

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: P257072

Luminaire Tested: **HGL-S-UF-80L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257072
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-80L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6297.2 lumens
Efficiency: N/A
Efficacy: 88.8 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

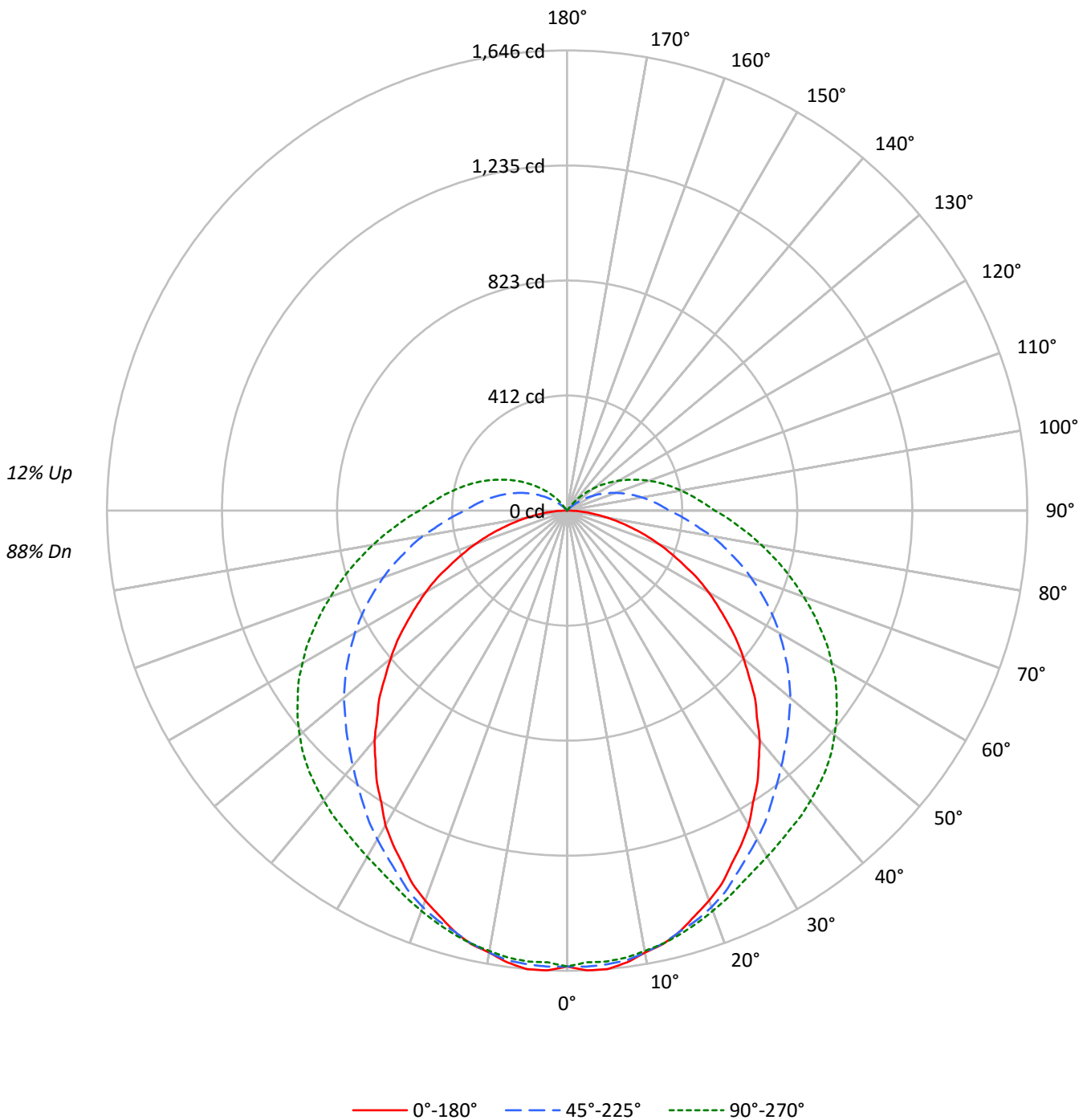
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	19148	19148	19148
5°	19361	18645	18354
10°	19055	18060	17657
15°	18816	17366	16996
20°	18377	16791	16336
25°	17832	16037	15746
30°	17359	15393	15359
35°	16704	14755	15127
40°	16075	14222	15026
45°	15389	13837	14948
50°	14601	13552	14798
55°	13844	13239	14609
60°	13134	12961	14362
65°	12100	12683	14063
70°	11172	12418	13742
75°	9908	12159	13506
80°	8496	12107	13330
85°	6676	12093	13304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	2.5
10°-20°	439.2	7.0
20°-30°	659.0	10.5
30°-40°	800.1	12.7
40°-50°	864.2	13.7
50°-60°	846.4	13.4
60°-70°	750.7	11.9
70°-80°	601.3	9.5
80°-90°	435.8	6.9
90°-100°	307.2	4.9
100°-110°	214.3	3.4
110°-120°	132.6	2.1
120°-130°	67.5	1.1
130°-140°	23.4	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°	1252.6	19.9
0°-40°	2052.7	32.6
0°-60°	3763.3	59.8
0°-90°	5551.2	88.2
90°-120°	654.1	10.4
90°-150°	746.0	11.8
90°-180°	746.0	11.8
0°-180°	6297.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1646	1631	1629	1621	1619	156
15°	1559	1547	1559	1572	1568	438
25°	1393	1397	1434	1457	1473	643
35°	1186	1194	1274	1350	1391	741
45°	951	976	1116	1255	1309	731
55°	701	760	960	1118	1177	629
65°	460	569	789	941	1000	459
75°	240	392	608	754	803	256
85°	64	240	438	569	612	69
90°	2	175	364	485	528	5
95°	0	138	318	431	468	0
105°	0	74	228	329	362	0
115°	0	23	144	232	261	0
125°	0	0	70	142	168	0
135°	0	0	12	62	82	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°	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7
2.5°	1646.3	1644.4	1638.5	1632.7	1630.7	1630.7	1628.8	1626.8	1626.8	1624.9	1632.7
5°	1646.3	1644.4	1638.5	1630.7	1628.8	1630.7	1628.8	1624.9	1624.9	1622.9	1628.8
7.5°	1630.7	1626.8	1622.9	1617.1	1615.1	1615.1	1613.2	1613.2	1613.2	1613.2	1622.9
10°	1605.4	1603.4	1599.5	1593.7	1593.7	1591.8	1591.8	1593.7	1593.7	1595.6	1605.4
12.5°	1587.9	1584.0	1578.1	1572.3	1570.3	1570.3	1568.4	1566.4	1568.4	1570.3	1585.9
15°	1558.6	1556.7	1552.8	1546.9	1546.9	1546.9	1546.9	1545.0	1545.0	1546.9	1558.6
17.5°	1519.7	1515.8	1513.8	1509.9	1511.9	1513.8	1515.8	1513.8	1517.7	1523.6	1537.2
20°	1484.6	1480.7	1476.8	1471.0	1471.0	1472.9	1474.9	1474.9	1484.6	1492.4	1509.9
22.5°	1445.6	1443.7	1439.8	1437.8	1437.8	1439.8	1439.8	1435.9	1441.7	1453.4	1476.8
25°	1393.0	1391.1	1389.1	1389.1	1393.0	1396.9	1398.9	1400.8	1406.7	1414.5	1433.9
27.5°	1348.2	1346.3	1342.4	1338.5	1342.4	1346.3	1348.2	1352.1	1363.8	1379.4	1395.0
30°	1299.5	1297.6	1295.6	1295.6	1299.5	1301.5	1303.4	1301.5	1317.0	1340.4	1358.0
32.5°	1237.2	1235.2	1237.2	1237.2	1246.9	1252.8	1256.6	1258.6	1272.2	1293.7	1319.0
35°	1186.5	1186.5	1184.6	1188.5	1190.4	1194.3	1198.2	1207.9	1227.4	1248.9	1274.2
37.5°	1126.1	1126.1	1126.1	1135.9	1143.6	1145.6	1147.5	1159.2	1184.6	1206.0	1233.3
40°	1071.6	1071.6	1071.6	1075.5	1081.3	1087.1	1094.9	1108.6	1133.9	1165.1	1192.4
42.5°	1005.3	1007.3	1011.2	1020.9	1028.7	1032.6	1038.4	1059.9	1087.1	1124.2	1153.4
45°	950.8	948.8	952.7	960.5	968.3	976.1	985.8	1009.2	1042.3	1083.2	1116.4
47.5°	882.6	884.5	888.4	902.1	911.8	921.5	933.2	960.5	999.5	1040.4	1077.4
50°	824.1	826.1	835.8	843.6	853.4	865.0	878.7	913.7	956.6	997.5	1042.3
52.5°	765.7	767.6	775.4	781.3	796.9	810.5	828.0	867.0	911.8	956.6	1001.4
55°	701.4	705.3	711.1	724.8	744.2	759.8	779.3	822.2	867.0	915.7	960.5
57.5°	641.0	642.9	652.7	666.3	689.7	709.2	732.6	777.4	826.1	872.8	917.6
60°	584.5	588.4	594.2	611.8	642.9	662.4	685.8	732.6	783.2	830.0	876.7
62.5°	526.0	529.9	537.7	557.2	594.2	615.7	641.0	689.7	740.4	787.1	833.9
65°	459.8	463.7	475.4	500.7	545.5	568.9	594.2	644.9	693.6	742.3	789.1
67.5°	403.3	405.2	420.8	448.1	494.9	524.1	551.4	600.1	648.8	697.5	744.2
70°	348.7	352.6	364.3	401.3	452.0	475.4	504.6	557.2	605.9	654.6	699.4
72.5°	294.2	298.1	315.6	356.5	409.1	434.5	457.8	514.3	563.1	609.8	654.6
75°	239.6	245.5	268.9	315.6	366.3	391.6	416.9	467.6	520.2	565.0	607.9
77.5°	190.9	196.8	226.0	274.7	325.4	350.7	376.0	424.7	473.4	522.1	567.0
80°	144.2	152.0	187.0	235.7	286.4	311.7	335.1	385.8	432.5	477.3	524.1
82.5°	103.3	113.0	153.9	200.7	251.3	274.7	298.1	346.8	393.6	436.4	477.3
85°	64.3	81.8	122.7	167.6	216.3	239.6	263.0	311.7	356.5	399.4	438.4
87.5°	31.2	54.6	93.5	136.4	183.1	206.5	229.9	276.7	319.5	362.4	401.3
90°	1.9	31.2	66.2	107.2	153.9	175.3	198.7	243.5	286.4	327.3	364.3
92.5°	0.0	19.5	52.6	91.6	134.4	157.8	179.2	224.1	265.0	305.9	341.0
95°	0.0	9.7	40.9	77.9	118.8	138.3	159.8	202.6	243.5	282.5	317.6
97.5°	0.0	1.9	29.2	62.3	101.3	122.7	142.2	183.1	224.1	261.1	294.2
100°	0.0	0.0	19.5	50.7	85.7	105.2	124.7	163.7	202.6	237.7	270.8
102.5°	0.0	0.0	9.7	39.0	72.1	89.6	107.2	146.1	183.1	218.2	249.4
105°	0.0	0.0	1.9	27.3	58.4	74.0	91.6	126.6	163.7	196.8	227.9
107.5°	0.0	0.0	0.0	15.6	44.8	60.4	76.0	109.1	144.2	175.3	204.6
110°	0.0	0.0	0.0	7.8	33.1	46.8	62.3	93.5	124.7	155.9	185.1



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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	21.4	35.1	48.7	77.9	107.2	136.4	163.7
115°	0.0	0.0	0.0	0.0	11.7	23.4	35.1	62.3	89.6	118.8	144.2
117.5°	0.0	0.0	0.0	0.0	3.9	13.6	23.4	48.7	74.0	99.4	124.7
120°	0.0	0.0	0.0	0.0	0.0	5.8	13.6	35.1	58.4	81.8	105.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	21.4	42.9	66.2	87.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	29.2	50.7	70.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	17.5	35.1	52.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	21.4	37.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.7	23.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	11.7
137.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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°	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7	1630.7
2.5°	1638.5	1630.7	1630.7	1628.8	1626.8	1624.9	1621.0	1619.0	1615.1	1617.1
5°	1634.6	1626.8	1626.8	1622.9	1621.0	1621.0	1619.0	1619.0	1617.1	1619.0
7.5°	1628.8	1619.0	1619.0	1615.1	1613.2	1611.2	1611.2	1611.2	1611.2	1613.2
10°	1613.2	1607.3	1607.3	1605.4	1603.4	1599.5	1597.6	1599.5	1597.6	1599.5
12.5°	1591.8	1585.9	1589.8	1589.8	1589.8	1585.9	1584.0	1585.9	1584.0	1585.9
15°	1564.5	1562.5	1568.4	1570.3	1572.3	1570.3	1568.4	1568.4	1568.4	1568.4
17.5°	1537.2	1535.3	1543.0	1546.9	1546.9	1546.9	1546.9	1545.0	1545.0	1546.9
20°	1513.8	1506.0	1509.9	1517.7	1519.7	1519.7	1521.6	1523.6	1523.6	1523.6
22.5°	1480.7	1476.8	1478.8	1484.6	1488.5	1490.4	1496.3	1496.3	1498.2	1500.2
25°	1441.7	1447.6	1449.5	1455.4	1457.3	1461.2	1469.0	1472.9	1472.9	1472.9
27.5°	1400.8	1412.5	1420.3	1424.2	1428.1	1432.0	1441.7	1449.5	1449.5	1449.5
30°	1361.9	1373.5	1389.1	1396.9	1400.8	1404.7	1418.4	1428.1	1430.0	1430.0
32.5°	1320.9	1336.5	1359.9	1371.6	1373.5	1379.4	1396.9	1408.6	1410.6	1410.6
35°	1285.9	1305.4	1330.7	1346.3	1350.2	1356.0	1375.5	1389.1	1391.1	1391.1
37.5°	1254.7	1274.2	1301.5	1322.9	1326.8	1334.6	1354.1	1371.6	1373.5	1375.5
40°	1219.6	1243.0	1270.3	1295.6	1303.4	1311.2	1332.6	1350.2	1354.1	1354.1
42.5°	1184.6	1213.8	1241.1	1270.3	1280.0	1287.8	1311.2	1328.7	1332.6	1332.6
45°	1147.5	1184.6	1211.8	1243.0	1254.7	1262.5	1283.9	1303.4	1309.3	1309.3
47.5°	1114.4	1153.4	1180.7	1211.8	1223.5	1235.2	1254.7	1274.2	1280.0	1282.0
50°	1077.4	1120.3	1147.5	1176.8	1192.4	1204.0	1223.5	1245.0	1250.8	1248.9
52.5°	1040.4	1081.3	1110.5	1141.7	1157.3	1169.0	1186.5	1209.9	1215.7	1215.7
55°	1001.4	1042.3	1073.5	1102.7	1118.3	1133.9	1151.4	1170.9	1178.7	1176.8
57.5°	962.5	999.5	1032.6	1063.8	1077.4	1093.0	1110.5	1130.0	1135.9	1139.7
60°	921.5	954.7	991.7	1020.9	1034.5	1050.1	1067.7	1085.2	1094.9	1093.0
62.5°	876.7	913.7	948.8	976.1	989.7	1005.3	1022.9	1038.4	1046.2	1050.1
65°	831.9	867.0	900.1	929.3	941.0	956.6	976.1	987.8	997.5	999.5
67.5°	785.2	820.2	853.4	884.5	896.2	909.9	927.4	939.1	948.8	950.8
70°	738.4	775.4	808.5	837.8	849.5	861.1	878.7	890.4	900.1	900.1
72.5°	693.6	730.6	761.8	791.0	802.7	812.4	830.0	841.7	849.5	851.4
75°	648.8	683.8	715.0	744.2	754.0	765.7	781.3	793.0	800.7	802.7
77.5°	604.0	641.0	670.2	697.5	707.2	717.0	734.5	744.2	752.0	752.0
80°	561.1	596.2	625.4	650.7	658.5	670.2	685.8	695.5	701.4	705.3
82.5°	520.2	553.3	580.6	604.0	615.7	623.5	639.0	648.8	654.6	658.5
85°	475.4	510.5	537.7	561.1	568.9	580.6	594.2	604.0	609.8	611.8
87.5°	434.5	465.6	492.9	520.2	529.9	537.7	551.4	561.1	567.0	570.8
90°	399.4	428.6	454.0	475.4	485.1	494.9	510.5	520.2	526.0	528.0
92.5°	374.1	403.3	426.7	448.1	457.8	465.6	479.3	489.0	494.9	496.8
95°	350.7	378.0	401.3	422.8	430.6	438.4	452.0	459.8	463.7	467.6
97.5°	325.4	354.6	376.0	395.5	405.2	411.1	424.7	432.5	438.4	440.3
100°	302.0	329.3	350.7	372.1	379.9	385.8	399.4	407.2	411.1	413.0
102.5°	278.6	305.9	327.3	346.8	354.6	360.4	372.1	379.9	385.8	387.7
105°	255.2	280.6	302.0	321.5	329.3	335.1	346.8	354.6	360.4	362.4
107.5°	233.8	257.2	278.6	296.1	303.9	309.8	321.5	329.3	335.1	337.1
110°	212.4	233.8	255.2	272.8	280.6	286.4	298.1	303.9	309.8	311.7



TEST NUMBER: P257072

CATALOG NUMBER: HGL-S-UF-80L940-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	189.0	212.4	231.8	249.4	255.2	263.0	272.8	280.6	284.5	286.4
115°	169.5	190.9	208.5	226.0	231.8	237.7	249.4	255.2	261.1	261.1
117.5°	148.1	167.6	187.0	202.6	208.5	214.3	226.0	231.8	235.7	237.7
120°	128.6	146.1	163.7	179.2	187.0	190.9	202.6	208.5	212.4	214.3
122.5°	109.1	126.6	144.2	157.8	163.7	169.5	179.2	185.1	189.0	190.9
125°	89.6	107.2	122.7	136.4	142.2	148.1	155.9	161.7	165.6	167.6
127.5°	72.1	87.7	103.3	114.9	120.8	126.6	134.4	140.3	144.2	146.1
130°	54.6	68.2	83.8	95.5	101.3	105.2	113.0	118.8	122.7	124.7
132.5°	37.0	50.7	64.3	76.0	81.8	85.7	93.5	97.4	101.3	103.3
135°	23.4	35.1	46.8	56.5	62.3	66.2	74.0	77.9	81.8	81.8
137.5°	11.7	21.4	31.2	39.0	42.9	48.7	54.6	58.4	60.4	62.3
140°	3.9	9.7	17.5	23.4	27.3	31.2	37.0	40.9	42.9	44.8
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)