

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: P256866

Luminaire Tested: **HGL-S-BA-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-40L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3877.1 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

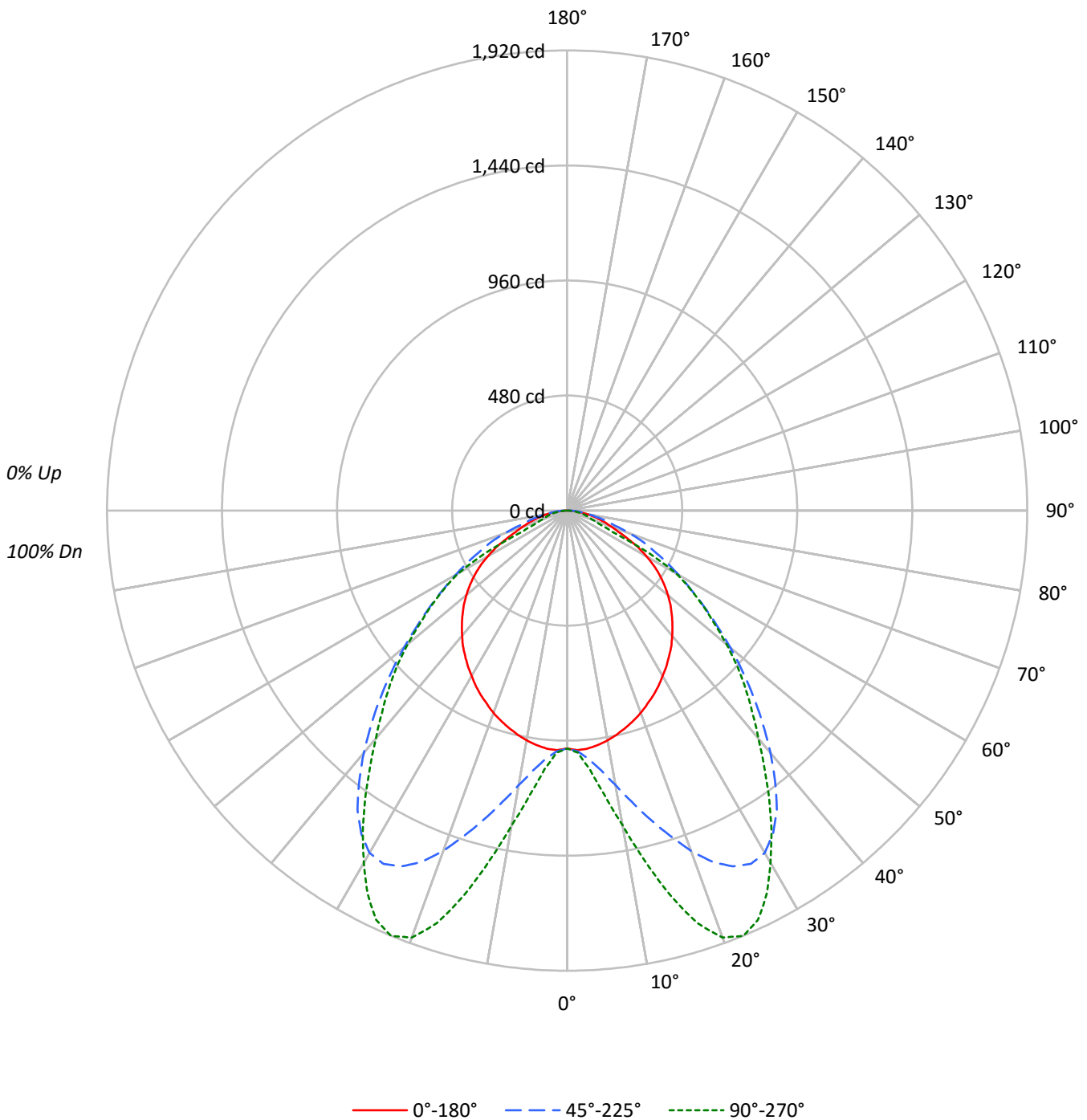
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11656	11656	11656
5°	11745	12227	12728
10°	11600	13789	15792
15°	11405	16046	19964
20°	11214	18650	23320
25°	11007	20904	23932
30°	10787	21948	22443
35°	10616	21378	20442
40°	10432	19701	18369
45°	10239	17691	16763
50°	10001	15615	15068
55°	9627	13618	13318
60°	8970	11957	11478
65°	7769	10359	5132
70°	6680	8731	3547
75°	6113	6775	3207
80°	5481	5501	2808
85°	4519	4779	1915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	2.7
10°-20°	375.3	9.7
20°-30°	679.3	17.5
30°-40°	815.2	21.0
40°-50°	772.3	19.9
50°-60°	605.1	15.6
60°-70°	337.7	8.7
70°-80°	143.1	3.7
80°-90°	44.5	1.1
90°-100°	1.6	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1157.5	29.9
0°-40°	1972.8	50.9
0°-60°	3350.2	86.4
0°-90°	3875.5	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.1
0°-180°	3877.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	997	1001	1040	1075	1084	94
15°	939	1051	1332	1576	1661	265
25°	850	1117	1638	1838	1885	392
35°	742	1143	1525	1461	1470	464
45°	618	1046	1100	1023	1054	477
55°	472	760	696	674	691	420
65°	281	351	399	321	202	281
75°	136	141	168	119	82	145
85°	34	40	49	38	21	38
90°	0	8	15	10	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
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°	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6
2.5°	1000.7	999.7	996.6	992.6	993.6	994.6	994.6	995.6	996.6	999.7	1005.8
5°	996.6	994.6	993.6	992.6	997.6	1000.7	1003.7	1009.8	1016.9	1028.1	1040.3
7.5°	986.5	986.5	988.5	992.6	1003.7	1010.8	1016.9	1032.1	1049.4	1070.7	1094.1
10°	973.3	975.3	981.4	990.5	1010.8	1022.0	1034.2	1059.5	1089.0	1124.5	1163.1
12.5°	957.0	961.1	971.3	988.5	1019.0	1036.2	1054.5	1093.0	1136.7	1187.4	1244.3
15°	938.8	943.8	960.1	985.5	1027.1	1051.4	1076.8	1129.6	1189.5	1257.4	1331.5
17.5°	919.5	926.6	948.9	984.4	1038.2	1068.7	1101.2	1170.2	1247.3	1329.5	1420.8
20°	898.2	908.3	936.7	982.4	1048.4	1085.9	1125.5	1211.8	1306.2	1403.6	1510.2
22.5°	873.8	887.0	922.5	978.4	1058.5	1103.2	1149.9	1250.3	1360.0	1470.6	1586.3
25°	850.5	864.7	906.3	973.3	1066.7	1117.4	1171.2	1285.9	1408.7	1525.4	1638.0
27.5°	825.1	841.3	891.1	968.2	1072.7	1129.6	1189.5	1315.3	1444.2	1559.9	1661.4
30°	796.7	818.0	873.8	960.1	1075.8	1138.7	1203.7	1338.6	1466.5	1568.0	1649.2
32.5°	770.3	793.6	854.5	951.0	1076.8	1143.8	1212.8	1345.7	1466.5	1549.7	1598.5
35°	741.9	767.3	835.3	939.8	1072.7	1142.8	1211.8	1343.7	1445.2	1502.0	1525.4
37.5°	713.5	740.9	815.0	924.6	1063.6	1135.7	1204.7	1323.4	1401.6	1432.0	1425.9
40°	682.0	712.5	788.6	905.3	1047.4	1117.4	1183.4	1287.9	1337.6	1342.7	1320.4
42.5°	650.5	682.0	762.2	879.9	1020.0	1086.9	1147.8	1231.1	1254.4	1243.2	1208.7
45°	618.1	650.5	730.7	849.5	985.5	1046.4	1097.1	1157.0	1157.0	1136.7	1100.1
47.5°	584.6	616.0	697.2	813.9	940.8	993.6	1035.2	1070.7	1054.5	1029.1	992.6
50°	549.1	580.5	659.7	771.3	883.0	926.6	961.1	974.3	948.9	920.5	888.0
52.5°	511.5	543.0	615.0	717.5	815.0	847.4	872.8	871.8	841.3	816.0	787.6
55°	471.9	500.3	565.3	653.6	733.8	760.2	775.4	763.2	734.8	711.4	696.2
57.5°	430.3	453.7	509.5	581.5	641.4	661.7	670.8	654.6	634.3	620.1	612.0
60°	383.6	402.9	442.5	498.3	542.0	556.2	562.2	551.1	544.0	539.9	537.9
62.5°	334.9	344.0	369.4	406.0	442.5	452.6	459.7	461.8	460.8	462.8	467.9
65°	281.1	284.2	292.3	310.6	339.0	351.2	364.3	378.6	386.7	394.8	398.9
67.5°	231.4	232.4	236.5	242.6	253.7	266.9	278.1	299.4	317.7	332.9	343.0
70°	195.9	194.9	195.9	198.9	205.0	210.1	215.2	230.4	249.7	275.0	277.1
72.5°	165.4	164.4	165.4	167.5	169.5	171.5	174.6	180.7	191.8	207.0	210.1
75°	136.0	136.0	136.0	138.0	140.1	141.1	143.1	145.1	149.2	160.4	167.5
77.5°	108.6	107.6	109.6	110.6	111.6	113.7	114.7	116.7	118.7	122.8	127.9
80°	82.2	81.2	82.2	84.2	85.3	87.3	87.3	90.3	91.3	94.4	96.4
82.5°	57.8	56.8	57.8	59.9	59.9	61.9	62.9	65.0	67.0	69.0	71.0
85°	34.5	34.5	35.5	36.5	37.6	39.6	40.6	43.6	45.7	47.7	48.7
87.5°	15.2	15.2	16.2	17.3	19.3	21.3	22.3	24.4	26.4	29.4	29.4
90°	0.0	1.0	3.0	5.1	6.1	8.1	8.1	11.2	12.2	14.2	15.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	3.0	4.1
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	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°	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6	992.6
2.5°	1014.9	1008.8	1012.9	1013.9	1014.9	1012.9	1010.8	1012.9	1010.8	1010.8
5°	1055.5	1054.5	1064.6	1071.7	1074.8	1074.8	1080.9	1084.9	1085.9	1083.9
7.5°	1119.4	1125.5	1145.8	1160.0	1168.1	1172.2	1183.4	1189.5	1197.6	1196.6
10°	1203.7	1222.9	1253.4	1273.7	1287.9	1295.0	1311.2	1322.4	1335.6	1334.6
12.5°	1296.0	1331.5	1374.2	1406.6	1428.0	1441.1	1462.5	1482.8	1494.9	1495.9
15°	1400.5	1449.3	1507.1	1548.7	1576.1	1593.4	1622.8	1643.1	1663.4	1661.4
17.5°	1503.1	1561.9	1631.9	1686.7	1712.1	1728.4	1763.9	1785.2	1804.5	1804.5
20°	1594.4	1662.4	1733.4	1784.2	1808.5	1824.8	1855.2	1876.5	1890.7	1895.8
22.5°	1667.5	1730.4	1790.3	1833.9	1849.1	1862.3	1885.7	1902.9	1912.1	1920.2
25°	1708.1	1758.8	1799.4	1829.8	1838.0	1845.1	1858.3	1871.5	1873.5	1884.7
27.5°	1709.1	1746.6	1769.0	1780.1	1781.1	1781.1	1790.3	1795.3	1799.4	1803.5
30°	1672.5	1689.8	1693.9	1694.9	1689.8	1686.7	1692.8	1693.9	1696.9	1696.9
32.5°	1599.5	1603.5	1596.4	1585.3	1582.2	1576.1	1580.2	1578.2	1583.2	1586.3
35°	1506.1	1499.0	1480.7	1472.6	1461.4	1458.4	1461.4	1459.4	1462.5	1469.6
37.5°	1399.5	1384.3	1369.1	1354.9	1346.8	1338.6	1341.7	1344.7	1348.8	1350.8
40°	1289.9	1269.6	1253.4	1239.2	1231.1	1225.0	1230.0	1233.1	1242.2	1242.2
42.5°	1179.3	1157.0	1140.7	1131.6	1125.5	1120.4	1128.6	1130.6	1141.8	1143.8
45°	1069.7	1050.4	1037.2	1028.1	1023.0	1025.0	1033.2	1038.2	1048.4	1053.5
47.5°	969.2	953.0	938.8	934.7	934.7	936.7	944.9	949.9	958.1	964.1
50°	870.8	858.6	849.5	844.4	845.4	848.4	855.6	859.6	867.7	867.7
52.5°	774.4	766.2	762.2	756.1	756.1	755.1	762.2	766.2	772.3	773.3
55°	690.1	683.0	679.0	674.9	673.9	675.9	680.0	683.0	690.1	691.1
57.5°	609.9	606.9	603.9	600.8	599.8	600.8	602.8	604.9	608.9	609.9
60°	536.9	535.9	531.8	528.8	527.7	526.7	525.7	524.7	526.7	525.7
62.5°	469.9	466.8	463.8	457.7	454.7	446.6	436.4	414.1	395.8	385.7
65°	403.9	401.9	387.7	346.1	320.7	288.2	253.7	220.2	209.1	202.0
67.5°	340.0	306.5	255.8	219.2	206.0	193.8	175.6	157.3	147.2	141.1
70°	244.6	216.2	192.8	172.5	163.4	156.3	142.1	128.9	119.8	115.7
72.5°	197.9	179.6	164.4	149.2	142.1	134.0	119.8	106.6	98.4	94.4
75°	165.4	154.3	139.0	124.8	118.7	112.7	102.5	92.4	85.3	82.2
77.5°	130.9	124.8	115.7	104.5	99.5	95.4	86.3	79.2	72.1	69.0
80°	96.4	94.4	88.3	80.2	76.1	73.1	66.0	59.9	53.8	51.8
82.5°	71.0	69.0	63.9	57.8	55.8	52.8	47.7	42.6	38.6	36.5
85°	48.7	47.7	43.6	39.6	37.6	35.5	30.4	26.4	23.3	21.3
87.5°	30.4	29.4	27.4	23.3	21.3	19.3	15.2	12.2	9.1	8.1
90°	15.2	15.2	14.2	11.2	10.1	9.1	6.1	3.0	1.0	0.0
92.5°	4.1	4.1	4.1	3.0	3.0	2.0	1.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256866

CATALOG NUMBER: HGL-S-BA-40L840-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	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
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)