

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: P257089

Luminaire Tested: **HGL-S-UF-40L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257089
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-40L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5958.1 lumens
Efficiency: N/A
Efficacy: 102.7 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

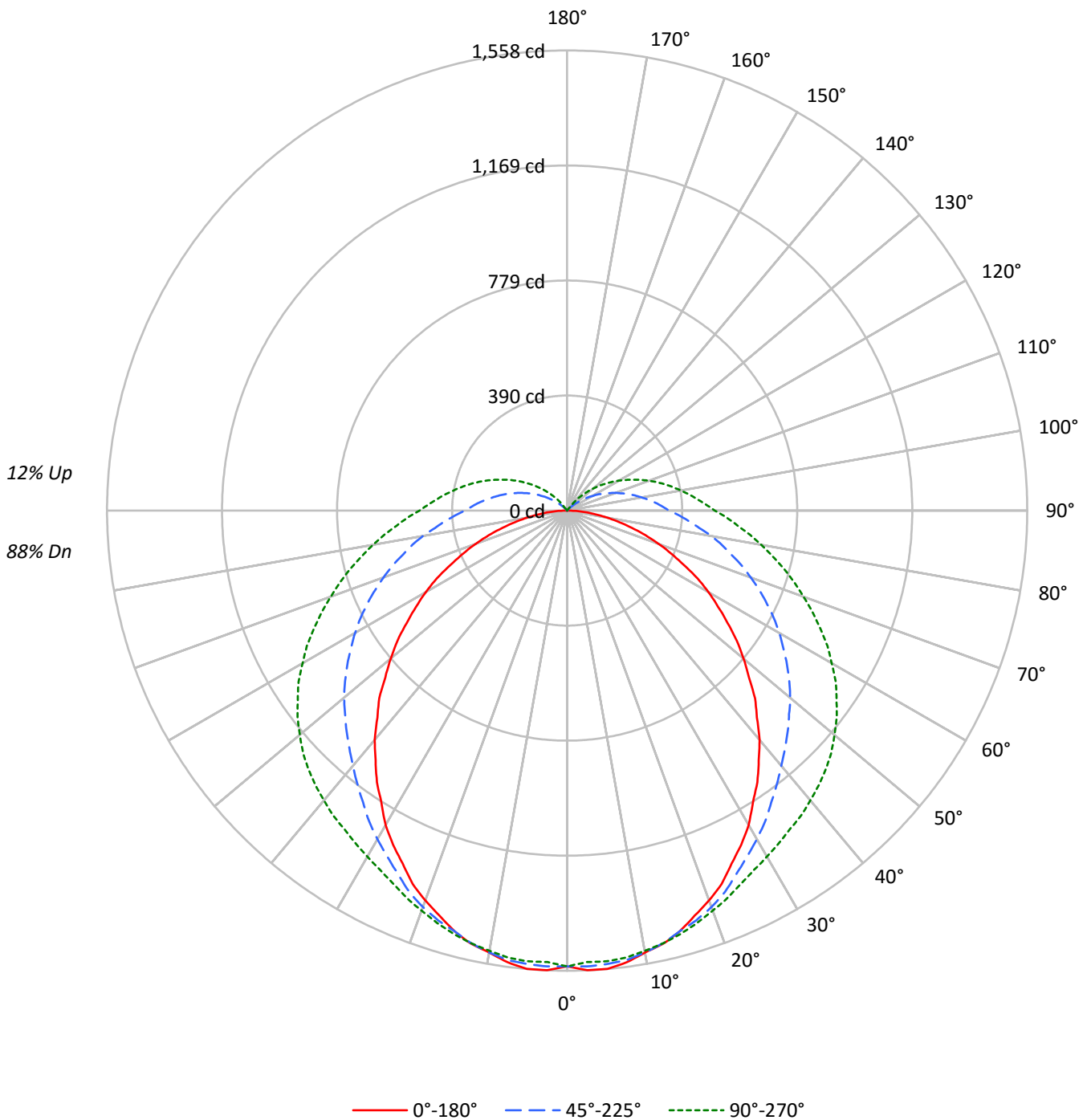
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9059	9059	9059
5°	9170	8827	8683
10°	9035	8557	8353
15°	8933	8234	8040
20°	8735	7967	7728
25°	8487	7615	7449
30°	8273	7314	7266
35°	7973	7017	7156
40°	7687	6769	7108
45°	7374	6591	7072
50°	7014	6462	7001
55°	6669	6319	6911
60°	6350	6194	6794
65°	5879	6069	6653
70°	5469	5953	6501
75°	4904	5840	6390
80°	4295	5832	6306
85°	3565	5847	6293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	2.5
10°-20°	415.6	7.0
20°-30°	623.5	10.5
30°-40°	757.0	12.7
40°-50°	817.7	13.7
50°-60°	800.8	13.4
60°-70°	710.3	11.9
70°-80°	569.0	9.5
80°-90°	412.4	6.9
90°-100°	290.6	4.9
100°-110°	202.7	3.4
110°-120°	125.5	2.1
120°-130°	63.8	1.1
130°-140°	22.1	0.4
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1185.2	19.9
0°-40°	1942.2	32.6
0°-60°	3560.7	59.8
0°-90°	5252.3	88.2
90°-120°	618.8	10.4
90°-150°	705.8	11.8
90°-180°	706.0	11.8
0°-180°	5958.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1558	1543	1541	1534	1532	147
15°	1475	1464	1475	1488	1484	415
25°	1318	1322	1357	1379	1394	608
35°	1123	1130	1206	1278	1316	701
45°	900	924	1056	1187	1239	691
55°	664	719	909	1058	1113	595
65°	435	538	747	890	946	434
75°	227	370	575	713	760	242
85°	61	227	415	538	579	66
90°	2	166	345	459	500	5
95°	0	131	300	407	442	0
105°	0	70	216	312	343	0
115°	0	22	136	219	247	0
125°	0	0	66	135	158	0
135°	0	0	11	59	77	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°	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9
2.5°	1557.7	1555.8	1550.3	1544.8	1542.9	1542.9	1541.1	1539.2	1539.2	1537.4	1544.8
5°	1557.7	1555.8	1550.3	1542.9	1541.1	1542.9	1541.1	1537.4	1537.4	1535.5	1541.1
7.5°	1542.9	1539.2	1535.5	1530.0	1528.2	1528.2	1526.3	1526.3	1526.3	1526.3	1535.5
10°	1519.0	1517.1	1513.4	1507.9	1507.9	1506.1	1506.1	1507.9	1507.9	1509.7	1519.0
12.5°	1502.4	1498.7	1493.1	1487.6	1485.8	1485.8	1483.9	1482.1	1483.9	1485.8	1500.5
15°	1474.7	1472.9	1469.2	1463.7	1463.7	1463.7	1463.7	1461.8	1461.8	1463.7	1474.7
17.5°	1437.8	1434.2	1432.3	1428.6	1430.5	1432.3	1434.2	1432.3	1436.0	1441.5	1454.4
20°	1404.7	1401.0	1397.3	1391.8	1391.8	1393.6	1395.4	1395.4	1404.7	1412.0	1428.6
22.5°	1367.8	1366.0	1362.3	1360.4	1360.4	1362.3	1362.3	1358.6	1364.1	1375.2	1397.3
25°	1318.0	1316.2	1314.3	1314.3	1318.0	1321.7	1323.6	1325.4	1330.9	1338.3	1356.7
27.5°	1275.6	1273.8	1270.1	1266.4	1270.1	1273.8	1275.6	1279.3	1290.4	1305.1	1319.9
30°	1229.5	1227.7	1225.9	1225.9	1229.5	1231.4	1233.2	1231.4	1246.1	1268.3	1284.8
32.5°	1170.6	1168.7	1170.6	1170.6	1179.8	1185.3	1189.0	1190.8	1203.7	1224.0	1248.0
35°	1122.6	1122.6	1120.8	1124.5	1126.3	1130.0	1133.7	1142.9	1161.3	1181.6	1205.6
37.5°	1065.5	1065.5	1065.5	1074.7	1082.1	1083.9	1085.8	1096.8	1120.8	1141.1	1166.9
40°	1013.9	1013.9	1013.9	1017.6	1023.1	1028.6	1036.0	1048.9	1072.9	1102.3	1128.2
42.5°	951.2	953.0	956.7	965.9	973.3	977.0	982.5	1002.8	1028.6	1063.6	1091.3
45°	899.6	897.7	901.4	908.8	916.2	923.5	932.8	954.9	986.2	1024.9	1056.3
47.5°	835.1	836.9	840.6	853.5	862.7	871.9	883.0	908.8	945.7	984.4	1019.4
50°	779.8	781.6	790.8	798.2	807.4	818.5	831.4	864.6	905.1	943.8	986.2
52.5°	724.5	726.3	733.7	739.2	753.9	766.9	783.4	820.3	862.7	905.1	947.5
55°	663.6	667.3	672.8	685.7	704.2	718.9	737.4	777.9	820.3	866.4	908.8
57.5°	606.5	608.3	617.5	630.4	652.6	671.0	693.1	735.5	781.6	825.8	868.2
60°	553.0	556.7	562.2	578.8	608.3	626.8	648.9	693.1	741.0	785.3	829.5
62.5°	497.7	501.4	508.8	527.2	562.2	582.5	606.5	652.6	700.5	744.7	789.0
65°	435.0	438.7	449.8	473.8	516.1	538.3	562.2	610.2	656.2	702.3	746.6
67.5°	381.6	383.4	398.2	424.0	468.2	495.9	521.7	567.8	613.8	659.9	704.2
70°	330.0	333.7	344.7	379.7	427.7	449.8	477.4	527.2	573.3	619.4	661.8
72.5°	278.4	282.0	298.6	337.3	387.1	411.1	433.2	486.7	532.7	577.0	619.4
75°	226.7	232.3	254.4	298.6	346.6	370.5	394.5	442.4	492.2	534.6	575.1
77.5°	180.7	186.2	213.8	259.9	307.8	331.8	355.8	401.9	447.9	494.0	536.4
80°	136.4	143.8	177.0	223.1	271.0	294.9	317.1	365.0	409.2	451.6	495.9
82.5°	97.7	106.9	145.6	189.9	237.8	259.9	282.0	328.1	372.4	412.9	451.6
85°	60.8	77.4	116.1	158.5	204.6	226.7	248.9	294.9	337.3	377.9	414.8
87.5°	29.5	51.6	88.5	129.0	173.3	195.4	217.5	261.8	302.3	342.9	379.7
90°	1.8	29.5	62.7	101.4	145.6	165.9	188.0	230.4	271.0	309.7	344.7
92.5°	0.0	18.4	49.8	86.6	127.2	149.3	169.6	212.0	250.7	289.4	322.6
95°	0.0	9.2	38.7	73.7	112.4	130.9	151.2	191.7	230.4	267.3	300.5
97.5°	0.0	1.8	27.7	59.0	95.9	116.1	134.6	173.3	212.0	247.0	278.4
100°	0.0	0.0	18.4	47.9	81.1	99.5	118.0	154.8	191.7	224.9	256.2
102.5°	0.0	0.0	9.2	36.9	68.2	84.8	101.4	138.3	173.3	206.5	236.0
105°	0.0	0.0	1.8	25.8	55.3	70.0	86.6	119.8	154.8	186.2	215.7
107.5°	0.0	0.0	0.0	14.7	42.4	57.1	71.9	103.2	136.4	165.9	193.6
110°	0.0	0.0	0.0	7.4	31.3	44.2	59.0	88.5	118.0	147.5	175.1



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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	1.8	20.3	33.2	46.1	73.7	101.4	129.0	154.8
115°	0.0	0.0	0.0	0.0	11.1	22.1	33.2	59.0	84.8	112.4	136.4
117.5°	0.0	0.0	0.0	0.0	3.7	12.9	22.1	46.1	70.0	94.0	118.0
120°	0.0	0.0	0.0	0.0	0.0	5.5	12.9	33.2	55.3	77.4	99.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	20.3	40.6	62.7	83.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	27.7	47.9	66.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	16.6	33.2	49.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	20.3	35.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	11.1	22.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	11.1
137.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
140°	1.8	1.8	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°	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9	1542.9
2.5°	1550.3	1542.9	1542.9	1541.1	1539.2	1537.4	1533.7	1531.9	1528.2	1530.0
5°	1546.6	1539.2	1539.2	1535.5	1533.7	1533.7	1531.9	1531.9	1530.0	1531.9
7.5°	1541.1	1531.9	1531.9	1528.2	1526.3	1524.5	1524.5	1524.5	1524.5	1526.3
10°	1526.3	1520.8	1520.8	1519.0	1517.1	1513.4	1511.6	1513.4	1511.6	1513.4
12.5°	1506.1	1500.5	1504.2	1504.2	1504.2	1500.5	1498.7	1500.5	1498.7	1500.5
15°	1480.2	1478.4	1483.9	1485.8	1487.6	1485.8	1483.9	1483.9	1483.9	1483.9
17.5°	1454.4	1452.6	1460.0	1463.7	1463.7	1463.7	1463.7	1461.8	1461.8	1463.7
20°	1432.3	1424.9	1428.6	1436.0	1437.8	1437.8	1439.7	1441.5	1441.5	1441.5
22.5°	1401.0	1397.3	1399.1	1404.7	1408.4	1410.2	1415.7	1415.7	1417.6	1419.4
25°	1364.1	1369.6	1371.5	1377.0	1378.9	1382.5	1389.9	1393.6	1393.6	1393.6
27.5°	1325.4	1336.5	1343.8	1347.5	1351.2	1354.9	1364.1	1371.5	1371.5	1371.5
30°	1288.5	1299.6	1314.3	1321.7	1325.4	1329.1	1342.0	1351.2	1353.0	1353.0
32.5°	1249.8	1264.6	1286.7	1297.7	1299.6	1305.1	1321.7	1332.8	1334.6	1334.6
35°	1216.6	1235.1	1259.0	1273.8	1277.5	1283.0	1301.4	1314.3	1316.2	1316.2
37.5°	1187.1	1205.6	1231.4	1251.7	1255.3	1262.7	1281.2	1297.7	1299.6	1301.4
40°	1154.0	1176.1	1201.9	1225.9	1233.2	1240.6	1260.9	1277.5	1281.2	1281.2
42.5°	1120.8	1148.4	1174.2	1201.9	1211.1	1218.5	1240.6	1257.2	1260.9	1260.9
45°	1085.8	1120.8	1146.6	1176.1	1187.1	1194.5	1214.8	1233.2	1238.8	1238.8
47.5°	1054.4	1091.3	1117.1	1146.6	1157.6	1168.7	1187.1	1205.6	1211.1	1213.0
50°	1019.4	1060.0	1085.8	1113.4	1128.2	1139.2	1157.6	1177.9	1183.5	1181.6
52.5°	984.4	1023.1	1050.7	1080.2	1095.0	1106.0	1122.6	1144.7	1150.3	1150.3
55°	947.5	986.2	1015.7	1043.4	1058.1	1072.9	1089.4	1107.9	1115.3	1113.4
57.5°	910.6	945.7	977.0	1006.5	1019.4	1034.1	1050.7	1069.2	1074.7	1078.4
60°	871.9	903.3	938.3	965.9	978.8	993.6	1010.2	1026.8	1036.0	1034.1
62.5°	829.5	864.6	897.7	923.5	936.4	951.2	967.8	982.5	989.9	993.6
65°	787.1	820.3	851.6	879.3	890.4	905.1	923.5	934.6	943.8	945.7
67.5°	742.9	776.1	807.4	836.9	848.0	860.9	877.5	888.5	897.7	899.6
70°	698.6	733.7	765.0	792.7	803.7	814.8	831.4	842.4	851.6	851.6
72.5°	656.2	691.3	720.8	748.4	759.5	768.7	785.3	796.3	803.7	805.6
75°	613.8	647.0	676.5	704.2	713.4	724.5	739.2	750.3	757.6	759.5
77.5°	571.5	606.5	634.1	659.9	669.2	678.4	695.0	704.2	711.5	711.5
80°	530.9	564.1	591.7	615.7	623.1	634.1	648.9	658.1	663.6	667.3
82.5°	492.2	523.5	549.3	571.5	582.5	589.9	604.6	613.8	619.4	623.1
85°	449.8	483.0	508.8	530.9	538.3	549.3	562.2	571.5	577.0	578.8
87.5°	411.1	440.6	466.4	492.2	501.4	508.8	521.7	530.9	536.4	540.1
90°	377.9	405.5	429.5	449.8	459.0	468.2	483.0	492.2	497.7	499.6
92.5°	353.9	381.6	403.7	424.0	433.2	440.6	453.5	462.7	468.2	470.1
95°	331.8	357.6	379.7	400.0	407.4	414.8	427.7	435.0	438.7	442.4
97.5°	307.8	335.5	355.8	374.2	383.4	389.0	401.9	409.2	414.8	416.6
100°	285.7	311.5	331.8	352.1	359.5	365.0	377.9	385.3	389.0	390.8
102.5°	263.6	289.4	309.7	328.1	335.5	341.0	352.1	359.5	365.0	366.8
105°	241.5	265.4	285.7	304.2	311.5	317.1	328.1	335.5	341.0	342.9
107.5°	221.2	243.3	263.6	280.2	287.6	293.1	304.2	311.5	317.1	318.9
110°	200.9	221.2	241.5	258.1	265.4	271.0	282.0	287.6	293.1	294.9



TEST NUMBER: P257089

CATALOG NUMBER: HGL-S-UF-40L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	178.8	200.9	219.4	236.0	241.5	248.9	258.1	265.4	269.1	271.0
115°	160.4	180.7	197.2	213.8	219.4	224.9	236.0	241.5	247.0	247.0
117.5°	140.1	158.5	177.0	191.7	197.2	202.8	213.8	219.4	223.1	224.9
120°	121.7	138.3	154.8	169.6	177.0	180.7	191.7	197.2	200.9	202.8
122.5°	103.2	119.8	136.4	149.3	154.8	160.4	169.6	175.1	178.8	180.7
125°	84.8	101.4	116.1	129.0	134.6	140.1	147.5	153.0	156.7	158.5
127.5°	68.2	83.0	97.7	108.8	114.3	119.8	127.2	132.7	136.4	138.3
130°	51.6	64.5	79.3	90.3	95.9	99.5	106.9	112.4	116.1	118.0
132.5°	35.0	47.9	60.8	71.9	77.4	81.1	88.5	92.2	95.9	97.7
135°	22.1	33.2	44.2	53.5	59.0	62.7	70.0	73.7	77.4	77.4
137.5°	11.1	20.3	29.5	36.9	40.6	46.1	51.6	55.3	57.1	59.0
140°	3.7	9.2	16.6	22.1	25.8	29.5	35.0	38.7	40.6	42.4
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)