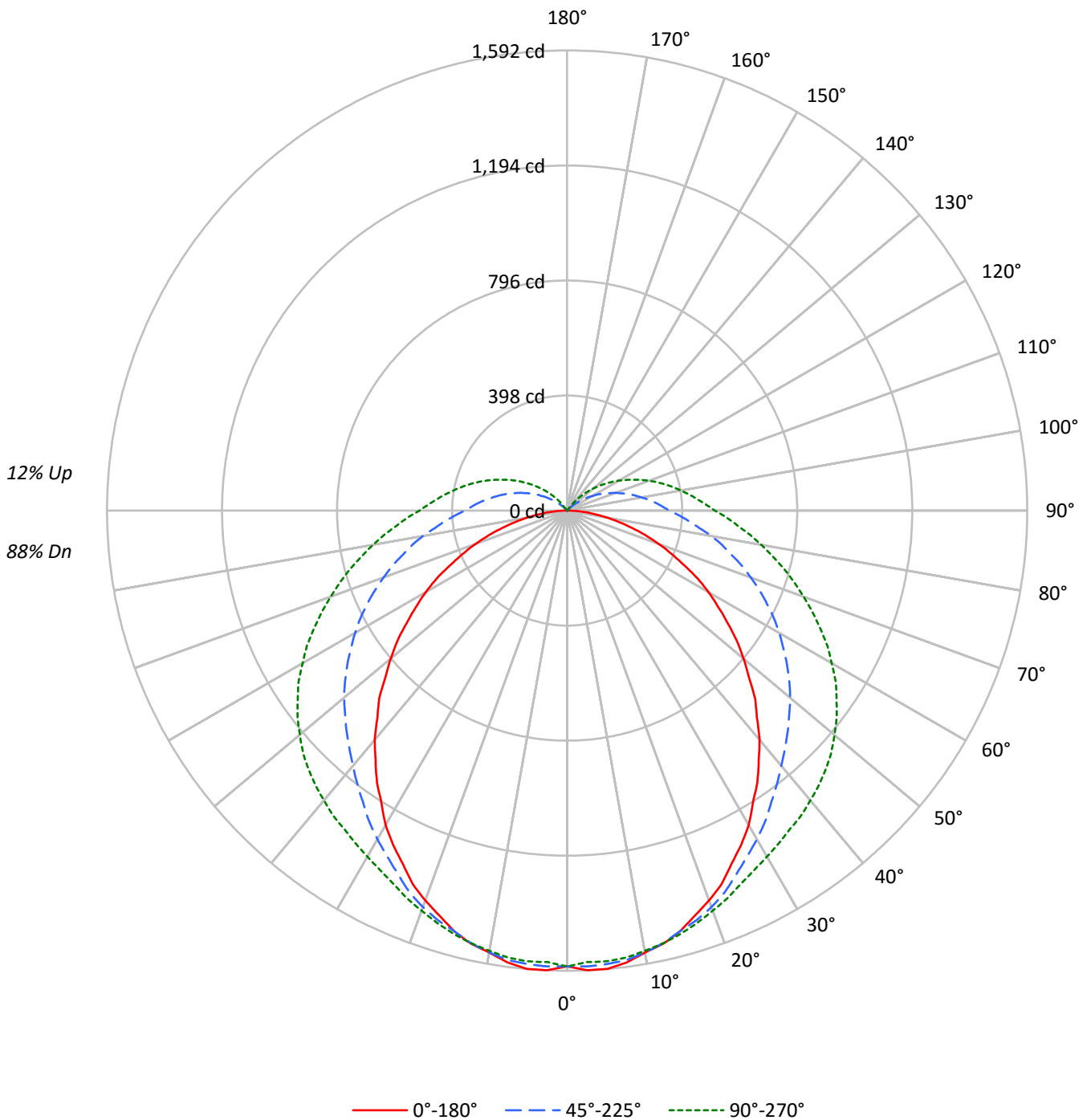
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18514	18514	18514
5°	18719	18027	17746
10°	18423	17461	17072
15°	18193	16791	16433
20°	17768	16235	15795
25°	17240	15506	15224
30°	16783	14882	14850
35°	16150	14265	14625
40°	15541	13750	14527
45°	14877	13378	14451
50°	14118	13104	14308
55°	13384	12800	14124
60°	12699	12532	13886
65°	11700	12261	13596
70°	10804	12006	13287
75°	9581	11755	13059
80°	8213	11705	12888
85°	6458	11690	12863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	2.5
10°-20°	424.6	7.0
20°-30°	637.2	10.5
30°-40°	773.6	12.7
40°-50°	835.5	13.7
50°-60°	818.3	13.4
60°-70°	725.8	11.9
70°-80°	581.4	9.5
80°-90°	421.4	6.9
90°-100°	297.0	4.9
100°-110°	207.2	3.4
110°-120°	128.3	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°	1211.1	19.9
0°-40°	1984.7	32.6
0°-60°	3638.6	59.8
0°-90°	5367.2	88.2
90°-120°	632.4	10.4
90°-150°	721.3	11.8
90°-180°	721.0	11.8
0°-180°	6088.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1592	1577	1575	1567	1565	151
15°	1507	1496	1507	1520	1516	424
25°	1347	1351	1386	1409	1424	622
35°	1147	1155	1232	1305	1345	716
45°	919	944	1079	1213	1266	706
55°	678	735	929	1081	1138	608
65°	445	550	763	910	966	444
75°	232	379	588	729	776	248
85°	62	232	424	550	592	67
90°	2	170	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	138	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1591.7	1589.8	1584.2	1578.5	1576.7	1576.7	1574.8	1572.9	1572.9	1571.0	1578.5
5°	1591.7	1589.8	1584.2	1576.7	1574.8	1576.7	1574.8	1571.0	1571.0	1569.1	1574.8
7.5°	1576.7	1572.9	1569.1	1563.5	1561.6	1561.6	1559.7	1559.7	1559.7	1559.7	1569.1
10°	1552.2	1550.3	1546.5	1540.9	1540.9	1539.0	1539.0	1540.9	1540.9	1542.8	1552.2
12.5°	1535.2	1531.4	1525.8	1520.1	1518.3	1518.3	1516.4	1514.5	1516.4	1518.3	1533.3
15°	1507.0	1505.1	1501.3	1495.7	1495.7	1495.7	1495.7	1493.8	1493.8	1495.7	1507.0
17.5°	1469.3	1465.5	1463.6	1459.9	1461.8	1463.6	1465.5	1463.6	1467.4	1473.1	1486.2
20°	1435.4	1431.6	1427.8	1422.2	1422.2	1424.1	1426.0	1426.0	1435.4	1442.9	1459.9
22.5°	1397.7	1395.8	1392.1	1390.2	1390.2	1392.1	1392.1	1388.3	1393.9	1405.2	1427.8
25°	1346.8	1345.0	1343.1	1343.1	1346.8	1350.6	1352.5	1354.4	1360.0	1367.6	1386.4
27.5°	1303.5	1301.6	1297.9	1294.1	1297.9	1301.6	1303.5	1307.3	1318.6	1333.7	1348.7
30°	1256.4	1254.5	1252.7	1252.7	1256.4	1258.3	1260.2	1258.3	1273.4	1296.0	1312.9
32.5°	1196.2	1194.3	1196.2	1196.2	1205.6	1211.2	1215.0	1216.9	1230.1	1250.8	1275.3
35°	1147.2	1147.2	1145.3	1149.1	1150.9	1154.7	1158.5	1167.9	1186.7	1207.5	1231.9
37.5°	1088.8	1088.8	1088.8	1098.2	1105.7	1107.6	1109.5	1120.8	1145.3	1166.0	1192.4
40°	1036.0	1036.0	1036.0	1039.8	1045.5	1051.1	1058.6	1071.8	1096.3	1126.5	1152.8
42.5°	972.0	973.9	977.6	987.1	994.6	998.4	1004.0	1024.7	1051.1	1086.9	1115.2
45°	919.2	917.4	921.1	928.7	936.2	943.7	953.2	975.8	1007.8	1047.3	1079.4
47.5°	853.3	855.2	859.0	872.2	881.6	891.0	902.3	928.7	966.3	1005.9	1041.7
50°	796.8	798.7	808.1	815.6	825.1	836.4	849.5	883.5	924.9	964.5	1007.8
52.5°	740.3	742.2	749.7	755.4	770.4	783.6	800.6	838.2	881.6	924.9	968.2
55°	678.1	681.9	687.6	700.7	719.6	734.6	753.5	794.9	838.2	885.3	928.7
57.5°	619.7	621.6	631.0	644.2	666.8	685.7	708.3	751.6	798.7	843.9	887.2
60°	565.1	568.9	574.5	591.5	621.6	640.5	663.1	708.3	757.2	802.5	847.7
62.5°	508.6	512.4	519.9	538.7	574.5	595.2	619.7	666.8	715.8	761.0	806.2
65°	444.6	448.3	459.6	484.1	527.4	550.0	574.5	623.5	670.6	717.7	762.9
67.5°	389.9	391.8	406.9	433.3	478.5	506.7	533.1	580.2	627.3	674.4	719.6
70°	337.2	341.0	352.3	388.0	437.0	459.6	487.9	538.7	585.8	632.9	676.2
72.5°	284.4	288.2	305.2	344.7	395.6	420.1	442.7	497.3	544.4	589.6	632.9
75°	231.7	237.3	260.0	305.2	354.1	378.6	403.1	452.1	502.9	546.3	587.7
77.5°	184.6	190.3	218.5	265.6	314.6	339.1	363.6	410.6	457.7	504.8	548.2
80°	139.4	146.9	180.8	227.9	276.9	301.4	324.0	373.0	418.2	461.5	506.7
82.5°	99.8	109.3	148.8	194.0	243.0	265.6	288.2	335.3	380.5	421.9	461.5
85°	62.2	79.1	118.7	162.0	209.1	231.7	254.3	301.4	344.7	386.2	423.8
87.5°	30.1	52.7	90.4	131.9	177.1	199.7	222.3	267.5	308.9	350.4	388.0
90°	1.9	30.1	64.0	103.6	148.8	169.5	192.1	235.5	276.9	316.5	352.3
92.5°	0.0	18.8	50.9	88.5	130.0	152.6	173.3	216.6	256.2	295.7	329.6
95°	0.0	9.4	39.6	75.3	114.9	133.7	154.5	195.9	235.5	273.1	307.0
97.5°	0.0	1.9	28.3	60.3	98.0	118.7	137.5	177.1	216.6	252.4	284.4
100°	0.0	0.0	18.8	49.0	82.9	101.7	120.6	158.2	195.9	229.8	261.8
102.5°	0.0	0.0	9.4	37.7	69.7	86.7	103.6	141.3	177.1	211.0	241.1
105°	0.0	0.0	1.9	26.4	56.5	71.6	88.5	122.4	158.2	190.3	220.4
107.5°	0.0	0.0	0.0	15.1	43.3	58.4	73.5	105.5	139.4	169.5	197.8
110°	0.0	0.0	0.0	7.5	32.0	45.2	60.3	90.4	120.6	150.7	179.0



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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	20.7	33.9	47.1	75.3	103.6	131.9	158.2
115°	0.0	0.0	0.0	0.0	11.3	22.6	33.9	60.3	86.7	114.9	139.4
117.5°	0.0	0.0	0.0	0.0	3.8	13.2	22.6	47.1	71.6	96.1	120.6
120°	0.0	0.0	0.0	0.0	0.0	5.7	13.2	33.9	56.5	79.1	101.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.7	41.4	64.0	84.8
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	28.3	49.0	67.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.0	33.9	50.9
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1584.2	1576.7	1576.7	1574.8	1572.9	1571.0	1567.2	1565.4	1561.6	1563.5
5°	1580.4	1572.9	1572.9	1569.1	1567.2	1567.2	1565.4	1565.4	1563.5	1565.4
7.5°	1574.8	1565.4	1565.4	1561.6	1559.7	1557.8	1557.8	1557.8	1557.8	1559.7
10°	1559.7	1554.1	1554.1	1552.2	1550.3	1546.5	1544.6	1546.5	1544.6	1546.5
12.5°	1539.0	1533.3	1537.1	1537.1	1537.1	1533.3	1531.4	1533.3	1531.4	1533.3
15°	1512.6	1510.7	1516.4	1518.3	1520.1	1518.3	1516.4	1516.4	1516.4	1516.4
17.5°	1486.2	1484.4	1491.9	1495.7	1495.7	1495.7	1495.7	1493.8	1493.8	1495.7
20°	1463.6	1456.1	1459.9	1467.4	1469.3	1469.3	1471.2	1473.1	1473.1	1473.1
22.5°	1431.6	1427.8	1429.7	1435.4	1439.1	1441.0	1446.7	1446.7	1448.6	1450.5
25°	1393.9	1399.6	1401.5	1407.1	1409.0	1412.8	1420.3	1424.1	1424.1	1424.1
27.5°	1354.4	1365.7	1373.2	1377.0	1380.8	1384.5	1393.9	1401.5	1401.5	1401.5
30°	1316.7	1328.0	1343.1	1350.6	1354.4	1358.1	1371.3	1380.8	1382.6	1382.6
32.5°	1277.1	1292.2	1314.8	1326.1	1328.0	1333.7	1350.6	1361.9	1363.8	1363.8
35°	1243.2	1262.1	1286.6	1301.6	1305.4	1311.1	1329.9	1343.1	1345.0	1345.0
37.5°	1213.1	1231.9	1258.3	1279.0	1282.8	1290.3	1309.2	1326.1	1328.0	1329.9
40°	1179.2	1201.8	1228.2	1252.7	1260.2	1267.7	1288.5	1305.4	1309.2	1309.2
42.5°	1145.3	1173.5	1199.9	1228.2	1237.6	1245.1	1267.7	1284.7	1288.5	1288.5
45°	1109.5	1145.3	1171.7	1201.8	1213.1	1220.6	1241.4	1260.2	1265.8	1265.8
47.5°	1077.5	1115.2	1141.5	1171.7	1183.0	1194.3	1213.1	1231.9	1237.6	1239.5
50°	1041.7	1083.1	1109.5	1137.8	1152.8	1164.1	1183.0	1203.7	1209.3	1207.5
52.5°	1005.9	1045.5	1073.7	1103.8	1118.9	1130.2	1147.2	1169.8	1175.4	1175.4
55°	968.2	1007.8	1037.9	1066.2	1081.2	1096.3	1113.3	1132.1	1139.6	1137.8
57.5°	930.5	966.3	998.4	1028.5	1041.7	1056.8	1073.7	1092.5	1098.2	1102.0
60°	891.0	923.0	958.8	987.1	1000.2	1015.3	1032.3	1049.2	1058.6	1056.8
62.5°	847.7	883.5	917.4	943.7	956.9	972.0	988.9	1004.0	1011.5	1015.3
65°	804.3	838.2	870.3	898.5	909.8	924.9	943.7	955.0	964.5	966.3
67.5°	759.1	793.0	825.1	855.2	866.5	879.7	896.6	907.9	917.4	919.2
70°	713.9	749.7	781.7	810.0	821.3	832.6	849.5	860.9	870.3	870.3
72.5°	670.6	706.4	736.5	764.8	776.1	785.5	802.5	813.8	821.3	823.2
75°	627.3	661.2	691.3	719.6	729.0	740.3	755.4	766.7	774.2	776.1
77.5°	583.9	619.7	648.0	674.4	683.8	693.2	710.2	719.6	727.1	727.1
80°	542.5	576.4	604.7	629.2	636.7	648.0	663.1	672.5	678.1	681.9
82.5°	502.9	535.0	561.3	583.9	595.2	602.8	617.9	627.3	632.9	636.7
85°	459.6	493.5	519.9	542.5	550.0	561.3	574.5	583.9	589.6	591.5
87.5°	420.1	450.2	476.6	502.9	512.4	519.9	533.1	542.5	548.2	551.9
90°	386.2	414.4	438.9	459.6	469.0	478.5	493.5	502.9	508.6	510.5
92.5°	361.7	389.9	412.5	433.3	442.7	450.2	463.4	472.8	478.5	480.3
95°	339.1	365.4	388.0	408.8	416.3	423.8	437.0	444.6	448.3	452.1
97.5°	314.6	342.8	363.6	382.4	391.8	397.5	410.6	418.2	423.8	425.7
100°	292.0	318.3	339.1	359.8	367.3	373.0	386.2	393.7	397.5	399.3
102.5°	269.4	295.7	316.5	335.3	342.8	348.5	359.8	367.3	373.0	374.9
105°	246.8	271.3	292.0	310.8	318.3	324.0	335.3	342.8	348.5	350.4
107.5°	226.0	248.6	269.4	286.3	293.9	299.5	310.8	318.3	324.0	325.9
110°	205.3	226.0	246.8	263.7	271.3	276.9	288.2	293.9	299.5	301.4



TEST NUMBER: P257066

CATALOG NUMBER: HGL-S-UF-80L930-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	182.7	205.3	224.2	241.1	246.8	254.3	263.7	271.3	275.0	276.9
115°	163.9	184.6	201.6	218.5	224.2	229.8	241.1	246.8	252.4	252.4
117.5°	143.2	162.0	180.8	195.9	201.6	207.2	218.5	224.2	227.9	229.8
120°	124.3	141.3	158.2	173.3	180.8	184.6	195.9	201.6	205.3	207.2
122.5°	105.5	122.4	139.4	152.6	158.2	163.9	173.3	179.0	182.7	184.6
125°	86.7	103.6	118.7	131.9	137.5	143.2	150.7	156.3	160.1	162.0
127.5°	69.7	84.8	99.8	111.1	116.8	122.4	130.0	135.6	139.4	141.3
130°	52.7	65.9	81.0	92.3	98.0	101.7	109.3	114.9	118.7	120.6
132.5°	35.8	49.0	62.2	73.5	79.1	82.9	90.4	94.2	98.0	99.8
135°	22.6	33.9	45.2	54.6	60.3	64.0	71.6	75.3	79.1	79.1
137.5°	11.3	20.7	30.1	37.7	41.4	47.1	52.7	56.5	58.4	60.3
140°	3.8	9.4	17.0	22.6	26.4	30.1	35.8	39.6	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)