

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: P256917

Luminaire Tested: **HGL-S-BA-80L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256917
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-80L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

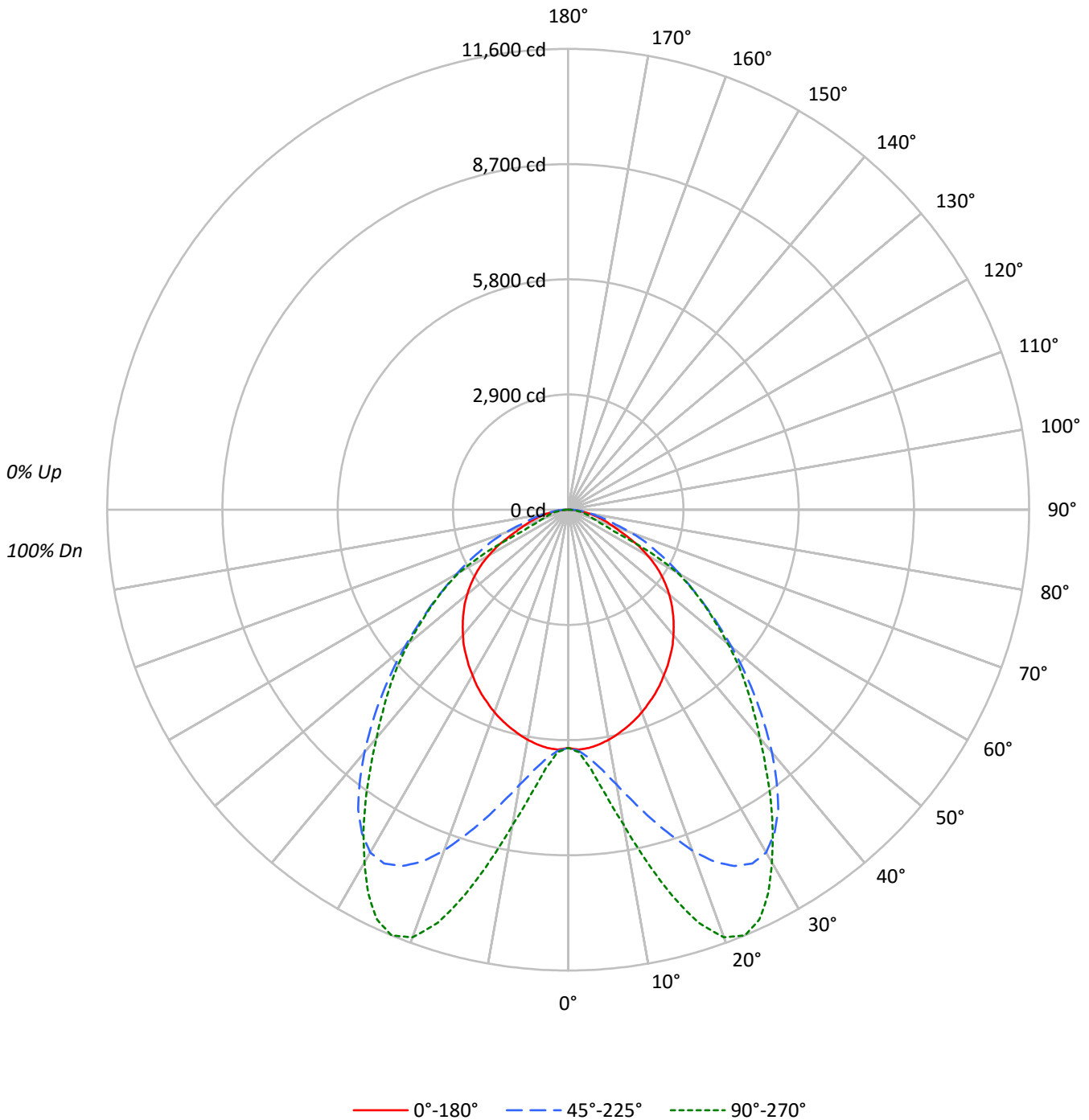
Lumens per Lamp: N/A
Luminaire Lumens: 23422.7 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 212
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	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°	23470	23470	23470
5°	23655	24625	25630
10°	23366	27773	31800
15°	22977	32324	40201
20°	22595	37571	46960
25°	22181	42120	48191
30°	21743	44227	45194
35°	21403	43084	41164
40°	21038	39710	36991
45°	20652	35668	33756
50°	20178	31488	30344
55°	19432	27469	26821
60°	18117	24124	23116
65°	15701	20907	10333
70°	13511	17632	7143
75°	12387	13692	6458
80°	11141	11143	5650
85°	9275	9723	3859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	2.7
10°-20°	2267.4	9.7
20°-30°	4103.9	17.5
30°-40°	4925.1	21.0
40°-50°	4665.6	19.9
50°-60°	3655.7	15.6
60°-70°	2040.3	8.7
70°-80°	864.6	3.7
80°-90°	269.0	1.1
90°-100°	9.7	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°	6992.8	29.9
0°-40°	11917.9	50.9
0°-60°	20239.2	86.4
0°-90°	23413.1	100.0
90°-120°	9.7	0.0
90°-150°	9.7	0.0
90°-180°	10.0	0.0
0°-180°	23422.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5996	5996	5996	5996	5996	
5°	6021	6045	6284	6493	6548	570
15°	5671	6352	8044	9522	10037	1599
25°	5138	6750	9896	11104	11386	2366
35°	4482	6904	9215	8829	8878	2805
45°	3734	6321	6646	6180	6364	2879
55°	2851	4592	4206	4071	4175	2539
65°	1698	2121	2410	1938	1220	1697
75°	822	852	1012	717	497	875
85°	208	239	294	227	129	232
90°	0	49	92	61	0	13
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°	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3
2.5°	6045.4	6039.2	6020.8	5996.3	6002.4	6008.6	6008.6	6014.7	6020.8	6039.2	6076.0
5°	6020.8	6008.6	6002.4	5996.3	6027.0	6045.4	6063.8	6100.5	6143.5	6210.9	6284.5
7.5°	5959.5	5959.5	5971.8	5996.3	6063.8	6106.7	6143.5	6235.4	6339.7	6468.4	6609.4
10°	5879.8	5892.1	5928.9	5984.0	6106.7	6174.1	6247.7	6401.0	6578.8	6793.4	7026.4
12.5°	5781.7	5806.2	5867.6	5971.8	6155.7	6260.0	6370.3	6603.3	6866.9	7173.5	7516.8
15°	5671.4	5702.0	5800.1	5953.4	6204.8	6351.9	6505.2	6824.0	7185.8	7596.6	8044.1
17.5°	5554.9	5597.8	5732.7	5947.3	6272.2	6456.2	6652.4	7069.3	7535.2	8031.9	8583.7
20°	5426.1	5487.4	5659.1	5935.0	6333.5	6560.4	6799.5	7320.7	7890.9	8479.4	9123.2
22.5°	5279.0	5358.7	5573.3	5910.5	6394.8	6664.6	6946.6	7553.6	8215.8	8884.1	9583.1
25°	5137.9	5223.8	5475.2	5879.8	6443.9	6750.4	7075.4	7768.2	8510.1	9215.2	9895.8
27.5°	4984.7	5082.8	5383.2	5849.2	6480.7	6824.0	7185.8	7946.0	8724.7	9423.7	10036.8
30°	4813.0	4941.7	5279.0	5800.1	6499.1	6879.2	7271.6	8087.1	8859.6	9472.7	9963.2
32.5°	4653.6	4794.6	5162.5	5744.9	6505.2	6909.9	7326.8	8130.0	8859.6	9362.3	9656.6
35°	4481.9	4635.2	5046.0	5677.5	6480.7	6903.7	7320.7	8117.7	8730.8	9074.2	9215.2
37.5°	4310.2	4475.8	4923.4	5585.5	6425.5	6860.8	7277.7	7995.1	8467.2	8651.1	8614.3
40°	4120.2	4304.1	4763.9	5469.0	6327.4	6750.4	7149.0	7780.5	8080.9	8111.6	7976.7
42.5°	3930.1	4120.2	4604.5	5315.7	6161.9	6566.5	6934.4	7437.1	7578.2	7510.7	7302.3
45°	3733.9	3930.1	4414.5	5131.8	5953.4	6321.3	6627.8	6989.6	6989.6	6866.9	6646.2
47.5°	3531.6	3721.6	4212.1	4917.2	5683.6	6002.4	6253.8	6468.4	6370.3	6217.0	5996.3
50°	3317.0	3507.0	3985.3	4659.7	5334.1	5597.8	5806.2	5886.0	5732.7	5561.0	5364.8
52.5°	3090.1	3280.2	3715.5	4334.8	4923.4	5119.6	5272.8	5266.7	5082.8	4929.5	4757.8
55°	2851.0	3022.7	3415.1	3948.5	4432.9	4592.3	4684.2	4610.7	4439.0	4298.0	4206.0
57.5°	2599.6	2740.6	3077.9	3513.2	3874.9	3997.5	4052.7	3954.6	3832.0	3746.2	3697.1
60°	2317.6	2434.1	2673.2	3010.4	3274.1	3359.9	3396.7	3329.2	3286.3	3261.8	3249.5
62.5°	2023.3	2078.5	2231.8	2452.5	2673.2	2734.5	2777.4	2789.7	2783.6	2795.8	2826.5
65°	1698.3	1716.7	1765.8	1876.1	2047.8	2121.4	2201.1	2286.9	2336.0	2385.0	2409.6
67.5°	1397.9	1404.0	1428.6	1465.4	1532.8	1612.5	1679.9	1808.7	1919.1	2011.0	2072.3
70°	1183.3	1177.2	1183.3	1201.7	1238.5	1269.2	1299.8	1391.8	1508.3	1661.6	1673.8
72.5°	999.4	993.3	999.4	1011.6	1023.9	1036.2	1054.6	1091.4	1158.8	1250.8	1269.2
75°	821.6	821.6	821.6	833.8	846.1	852.2	864.5	876.8	901.3	968.7	1011.6
77.5°	656.0	649.9	662.2	668.3	674.4	686.7	692.8	705.1	717.4	741.9	772.5
80°	496.6	490.5	496.6	508.9	515.0	527.3	527.3	545.7	551.8	570.2	582.5
82.5°	349.5	343.3	349.5	361.7	361.7	374.0	380.1	392.4	404.7	416.9	429.2
85°	208.5	208.5	214.6	220.7	226.9	239.1	245.2	263.6	275.9	288.2	294.3
87.5°	92.0	92.0	98.1	104.2	116.5	128.8	134.9	147.1	159.4	177.8	177.8
90°	0.0	6.1	18.4	30.7	36.8	49.0	49.0	67.4	73.6	85.8	92.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	12.3	18.4	24.5
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°	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3	5996.3
2.5°	6131.2	6094.4	6118.9	6125.1	6131.2	6118.9	6106.7	6118.9	6106.7	6106.7
5°	6376.4	6370.3	6431.6	6474.5	6492.9	6492.9	6529.7	6554.3	6560.4	6548.1
7.5°	6762.7	6799.5	6922.1	7008.0	7057.0	7081.5	7149.0	7185.8	7234.8	7228.7
10°	7271.6	7388.1	7572.0	7694.7	7780.5	7823.4	7921.5	7989.0	8068.7	8062.5
12.5°	7829.5	8044.1	8301.6	8497.8	8626.6	8706.3	8835.1	8957.7	9031.3	9037.4
15°	8461.1	8755.4	9104.8	9356.2	9521.8	9626.0	9803.8	9926.4	10049.0	10036.8
17.5°	9080.3	9435.9	9859.0	10190.1	10343.3	10441.4	10656.0	10784.8	10901.3	10901.3
20°	9632.1	10042.9	10472.1	10778.6	10925.8	11023.9	11207.8	11336.6	11422.4	11453.1
22.5°	10073.6	10453.7	10815.4	11079.1	11171.0	11250.7	11391.8	11496.0	11551.2	11600.2
25°	10318.8	10625.4	10870.6	11054.6	11103.6	11146.5	11226.2	11305.9	11318.2	11385.6
27.5°	10324.9	10551.8	10686.7	10754.1	10760.3	10760.3	10815.4	10846.1	10870.6	10895.1
30°	10104.2	10208.4	10233.0	10239.1	10208.4	10190.1	10226.8	10233.0	10251.4	10251.4
32.5°	9662.8	9687.3	9644.4	9576.9	9558.5	9521.8	9546.3	9534.0	9564.7	9583.1
35°	9098.7	9055.8	8945.4	8896.4	8828.9	8810.5	8828.9	8816.7	8835.1	8878.0
37.5°	8454.9	8363.0	8271.0	8185.2	8136.1	8087.1	8105.4	8123.8	8148.4	8160.6
40°	7792.8	7670.1	7572.0	7486.2	7437.1	7400.4	7431.0	7449.4	7504.6	7504.6
42.5°	7124.5	6989.6	6891.5	6836.3	6799.5	6768.8	6817.9	6830.2	6897.6	6909.9
45°	6462.3	6345.8	6266.1	6210.9	6180.2	6192.5	6241.6	6272.2	6333.5	6364.2
47.5°	5855.3	5757.2	5671.4	5646.8	5646.8	5659.1	5708.1	5738.8	5787.9	5824.6
50°	5260.6	5187.0	5131.8	5101.2	5107.3	5125.7	5168.6	5193.1	5242.2	5242.2
52.5°	4678.1	4629.1	4604.5	4567.7	4567.7	4561.6	4604.5	4629.1	4665.8	4672.0
55°	4169.2	4126.3	4101.8	4077.2	4071.1	4083.4	4107.9	4126.3	4169.2	4175.3
57.5°	3684.9	3666.5	3648.1	3629.7	3623.5	3629.7	3641.9	3654.2	3678.7	3684.9
60°	3243.4	3237.3	3212.7	3194.4	3188.2	3182.1	3176.0	3169.8	3182.1	3176.0
62.5°	2838.7	2820.4	2802.0	2765.2	2746.8	2697.7	2636.4	2501.5	2391.2	2329.9
65°	2440.2	2428.0	2342.1	2090.7	1937.5	1741.3	1532.8	1330.5	1263.0	1220.1
67.5°	2054.0	1851.6	1545.1	1324.3	1244.6	1171.1	1060.7	950.3	889.0	852.2
70°	1477.6	1305.9	1164.9	1042.3	987.1	944.2	858.4	778.7	723.5	699.0
72.5°	1195.6	1085.2	993.3	901.3	858.4	809.3	723.5	643.8	594.7	570.2
75°	999.4	931.9	840.0	754.1	717.4	680.6	619.3	557.9	515.0	496.6
77.5°	790.9	754.1	699.0	631.5	600.9	576.3	521.2	478.2	435.3	416.9
80°	582.5	570.2	533.4	484.4	459.8	441.4	398.5	361.7	325.0	312.7
82.5°	429.2	416.9	386.3	349.5	337.2	318.8	288.2	257.5	233.0	220.7
85°	294.3	288.2	263.6	239.1	226.9	214.6	183.9	159.4	141.0	128.8
87.5°	183.9	177.8	165.5	141.0	128.8	116.5	92.0	73.6	55.2	49.0
90°	92.0	92.0	85.8	67.4	61.3	55.2	36.8	18.4	6.1	0.0
92.5°	24.5	24.5	24.5	18.4	18.4	12.3	6.1	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: P256917

CATALOG NUMBER: HGL-S-BA-80L835-UNV-12

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)