

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: P256916

Luminaire Tested: **HGL-S-BA-60L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256916
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-60L835-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

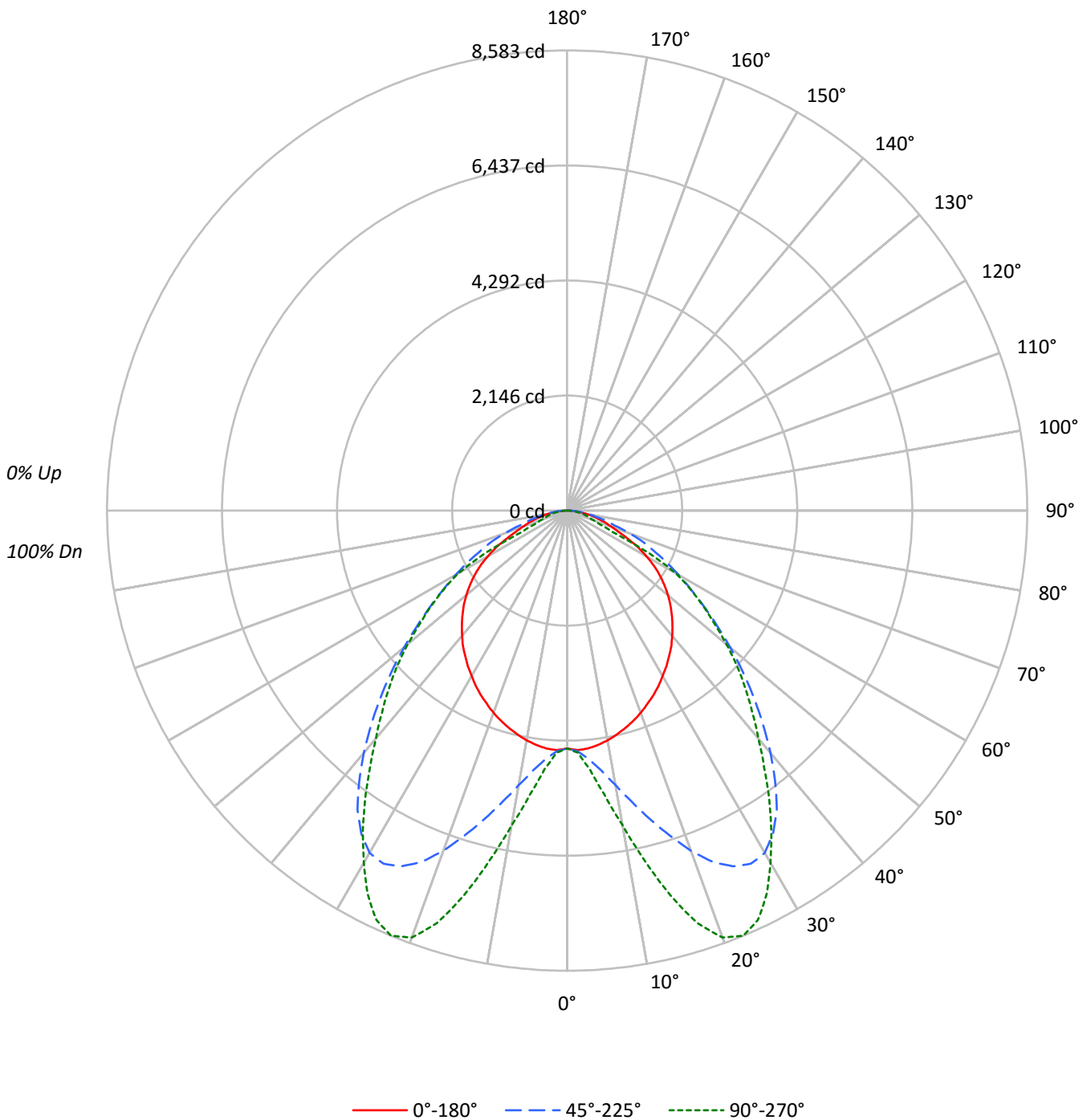
Lumens per Lamp: N/A
Luminaire Lumens: 17330.2 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 142
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°	17365	17365	17365
5°	17502	18219	18964
10°	17288	20548	23529
15°	17000	23916	29744
20°	16718	27798	34745
25°	16411	31164	35656
30°	16087	32723	33438
35°	15836	31877	30457
40°	15566	29380	27369
45°	15280	26390	24975
50°	14930	23297	22451
55°	14378	20324	19845
60°	13405	17849	17102
65°	11617	15469	7645
70°	9997	13045	5284
75°	9165	10131	4778
80°	8242	8245	4181
85°	6860	7192	2856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	2.7
10°-20°	1677.6	9.7
20°-30°	3036.4	17.5
30°-40°	3644.0	21.0
40°-50°	3452.1	19.9
50°-60°	2704.8	15.6
60°-70°	1509.6	8.7
70°-80°	639.7	3.7
80°-90°	199.0	1.1
90°-100°	7.2	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°	5173.9	29.9
0°-40°	8817.9	50.9
0°-60°	14974.7	86.4
0°-90°	17323.0	100.0
90°-120°	7.2	0.0
90°-150°	7.2	0.0
90°-180°	7.0	0.0
0°-180°	17330.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4437	4437	4437	4437	4437	
5°	4455	4473	4650	4804	4845	422
15°	4196	4700	5952	7045	7426	1183
25°	3802	4995	7322	8215	8424	1751
35°	3316	5108	6818	6532	6569	2075
45°	2763	4677	4917	4573	4709	2130
55°	2109	3398	3112	3012	3089	1879
65°	1257	1570	1783	1434	903	1256
75°	608	631	748	531	367	647
85°	154	177	218	168	95	171
90°	0	36	68	45	0	9
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°	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6
2.5°	4472.9	4468.3	4454.7	4436.6	4441.1	4445.7	4445.7	4450.2	4454.7	4468.3	4495.6
5°	4454.7	4445.7	4441.1	4436.6	4459.3	4472.9	4486.5	4513.7	4545.5	4595.4	4649.8
7.5°	4409.4	4409.4	4418.4	4436.6	4486.5	4518.2	4545.5	4613.5	4690.6	4785.9	4890.2
10°	4350.4	4359.5	4386.7	4427.5	4518.2	4568.1	4622.6	4736.0	4867.5	5026.3	5198.7
12.5°	4277.8	4296.0	4341.3	4418.4	4554.5	4631.7	4713.3	4885.7	5080.8	5307.6	5561.6
15°	4196.2	4218.8	4291.4	4404.8	4590.8	4699.7	4813.1	5049.0	5316.6	5620.6	5951.7
17.5°	4110.0	4141.7	4241.5	4400.3	4640.7	4776.8	4922.0	5230.5	5575.2	5942.7	6350.9
20°	4014.7	4060.1	4187.1	4391.2	4686.1	4853.9	5030.9	5416.4	5838.3	6273.8	6750.1
22.5°	3905.8	3964.8	4123.6	4373.1	4731.5	4931.1	5139.7	5588.8	6078.8	6573.2	7090.4
25°	3801.5	3865.0	4051.0	4350.4	4767.7	4994.6	5235.0	5747.6	6296.5	6818.2	7321.7
27.5°	3688.1	3760.7	3983.0	4327.7	4795.0	5049.0	5316.6	5879.2	6455.3	6972.4	7426.1
30°	3561.1	3656.3	3905.8	4291.4	4808.6	5089.8	5380.2	5983.5	6555.1	7008.7	7371.6
32.5°	3443.1	3547.5	3819.6	4250.6	4813.1	5112.5	5421.0	6015.3	6555.1	6927.1	7144.8
35°	3316.1	3429.5	3733.4	4200.7	4795.0	5108.0	5416.4	6006.2	6459.8	6713.9	6818.2
37.5°	3189.1	3311.6	3642.7	4132.7	4754.1	5076.2	5384.7	5915.5	6264.8	6400.8	6373.6
40°	3048.5	3184.5	3524.8	4046.5	4681.6	4994.6	5289.4	5756.7	5979.0	6001.6	5901.8
42.5°	2907.8	3048.5	3406.8	3933.0	4559.1	4858.5	5130.7	5502.6	5607.0	5557.1	5402.8
45°	2762.7	2907.8	3266.2	3797.0	4404.8	4677.0	4903.8	5171.5	5171.5	5080.8	4917.4
47.5°	2613.0	2753.6	3116.5	3638.2	4205.2	4441.1	4627.1	4785.9	4713.3	4599.9	4436.6
50°	2454.2	2594.8	2948.7	3447.7	3946.7	4141.7	4296.0	4354.9	4241.5	4114.5	3969.3
52.5°	2286.3	2427.0	2749.1	3207.2	3642.7	3787.9	3901.3	3896.8	3760.7	3647.3	3520.2
55°	2109.4	2236.4	2526.8	2921.4	3279.8	3397.8	3465.8	3411.4	3284.3	3180.0	3112.0
57.5°	1923.4	2027.8	2277.3	2599.4	2867.0	2957.7	2998.6	2926.0	2835.2	2771.7	2735.4
60°	1714.8	1800.9	1977.9	2227.4	2422.4	2485.9	2513.2	2463.3	2431.5	2413.4	2404.3
62.5°	1497.0	1537.8	1651.2	1814.6	1977.9	2023.2	2055.0	2064.1	2059.5	2068.6	2091.3
65°	1256.6	1270.2	1306.5	1388.1	1515.2	1569.6	1628.6	1692.1	1728.4	1764.7	1782.8
67.5°	1034.3	1038.8	1057.0	1084.2	1134.1	1193.1	1243.0	1338.2	1419.9	1487.9	1533.3
70°	875.5	871.0	875.5	889.1	916.4	939.0	961.7	1029.8	1116.0	1229.4	1238.4
72.5°	739.4	734.9	739.4	748.5	757.6	766.6	780.3	807.5	857.4	925.4	939.0
75°	607.9	607.9	607.9	616.9	626.0	630.6	639.6	648.7	666.8	716.7	748.5
77.5°	485.4	480.9	489.9	494.5	499.0	508.1	512.6	521.7	530.8	548.9	571.6
80°	367.4	362.9	367.4	376.5	381.1	390.1	390.1	403.7	408.3	421.9	431.0
82.5°	258.6	254.0	258.6	267.6	267.6	276.7	281.3	290.3	299.4	308.5	317.5
85°	154.2	154.2	158.8	163.3	167.8	176.9	181.5	195.1	204.1	213.2	217.7
87.5°	68.0	68.0	72.6	77.1	86.2	95.3	99.8	108.9	117.9	131.6	131.6
90°	0.0	4.5	13.6	22.7	27.2	36.3	36.3	49.9	54.4	63.5	68.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	9.1	13.6	18.1
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°	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6	4436.6
2.5°	4536.4	4509.2	4527.3	4531.9	4536.4	4527.3	4518.2	4527.3	4518.2	4518.2
5°	4717.8	4713.3	4758.7	4790.4	4804.0	4804.0	4831.3	4849.4	4853.9	4844.9
7.5°	5003.6	5030.9	5121.6	5185.1	5221.4	5239.5	5289.4	5316.6	5352.9	5348.4
10°	5380.2	5466.3	5602.4	5693.2	5756.7	5788.4	5861.0	5910.9	5969.9	5965.4
12.5°	5793.0	5951.7	6142.3	6287.4	6382.7	6441.7	6536.9	6627.7	6682.1	6686.6
15°	6260.2	6478.0	6736.5	6922.5	7045.0	7122.1	7253.7	7344.4	7435.1	7426.1
17.5°	6718.4	6981.5	7294.5	7539.5	7652.9	7725.5	7884.2	7979.5	8065.7	8065.7
20°	7126.7	7430.6	7748.2	7975.0	8083.8	8156.4	8292.5	8387.8	8451.3	8474.0
22.5°	7453.3	7734.5	8002.2	8197.3	8265.3	8324.3	8428.6	8505.7	8546.6	8582.8
25°	7634.7	7861.6	8043.0	8179.1	8215.4	8247.2	8306.1	8365.1	8374.2	8424.1
27.5°	7639.3	7807.1	7906.9	7956.8	7961.4	7961.4	8002.2	8024.9	8043.0	8061.2
30°	7476.0	7553.1	7571.2	7575.8	7553.1	7539.5	7566.7	7571.2	7584.8	7584.8
32.5°	7149.4	7167.5	7135.7	7085.8	7072.2	7045.0	7063.2	7054.1	7076.8	7090.4
35°	6732.0	6700.2	6618.6	6582.3	6532.4	6518.8	6532.4	6523.3	6536.9	6568.7
37.5°	6255.7	6187.6	6119.6	6056.1	6019.8	5983.5	5997.1	6010.7	6028.9	6037.9
40°	5765.8	5675.0	5602.4	5538.9	5502.6	5475.4	5498.1	5511.7	5552.5	5552.5
42.5°	5271.3	5171.5	5098.9	5058.1	5030.9	5008.2	5044.5	5053.5	5103.4	5112.5
45°	4781.4	4695.2	4636.2	4595.4	4572.7	4581.8	4618.0	4640.7	4686.1	4708.8
47.5°	4332.3	4259.7	4196.2	4178.0	4178.0	4187.1	4223.4	4246.1	4282.4	4309.6
50°	3892.2	3837.8	3797.0	3774.3	3778.8	3792.4	3824.2	3842.3	3878.6	3878.6
52.5°	3461.3	3425.0	3406.8	3379.6	3379.6	3375.1	3406.8	3425.0	3452.2	3456.7
55°	3084.7	3053.0	3034.8	3016.7	3012.2	3021.2	3039.4	3053.0	3084.7	3089.3
57.5°	2726.4	2712.8	2699.2	2685.5	2681.0	2685.5	2694.6	2703.7	2721.8	2726.4
60°	2399.8	2395.2	2377.1	2363.5	2358.9	2354.4	2349.8	2345.3	2354.4	2349.8
62.5°	2100.3	2086.7	2073.1	2045.9	2032.3	1996.0	1950.6	1850.8	1769.2	1723.8
65°	1805.5	1796.4	1732.9	1546.9	1433.5	1288.3	1134.1	984.4	934.5	902.7
67.5°	1519.7	1370.0	1143.2	979.9	920.9	866.5	784.8	703.1	657.8	630.6
70°	1093.3	966.3	861.9	771.2	730.4	698.6	635.1	576.1	535.3	517.1
72.5°	884.6	802.9	734.9	666.8	635.1	598.8	535.3	476.3	440.0	421.9
75°	739.4	689.5	621.5	558.0	530.8	503.5	458.2	412.8	381.1	367.4
77.5°	585.2	558.0	517.1	467.2	444.6	426.4	385.6	353.8	322.1	308.5
80°	431.0	421.9	394.7	358.4	340.2	326.6	294.9	267.6	240.4	231.4
82.5°	317.5	308.5	285.8	258.6	249.5	235.9	213.2	190.5	172.4	163.3
85°	217.7	213.2	195.1	176.9	167.8	158.8	136.1	117.9	104.3	95.3
87.5°	136.1	131.6	122.5	104.3	95.3	86.2	68.0	54.4	40.8	36.3
90°	68.0	68.0	63.5	49.9	45.4	40.8	27.2	13.6	4.5	0.0
92.5°	18.1	18.1	18.1	13.6	13.6	9.1	4.5	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: P256916

CATALOG NUMBER: HGL-S-BA-60L835-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)