

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: P256864

Luminaire Tested: **HGL-S-BA-80L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256864
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7807.6 lumens
Efficiency: N/A
Efficacy: 110.1 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

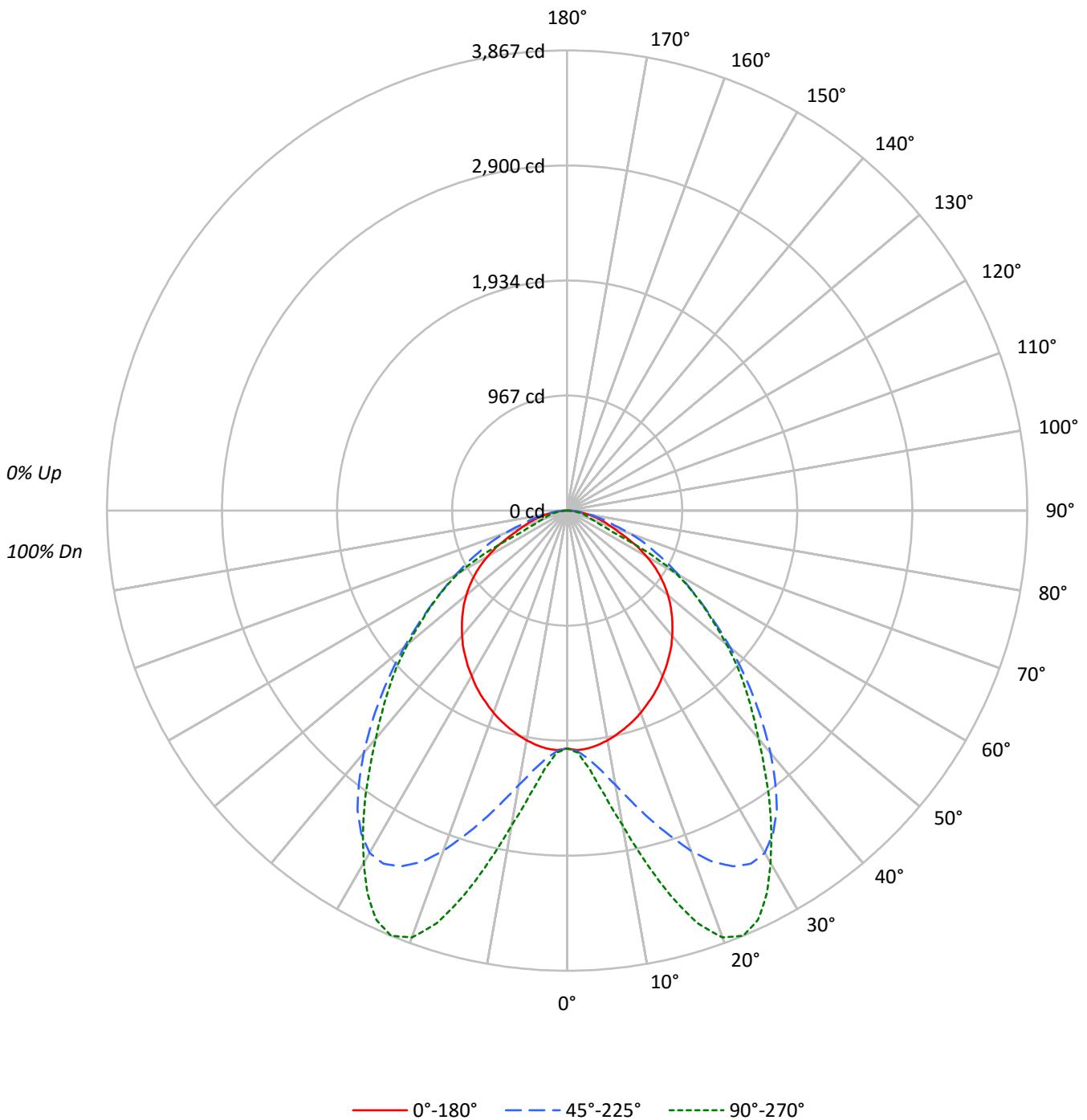
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23471	23471	23471
5°	23651	24622	25630
10°	23359	27766	31800
15°	22967	32314	40201
20°	22581	37556	46960
25°	22163	42097	48191
30°	21721	44198	45194
35°	21379	43049	41163
40°	21008	39671	36990
45°	20617	35627	33756
50°	20139	31446	30344
55°	19386	27424	26822
60°	18064	24078	23116
65°	15645	20858	10333
70°	13448	17579	7143
75°	12312	13638	6457
80°	11035	11082	5648
85°	9104	9627	3856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	2.7
10°-20°	755.8	9.7
20°-30°	1368.0	17.5
30°-40°	1641.7	21.0
40°-50°	1555.2	19.9
50°-60°	1218.6	15.6
60°-70°	680.1	8.7
70°-80°	288.2	3.7
80°-90°	89.7	1.1
90°-100°	3.2	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°	2330.9	29.9
0°-40°	3972.6	50.9
0°-60°	6746.4	86.4
0°-90°	7804.4	100.0
90°-120°	3.2	0.0
90°-150°	3.2	0.0
90°-180°	3.0	0.0
0°-180°	7807.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2007	2015	2095	2164	2183	190
15°	1890	2117	2681	3174	3346	533
25°	1713	2250	3299	3701	3795	789
35°	1494	2301	3072	2943	2959	935
45°	1245	2107	2215	2060	2121	960
55°	950	1531	1402	1357	1392	846
65°	566	707	803	646	407	566
75°	274	284	337	239	166	292
85°	70	80	98	76	43	77
90°	0	16	31	20	0	4
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°	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8
2.5°	2015.1	2013.1	2006.9	1998.8	2000.8	2002.9	2002.9	2004.9	2006.9	2013.1	2025.3
5°	2006.9	2002.9	2000.8	1998.8	2009.0	2015.1	2021.3	2033.5	2047.8	2070.3	2094.8
7.5°	1986.5	1986.5	1990.6	1998.8	2021.3	2035.6	2047.8	2078.5	2113.2	2156.1	2203.1
10°	1959.9	1964.0	1976.3	1994.7	2035.6	2058.0	2082.6	2133.7	2192.9	2264.5	2342.1
12.5°	1927.2	1935.4	1955.9	1990.6	2051.9	2086.7	2123.4	2201.1	2289.0	2391.2	2505.6
15°	1890.5	1900.7	1933.4	1984.5	2068.3	2117.3	2168.4	2274.7	2395.3	2532.2	2681.4
17.5°	1851.6	1865.9	1910.9	1982.4	2090.7	2152.1	2217.5	2356.4	2511.7	2677.3	2861.2
20°	1808.7	1829.1	1886.4	1978.3	2111.2	2186.8	2266.5	2440.2	2630.3	2826.5	3041.1
22.5°	1759.7	1786.2	1857.8	1970.2	2131.6	2221.5	2315.5	2517.9	2738.6	2961.4	3194.4
25°	1712.6	1741.3	1825.1	1959.9	2148.0	2250.1	2358.5	2589.4	2836.7	3071.7	3298.6
27.5°	1661.6	1694.3	1794.4	1949.7	2160.2	2274.7	2395.3	2648.7	2908.2	3141.2	3345.6
30°	1604.3	1647.2	1759.7	1933.4	2166.4	2293.1	2423.9	2695.7	2953.2	3157.6	3321.1
32.5°	1551.2	1598.2	1720.8	1915.0	2168.4	2303.3	2442.3	2710.0	2953.2	3120.8	3218.9
35°	1494.0	1545.1	1682.0	1892.5	2160.2	2301.2	2440.2	2705.9	2910.3	3024.7	3071.7
37.5°	1436.7	1491.9	1641.1	1861.8	2141.8	2286.9	2425.9	2665.0	2822.4	2883.7	2871.4
40°	1373.4	1434.7	1588.0	1823.0	2109.1	2250.1	2383.0	2593.5	2693.6	2703.9	2658.9
42.5°	1310.0	1373.4	1534.8	1771.9	2054.0	2188.8	2311.5	2479.0	2526.1	2503.6	2434.1
45°	1244.6	1310.0	1471.5	1710.6	1984.5	2107.1	2209.3	2329.9	2329.9	2289.0	2215.4
47.5°	1177.2	1240.5	1404.0	1639.1	1894.5	2000.8	2084.6	2156.1	2123.4	2072.3	1998.8
50°	1105.7	1169.0	1328.4	1553.2	1778.0	1865.9	1935.4	1962.0	1910.9	1853.7	1788.3
52.5°	1030.0	1093.4	1238.5	1444.9	1641.1	1706.5	1757.6	1755.6	1694.3	1643.2	1585.9
55°	950.3	1007.6	1138.4	1316.2	1477.6	1530.8	1561.4	1536.9	1479.7	1432.7	1402.0
57.5°	866.5	913.5	1026.0	1171.1	1291.6	1332.5	1350.9	1318.2	1277.3	1248.7	1232.4
60°	772.5	811.4	891.1	1003.5	1091.4	1120.0	1132.2	1109.7	1095.4	1087.3	1083.2
62.5°	674.4	692.8	743.9	817.5	891.1	911.5	925.8	929.9	927.9	931.9	942.2
65°	566.1	572.2	588.6	625.4	682.6	707.1	733.7	762.3	778.7	795.0	803.2
67.5°	466.0	468.0	476.2	488.5	510.9	537.5	560.0	602.9	639.7	670.3	690.8
70°	394.4	392.4	394.4	400.6	412.8	423.1	433.3	463.9	502.8	553.9	557.9
72.5°	333.1	331.1	333.1	337.2	341.3	345.4	351.5	363.8	386.3	416.9	423.1
75°	273.9	273.9	273.9	277.9	282.0	284.1	288.2	292.3	300.4	322.9	337.2
77.5°	218.7	216.6	220.7	222.8	224.8	228.9	230.9	235.0	239.1	247.3	257.5
80°	165.5	163.5	165.5	169.6	171.7	175.8	175.8	181.9	183.9	190.1	194.2
82.5°	116.5	114.4	116.5	120.6	120.6	124.7	126.7	130.8	134.9	139.0	143.1
85°	69.5	69.5	71.5	73.6	75.6	79.7	81.7	87.9	92.0	96.1	98.1
87.5°	30.7	30.7	32.7	34.7	38.8	42.9	45.0	49.0	53.1	59.3	59.3
90°	0.0	2.0	6.1	10.2	12.3	16.3	16.3	22.5	24.5	28.6	30.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.1	6.1	8.2
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°	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8	1998.8
2.5°	2043.7	2031.5	2039.6	2041.7	2043.7	2039.6	2035.6	2039.6	2035.6	2035.6
5°	2125.5	2123.4	2143.9	2158.2	2164.3	2164.3	2176.6	2184.8	2186.8	2182.7
7.5°	2254.2	2266.5	2307.4	2336.0	2352.3	2360.5	2383.0	2395.3	2411.6	2409.6
10°	2423.9	2462.7	2524.0	2564.9	2593.5	2607.8	2640.5	2663.0	2689.6	2687.5
12.5°	2609.8	2681.4	2767.2	2832.6	2875.5	2902.1	2945.0	2985.9	3010.4	3012.5
15°	2820.4	2918.5	3034.9	3118.7	3173.9	3208.7	3267.9	3308.8	3349.7	3345.6
17.5°	3026.8	3145.3	3286.3	3396.7	3447.8	3480.5	3552.0	3594.9	3633.8	3633.8
20°	3210.7	3347.6	3490.7	3592.9	3641.9	3674.6	3735.9	3778.9	3807.5	3817.7
22.5°	3357.9	3484.6	3605.1	3693.0	3723.7	3750.2	3797.3	3832.0	3850.4	3866.7
25°	3439.6	3541.8	3623.5	3684.9	3701.2	3715.5	3742.1	3768.6	3772.7	3795.2
27.5°	3441.6	3517.3	3562.2	3584.7	3586.8	3586.8	3605.1	3615.4	3623.5	3631.7
30°	3368.1	3402.8	3411.0	3413.0	3402.8	3396.7	3408.9	3411.0	3417.1	3417.1
32.5°	3220.9	3229.1	3214.8	3192.3	3186.2	3173.9	3182.1	3178.0	3188.2	3194.4
35°	3032.9	3018.6	2981.8	2965.5	2943.0	2936.8	2943.0	2938.9	2945.0	2959.3
37.5°	2818.3	2787.7	2757.0	2728.4	2712.0	2695.7	2701.8	2707.9	2716.1	2720.2
40°	2597.6	2556.7	2524.0	2495.4	2479.0	2466.8	2477.0	2483.1	2501.5	2501.5
42.5°	2374.8	2329.9	2297.2	2278.8	2266.5	2256.3	2272.6	2276.7	2299.2	2303.3
45°	2154.1	2115.3	2088.7	2070.3	2060.1	2064.2	2080.5	2090.7	2111.2	2121.4
47.5°	1951.8	1919.1	1890.5	1882.3	1882.3	1886.4	1902.7	1912.9	1929.3	1941.5
50°	1753.5	1729.0	1710.6	1700.4	1702.4	1708.6	1722.9	1731.0	1747.4	1747.4
52.5°	1559.4	1543.0	1534.8	1522.6	1522.6	1520.5	1534.8	1543.0	1555.3	1557.3
55°	1389.7	1375.4	1367.3	1359.1	1357.0	1361.1	1369.3	1375.4	1389.7	1391.8
57.5°	1228.3	1222.2	1216.0	1209.9	1207.8	1209.9	1214.0	1218.1	1226.2	1228.3
60°	1081.1	1079.1	1070.9	1064.8	1062.7	1060.7	1058.7	1056.6	1060.7	1058.7
62.5°	946.2	940.1	934.0	921.7	915.6	899.2	878.8	833.8	797.1	776.6
65°	813.4	809.3	780.7	696.9	645.8	580.4	510.9	443.5	421.0	406.7
67.5°	684.7	617.2	515.0	441.4	414.9	390.4	353.6	316.8	296.3	284.1
70°	492.5	435.3	388.3	347.4	329.0	314.7	286.1	259.6	241.2	233.0
72.5°	398.5	361.7	331.1	300.4	286.1	269.8	241.2	214.6	198.2	190.1
75°	333.1	310.6	280.0	251.4	239.1	226.9	206.4	186.0	171.7	165.5
77.5°	263.6	251.4	233.0	210.5	200.3	192.1	173.7	159.4	145.1	139.0
80°	194.2	190.1	177.8	161.5	153.3	147.1	132.8	120.6	108.3	104.2
82.5°	143.1	139.0	128.8	116.5	112.4	106.3	96.1	85.8	77.7	73.6
85°	98.1	96.1	87.9	79.7	75.6	71.5	61.3	53.1	47.0	42.9
87.5°	61.3	59.3	55.2	47.0	42.9	38.8	30.7	24.5	18.4	16.3
90°	30.7	30.7	28.6	22.5	20.4	18.4	12.3	6.1	2.0	0.0
92.5°	8.2	8.2	8.2	6.1	6.1	4.1	2.0	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: P256864

CATALOG NUMBER: HGL-S-BA-80L835-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)