

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: P256910

Luminaire Tested: **HGL-S-BA-50L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256910
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-50L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

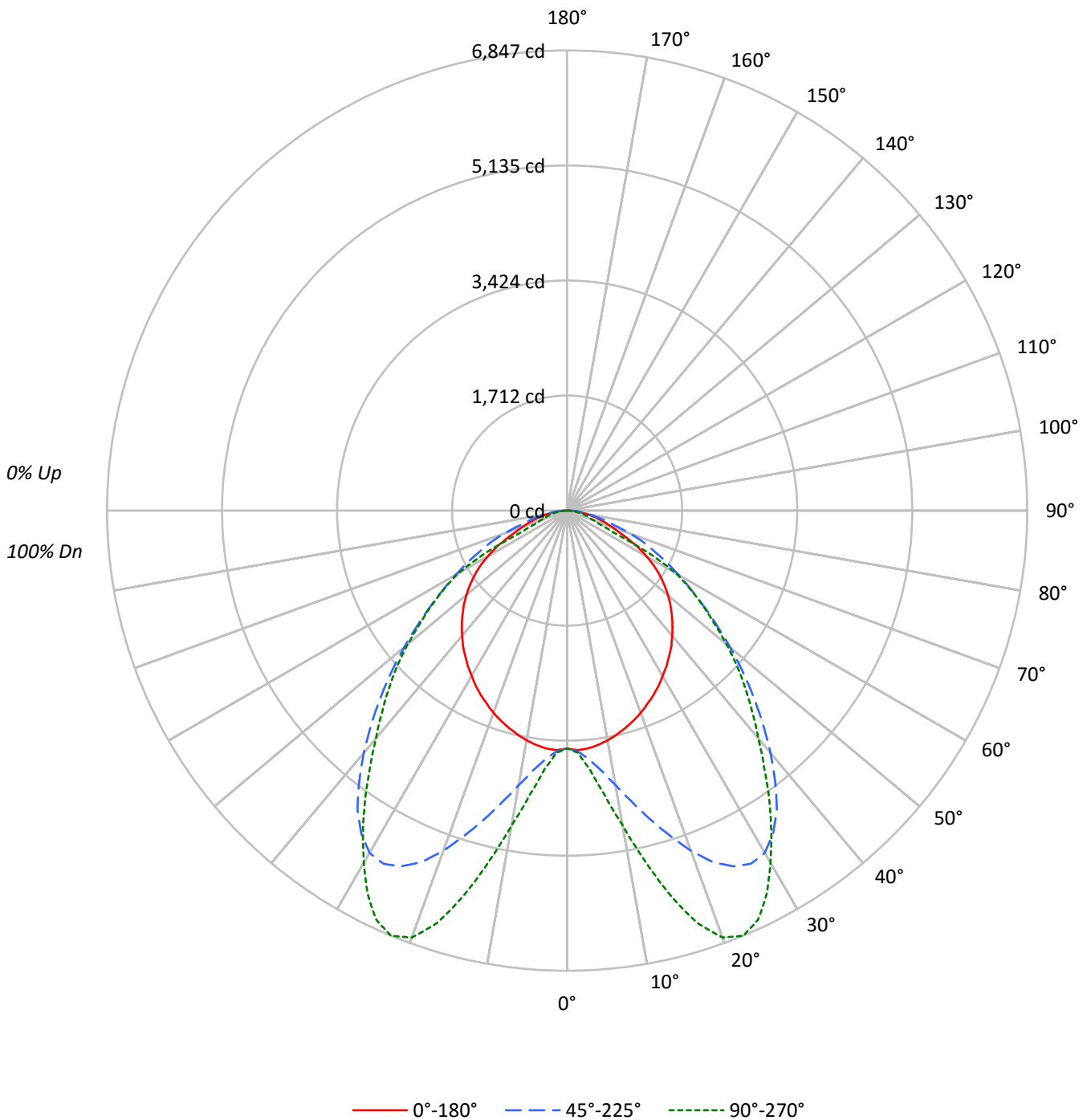
Lumens per Lamp: N/A
Luminaire Lumens: 13824.9 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 112
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°	13853	13853	13853
5°	13962	14534	15128
10°	13792	16392	18770
15°	13561	19079	23728
20°	13336	22176	27718
25°	13092	24861	28444
30°	12833	26104	26675
35°	12633	25430	24296
40°	12417	23438	21833
45°	12189	21052	19923
50°	11910	18585	17910
55°	11470	16213	15831
60°	10693	14239	13644
65°	9267	12340	6099
70°	7974	10407	4215
75°	7310	8082	3812
80°	6576	6577	3336
85°	5472	5738	2277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	2.7
10°-20°	1338.3	9.7
20°-30°	2422.3	17.5
30°-40°	2906.9	21.0
40°-50°	2753.8	19.9
50°-60°	2157.7	15.6
60°-70°	1204.2	8.7
70°-80°	510.3	3.7
80°-90°	158.8	1.1
90°-100°	5.7	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°	4127.4	29.9
0°-40°	7034.3	50.9
0°-60°	11945.8	86.4
0°-90°	13819.2	100.0
90°-120°	5.7	0.0
90°-150°	5.7	0.0
90°-180°	6.0	0.0
0°-180°	13824.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3539	3539	3539	3539	3539	
5°	3554	3568	3709	3832	3865	336
15°	3347	3749	4748	5620	5924	944
25°	3033	3984	5841	6554	6720	1397
35°	2645	4075	5439	5211	5240	1655
45°	2204	3731	3923	3648	3756	1699
55°	1683	2710	2482	2403	2464	1499
65°	1002	1252	1422	1144	720	1002
75°	485	503	597	423	293	516
85°	123	141	174	134	76	137
90°	0	29	54	36	0	7
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°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3568.2	3564.6	3553.7	3539.2	3542.8	3546.5	3546.5	3550.1	3553.7	3564.6	3586.3
5°	3553.7	3546.5	3542.8	3539.2	3557.3	3568.2	3579.0	3600.7	3626.1	3665.9	3709.3
7.5°	3517.5	3517.5	3524.7	3539.2	3579.0	3604.4	3626.1	3680.4	3741.9	3817.9	3901.1
10°	3470.5	3477.7	3499.4	3532.0	3604.4	3644.2	3687.6	3778.1	3883.0	4009.7	4147.2
12.5°	3412.6	3427.0	3463.2	3524.7	3633.3	3694.8	3760.0	3897.5	4053.1	4234.0	4436.7
15°	3347.4	3365.5	3423.4	3513.9	3662.3	3749.1	3839.6	4027.8	4241.3	4483.7	4747.9
17.5°	3278.7	3304.0	3383.6	3510.3	3702.1	3810.6	3926.4	4172.5	4447.5	4740.7	5066.4
20°	3202.7	3238.9	3340.2	3503.0	3738.3	3872.2	4013.3	4320.9	4657.4	5004.8	5384.8
22.5°	3115.8	3162.9	3289.5	3488.6	3774.4	3933.7	4100.1	4458.4	4849.2	5243.7	5656.2
25°	3032.6	3083.2	3231.6	3470.5	3803.4	3984.3	4176.1	4585.1	5022.9	5439.1	5840.8
27.5°	2942.1	3000.0	3177.3	3452.4	3825.1	4027.8	4241.3	4690.0	5149.6	5562.1	5924.0
30°	2840.8	2916.8	3115.8	3423.4	3836.0	4060.3	4291.9	4773.2	5229.2	5591.1	5880.6
32.5°	2746.7	2829.9	3047.1	3390.8	3839.6	4078.4	4324.5	4798.6	5229.2	5526.0	5699.7
35°	2645.4	2735.8	2978.3	3351.0	3825.1	4074.8	4320.9	4791.3	5153.2	5355.9	5439.1
37.5°	2544.0	2641.7	2905.9	3296.8	3792.5	4049.5	4295.6	4719.0	4997.6	5106.2	5084.5
40°	2431.9	2540.4	2811.8	3228.0	3734.6	3984.3	4219.6	4592.3	4769.6	4787.7	4708.1
42.5°	2319.7	2431.9	2717.7	3137.5	3636.9	3875.8	4092.9	4389.6	4472.9	4433.1	4310.0
45°	2203.9	2319.7	2605.6	3029.0	3513.9	3731.0	3912.0	4125.5	4125.5	4053.1	3922.8
47.5°	2084.4	2196.6	2486.1	2902.3	3354.7	3542.8	3691.2	3817.9	3760.0	3669.5	3539.2
50°	1957.8	2070.0	2352.2	2750.3	3148.4	3304.0	3427.0	3474.1	3383.6	3282.3	3166.5
52.5°	1823.9	1936.1	2193.0	2558.5	2905.9	3021.7	3112.2	3108.6	3000.0	2909.5	2808.2
55°	1682.8	1784.1	2015.7	2330.5	2616.4	2710.5	2764.8	2721.4	2620.0	2536.8	2482.5
57.5°	1534.4	1617.6	1816.7	2073.6	2287.1	2359.5	2392.0	2334.1	2261.8	2211.1	2182.2
60°	1367.9	1436.7	1577.8	1776.8	1932.5	1983.1	2004.8	1965.0	1939.7	1925.2	1918.0
62.5°	1194.2	1226.8	1317.3	1447.5	1577.8	1614.0	1639.3	1646.6	1643.0	1650.2	1668.3
65°	1002.4	1013.3	1042.2	1107.4	1208.7	1252.1	1299.2	1349.8	1378.8	1407.7	1422.2
67.5°	825.1	828.7	843.2	864.9	904.7	951.8	991.6	1067.6	1132.7	1187.0	1223.2
70°	698.4	694.8	698.4	709.3	731.0	749.1	767.2	821.5	890.2	980.7	987.9
72.5°	589.9	586.3	589.9	597.1	604.3	611.6	622.4	644.2	684.0	738.2	749.1
75°	484.9	484.9	484.9	492.2	499.4	503.0	510.3	517.5	532.0	571.8	597.1
77.5°	387.2	383.6	390.8	394.5	398.1	405.3	408.9	416.2	423.4	437.9	456.0
80°	293.1	289.5	293.1	300.4	304.0	311.2	311.2	322.1	325.7	336.6	343.8
82.5°	206.3	202.7	206.3	213.5	213.5	220.7	224.4	231.6	238.8	246.1	253.3
85°	123.0	123.0	126.7	130.3	133.9	141.1	144.8	155.6	162.8	170.1	173.7
87.5°	54.3	54.3	57.9	61.5	68.8	76.0	79.6	86.9	94.1	104.9	104.9
90°	0.0	3.6	10.9	18.1	21.7	29.0	29.0	39.8	43.4	50.7	54.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	7.2	10.9	14.5
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°	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2	3539.2
2.5°	3618.8	3597.1	3611.6	3615.2	3618.8	3611.6	3604.4	3611.6	3604.4	3604.4
5°	3763.6	3760.0	3796.2	3821.5	3832.3	3832.3	3854.1	3868.5	3872.2	3864.9
7.5°	3991.6	4013.3	4085.7	4136.3	4165.3	4179.8	4219.6	4241.3	4270.2	4266.6
10°	4291.9	4360.7	4469.3	4541.6	4592.3	4617.6	4675.5	4715.3	4762.4	4758.8
12.5°	4621.3	4747.9	4899.9	5015.7	5091.7	5138.7	5214.7	5287.1	5330.5	5334.2
15°	4994.0	5167.7	5374.0	5522.3	5620.0	5681.6	5786.5	5858.9	5931.3	5924.0
17.5°	5359.5	5569.4	5819.1	6014.5	6105.0	6162.9	6289.5	6365.5	6434.3	6434.3
20°	5685.2	5927.7	6181.0	6361.9	6448.8	6506.7	6615.2	6691.2	6741.9	6760.0
22.5°	5945.7	6170.1	6383.6	6539.2	6593.5	6640.6	6723.8	6785.3	6817.9	6846.8
25°	6090.5	6271.4	6416.2	6524.8	6553.7	6579.0	6626.1	6673.1	6680.4	6720.2
27.5°	6094.1	6228.0	6307.6	6347.4	6351.1	6351.1	6383.6	6401.7	6416.2	6430.7
30°	5963.8	6025.4	6039.8	6043.5	6025.4	6014.5	6036.2	6039.8	6050.7	6050.7
32.5°	5703.3	5717.8	5692.4	5652.6	5641.8	5620.0	5634.5	5627.3	5645.4	5656.2
35°	5370.4	5345.0	5279.9	5250.9	5211.1	5200.3	5211.1	5203.9	5214.7	5240.1
37.5°	4990.4	4936.1	4881.8	4831.1	4802.2	4773.2	4784.1	4795.0	4809.4	4816.7
40°	4599.5	4527.2	4469.3	4418.6	4389.6	4367.9	4386.0	4396.9	4429.5	4429.5
42.5°	4205.1	4125.5	4067.6	4035.0	4013.3	3995.2	4024.1	4031.4	4071.2	4078.4
45°	3814.3	3745.5	3698.4	3665.9	3647.8	3655.0	3684.0	3702.1	3738.3	3756.3
47.5°	3456.0	3398.1	3347.4	3332.9	3332.9	3340.2	3369.1	3387.2	3416.2	3437.9
50°	3105.0	3061.5	3029.0	3010.9	3014.5	3025.3	3050.7	3065.2	3094.1	3094.1
52.5°	2761.2	2732.2	2717.7	2696.0	2696.0	2692.4	2717.7	2732.2	2753.9	2757.6
55°	2460.8	2435.5	2421.0	2406.5	2402.9	2410.1	2424.6	2435.5	2460.8	2464.4
57.5°	2174.9	2164.1	2153.2	2142.3	2138.7	2142.3	2149.6	2156.8	2171.3	2174.9
60°	1914.4	1910.7	1896.3	1885.4	1881.8	1878.2	1874.6	1870.9	1878.2	1874.6
62.5°	1675.5	1664.7	1653.8	1632.1	1621.2	1592.3	1556.1	1476.5	1411.3	1375.2
65°	1440.3	1433.1	1382.4	1234.0	1143.6	1027.7	904.7	785.3	745.5	720.1
67.5°	1212.3	1092.9	911.9	781.7	734.6	691.2	626.1	560.9	524.7	503.0
70°	872.1	770.8	687.6	615.2	582.6	557.3	506.6	459.6	427.0	412.5
72.5°	705.7	640.5	586.3	532.0	506.6	477.7	427.0	380.0	351.0	336.6
75°	589.9	550.1	495.8	445.1	423.4	401.7	365.5	329.3	304.0	293.1
77.5°	466.8	445.1	412.5	372.7	354.6	340.2	307.6	282.3	256.9	246.1
80°	343.8	336.6	314.8	285.9	271.4	260.6	235.2	213.5	191.8	184.6
82.5°	253.3	246.1	228.0	206.3	199.0	188.2	170.1	152.0	137.5	130.3
85°	173.7	170.1	155.6	141.1	133.9	126.7	108.6	94.1	83.2	76.0
87.5°	108.6	104.9	97.7	83.2	76.0	68.8	54.3	43.4	32.6	29.0
90°	54.3	54.3	50.7	39.8	36.2	32.6	21.7	10.9	3.6	0.0
92.5°	14.5	14.5	14.5	10.9	10.9	7.2	3.6	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: P256910

CATALOG NUMBER: HGL-S-BA-50L830-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)