

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: P257094

Luminaire Tested: **HGL-S-UF-40L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257094
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-40L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6162.4 lumens
Efficiency: N/A
Efficacy: 106.2 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

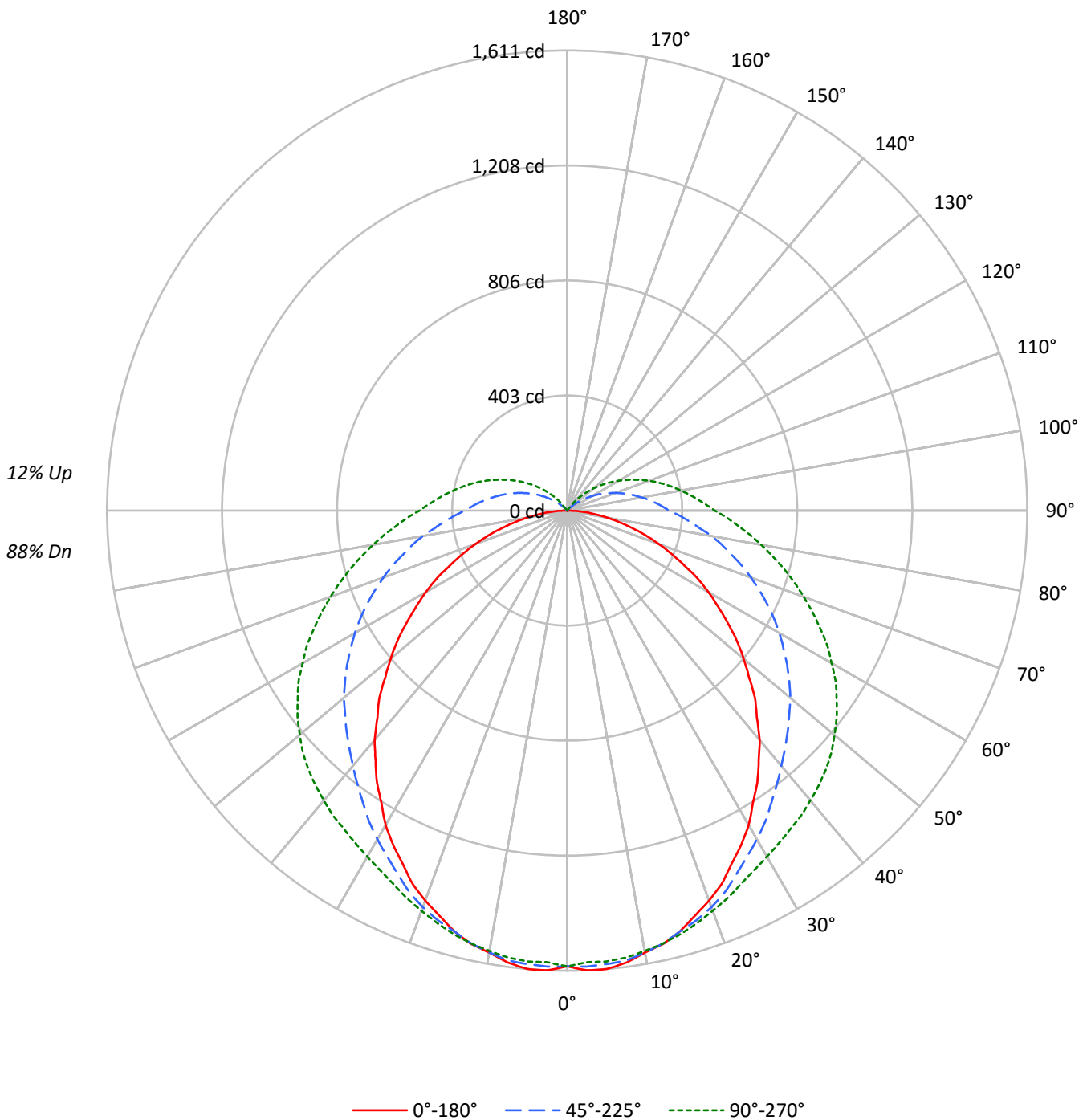
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9369	9369	9369
5°	9484	9130	8981
10°	9345	8850	8640
15°	9239	8517	8316
20°	9034	8240	7993
25°	8778	7876	7705
30°	8557	7565	7515
35°	8247	7257	7401
40°	7950	7001	7352
45°	7626	6817	7314
50°	7254	6683	7240
55°	6898	6536	7148
60°	6569	6406	7027
65°	6082	6277	6881
70°	5656	6157	6723
75°	5073	6041	6608
80°	4443	6032	6522
85°	3688	6047	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.5
10°-20°	429.8	7.0
20°-30°	644.9	10.5
30°-40°	783.0	12.7
40°-50°	845.7	13.7
50°-60°	828.3	13.4
60°-70°	734.7	11.9
70°-80°	588.5	9.5
80°-90°	426.5	6.9
90°-100°	300.6	4.9
100°-110°	209.7	3.4
110°-120°	129.8	2.1
120°-130°	66.0	1.1
130°-140°	22.9	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°	1225.8	19.9
0°-40°	2008.8	32.6
0°-60°	3682.8	59.8
0°-90°	5432.4	88.2
90°-120°	640.1	10.4
90°-150°	730.0	11.8
90°-180°	730.0	11.8
0°-180°	6162.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1611	1596	1594	1586	1584	152
15°	1525	1514	1525	1539	1535	429
25°	1363	1367	1403	1426	1441	629
35°	1161	1169	1247	1321	1361	725
45°	930	955	1092	1228	1281	715
55°	686	744	940	1094	1152	615
65°	450	557	772	921	978	449
75°	234	383	595	738	786	251
85°	63	234	429	557	599	68
90°	2	172	356	475	517	5
95°	0	135	311	421	458	0
105°	0	72	223	322	355	0
115°	0	23	141	227	256	0
125°	0	0	69	139	164	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°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	1611.1	1609.2	1603.4	1597.7	1595.8	1595.8	1593.9	1592.0	1592.0	1590.1	1597.7
5°	1611.1	1609.2	1603.4	1595.8	1593.9	1595.8	1593.9	1590.1	1590.1	1588.2	1593.9
7.5°	1595.8	1592.0	1588.2	1582.5	1580.6	1580.6	1578.7	1578.7	1578.7	1578.7	1588.2
10°	1571.0	1569.1	1565.3	1559.6	1559.6	1557.7	1557.7	1559.6	1559.6	1561.5	1571.0
12.5°	1553.9	1550.1	1544.3	1538.6	1536.7	1536.7	1534.8	1532.9	1534.8	1536.7	1552.0
15°	1525.3	1523.4	1519.6	1513.8	1513.8	1513.8	1513.8	1511.9	1511.9	1513.8	1525.3
17.5°	1487.1	1483.3	1481.4	1477.6	1479.5	1481.4	1483.3	1481.4	1485.2	1491.0	1504.3
20°	1452.8	1449.0	1445.2	1439.5	1439.5	1441.4	1443.3	1443.3	1452.8	1460.5	1477.6
22.5°	1414.7	1412.8	1409.0	1407.1	1407.1	1409.0	1409.0	1405.2	1410.9	1422.3	1445.2
25°	1363.2	1361.3	1359.4	1359.4	1363.2	1367.0	1368.9	1370.8	1376.6	1384.2	1403.3
27.5°	1319.4	1317.5	1313.6	1309.8	1313.6	1317.5	1319.4	1323.2	1334.6	1349.9	1365.1
30°	1271.7	1269.8	1267.9	1267.9	1271.7	1273.6	1275.5	1273.6	1288.9	1311.7	1328.9
32.5°	1210.7	1208.8	1210.7	1210.7	1220.2	1225.9	1229.8	1231.7	1245.0	1266.0	1290.8
35°	1161.1	1161.1	1159.2	1163.0	1164.9	1168.7	1172.6	1182.1	1201.2	1222.1	1246.9
37.5°	1102.0	1102.0	1102.0	1111.5	1119.2	1121.1	1123.0	1134.4	1159.2	1180.2	1206.9
40°	1048.6	1048.6	1048.6	1052.4	1058.2	1063.9	1071.5	1084.9	1109.6	1140.1	1166.8
42.5°	983.8	985.7	989.5	999.1	1006.7	1010.5	1016.2	1037.2	1063.9	1100.1	1128.7
45°	930.4	928.5	932.3	940.0	947.6	955.2	964.7	987.6	1020.0	1060.1	1092.5
47.5°	863.7	865.6	869.4	882.8	892.3	901.8	913.3	940.0	978.1	1018.1	1054.3
50°	806.5	808.4	817.9	825.6	835.1	846.5	859.9	894.2	936.1	976.2	1020.0
52.5°	749.3	751.2	758.8	764.5	779.8	793.1	810.3	848.4	892.3	936.1	980.0
55°	686.4	690.2	695.9	709.3	728.3	743.6	762.6	804.6	848.4	896.1	940.0
57.5°	627.3	629.2	638.7	652.1	674.9	694.0	716.9	760.7	808.4	854.2	898.0
60°	572.0	575.8	581.5	598.7	629.2	648.2	671.1	716.9	766.5	812.2	858.0
62.5°	514.8	518.6	526.2	545.3	581.5	602.5	627.3	674.9	724.5	770.3	816.0
65°	450.0	453.8	465.2	490.0	533.8	556.7	581.5	631.1	678.7	726.4	772.2
67.5°	394.7	396.6	411.8	438.5	484.3	512.9	539.6	587.2	634.9	682.6	728.3
70°	341.3	345.1	356.5	392.8	442.3	465.2	493.8	545.3	593.0	640.6	684.5
72.5°	287.9	291.7	308.9	348.9	400.4	425.2	448.1	503.3	551.0	596.8	640.6
75°	234.5	240.2	263.1	308.9	358.4	383.2	408.0	457.6	509.1	552.9	594.9
77.5°	186.8	192.6	221.2	268.8	318.4	343.2	368.0	415.6	463.3	511.0	554.8
80°	141.1	148.7	183.0	230.7	280.3	305.1	327.9	377.5	423.3	467.1	512.9
82.5°	101.0	110.6	150.6	196.4	246.0	268.8	291.7	339.4	385.1	427.1	467.1
85°	62.9	80.1	120.1	164.0	211.6	234.5	257.4	305.1	348.9	390.9	429.0
87.5°	30.5	53.4	91.5	133.5	179.2	202.1	225.0	270.7	312.7	354.6	392.8
90°	1.9	30.5	64.8	104.9	150.6	171.6	194.5	238.3	280.3	320.3	356.5
92.5°	0.0	19.1	51.5	89.6	131.6	154.4	175.4	219.3	259.3	299.3	333.7
95°	0.0	9.5	40.0	76.3	116.3	135.4	156.3	198.3	238.3	276.5	310.8
97.5°	0.0	1.9	28.6	61.0	99.1	120.1	139.2	179.2	219.3	255.5	287.9
100°	0.0	0.0	19.1	49.6	83.9	103.0	122.0	160.2	198.3	232.6	265.0
102.5°	0.0	0.0	9.5	38.1	70.5	87.7	104.9	143.0	179.2	213.5	244.0
105°	0.0	0.0	1.9	26.7	57.2	72.5	89.6	123.9	160.2	192.6	223.1
107.5°	0.0	0.0	0.0	15.3	43.9	59.1	74.4	106.8	141.1	171.6	200.2
110°	0.0	0.0	0.0	7.6	32.4	45.8	61.0	91.5	122.0	152.5	181.1



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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	21.0	34.3	47.7	76.3	104.9	133.5	160.2
115°	0.0	0.0	0.0	0.0	11.4	22.9	34.3	61.0	87.7	116.3	141.1
117.5°	0.0	0.0	0.0	0.0	3.8	13.3	22.9	47.7	72.5	97.2	122.0
120°	0.0	0.0	0.0	0.0	0.0	5.7	13.3	34.3	57.2	80.1	103.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	21.0	41.9	64.8	85.8
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	28.6	49.6	68.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.2	34.3	51.5
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	21.0	36.2
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.4	22.9
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°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	1603.4	1595.8	1595.8	1593.9	1592.0	1590.1	1586.3	1584.4	1580.6	1582.5
5°	1599.6	1592.0	1592.0	1588.2	1586.3	1586.3	1584.4	1584.4	1582.5	1584.4
7.5°	1593.9	1584.4	1584.4	1580.6	1578.7	1576.8	1576.8	1576.8	1576.8	1578.7
10°	1578.7	1572.9	1572.9	1571.0	1569.1	1565.3	1563.4	1565.3	1563.4	1565.3
12.5°	1557.7	1552.0	1555.8	1555.8	1555.8	1552.0	1550.1	1552.0	1550.1	1552.0
15°	1531.0	1529.1	1534.8	1536.7	1538.6	1536.7	1534.8	1534.8	1534.8	1534.8
17.5°	1504.3	1502.4	1510.0	1513.8	1513.8	1513.8	1513.8	1511.9	1511.9	1513.8
20°	1481.4	1473.8	1477.6	1485.2	1487.1	1487.1	1489.1	1491.0	1491.0	1491.0
22.5°	1449.0	1445.2	1447.1	1452.8	1456.6	1458.5	1464.3	1464.3	1466.2	1468.1
25°	1410.9	1416.6	1418.5	1424.2	1426.1	1429.9	1437.6	1441.4	1441.4	1441.4
27.5°	1370.8	1382.3	1389.9	1393.7	1397.5	1401.3	1410.9	1418.5	1418.5	1418.5
30°	1332.7	1344.2	1359.4	1367.0	1370.8	1374.7	1388.0	1397.5	1399.4	1399.4
32.5°	1292.7	1307.9	1330.8	1342.2	1344.2	1349.9	1367.0	1378.5	1380.4	1380.4
35°	1258.4	1277.4	1302.2	1317.5	1321.3	1327.0	1346.1	1359.4	1361.3	1361.3
37.5°	1227.8	1246.9	1273.6	1294.6	1298.4	1306.0	1325.1	1342.2	1344.2	1346.1
40°	1193.5	1216.4	1243.1	1267.9	1275.5	1283.1	1304.1	1321.3	1325.1	1325.1
42.5°	1159.2	1187.8	1214.5	1243.1	1252.6	1260.3	1283.1	1300.3	1304.1	1304.1
45°	1123.0	1159.2	1185.9	1216.4	1227.8	1235.5	1256.4	1275.5	1281.2	1281.2
47.5°	1090.6	1128.7	1155.4	1185.9	1197.3	1208.8	1227.8	1246.9	1252.6	1254.5
50°	1054.3	1096.3	1123.0	1151.6	1166.8	1178.3	1197.3	1218.3	1224.0	1222.1
52.5°	1018.1	1058.2	1086.8	1117.3	1132.5	1144.0	1161.1	1184.0	1189.7	1189.7
55°	980.0	1020.0	1050.5	1079.1	1094.4	1109.6	1126.8	1145.9	1153.5	1151.6
57.5°	941.9	978.1	1010.5	1041.0	1054.3	1069.6	1086.8	1105.8	1111.5	1115.4
60°	901.8	934.2	970.5	999.1	1012.4	1027.7	1044.8	1062.0	1071.5	1069.6
62.5°	858.0	894.2	928.5	955.2	968.6	983.8	1001.0	1016.2	1023.8	1027.7
65°	814.1	848.4	880.8	909.4	920.9	936.1	955.2	966.6	976.2	978.1
67.5°	768.4	802.7	835.1	865.6	877.0	890.4	907.5	919.0	928.5	930.4
70°	722.6	758.8	791.2	819.8	831.3	842.7	859.9	871.3	880.8	880.8
72.5°	678.7	715.0	745.5	774.1	785.5	795.1	812.2	823.7	831.3	833.2
75°	634.9	669.2	699.7	728.3	737.9	749.3	764.5	776.0	783.6	785.5
77.5°	591.0	627.3	655.9	682.6	692.1	701.6	718.8	728.3	735.9	735.9
80°	549.1	583.4	612.0	636.8	644.4	655.9	671.1	680.7	686.4	690.2
82.5°	509.1	541.5	568.2	591.0	602.5	610.1	625.4	634.9	640.6	644.4
85°	465.2	499.5	526.2	549.1	556.7	568.2	581.5	591.0	596.8	598.7
87.5°	425.2	455.7	482.4	509.1	518.6	526.2	539.6	549.1	554.8	558.6
90°	390.9	419.5	444.2	465.2	474.7	484.3	499.5	509.1	514.8	516.7
92.5°	366.1	394.7	417.5	438.5	448.1	455.7	469.0	478.6	484.3	486.2
95°	343.2	369.9	392.8	413.7	421.4	429.0	442.3	450.0	453.8	457.6
97.5°	318.4	347.0	368.0	387.0	396.6	402.3	415.6	423.3	429.0	430.9
100°	295.5	322.2	343.2	364.2	371.8	377.5	390.9	398.5	402.3	404.2
102.5°	272.6	299.3	320.3	339.4	347.0	352.7	364.2	371.8	377.5	379.4
105°	249.8	274.6	295.5	314.6	322.2	327.9	339.4	347.0	352.7	354.6
107.5°	228.8	251.7	272.6	289.8	297.4	303.1	314.6	322.2	327.9	329.8
110°	207.8	228.8	249.8	266.9	274.6	280.3	291.7	297.4	303.1	305.1



TEST NUMBER: P257094

CATALOG NUMBER: HGL-S-UF-40L940-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	184.9	207.8	226.9	244.0	249.8	257.4	266.9	274.6	278.4	280.3
115°	165.9	186.8	204.0	221.2	226.9	232.6	244.0	249.8	255.5	255.5
117.5°	144.9	164.0	183.0	198.3	204.0	209.7	221.2	226.9	230.7	232.6
120°	125.8	143.0	160.2	175.4	183.0	186.8	198.3	204.0	207.8	209.7
122.5°	106.8	123.9	141.1	154.4	160.2	165.9	175.4	181.1	184.9	186.8
125°	87.7	104.9	120.1	133.5	139.2	144.9	152.5	158.2	162.1	164.0
127.5°	70.5	85.8	101.0	112.5	118.2	123.9	131.6	137.3	141.1	143.0
130°	53.4	66.7	82.0	93.4	99.1	103.0	110.6	116.3	120.1	122.0
132.5°	36.2	49.6	62.9	74.4	80.1	83.9	91.5	95.3	99.1	101.0
135°	22.9	34.3	45.8	55.3	61.0	64.8	72.5	76.3	80.1	80.1
137.5°	11.4	21.0	30.5	38.1	41.9	47.7	53.4	57.2	59.1	61.0
140°	3.8	9.5	17.2	22.9	26.7	30.5	36.2	40.0	41.9	43.9
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)