

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: P257059

Luminaire Tested: **HGL-S-UF-60L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257059
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-60L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6172.9 lumens
Efficiency: N/A
Efficacy: 129.7 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

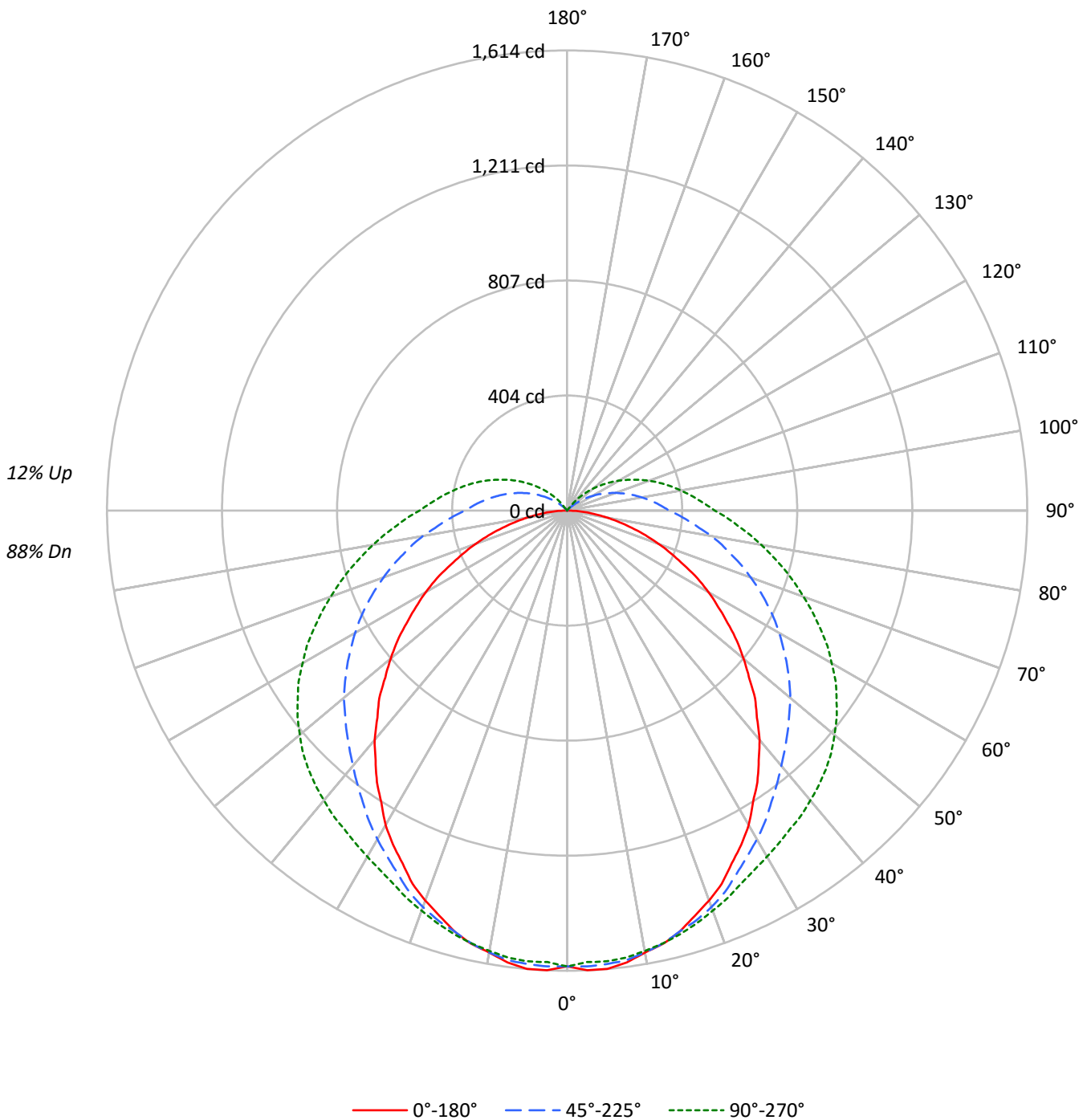
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18770	18770	18770
5°	18979	18276	17992
10°	18678	17703	17309
15°	18445	17024	16660
20°	18015	16460	16014
25°	17480	15720	15435
30°	17017	15089	15056
35°	16374	14463	14828
40°	15757	13941	14728
45°	15084	13563	14652
50°	14314	13286	14506
55°	13570	12978	14319
60°	12876	12705	14078
65°	11860	12432	13786
70°	10955	12173	13470
75°	9713	11919	13240
80°	8325	11867	13068
85°	6541	11853	13041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	2.5
10°-20°	430.5	7.0
20°-30°	646.0	10.5
30°-40°	784.3	12.7
40°-50°	847.1	13.7
50°-60°	829.7	13.4
60°-70°	735.9	11.9
70°-80°	589.5	9.5
80°-90°	427.2	6.9
90°-100°	301.1	4.9
100°-110°	210.0	3.4
110°-120°	130.0	2.1
120°-130°	66.1	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°	1227.9	19.9
0°-40°	2012.2	32.6
0°-60°	3689.0	59.8
0°-90°	5441.7	88.2
90°-120°	641.1	10.4
90°-150°	731.3	11.8
90°-180°	731.0	11.8
0°-180°	6172.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1614	1598	1597	1589	1587	153
15°	1528	1516	1528	1541	1537	430
25°	1366	1369	1406	1429	1444	630
35°	1163	1171	1249	1324	1364	726
45°	932	957	1094	1230	1283	716
55°	688	745	942	1096	1154	616
65°	451	558	774	922	980	450
75°	235	384	596	739	787	251
85°	63	235	430	558	600	68
90°	2	172	357	476	518	5
95°	0	136	311	422	458	0
105°	0	73	224	323	355	0
115°	0	23	141	227	256	0
125°	0	0	69	139	164	0
135°	0	0	12	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°	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5
2.5°	1613.8	1611.9	1606.2	1600.5	1598.5	1598.5	1596.6	1594.7	1594.7	1592.8	1600.5
5°	1613.8	1611.9	1606.2	1598.5	1596.6	1598.5	1596.6	1592.8	1592.8	1590.9	1596.6
7.5°	1598.5	1594.7	1590.9	1585.2	1583.3	1583.3	1581.4	1581.4	1581.4	1581.4	1590.9
10°	1573.7	1571.8	1568.0	1562.3	1562.3	1560.3	1560.3	1562.3	1562.3	1564.2	1573.7
12.5°	1556.5	1552.7	1547.0	1541.2	1539.3	1539.3	1537.4	1535.5	1537.4	1539.3	1554.6
15°	1527.9	1526.0	1522.1	1516.4	1516.4	1516.4	1516.4	1514.5	1514.5	1516.4	1527.9
17.5°	1489.7	1485.9	1484.0	1480.1	1482.0	1484.0	1485.9	1484.0	1487.8	1493.5	1506.9
20°	1455.3	1451.5	1447.7	1441.9	1441.9	1443.8	1445.8	1445.8	1455.3	1462.9	1480.1
22.5°	1417.1	1415.2	1411.4	1409.5	1409.5	1411.4	1411.4	1407.6	1413.3	1424.7	1447.7
25°	1365.5	1363.6	1361.7	1361.7	1365.5	1369.4	1371.3	1373.2	1378.9	1386.5	1405.6
27.5°	1321.6	1319.7	1315.9	1312.1	1315.9	1319.7	1321.6	1325.4	1336.9	1352.2	1367.5
30°	1273.9	1272.0	1270.0	1270.0	1273.9	1275.8	1277.7	1275.8	1291.1	1314.0	1331.2
32.5°	1212.8	1210.8	1212.8	1212.8	1222.3	1228.0	1231.9	1233.8	1247.1	1268.1	1293.0
35°	1163.1	1163.1	1161.2	1165.0	1166.9	1170.7	1174.6	1184.1	1203.2	1224.2	1249.0
37.5°	1103.9	1103.9	1103.9	1113.4	1121.1	1123.0	1124.9	1136.4	1161.2	1182.2	1208.9
40°	1050.4	1050.4	1050.4	1054.2	1060.0	1065.7	1073.3	1086.7	1111.5	1142.1	1168.8
42.5°	985.5	987.4	991.2	1000.8	1008.4	1012.2	1017.9	1039.0	1065.7	1102.0	1130.6
45°	932.0	930.1	933.9	941.6	949.2	956.8	966.4	989.3	1021.8	1061.9	1094.3
47.5°	865.2	867.1	870.9	884.3	893.8	903.4	914.8	941.6	979.8	1019.9	1056.1
50°	807.9	809.8	819.3	827.0	836.5	848.0	861.3	895.7	937.7	977.8	1021.8
52.5°	750.6	752.5	760.1	765.8	781.1	794.5	811.7	849.9	893.8	937.7	981.7
55°	687.5	691.4	697.1	710.5	729.6	744.8	763.9	806.0	849.9	897.6	941.6
57.5°	628.3	630.2	639.8	653.2	676.1	695.2	718.1	762.0	809.8	855.6	899.5
60°	573.0	576.8	582.5	599.7	630.2	649.3	672.3	718.1	767.8	813.6	859.4
62.5°	515.7	519.5	527.1	546.2	582.5	603.5	628.3	676.1	725.7	771.6	817.4
65°	450.7	454.5	466.0	490.8	534.8	557.7	582.5	632.2	679.9	727.7	773.5
67.5°	395.3	397.2	412.5	439.3	485.1	513.7	540.5	588.2	636.0	683.7	729.6
70°	341.9	345.7	357.1	393.4	443.1	466.0	494.7	546.2	594.0	641.7	685.6
72.5°	288.4	292.2	309.4	349.5	401.1	425.9	448.8	504.2	551.9	597.8	641.7
75°	234.9	240.6	263.6	309.4	359.1	383.9	408.7	458.4	509.9	553.9	595.9
77.5°	187.2	192.9	221.5	269.3	318.9	343.8	368.6	416.3	464.1	511.8	555.8
80°	141.3	149.0	183.3	231.1	280.7	305.6	328.5	378.1	424.0	467.9	513.7
82.5°	101.2	110.8	150.9	196.7	246.4	269.3	292.2	340.0	385.8	427.8	467.9
85°	63.0	80.2	120.3	164.2	212.0	234.9	257.8	305.6	349.5	391.5	429.7
87.5°	30.6	53.5	91.7	133.7	179.5	202.4	225.4	271.2	313.2	355.2	393.4
90°	1.9	30.6	64.9	105.0	150.9	171.9	194.8	238.7	280.7	320.9	357.1
92.5°	0.0	19.1	51.6	89.8	131.8	154.7	175.7	219.6	259.7	299.8	334.2
95°	0.0	9.5	40.1	76.4	116.5	135.6	156.6	198.6	238.7	276.9	311.3
97.5°	0.0	1.9	28.6	61.1	99.3	120.3	139.4	179.5	219.6	255.9	288.4
100°	0.0	0.0	19.1	49.7	84.0	103.1	122.2	160.4	198.6	233.0	265.5
102.5°	0.0	0.0	9.5	38.2	70.7	87.9	105.0	143.2	179.5	213.9	244.5
105°	0.0	0.0	1.9	26.7	57.3	72.6	89.8	124.1	160.4	192.9	223.5
107.5°	0.0	0.0	0.0	15.3	43.9	59.2	74.5	107.0	141.3	171.9	200.5
110°	0.0	0.0	0.0	7.6	32.5	45.8	61.1	91.7	122.2	152.8	181.4



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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	34.4	47.7	76.4	105.0	133.7	160.4
115°	0.0	0.0	0.0	0.0	11.5	22.9	34.4	61.1	87.9	116.5	141.3
117.5°	0.0	0.0	0.0	0.0	3.8	13.4	22.9	47.7	72.6	97.4	122.2
120°	0.0	0.0	0.0	0.0	0.0	5.7	13.4	34.4	57.3	80.2	103.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	21.0	42.0	64.9	85.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	28.6	49.7	68.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.2	34.4	51.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	21.0	36.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.5	22.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.5
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°	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5
2.5°	1606.2	1598.5	1598.5	1596.6	1594.7	1592.8	1589.0	1587.1	1583.3	1585.2
5°	1602.4	1594.7	1594.7	1590.9	1589.0	1589.0	1587.1	1587.1	1585.2	1587.1
7.5°	1596.6	1587.1	1587.1	1583.3	1581.4	1579.4	1579.4	1579.4	1579.4	1581.4
10°	1581.4	1575.6	1575.6	1573.7	1571.8	1568.0	1566.1	1568.0	1566.1	1568.0
12.5°	1560.3	1554.6	1558.4	1558.4	1558.4	1554.6	1552.7	1554.6	1552.7	1554.6
15°	1533.6	1531.7	1537.4	1539.3	1541.2	1539.3	1537.4	1537.4	1537.4	1537.4
17.5°	1506.9	1505.0	1512.6	1516.4	1516.4	1516.4	1516.4	1514.5	1514.5	1516.4
20°	1484.0	1476.3	1480.1	1487.8	1489.7	1489.7	1491.6	1493.5	1493.5	1493.5
22.5°	1451.5	1447.7	1449.6	1455.3	1459.1	1461.0	1466.8	1466.8	1468.7	1470.6
25°	1413.3	1419.0	1420.9	1426.7	1428.6	1432.4	1440.0	1443.8	1443.8	1443.8
27.5°	1373.2	1384.6	1392.3	1396.1	1399.9	1403.7	1413.3	1420.9	1420.9	1420.9
30°	1335.0	1346.4	1361.7	1369.4	1373.2	1377.0	1390.4	1399.9	1401.8	1401.8
32.5°	1294.9	1310.2	1333.1	1344.5	1346.4	1352.2	1369.4	1380.8	1382.7	1382.7
35°	1260.5	1279.6	1304.4	1319.7	1323.5	1329.3	1348.4	1361.7	1363.6	1363.6
37.5°	1229.9	1249.0	1275.8	1296.8	1300.6	1308.2	1327.3	1344.5	1346.4	1348.4
40°	1195.6	1218.5	1245.2	1270.0	1277.7	1285.3	1306.3	1323.5	1327.3	1327.3
42.5°	1161.2	1189.8	1216.6	1245.2	1254.8	1262.4	1285.3	1302.5	1306.3	1306.3
45°	1124.9	1161.2	1187.9	1218.5	1229.9	1237.6	1258.6	1277.7	1283.4	1283.4
47.5°	1092.4	1130.6	1157.4	1187.9	1199.4	1210.8	1229.9	1249.0	1254.8	1256.7
50°	1056.1	1098.2	1124.9	1153.5	1168.8	1180.3	1199.4	1220.4	1226.1	1224.2
52.5°	1019.9	1060.0	1088.6	1119.2	1134.4	1145.9	1163.1	1186.0	1191.7	1191.7
55°	981.7	1021.8	1052.3	1081.0	1096.3	1111.5	1128.7	1147.8	1155.5	1153.5
57.5°	943.5	979.8	1012.2	1042.8	1056.1	1071.4	1088.6	1107.7	1113.4	1117.3
60°	903.4	935.8	972.1	1000.8	1014.1	1029.4	1046.6	1063.8	1073.3	1071.4
62.5°	859.4	895.7	930.1	956.8	970.2	985.5	1002.7	1017.9	1025.6	1029.4
65°	815.5	849.9	882.3	911.0	922.5	937.7	956.8	968.3	977.8	979.8
67.5°	769.7	804.0	836.5	867.1	878.5	891.9	909.1	920.5	930.1	932.0
70°	723.8	760.1	792.6	821.2	832.7	844.2	861.3	872.8	882.3	882.3
72.5°	679.9	716.2	746.8	775.4	786.9	796.4	813.6	825.1	832.7	834.6
75°	636.0	670.4	700.9	729.6	739.1	750.6	765.8	777.3	784.9	786.9
77.5°	592.1	628.3	657.0	683.7	693.3	702.8	720.0	729.6	737.2	737.2
80°	550.0	584.4	613.1	637.9	645.5	657.0	672.3	681.8	687.5	691.4
82.5°	509.9	542.4	569.1	592.1	603.5	611.2	626.4	636.0	641.7	645.5
85°	466.0	500.4	527.1	550.0	557.7	569.1	582.5	592.1	597.8	599.7
87.5°	425.9	456.5	483.2	509.9	519.5	527.1	540.5	550.0	555.8	559.6
90°	391.5	420.2	445.0	466.0	475.6	485.1	500.4	509.9	515.7	517.6
92.5°	366.7	395.3	418.3	439.3	448.8	456.5	469.8	479.4	485.1	487.0
95°	343.8	370.5	393.4	414.4	422.1	429.7	443.1	450.7	454.5	458.4
97.5°	318.9	347.6	368.6	387.7	397.2	403.0	416.3	424.0	429.7	431.6
100°	296.0	322.8	343.8	364.8	372.4	378.1	391.5	399.2	403.0	404.9
102.5°	273.1	299.8	320.9	340.0	347.6	353.3	364.8	372.4	378.1	380.1
105°	250.2	275.0	296.0	315.1	322.8	328.5	340.0	347.6	353.3	355.2
107.5°	229.2	252.1	273.1	290.3	297.9	303.7	315.1	322.8	328.5	330.4
110°	208.2	229.2	250.2	267.4	275.0	280.7	292.2	297.9	303.7	305.6



TEST NUMBER: P257059

CATALOG NUMBER: HGL-S-UF-60L840-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	185.3	208.2	227.3	244.5	250.2	257.8	267.4	275.0	278.8	280.7
115°	166.2	187.2	204.4	221.5	227.3	233.0	244.5	250.2	255.9	255.9
117.5°	145.1	164.2	183.3	198.6	204.4	210.1	221.5	227.3	231.1	233.0
120°	126.0	143.2	160.4	175.7	183.3	187.2	198.6	204.4	208.2	210.1
122.5°	107.0	124.1	141.3	154.7	160.4	166.2	175.7	181.4	185.3	187.2
125°	87.9	105.0	120.3	133.7	139.4	145.1	152.8	158.5	162.3	164.2
127.5°	70.7	85.9	101.2	112.7	118.4	124.1	131.8	137.5	141.3	143.2
130°	53.5	66.8	82.1	93.6	99.3	103.1	110.8	116.5	120.3	122.2
132.5°	36.3	49.7	63.0	74.5	80.2	84.0	91.7	95.5	99.3	101.2
135°	22.9	34.4	45.8	55.4	61.1	64.9	72.6	76.4	80.2	80.2
137.5°	11.5	21.0	30.6	38.2	42.0	47.7	53.5	57.3	59.2	61.1
140°	3.8	9.5	17.2	22.9	26.7	30.6	36.3	40.1	42.0	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)