

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: P256878

Luminaire Tested: **HGL-S-BA-40L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256878
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-40L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2926.4 lumens
Efficiency: N/A
Efficacy: 98.5 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

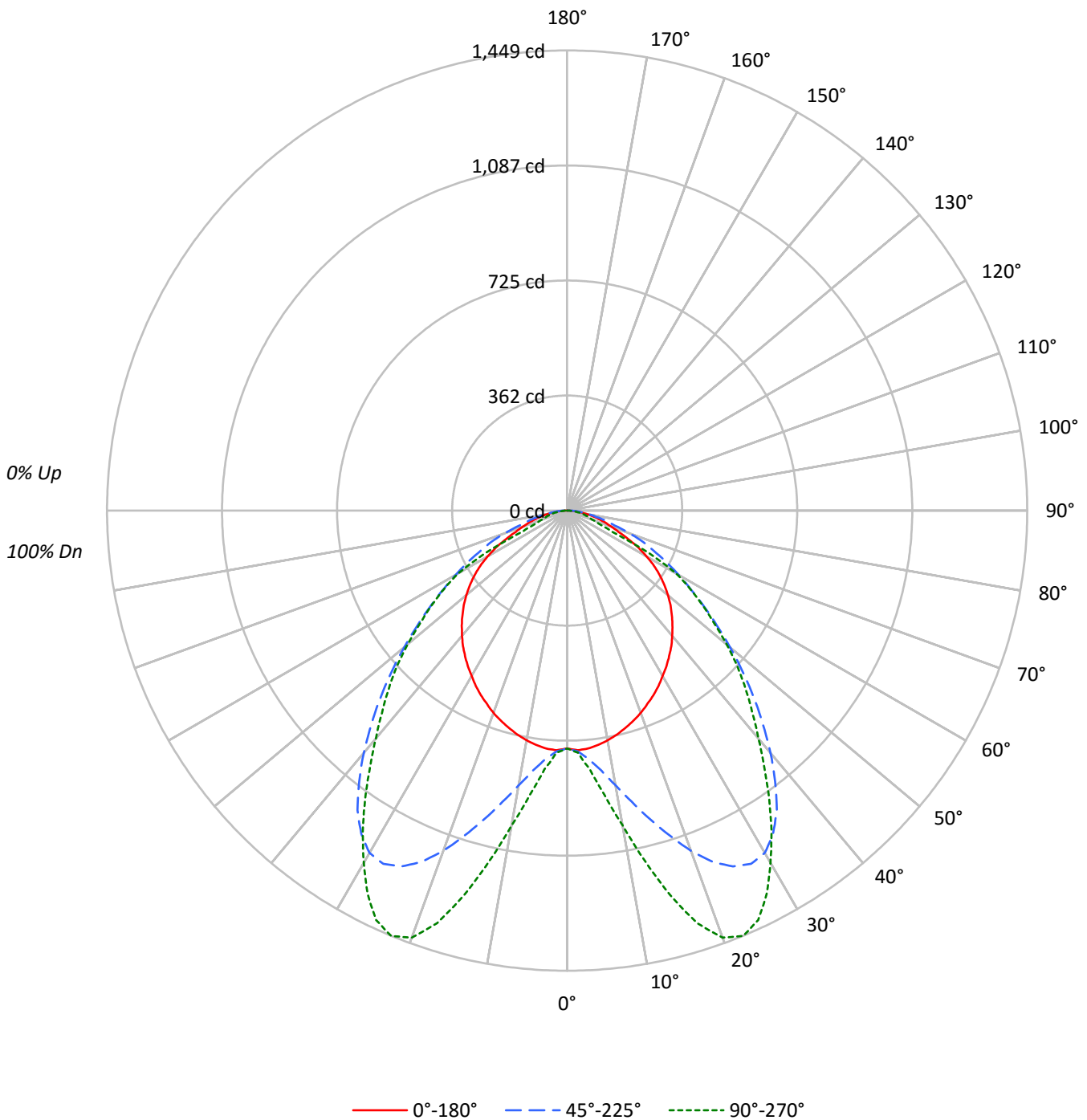
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256878

CATALOG NUMBER: HGL-S-BA-40L940-UNV-4

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8797	8797	8797
5°	8864	9229	9607
10°	8755	10408	11919
15°	8608	12112	15068
20°	8463	14076	17601
25°	8307	15779	18063
30°	8141	16566	16940
35°	8013	16135	15429
40°	7875	14870	13865
45°	7728	13354	12652
50°	7548	11787	11372
55°	7266	10279	10054
60°	6772	9025	8664
65°	5865	7816	3872
70°	5040	6588	2676
75°	4612	5112	2419
80°	4134	4154	2119
85°	3406	3611	1447



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CATALOG NUMBER: HGL-S-BA-40L940-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	2.7
10°-20°	283.3	9.7
20°-30°	512.7	17.5
30°-40°	615.3	21.0
40°-50°	582.9	19.9
50°-60°	456.7	15.6
60°-70°	254.9	8.7
70°-80°	108.0	3.7
80°-90°	33.6	1.1
90°-100°	1.2	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°	873.7	29.9
0°-40°	1489.0	50.9
0°-60°	2528.6	86.4
0°-90°	2925.2	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	2926.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	752	755	785	811	818	71
15°	709	794	1005	1190	1254	200
25°	642	843	1236	1387	1422	296
35°	560	862	1151	1103	1109	350
45°	466	790	830	772	795	360
55°	356	574	526	509	522	317
65°	212	265	301	242	152	212
75°	103	106	126	90	62	109
85°	26	30	37	28	16	29
90°	0	6	12	8	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



TEST NUMBER: P256878

CATALOG NUMBER: HGL-S-BA-40L940-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2
2.5°	755.3	754.5	752.2	749.2	749.9	750.7	750.7	751.5	752.2	754.5	759.1
5°	752.2	750.7	749.9	749.2	753.0	755.3	757.6	762.2	767.6	776.0	785.2
7.5°	744.6	744.6	746.1	749.2	757.6	763.0	767.6	779.0	792.1	808.1	825.8
10°	734.6	736.1	740.7	747.6	763.0	771.4	780.6	799.7	821.9	848.7	877.9
12.5°	722.4	725.4	733.1	746.1	769.1	782.1	795.9	825.0	857.9	896.2	939.1
15°	708.6	712.4	724.7	743.8	775.2	793.6	812.7	852.6	897.8	949.1	1005.0
17.5°	694.0	699.4	716.2	743.0	783.6	806.6	831.1	883.2	941.4	1003.5	1072.4
20°	677.9	685.6	707.0	741.5	791.3	819.6	849.5	914.6	985.9	1059.4	1139.8
22.5°	659.5	669.5	696.3	738.4	799.0	832.7	867.9	943.7	1026.5	1110.0	1197.3
25°	641.9	652.6	684.1	734.6	805.1	843.4	884.0	970.5	1063.2	1151.3	1236.4
27.5°	622.8	635.0	672.6	730.8	809.7	852.6	897.8	992.8	1090.0	1177.4	1254.0
30°	601.3	617.4	659.5	724.7	812.0	859.5	908.5	1010.4	1106.9	1183.5	1244.8
32.5°	581.4	599.0	645.0	717.8	812.7	863.3	915.4	1015.7	1106.9	1169.7	1206.5
35°	560.0	579.1	630.4	709.3	809.7	862.5	914.6	1014.2	1090.8	1133.7	1151.3
37.5°	538.5	559.2	615.1	697.8	802.8	857.2	909.3	998.9	1057.9	1080.9	1076.3
40°	514.8	537.7	595.2	683.3	790.5	843.4	893.2	972.1	1009.6	1013.4	996.6
42.5°	491.0	514.8	575.3	664.1	769.8	820.4	866.4	929.2	946.8	938.4	912.3
45°	466.5	491.0	551.5	641.2	743.8	789.8	828.1	873.3	873.3	857.9	830.4
47.5°	441.2	465.0	526.3	614.3	710.1	749.9	781.3	808.1	795.9	776.7	749.2
50°	414.4	438.2	497.9	582.2	666.4	699.4	725.4	735.4	716.2	694.8	670.3
52.5°	386.1	409.8	464.2	541.6	615.1	639.6	658.8	658.0	635.0	615.9	594.4
55°	356.2	377.6	426.7	493.3	553.8	573.7	585.2	576.0	554.6	537.0	525.5
57.5°	324.8	342.4	384.5	438.9	484.1	499.4	506.3	494.1	478.8	468.0	461.9
60°	289.6	304.1	334.0	376.1	409.1	419.8	424.4	415.9	410.6	407.5	406.0
62.5°	252.8	259.7	278.8	306.4	334.0	341.6	347.0	348.5	347.8	349.3	353.1
65°	212.2	214.5	220.6	234.4	255.9	265.0	275.0	285.7	291.9	298.0	301.0
67.5°	174.7	175.4	178.5	183.1	191.5	201.5	209.9	226.0	239.8	251.3	258.9
70°	147.8	147.1	147.8	150.1	154.7	158.6	162.4	173.9	188.4	207.6	209.1
72.5°	124.9	124.1	124.9	126.4	127.9	129.5	131.8	136.4	144.8	156.3	158.6
75°	102.6	102.6	102.6	104.2	105.7	106.5	108.0	109.5	112.6	121.0	126.4
77.5°	82.0	81.2	82.7	83.5	84.3	85.8	86.6	88.1	89.6	92.7	96.5
80°	62.0	61.3	62.0	63.6	64.3	65.9	65.9	68.2	68.9	71.2	72.8
82.5°	43.7	42.9	43.7	45.2	45.2	46.7	47.5	49.0	50.6	52.1	53.6
85°	26.0	26.0	26.8	27.6	28.3	29.9	30.6	32.9	34.5	36.0	36.8
87.5°	11.5	11.5	12.3	13.0	14.6	16.1	16.9	18.4	19.9	22.2	22.2
90°	0.0	0.8	2.3	3.8	4.6	6.1	6.1	8.4	9.2	10.7	11.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	2.3	3.1
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



TEST NUMBER: P256878

CATALOG NUMBER: HGL-S-BA-40L940-UNV-4

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



TEST NUMBER: P256878

CATALOG NUMBER: HGL-S-BA-40L940-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2	749.2
2.5°	766.0	761.4	764.5	765.3	766.0	764.5	763.0	764.5	763.0	763.0
5°	796.7	795.9	803.6	808.9	811.2	811.2	815.8	818.9	819.6	818.1
7.5°	844.9	849.5	864.8	875.6	881.7	884.8	893.2	897.8	903.9	903.1
10°	908.5	923.1	946.0	961.4	972.1	977.4	989.7	998.1	1008.1	1007.3
12.5°	978.2	1005.0	1037.2	1061.7	1077.8	1087.7	1103.8	1119.2	1128.3	1129.1
15°	1057.1	1093.9	1137.5	1168.9	1189.6	1202.6	1224.9	1240.2	1255.5	1254.0
17.5°	1134.5	1178.9	1231.8	1273.1	1292.3	1304.5	1331.3	1347.4	1362.0	1362.0
20°	1203.4	1254.7	1308.4	1346.7	1365.0	1377.3	1400.3	1416.4	1427.1	1430.9
22.5°	1258.6	1306.1	1351.3	1384.2	1395.7	1405.6	1423.3	1436.3	1443.2	1449.3
25°	1289.2	1327.5	1358.2	1381.1	1387.3	1392.6	1402.6	1412.5	1414.1	1422.5
27.5°	1290.0	1318.3	1335.2	1343.6	1344.4	1344.4	1351.3	1355.1	1358.2	1361.2
30°	1262.4	1275.4	1278.5	1279.3	1275.4	1273.1	1277.7	1278.5	1280.8	1280.8
32.5°	1207.2	1210.3	1204.9	1196.5	1194.2	1189.6	1192.7	1191.2	1195.0	1197.3
35°	1136.8	1131.4	1117.6	1111.5	1103.1	1100.8	1103.1	1101.5	1103.8	1109.2
37.5°	1056.3	1044.8	1033.4	1022.6	1016.5	1010.4	1012.7	1015.0	1018.0	1019.6
40°	973.6	958.3	946.0	935.3	929.2	924.6	928.4	930.7	937.6	937.6
42.5°	890.1	873.3	861.0	854.1	849.5	845.7	851.8	853.3	861.8	863.3
45°	807.4	792.8	782.9	776.0	772.1	773.7	779.8	783.6	791.3	795.1
47.5°	731.5	719.3	708.6	705.5	705.5	707.0	713.2	717.0	723.1	727.7
50°	657.2	648.1	641.2	637.3	638.1	640.4	645.8	648.8	654.9	654.9
52.5°	584.5	578.3	575.3	570.7	570.7	569.9	575.3	578.3	582.9	583.7
55°	520.9	515.5	512.5	509.4	508.6	510.2	513.2	515.5	520.9	521.7
57.5°	460.4	458.1	455.8	453.5	452.7	453.5	455.0	456.5	459.6	460.4
60°	405.2	404.5	401.4	399.1	398.3	397.6	396.8	396.0	397.6	396.8
62.5°	354.7	352.4	350.1	345.5	343.2	337.0	329.4	312.5	298.7	291.1
65°	304.9	303.3	292.6	261.2	242.1	217.5	191.5	166.2	157.8	152.4
67.5°	256.6	231.3	193.0	165.5	155.5	146.3	132.5	118.7	111.1	106.5
70°	184.6	163.2	145.5	130.2	123.3	118.0	107.2	97.3	90.4	87.3
72.5°	149.4	135.6	124.1	112.6	107.2	101.1	90.4	80.4	74.3	71.2
75°	124.9	116.4	104.9	94.2	89.6	85.0	77.4	69.7	64.3	62.0
77.5°	98.8	94.2	87.3	78.9	75.1	72.0	65.1	59.7	54.4	52.1
80°	72.8	71.2	66.6	60.5	57.5	55.2	49.8	45.2	40.6	39.1
82.5°	53.6	52.1	48.3	43.7	42.1	39.8	36.0	32.2	29.1	27.6
85°	36.8	36.0	32.9	29.9	28.3	26.8	23.0	19.9	17.6	16.1
87.5°	23.0	22.2	20.7	17.6	16.1	14.6	11.5	9.2	6.9	6.1
90°	11.5	11.5	10.7	8.4	7.7	6.9	4.6	2.3	0.8	0.0
92.5°	3.1	3.1	3.1	2.3	2.3	1.5	0.8	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: P256878

CATALOG NUMBER: HGL-S-BA-40L940-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)