

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: P256884

Luminaire Tested: **HGL-S-BA-40L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256884
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-40L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7364.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

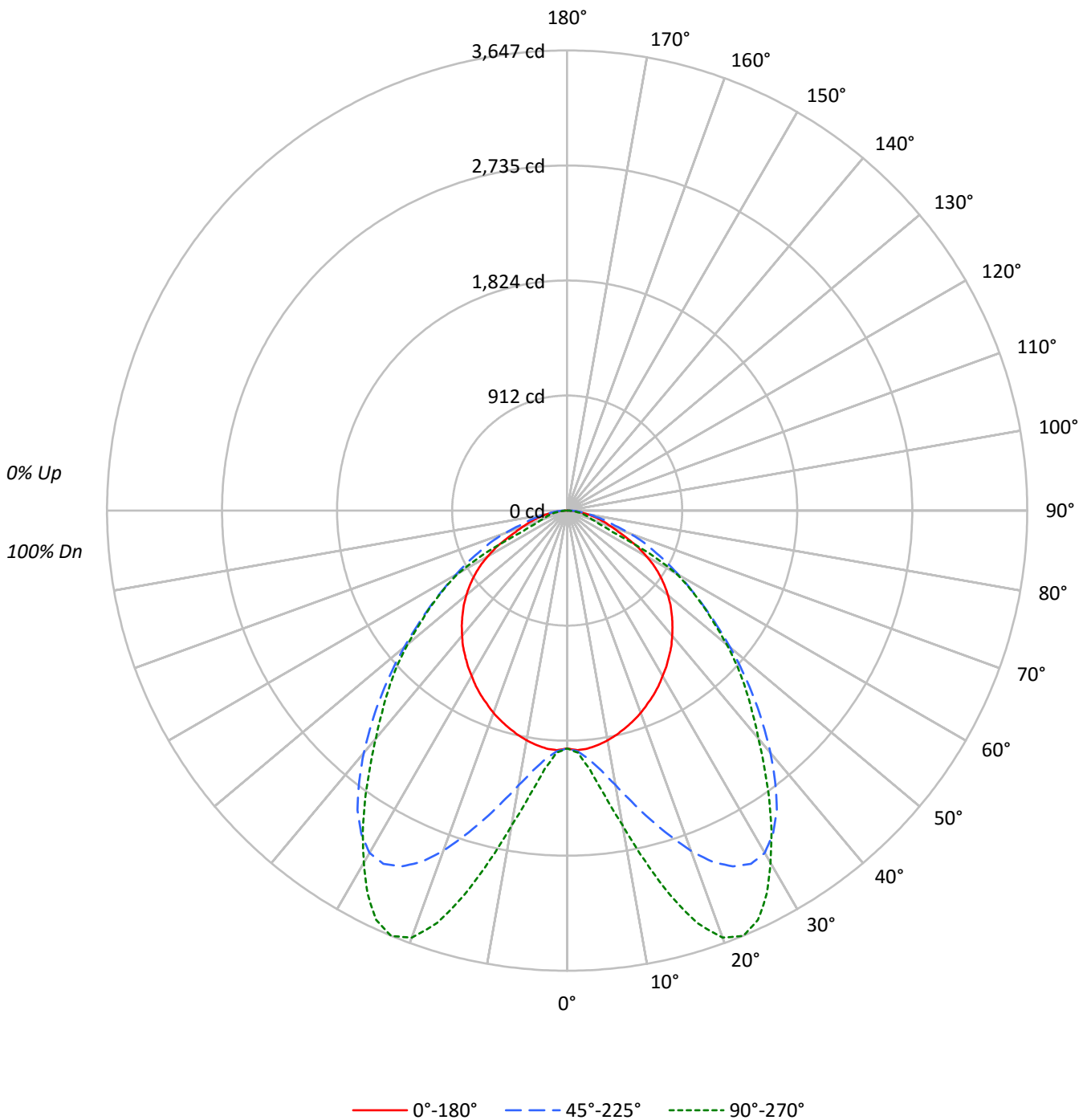
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11070	11070	11070
5°	11156	11614	12088
10°	11020	13098	14998
15°	10835	15244	18961
20°	10655	17718	22149
25°	10459	19863	22729
30°	10252	20856	21315
35°	10092	20316	19415
40°	9919	18724	17447
45°	9736	16818	15921
50°	9513	14846	14311
55°	9159	12950	12650
60°	8538	11372	10902
65°	7399	9854	4873
70°	6366	8310	3369
75°	5832	6452	3047
80°	5244	5246	2664
85°	4350	4572	1820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	2.7
10°-20°	712.9	9.7
20°-30°	1290.4	17.5
30°-40°	1548.6	21.0
40°-50°	1467.0	19.9
50°-60°	1149.4	15.6
60°-70°	641.5	8.7
70°-80°	271.9	3.7
80°-90°	84.6	1.1
90°-100°	3.0	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°	2198.7	29.9
0°-40°	3747.3	50.9
0°-60°	6363.8	86.4
0°-90°	7361.7	100.0
90°-120°	3.0	0.0
90°-150°	3.0	0.0
90°-180°	3.0	0.0
0°-180°	7364.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1893	1901	1976	2042	2059	179
15°	1783	1997	2529	2994	3156	503
25°	1616	2122	3112	3491	3580	744
35°	1409	2171	2898	2776	2792	882
45°	1174	1988	2090	1943	2001	905
55°	896	1444	1322	1280	1313	798
65°	534	667	758	609	384	534
75°	258	268	318	226	156	275
85°	66	75	92	71	40	73
90°	0	15	29	19	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°	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	1900.8	1898.9	1893.1	1885.4	1887.3	1889.3	1889.3	1891.2	1893.1	1898.9	1910.5
5°	1893.1	1889.3	1887.3	1885.4	1895.1	1900.8	1906.6	1918.2	1931.7	1952.9	1976.0
7.5°	1873.8	1873.8	1877.7	1885.4	1906.6	1920.1	1931.7	1960.6	1993.4	2033.9	2078.2
10°	1848.8	1852.6	1864.2	1881.6	1920.1	1941.3	1964.5	2012.7	2068.6	2136.0	2209.3
12.5°	1817.9	1825.7	1844.9	1877.7	1935.5	1968.3	2003.0	2076.3	2159.2	2255.6	2363.5
15°	1783.2	1792.9	1823.7	1871.9	1951.0	1997.2	2045.4	2145.7	2259.4	2388.6	2529.3
17.5°	1746.6	1760.1	1802.5	1870.0	1972.2	2030.0	2091.7	2222.8	2369.3	2525.5	2699.0
20°	1706.1	1725.4	1779.4	1866.1	1991.4	2062.8	2138.0	2301.8	2481.1	2666.2	2868.6
22.5°	1659.9	1684.9	1752.4	1858.4	2010.7	2095.5	2184.2	2375.1	2583.3	2793.4	3013.2
25°	1615.5	1642.5	1721.5	1848.8	2026.1	2122.5	2224.7	2442.6	2675.8	2897.5	3111.5
27.5°	1567.3	1598.2	1692.6	1839.1	2037.7	2145.7	2259.4	2498.5	2743.3	2963.1	3155.9
30°	1513.3	1553.8	1659.9	1823.7	2043.5	2163.0	2286.4	2542.8	2785.7	2978.5	3132.7
32.5°	1463.2	1507.6	1623.2	1806.4	2045.4	2172.7	2303.8	2556.3	2785.7	2943.8	3036.3
35°	1409.2	1457.4	1586.6	1785.2	2037.7	2170.7	2301.8	2552.4	2745.2	2853.2	2897.5
37.5°	1355.3	1407.3	1548.0	1756.3	2020.4	2157.2	2288.3	2513.9	2662.3	2720.2	2708.6
40°	1295.5	1353.3	1497.9	1719.6	1989.5	2122.5	2247.8	2446.4	2540.9	2550.5	2508.1
42.5°	1235.7	1295.5	1447.8	1671.4	1937.5	2064.7	2180.4	2338.5	2382.8	2361.6	2296.0
45°	1174.0	1235.7	1388.0	1613.6	1871.9	1987.6	2084.0	2197.7	2197.7	2159.2	2089.8
47.5°	1110.4	1170.2	1324.4	1546.1	1787.1	1887.3	1966.4	2033.9	2003.0	1954.8	1885.4
50°	1043.0	1102.7	1253.1	1465.1	1677.2	1760.1	1825.7	1850.7	1802.5	1748.5	1686.8
52.5°	971.6	1031.4	1168.3	1363.0	1548.0	1609.7	1657.9	1656.0	1598.2	1550.0	1496.0
55°	896.4	950.4	1073.8	1241.5	1393.8	1443.9	1472.9	1449.7	1395.7	1351.4	1322.5
57.5°	817.4	861.7	967.8	1104.6	1218.4	1256.9	1274.3	1243.4	1204.9	1177.9	1162.5
60°	728.7	765.3	840.5	946.6	1029.5	1056.4	1068.0	1046.8	1033.3	1025.6	1021.7
62.5°	636.2	653.5	701.7	771.1	840.5	859.8	873.3	877.2	875.2	879.1	888.7
65°	534.0	539.8	555.2	589.9	643.9	667.0	692.1	719.1	734.5	749.9	757.6
67.5°	439.5	441.5	449.2	460.8	482.0	507.0	528.2	568.7	603.4	632.3	651.6
70°	372.1	370.1	372.1	377.9	389.4	399.1	408.7	437.6	474.2	522.4	526.3
72.5°	314.2	312.3	314.2	318.1	321.9	325.8	331.6	343.2	364.4	393.3	399.1
75°	258.3	258.3	258.3	262.2	266.0	268.0	271.8	275.7	283.4	304.6	318.1
77.5°	206.3	204.3	208.2	210.1	212.1	215.9	217.8	221.7	225.6	233.3	242.9
80°	156.2	154.2	156.2	160.0	161.9	165.8	165.8	171.6	173.5	179.3	183.1
82.5°	109.9	108.0	109.9	113.7	113.7	117.6	119.5	123.4	127.2	131.1	134.9
85°	65.5	65.5	67.5	69.4	71.3	75.2	77.1	82.9	86.8	90.6	92.5
87.5°	28.9	28.9	30.8	32.8	36.6	40.5	42.4	46.3	50.1	55.9	55.9
90°	0.0	1.9	5.8	9.6	11.6	15.4	15.4	21.2	23.1	27.0	28.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.9	5.8	7.7
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°	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	1927.8	1916.3	1924.0	1925.9	1927.8	1924.0	1920.1	1924.0	1920.1	1920.1
5°	2004.9	2003.0	2022.3	2035.8	2041.6	2041.6	2053.1	2060.8	2062.8	2058.9
7.5°	2126.4	2138.0	2176.5	2203.5	2218.9	2226.6	2247.8	2259.4	2274.8	2272.9
10°	2286.4	2323.0	2380.9	2419.4	2446.4	2459.9	2490.8	2512.0	2537.0	2535.1
12.5°	2461.8	2529.3	2610.3	2672.0	2712.5	2737.5	2778.0	2816.6	2839.7	2841.6
15°	2660.4	2752.9	2862.8	2941.9	2993.9	3026.7	3082.6	3121.2	3159.7	3155.9
17.5°	2855.1	2966.9	3099.9	3204.0	3252.2	3283.1	3350.6	3391.0	3427.7	3427.7
20°	3028.6	3157.8	3292.7	3389.1	3435.4	3466.2	3524.1	3564.6	3591.5	3601.2
22.5°	3167.4	3286.9	3400.7	3483.6	3512.5	3537.6	3581.9	3614.7	3632.0	3647.4
25°	3244.5	3340.9	3418.0	3475.9	3491.3	3504.8	3529.9	3554.9	3558.8	3580.0
27.5°	3246.5	3317.8	3360.2	3381.4	3383.3	3383.3	3400.7	3410.3	3418.0	3425.7
30°	3177.1	3209.8	3217.5	3219.5	3209.8	3204.0	3215.6	3217.5	3223.3	3223.3
32.5°	3038.3	3046.0	3032.5	3011.3	3005.5	2993.9	3001.6	2997.8	3007.4	3013.2
35°	2860.9	2847.4	2812.7	2797.3	2776.1	2770.3	2776.1	2772.2	2778.0	2791.5
37.5°	2658.5	2629.6	2600.6	2573.6	2558.2	2542.8	2548.6	2554.4	2562.1	2565.9
40°	2450.3	2411.7	2380.9	2353.9	2338.5	2326.9	2336.5	2342.3	2359.7	2359.7
42.5°	2240.1	2197.7	2166.9	2149.5	2138.0	2128.3	2143.7	2147.6	2168.8	2172.7
45°	2031.9	1995.3	1970.2	1952.9	1943.2	1947.1	1962.5	1972.2	1991.4	2001.1
47.5°	1841.1	1810.2	1783.2	1775.5	1775.5	1779.4	1794.8	1804.4	1819.9	1831.4
50°	1654.1	1630.9	1613.6	1604.0	1605.9	1611.7	1625.2	1632.9	1648.3	1648.3
52.5°	1470.9	1455.5	1447.8	1436.2	1436.2	1434.3	1447.8	1455.5	1467.1	1469.0
55°	1310.9	1297.4	1289.7	1282.0	1280.1	1283.9	1291.6	1297.4	1310.9	1312.8
57.5°	1158.6	1152.8	1147.1	1141.3	1139.3	1141.3	1145.1	1149.0	1156.7	1158.6
60°	1019.8	1017.9	1010.2	1004.4	1002.5	1000.5	998.6	996.7	1000.5	998.6
62.5°	892.6	886.8	881.0	869.4	863.7	848.2	829.0	786.6	751.9	732.6
65°	767.3	763.4	736.4	657.4	609.2	547.5	482.0	418.3	397.1	383.6
67.5°	645.8	582.2	485.8	416.4	391.3	368.2	333.5	298.8	279.5	268.0
70°	464.6	410.6	366.3	327.7	310.4	296.9	269.9	244.8	227.5	219.8
72.5°	375.9	341.2	312.3	283.4	269.9	254.5	227.5	202.4	187.0	179.3
75°	314.2	293.0	264.1	237.1	225.6	214.0	194.7	175.4	161.9	156.2
77.5°	248.7	237.1	219.8	198.6	188.9	181.2	163.9	150.4	136.9	131.1
80°	183.1	179.3	167.7	152.3	144.6	138.8	125.3	113.7	102.2	98.3
82.5°	134.9	131.1	121.5	109.9	106.0	100.2	90.6	81.0	73.3	69.4
85°	92.5	90.6	82.9	75.2	71.3	67.5	57.8	50.1	44.3	40.5
87.5°	57.8	55.9	52.1	44.3	40.5	36.6	28.9	23.1	17.4	15.4
90°	28.9	28.9	27.0	21.2	19.3	17.4	11.6	5.8	1.9	0.0
92.5°	7.7	7.7	7.7	5.8	5.8	3.9	1.9	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: P256884

CATALOG NUMBER: HGL-S-BA-40L830-UNV-8

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)