

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: P256855

Luminaire Tested: **HGL-S-BA-40L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256855
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-40L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

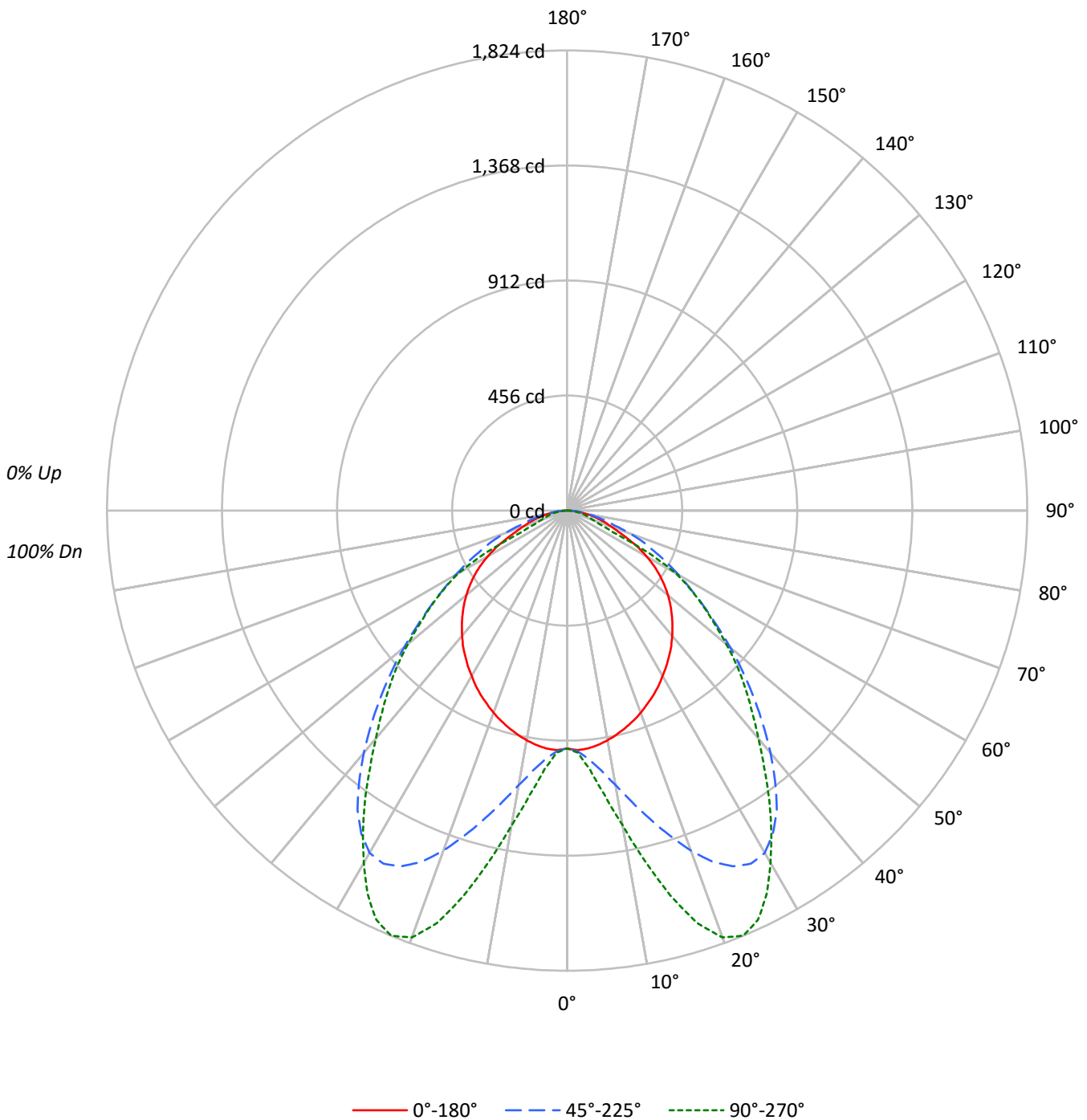
Lumens per Lamp: N/A
Luminaire Lumens: 3682.4 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11070	11070	11070
5°	11155	11613	12089
10°	11017	13095	14998
15°	10832	15241	18960
20°	10651	17713	22149
25°	10454	19855	22729
30°	10245	20846	21316
35°	10083	20305	19414
40°	9908	18711	17446
45°	9724	16804	15920
50°	9498	14831	14310
55°	9143	12934	12650
60°	8521	11357	10902
65°	7379	9837	4873
70°	6342	8290	3369
75°	5808	6431	3047
80°	5207	5227	2667
85°	4296	4544	1816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	2.7
10°-20°	356.5	9.7
20°-30°	645.2	17.5
30°-40°	774.3	21.0
40°-50°	733.5	19.9
50°-60°	574.7	15.6
60°-70°	320.8	8.7
70°-80°	135.9	3.7
80°-90°	42.3	1.1
90°-100°	1.5	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°	1099.4	29.9
0°-40°	1873.7	50.9
0°-60°	3181.9	86.4
0°-90°	3680.9	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	2.0	0.1
0°-180°	3682.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	947	950	988	1021	1030	90
15°	892	999	1265	1497	1578	251
25°	808	1061	1556	1746	1790	372
35°	705	1085	1449	1388	1396	441
45°	587	994	1045	972	1000	453
55°	448	722	661	640	656	399
65°	267	334	379	305	192	267
75°	129	134	159	113	78	137
85°	33	38	46	36	20	36
90°	0	8	14	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°	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7
2.5°	950.4	949.5	946.6	942.7	943.7	944.6	944.6	945.6	946.6	949.5	955.2
5°	946.6	944.6	943.7	942.7	947.5	950.4	953.3	959.1	965.8	976.4	988.0
7.5°	936.9	936.9	938.9	942.7	953.3	960.1	965.8	980.3	996.7	1016.9	1039.1
10°	924.4	926.3	932.1	940.8	960.1	970.7	982.2	1006.3	1034.3	1068.0	1104.6
12.5°	909.0	912.8	922.5	938.9	967.8	984.2	1001.5	1038.1	1079.6	1127.8	1181.8
15°	891.6	896.4	911.9	936.0	975.5	998.6	1022.7	1072.8	1129.7	1194.3	1264.7
17.5°	873.3	880.1	901.3	935.0	986.1	1015.0	1045.8	1111.4	1184.6	1262.7	1349.5
20°	853.1	862.7	889.7	933.1	995.7	1031.4	1069.0	1150.9	1240.6	1333.1	1434.3
22.5°	829.9	842.5	876.2	929.2	1005.4	1047.8	1092.1	1187.5	1291.6	1396.7	1506.6
25°	807.8	821.3	860.8	924.4	1013.1	1061.3	1112.4	1221.3	1337.9	1448.8	1555.8
27.5°	783.7	799.1	846.3	919.6	1018.9	1072.8	1129.7	1249.2	1371.6	1481.5	1577.9
30°	756.7	776.9	829.9	911.9	1021.7	1081.5	1143.2	1271.4	1392.9	1489.2	1566.4
32.5°	731.6	753.8	811.6	903.2	1022.7	1086.3	1151.9	1278.1	1392.9	1471.9	1518.2
35°	704.6	728.7	793.3	892.6	1018.9	1085.4	1150.9	1276.2	1372.6	1426.6	1448.8
37.5°	677.6	703.7	774.0	878.1	1010.2	1078.6	1144.2	1256.9	1331.2	1360.1	1354.3
40°	647.7	676.7	749.0	859.8	994.8	1061.3	1123.9	1223.2	1270.4	1275.3	1254.1
42.5°	617.9	647.7	723.9	835.7	968.7	1032.4	1090.2	1169.2	1191.4	1180.8	1148.0
45°	587.0	617.9	694.0	806.8	936.0	993.8	1042.0	1098.9	1098.9	1079.6	1044.9
47.5°	555.2	585.1	662.2	773.1	893.5	943.7	983.2	1016.9	1001.5	977.4	942.7
50°	521.5	551.4	626.5	732.6	838.6	880.1	912.8	925.4	901.3	874.3	843.4
52.5°	485.8	515.7	584.1	681.5	774.0	804.9	829.0	828.0	799.1	775.0	748.0
55°	448.2	475.2	536.9	620.8	696.9	722.0	736.4	724.9	697.9	675.7	661.2
57.5°	408.7	430.9	483.9	552.3	609.2	628.5	637.1	621.7	602.4	589.0	581.2
60°	364.4	382.7	420.3	473.3	514.7	528.2	534.0	523.4	516.7	512.8	510.9
62.5°	318.1	326.8	350.9	385.6	420.3	429.9	436.7	438.6	437.6	439.5	444.4
65°	267.0	269.9	277.6	295.0	321.9	333.5	346.0	359.5	367.3	375.0	378.8
67.5°	219.8	220.7	224.6	230.4	241.0	253.5	264.1	284.4	301.7	316.2	325.8
70°	186.0	185.1	186.0	188.9	194.7	199.5	204.3	218.8	237.1	261.2	263.1
72.5°	157.1	156.2	157.1	159.0	161.0	162.9	165.8	171.6	182.2	196.6	199.5
75°	129.2	129.2	129.2	131.1	133.0	134.0	135.9	137.8	141.7	152.3	159.0
77.5°	103.1	102.2	104.1	105.1	106.0	108.0	108.9	110.9	112.8	116.6	121.5
80°	78.1	77.1	78.1	80.0	81.0	82.9	82.9	85.8	86.8	89.6	91.6
82.5°	54.9	54.0	54.9	56.9	56.9	58.8	59.8	61.7	63.6	65.5	67.5
85°	32.8	32.8	33.7	34.7	35.7	37.6	38.6	41.4	43.4	45.3	46.3
87.5°	14.5	14.5	15.4	16.4	18.3	20.2	21.2	23.1	25.1	28.0	28.0
90°	0.0	1.0	2.9	4.8	5.8	7.7	7.7	10.6	11.6	13.5	14.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9	3.9
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°	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7	942.7
2.5°	963.9	958.1	962.0	962.9	963.9	962.0	960.1	962.0	960.1	960.1
5°	1002.5	1001.5	1011.1	1017.9	1020.8	1020.8	1026.6	1030.4	1031.4	1029.5
7.5°	1063.2	1069.0	1088.3	1101.8	1109.5	1113.3	1123.9	1129.7	1137.4	1136.5
10°	1143.2	1161.5	1190.4	1209.7	1223.2	1230.0	1245.4	1256.0	1268.5	1267.5
12.5°	1230.9	1264.7	1305.1	1336.0	1356.2	1368.8	1389.0	1408.3	1419.8	1420.8
15°	1330.2	1376.5	1431.4	1470.9	1497.0	1513.3	1541.3	1560.6	1579.9	1577.9
17.5°	1427.6	1483.5	1550.0	1602.0	1626.1	1641.5	1675.3	1695.5	1713.8	1713.8
20°	1514.3	1578.9	1646.4	1694.6	1717.7	1733.1	1762.0	1782.3	1795.8	1800.6
22.5°	1583.7	1643.5	1700.3	1741.8	1756.3	1768.8	1791.0	1807.3	1816.0	1823.7
25°	1622.3	1670.5	1709.0	1737.9	1745.6	1752.4	1764.9	1777.5	1779.4	1790.0
27.5°	1623.2	1658.9	1680.1	1690.7	1691.7	1691.7	1700.3	1705.2	1709.0	1712.9
30°	1588.5	1604.9	1608.8	1609.7	1604.9	1602.0	1607.8	1608.8	1611.7	1611.7
32.5°	1519.1	1523.0	1516.2	1505.6	1502.7	1497.0	1500.8	1498.9	1503.7	1506.6
35°	1430.4	1423.7	1406.3	1398.6	1388.0	1385.1	1388.0	1386.1	1389.0	1395.7
37.5°	1329.2	1314.8	1300.3	1286.8	1279.1	1271.4	1274.3	1277.2	1281.0	1283.0
40°	1225.1	1205.9	1190.4	1176.9	1169.2	1163.4	1168.3	1171.2	1179.8	1179.8
42.5°	1120.1	1098.9	1083.4	1074.8	1069.0	1064.2	1071.9	1073.8	1084.4	1086.3
45°	1016.0	997.7	985.1	976.4	971.6	973.6	981.3	986.1	995.7	1000.5
47.5°	920.5	905.1	891.6	887.8	887.8	889.7	897.4	902.2	909.9	915.7
50°	827.0	815.5	806.8	802.0	802.9	805.8	812.6	816.4	824.1	824.1
52.5°	735.5	727.8	723.9	718.1	718.1	717.2	723.9	727.8	733.5	734.5
55°	655.5	648.7	644.9	641.0	640.0	642.0	645.8	648.7	655.5	656.4
57.5°	579.3	576.4	573.5	570.6	569.7	570.6	572.6	574.5	578.3	579.3
60°	509.9	508.9	505.1	502.2	501.2	500.3	499.3	498.3	500.3	499.3
62.5°	446.3	443.4	440.5	434.7	431.8	424.1	414.5	393.3	375.9	366.3
65°	383.6	381.7	368.2	328.7	304.6	273.8	241.0	209.2	198.6	191.8
67.5°	322.9	291.1	242.9	208.2	195.7	184.1	166.8	149.4	139.8	134.0
70°	232.3	205.3	183.1	163.9	155.2	148.4	134.9	122.4	113.7	109.9
72.5°	188.0	170.6	156.2	141.7	134.9	127.2	113.7	101.2	93.5	89.6
75°	157.1	146.5	132.1	118.6	112.8	107.0	97.4	87.7	81.0	78.1
77.5°	124.3	118.6	109.9	99.3	94.5	90.6	81.9	75.2	68.4	65.5
80°	91.6	89.6	83.9	76.1	72.3	69.4	62.7	56.9	51.1	49.2
82.5°	67.5	65.5	60.7	54.9	53.0	50.1	45.3	40.5	36.6	34.7
85°	46.3	45.3	41.4	37.6	35.7	33.7	28.9	25.1	22.2	20.2
87.5°	28.9	28.0	26.0	22.2	20.2	18.3	14.5	11.6	8.7	7.7
90°	14.5	14.5	13.5	10.6	9.6	8.7	5.8	2.9	1.0	0.0
92.5°	3.9	3.9	3.9	2.9	2.9	1.9	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: P256855

CATALOG NUMBER: HGL-S-BA-40L830-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)